

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091818\  
 Data File : BF109108.D  
 Acq On : 18 Sep 2018 20:56  
 Operator : JU/SJ  
 Sample : J4772-01 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 19 04:03:45 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 14 13:26:52 2018  
 Response via : Initial Calibration

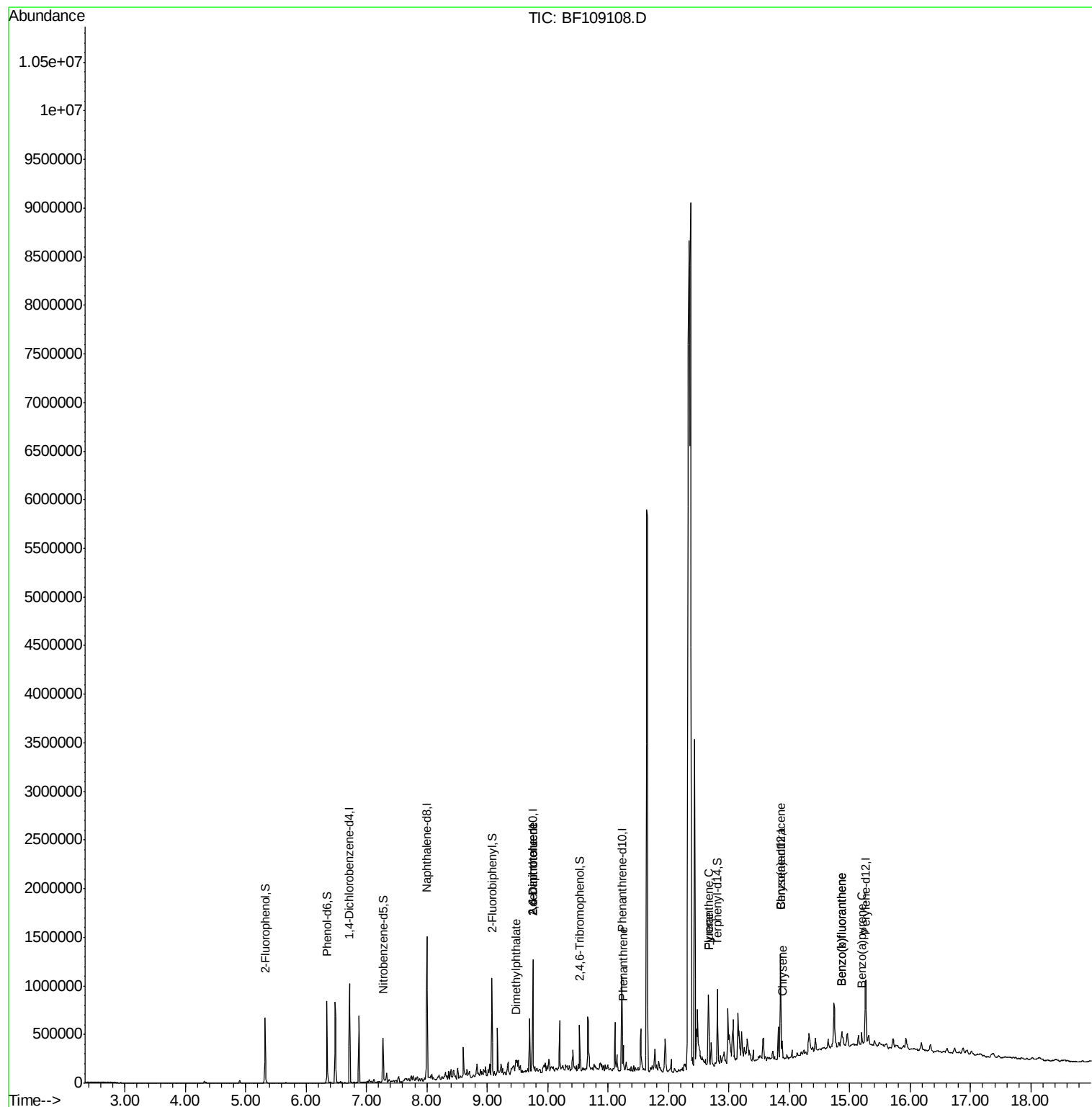
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.72  | 152  | 137994   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.00  | 136  | 499559   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.75  | 164  | 212932   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.23 | 188  | 350738   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 13.86 | 240  | 364987   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.27 | 264  | 319548   | 20.00 | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.32  | 112  | 191682   | 23.07 | ng    | 0.00     |
| 7) Phenol-d6                | 6.35  | 99   | 246252   | 22.99 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.28  | 82   | 146426   | 16.44 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.54 | 330  | 47099    | 20.38 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.08  | 172  | 270987   | 19.94 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.81 | 244  | 230752   | 14.99 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 49) Dimethylphthalate       | 9.47  | 163  | 37825    | 2.485 | ng    | # 97     |
| 50) 2,6-Dinitrotoluene      | 9.75  | 165  | 29325    | 8.689 | ng    | # 26     |
| 56) 2,4-Dinitrotoluene      | 9.75  | 165  | 29325    | 6.644 | ng    | # 24     |
| 70) Phenanthrene            | 11.25 | 178  | 87263    | 5.075 | ng    | 98       |
| 74) Fluoranthene            | 12.67 | 202  | 153757   | 8.471 | ng    | 98       |
| 77) Pyrene                  | 12.67 | 202  | 153779   | 5.672 | ng    | 97       |
| 80) Benzo(a)anthracene      | 13.85 | 228  | 78991    | 3.575 | ng    | 98       |
| 82) Chrysene                | 13.88 | 228  | 76451    | 3.458 | ng    | 95       |
| 87) Benzo(b)fluoranthene    | 14.87 | 252  | 112184   | 6.346 | ng    | # 91     |
| 88) Benzo(k)fluoranthene    | 14.87 | 252  | 112184   | 6.794 | ng    | # 94     |
| 89) Benzo(a)pyrene          | 15.20 | 252  | 55174    | 3.514 | ng    | # 90     |

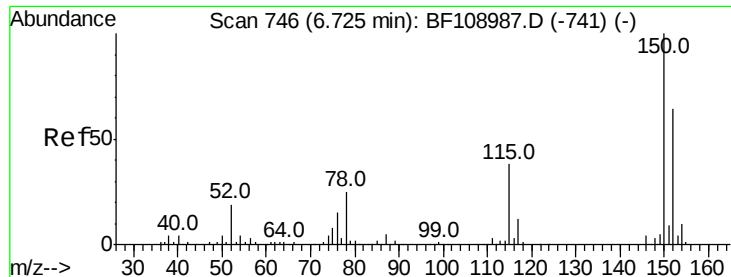
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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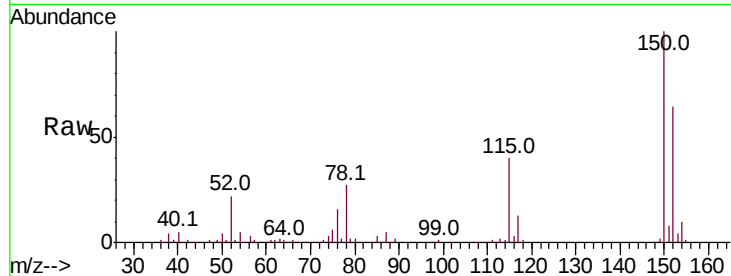


#1

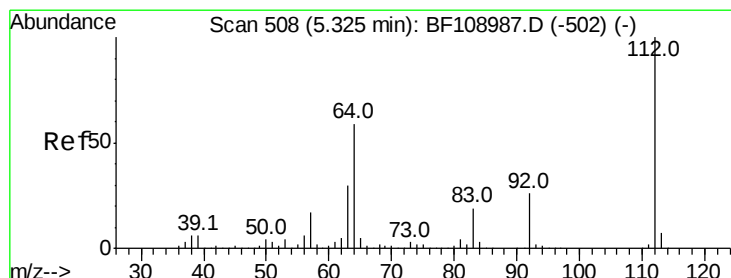
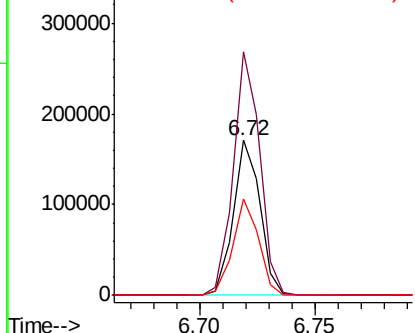
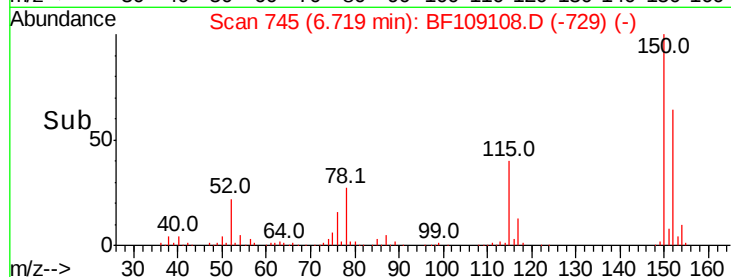
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 745  
Delta R.T. -0.01 min  
Lab File: BF109108.D  
Acq: 18 Sep 2018 20:56

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 137994  
Ion Ratio Lower Upper  
152 100  
150 156.9 124.6 186.8  
115 62.5 50.1 75.1



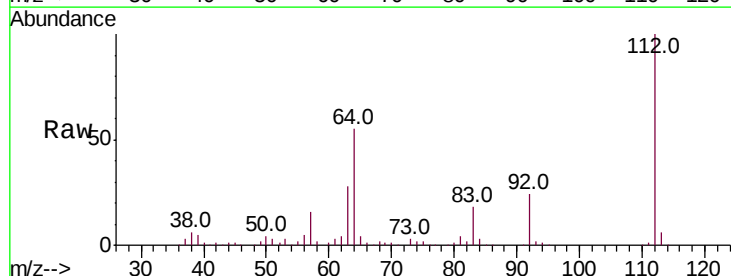
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



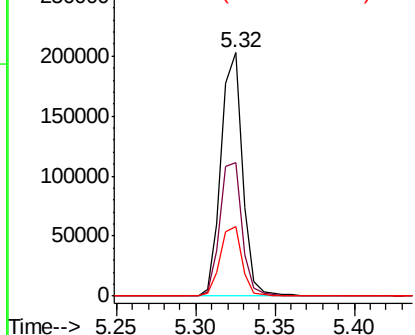
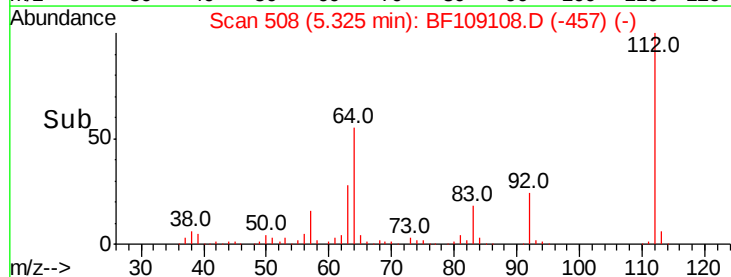
#5

2-Fluorophenol  
Concen: 23.071 ng  
RT: 5.32 min Scan# 508  
Delta R.T. 0.00 min  
Lab File: BF109108.D  
Acq: 18 Sep 2018 20:56

Tgt Ion:112 Resp: 191682  
Ion Ratio Lower Upper  
112 100  
64 55.0 47.9 71.9  
63 28.4 23.7 35.5



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: 22.985 ng

RT: 6.35 min Scan# 682

Delta R.T. -0.01 min

Lab File: BF109108.D

Acq: 18 Sep 2018 20:56

Instrument :

BNA\_F

ClientSampleId :

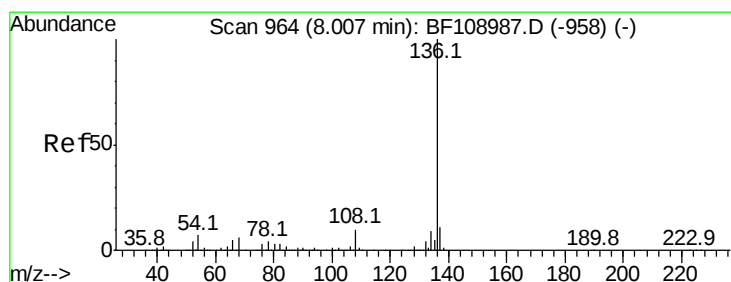
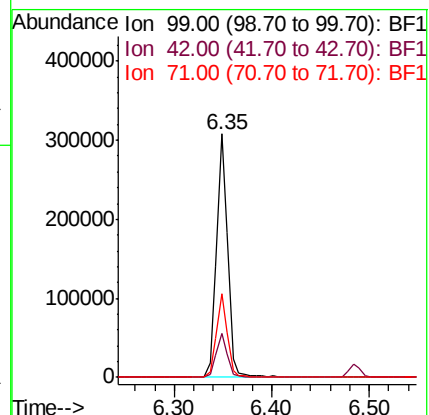
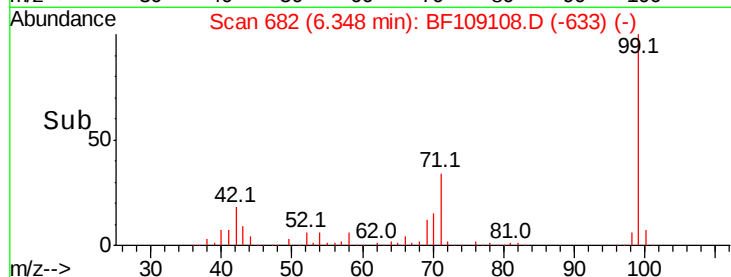
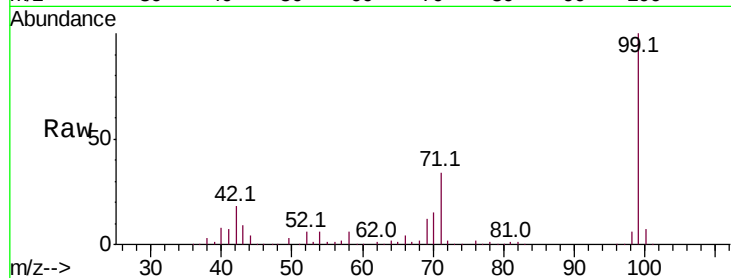
Tot Ion: 99 Resp: 246252

Ion Ratio Lower Upper

99 100

42 18.2 14.5 21.7

71 34.1 25.4 38.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 963

Delta R.T. -0.01 min

Lab File: BF109108.D

Acq: 18 Sep 2018 20:56

Tgt Ion: 136 Resp: 499559

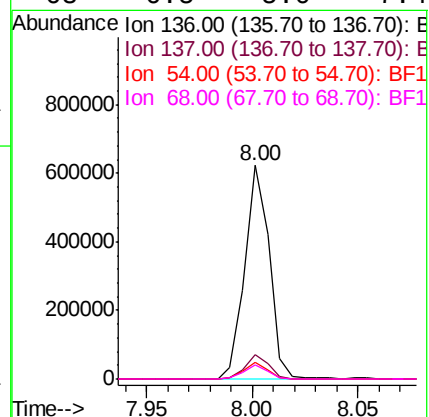
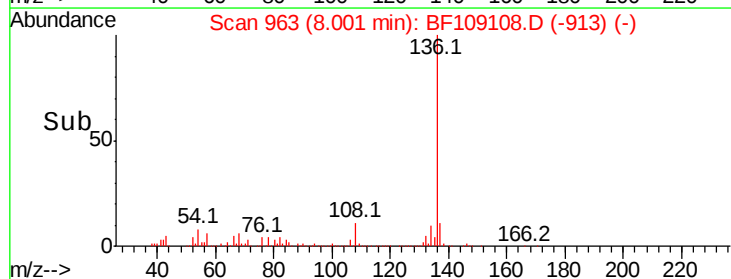
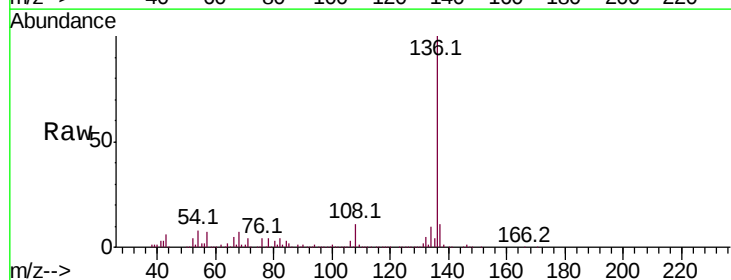
Ion Ratio Lower Upper

136 100

137 11.4 8.9 13.3

54 7.6 6.6 9.8

68 6.5 5.0 7.4

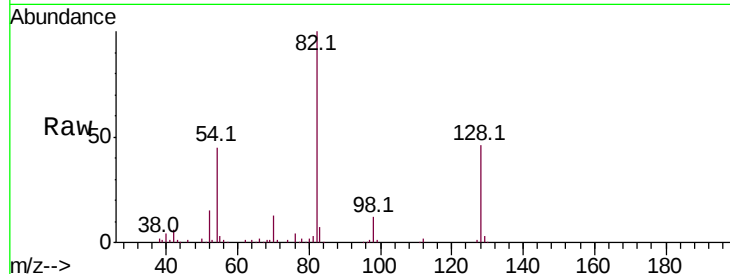




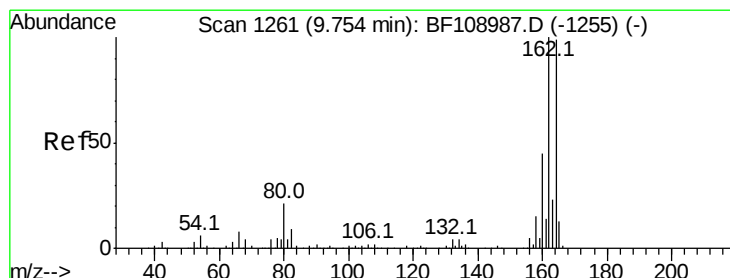
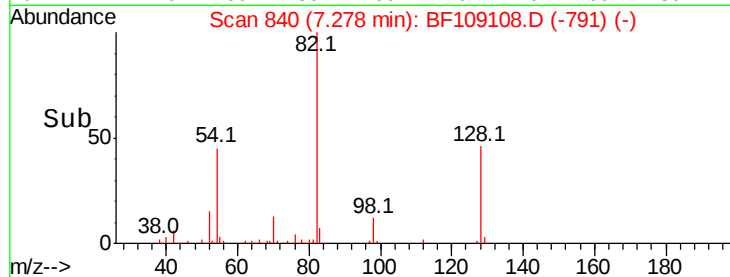
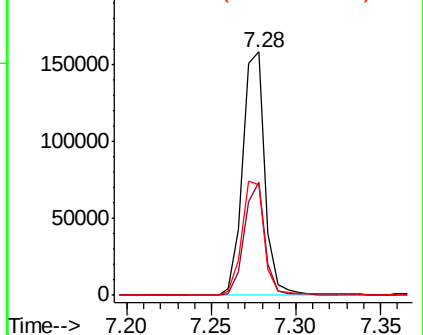
#23  
 Nitrobenzene-d5  
 Concen: 16.440 ng  
 RT: 7.28 min Scan# 840  
 Delta R.T. -0.01 min  
 Lab File: BF109108.D  
 Acq: 18 Sep 2018 20:56

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion: 82 Resp: 146426  
 Ion Ratio Lower Upper  
 82 100  
 128 46.2 36.1 54.1  
 54 45.4 41.4 62.2

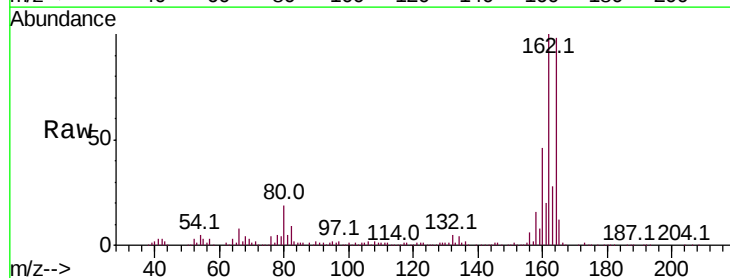


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

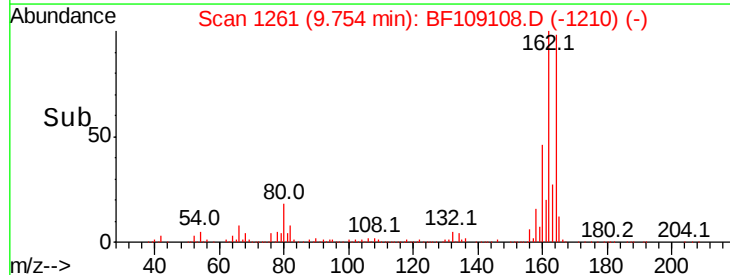
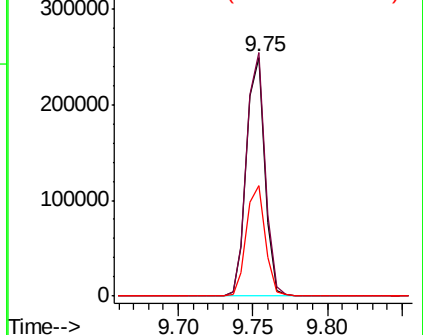


#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.75 min Scan# 1261  
 Delta R.T. 0.00 min  
 Lab File: BF109108.D  
 Acq: 18 Sep 2018 20:56

Tgt Ion: 164 Resp: 212932  
 Ion Ratio Lower Upper  
 164 100  
 162 102.0 86.1 129.1  
 160 46.4 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): BF1  
 Ion 162.00 (161.70 to 162.70): BF1  
 Ion 160.00 (159.70 to 160.70): BF1

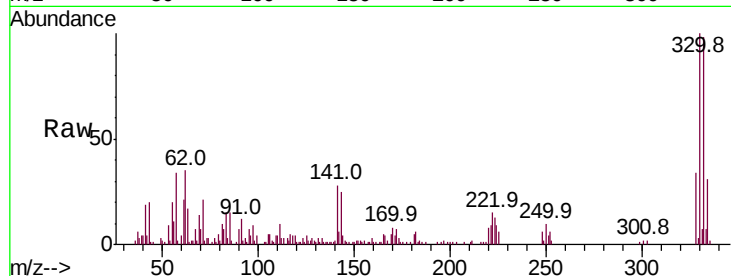




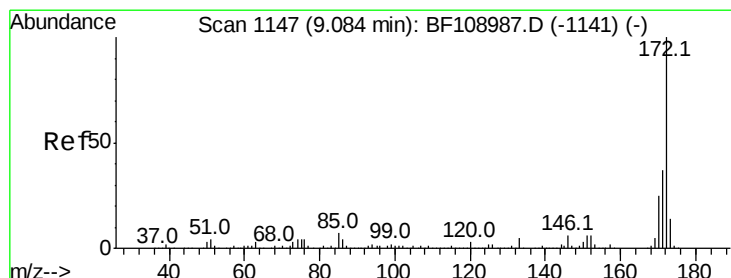
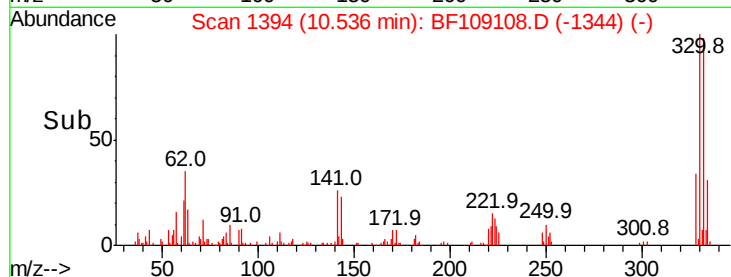
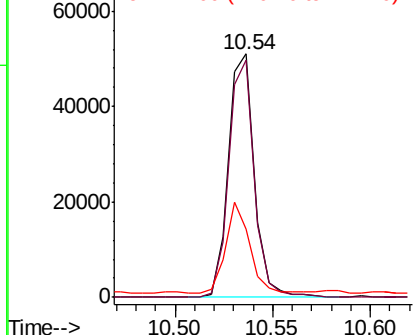
#41  
 2,4,6-Tribromophenol  
 Concen: 20.381 ng  
 RT: 10.54 min Scan# 1394  
 Delta R.T. -0.01 min  
 Lab File: BF109108.D  
 Acq: 18 Sep 2018 20:56

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.1  | 77.0  | 115.6 |
| 141     | 33.8  | 29.9  | 44.9  |

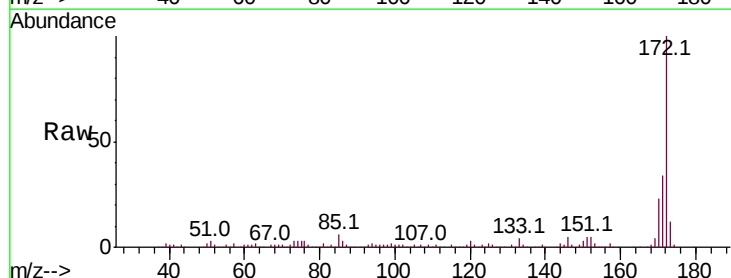


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

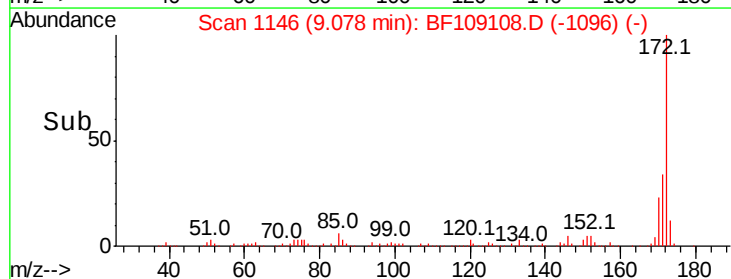
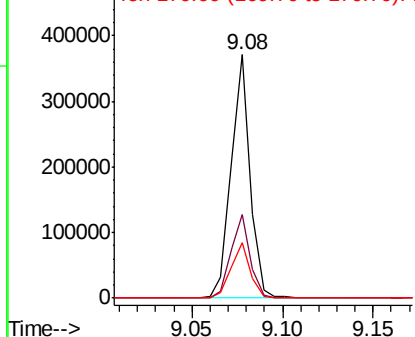


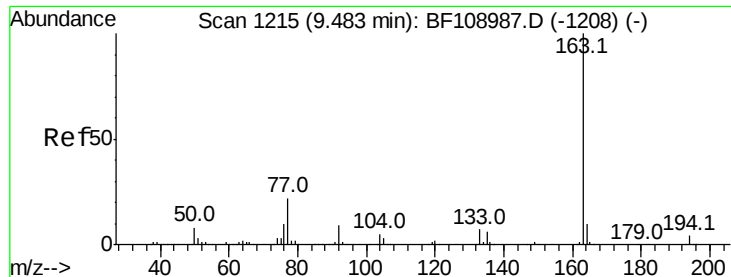
#44  
 2-Fluorobiphenyl  
 Concen: 19.939 ng  
 RT: 9.08 min Scan# 1146  
 Delta R.T. -0.01 min  
 Lab File: BF109108.D  
 Acq: 18 Sep 2018 20:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.4  | 29.7  | 44.5  |
| 170     | 22.7  | 19.6  | 29.4  |



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: 2.485 ng

RT: 9.47 min Scan# 1213

Delta R.T. -0.01 min

Lab File: BF109108.D

Acq: 18 Sep 2018 20:56

Instrument :

BNA\_F

ClientSampled :

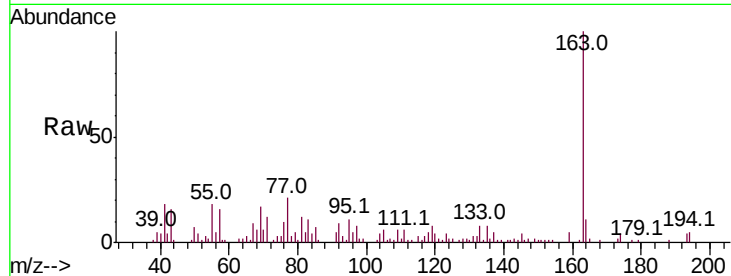
Tot Ion:163 Resp: 37825

Ion Ratio Lower Upper

163 100

194 5.2 2.7 4.1#

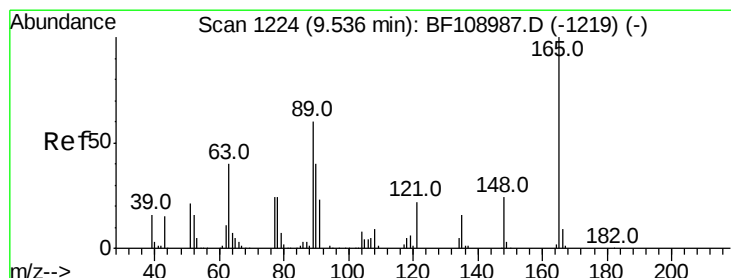
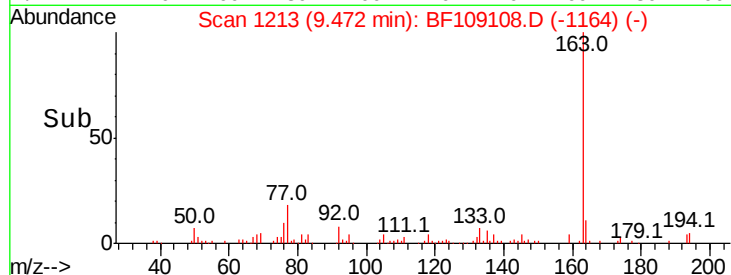
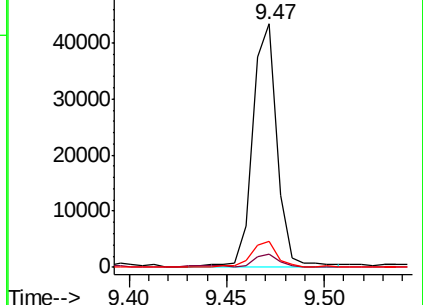
164 10.9 8.2 12.2



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



#50

2,6-Dinitrotoluene

Concen: 8.689 ng

RT: 9.75 min Scan# 1261

Delta R.T. 0.22 min

Lab File: BF109108.D

Acq: 18 Sep 2018 20:56

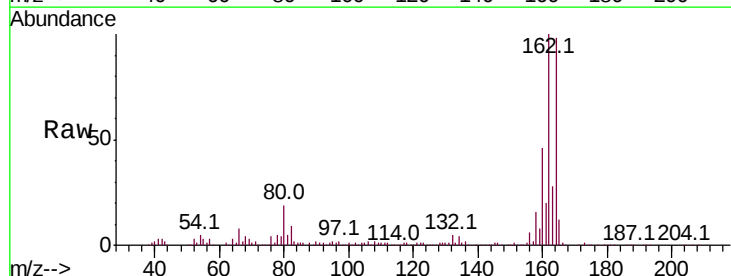
Tgt Ion:165 Resp: 29325

Ion Ratio Lower Upper

165 100

63 1.9 44.7 67.1#

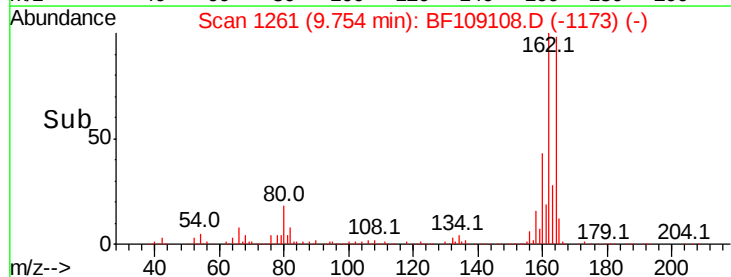
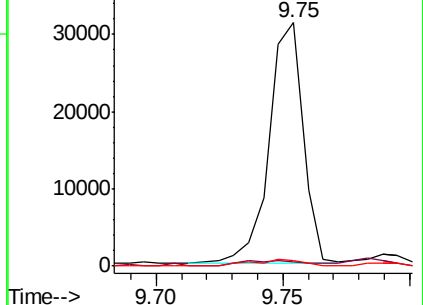
89 2.1 44.0 66.0#

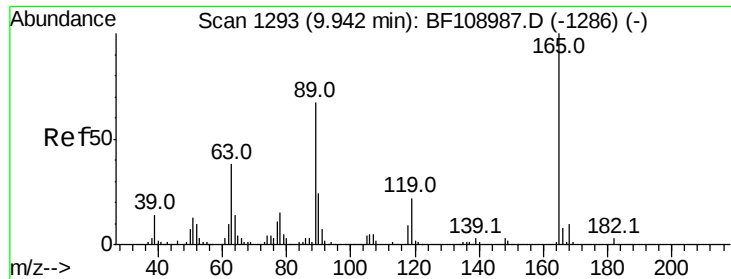


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

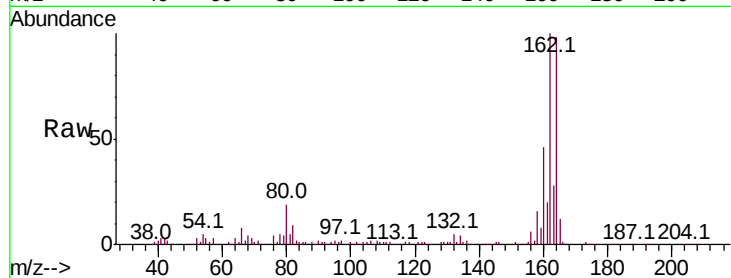




#56  
 2,4-Dinitrotoluene  
 Concen: 6.644 ng  
 RT: 9.75 min Scan# 1261  
 Delta R.T. -0.19 min  
 Lab File: BF109108.D  
 Acq: 18 Sep 2018 20:56

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.9   | 36.4  | 54.6# |
| 89      | 2.1   | 57.8  | 86.6# |
| 182     | 3.1   | 1.6   | 2.4#  |



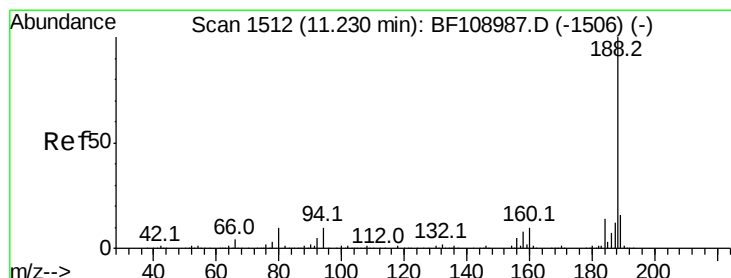
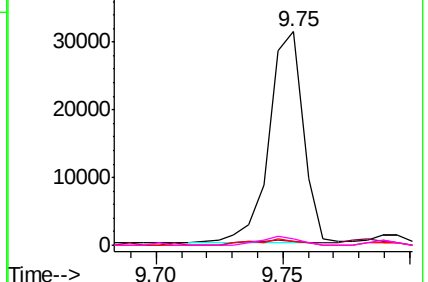
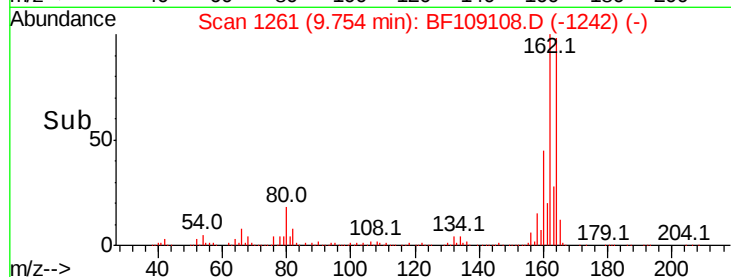
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

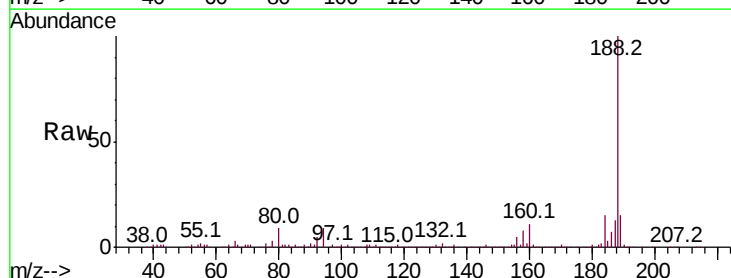
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.23 min Scan# 1512  
 Delta R.T. 0.00 min  
 Lab File: BF109108.D  
 Acq: 18 Sep 2018 20:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.7   | 8.5   | 12.7  |
| 80      | 9.0   | 9.2   | 13.8# |

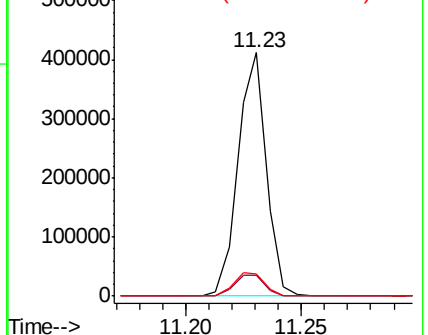
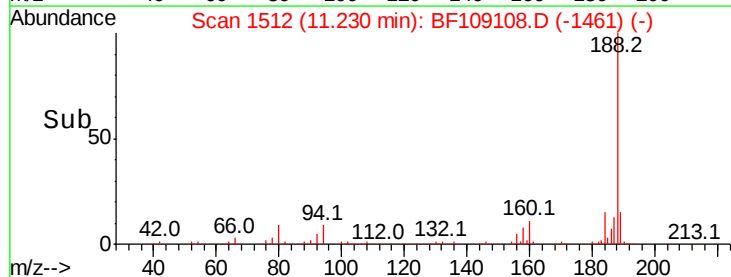


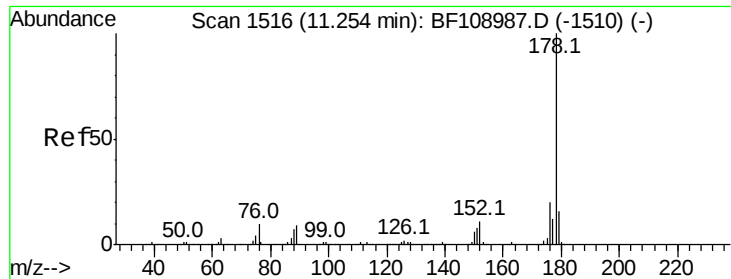
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#70

Phenanthrene

Concen: 5.075 ng

RT: 11.25 min Scan# 1516

Delta R.T. 0.00 min

Lab File: BF109108.D

Acq: 18 Sep 2018 20:56

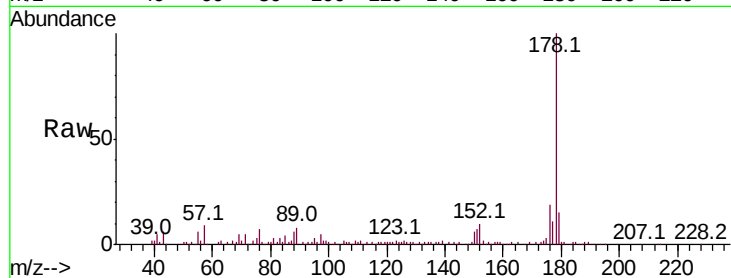
Instrument :

BNA\_F

ClientSampled :

Tot Ion:178 Resp: 87263

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.1  | 15.8  | 23.8  |
| 179 | 15.1  | 13.0  | 19.6  |

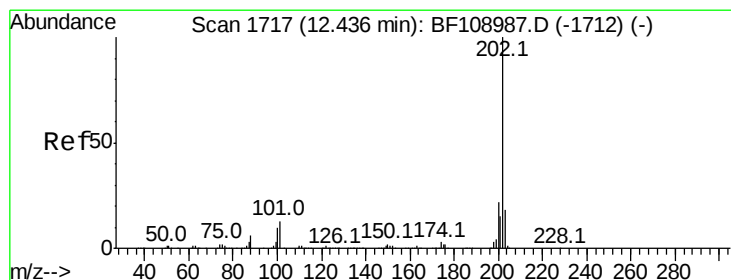
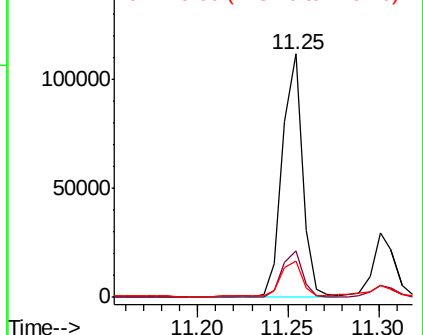
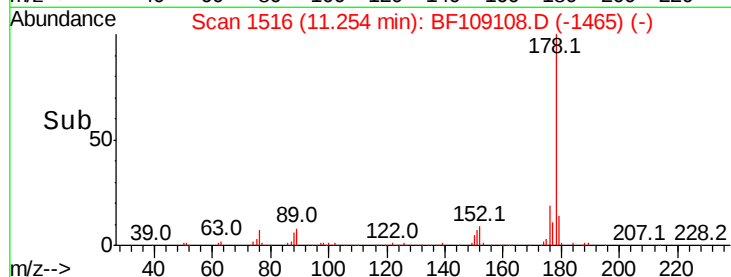


Abundance

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



#74

Fluoranthene

Concen: 8.471 ng

RT: 12.67 min Scan# 1756

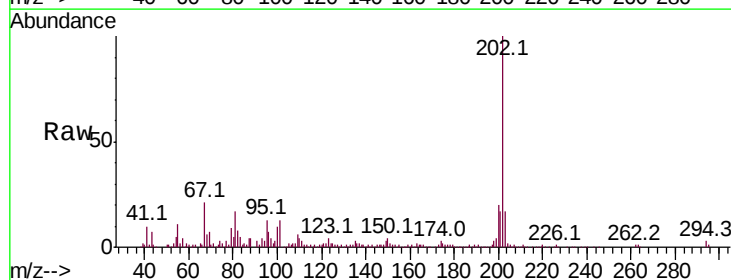
Delta R.T. 0.23 min

Lab File: BF109108.D

Acq: 18 Sep 2018 20:56

Tgt Ion:202 Resp: 153757

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 13.2  | 0.0   | 34.1  |
| 203 | 16.9  | 0.0   | 38.1  |

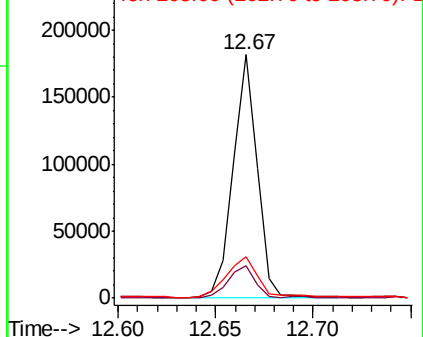
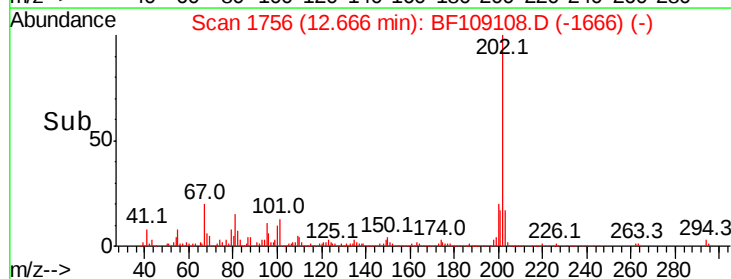


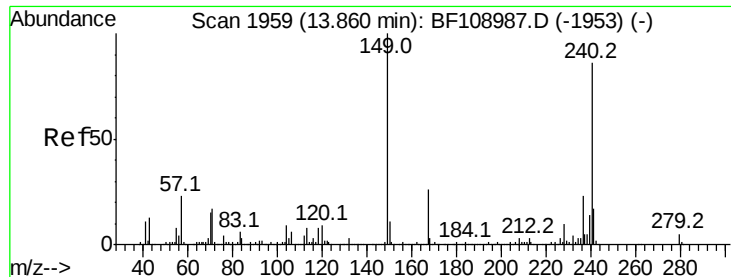
Abundance

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





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.86 min Scan# 1959

Delta R.T. 0.00 min

Lab File: BF109108.D

Acq: 18 Sep 2018 20:56

Instrument :

BNA\_F

ClientSampleId :

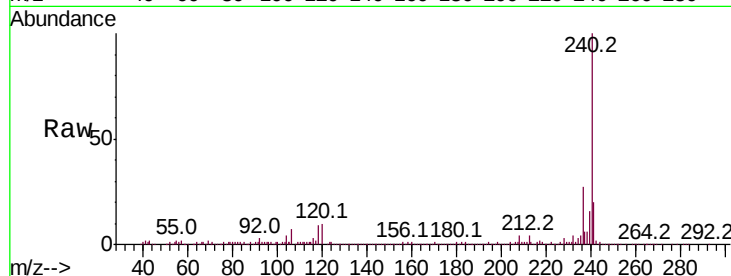
Tot Ion:240 Resp: 364987

Ion Ratio Lower Upper

240 100

120 9.7 9.5 14.3

236 27.2 20.7 31.1

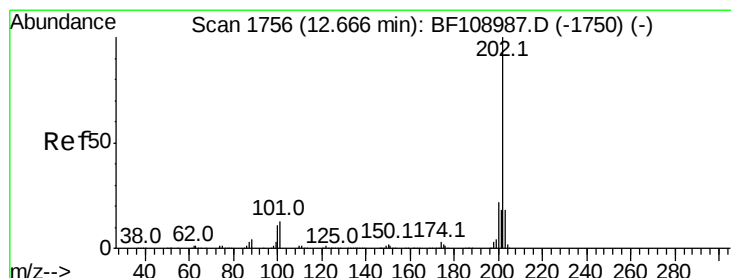
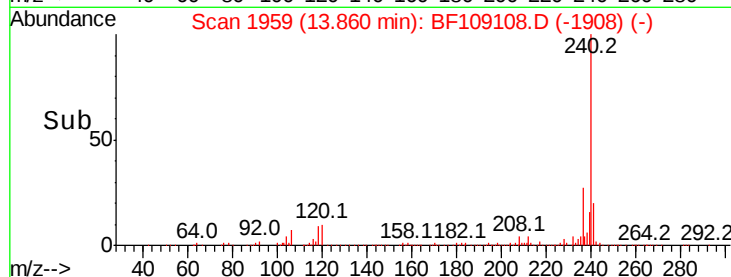
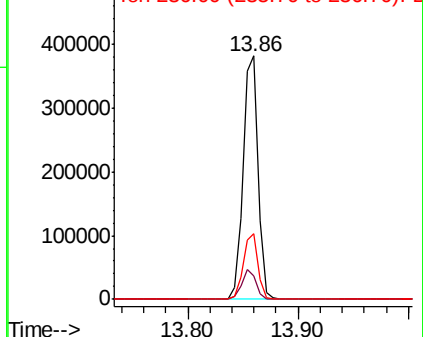


Abundance

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



#77

Pyrene

Concen: 5.672 ng

RT: 12.67 min Scan# 1756

Delta R.T. 0.00 min

Lab File: BF109108.D

Acq: 18 Sep 2018 20:56

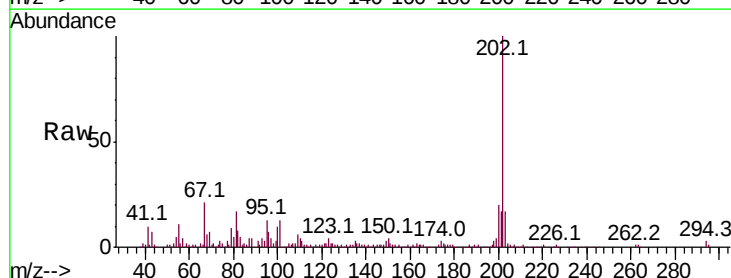
Tgt Ion:202 Resp: 153779

Ion Ratio Lower Upper

202 100

200 19.9 17.4 26.2

203 16.9 14.3 21.5

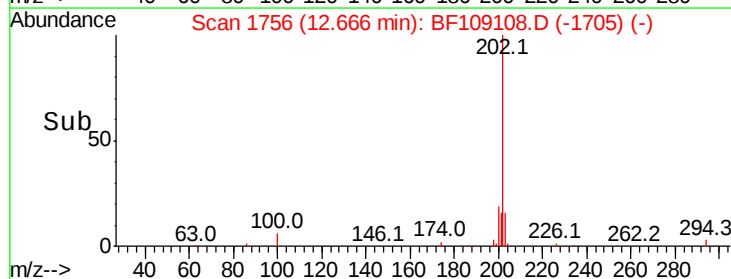
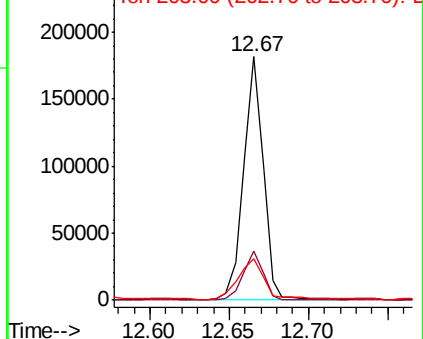


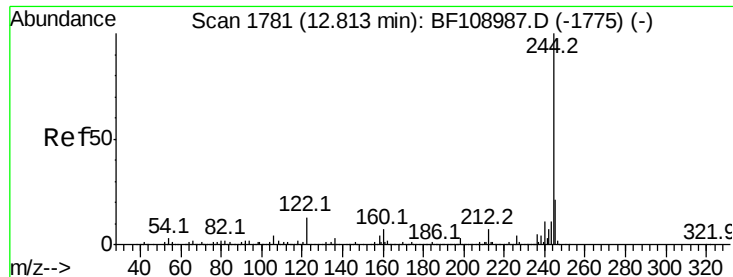
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

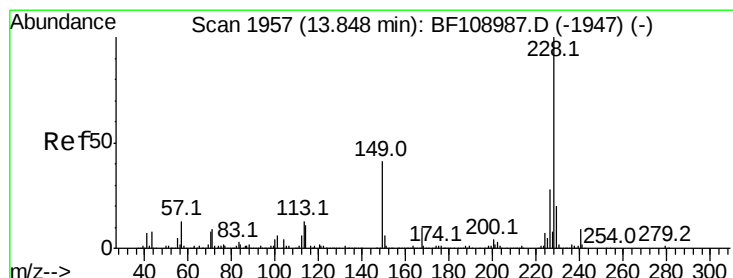
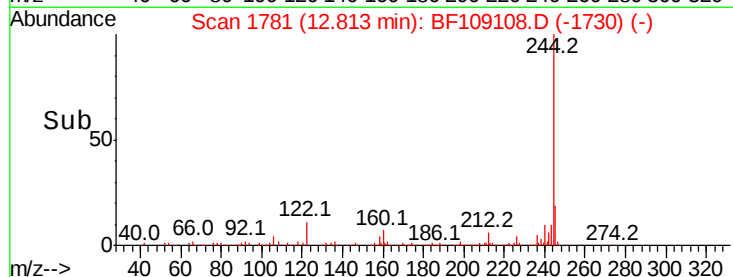
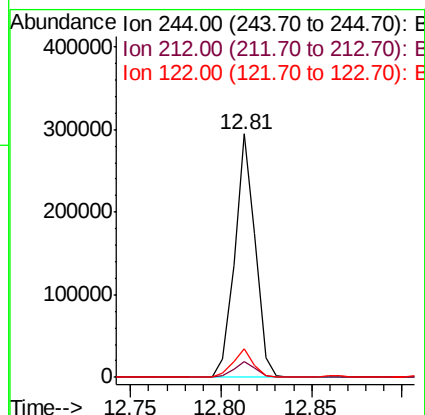
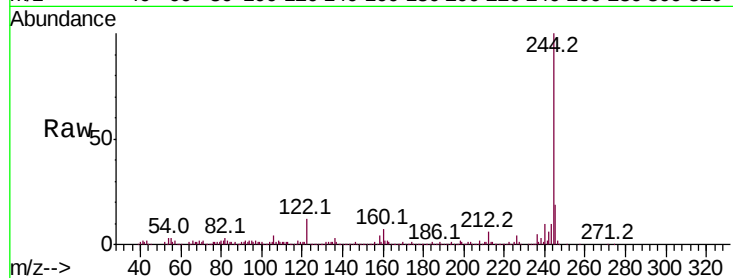




#78  
 Terphenyl-d14  
 Concen: 14.985 ng  
 RT: 12.81 min Scan# 1781  
 Delta R.T. 0.00 min  
 Lab File: BF109108.D  
 Acq: 18 Sep 2018 20:56

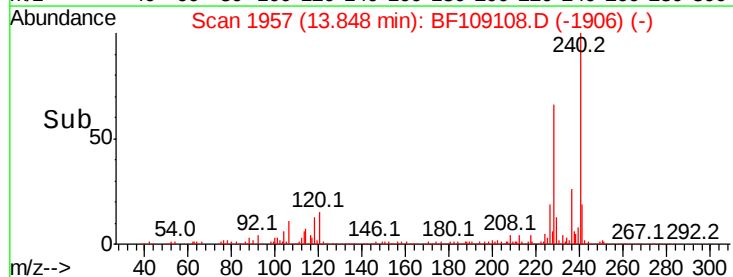
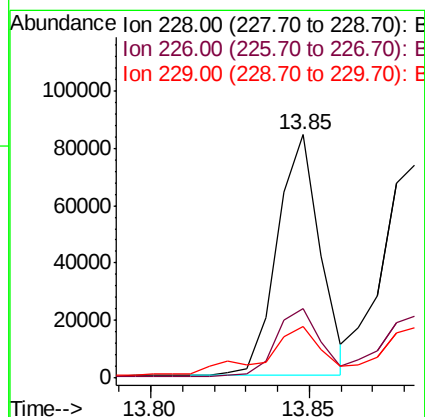
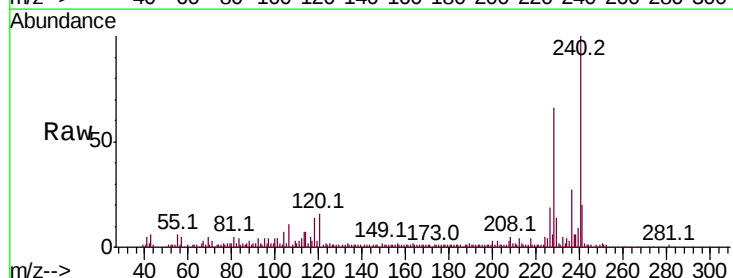
Instrument :  
 BNA\_F  
 ClientSampleId :

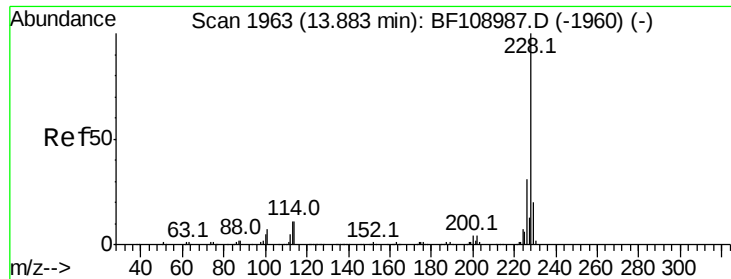
Tot Ion:244 Resp: 230752  
 Ion Ratio Lower Upper  
 244 100  
 212 6.4 5.4 8.0  
 122 11.6 11.0 16.4



#80  
 Benzo(a)anthracene  
 Concen: 3.575 ng  
 RT: 13.85 min Scan# 1957  
 Delta R.T. 0.00 min  
 Lab File: BF109108.D  
 Acq: 18 Sep 2018 20:56

Tgt Ion:228 Resp: 78991  
 Ion Ratio Lower Upper  
 228 100  
 226 28.7 22.6 33.8  
 229 21.1 15.8 23.6

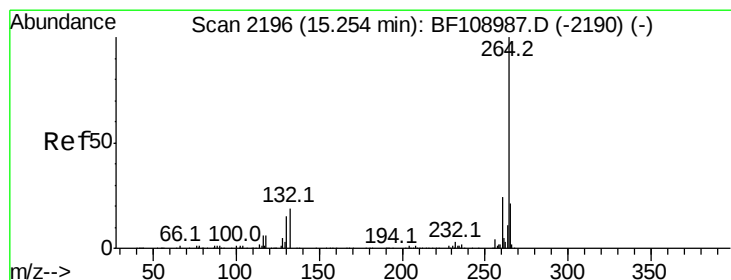
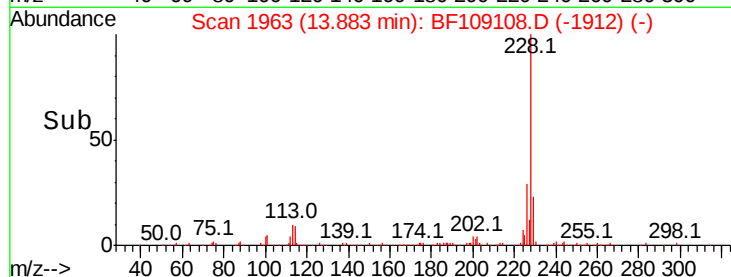
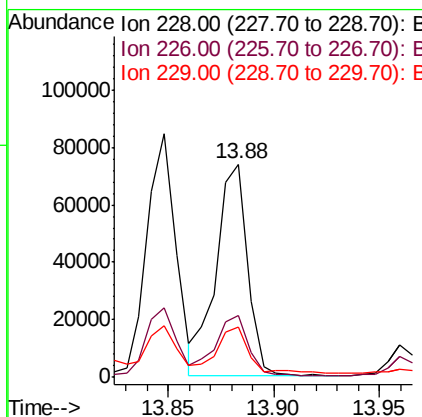
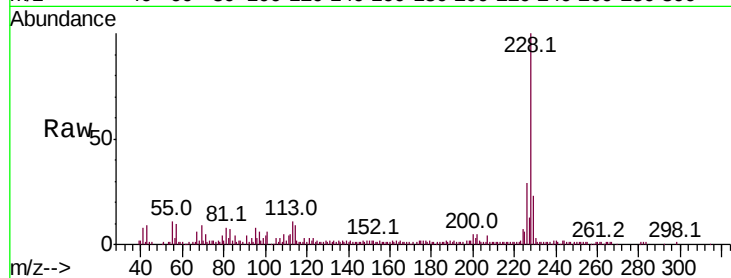




#82  
Chrysene  
Concen: 3.458 ng  
RT: 13.88 min Scan# 1963  
Delta R.T. 0.00 min  
Lab File: BF109108.D  
Acq: 18 Sep 2018 20:56

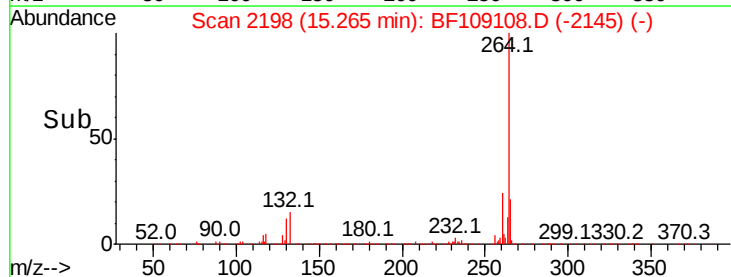
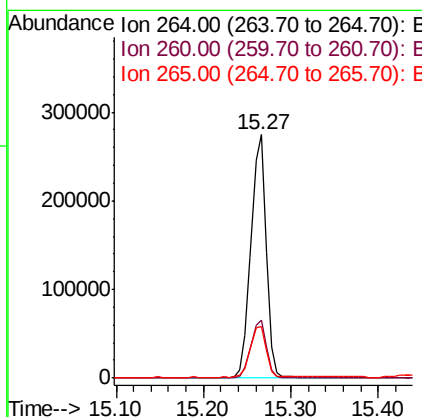
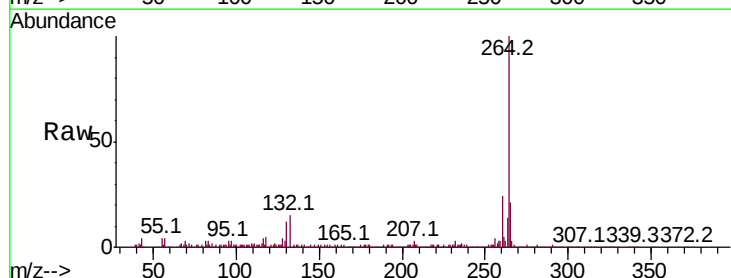
Instrument :  
BNA\_F  
ClientSampleId :

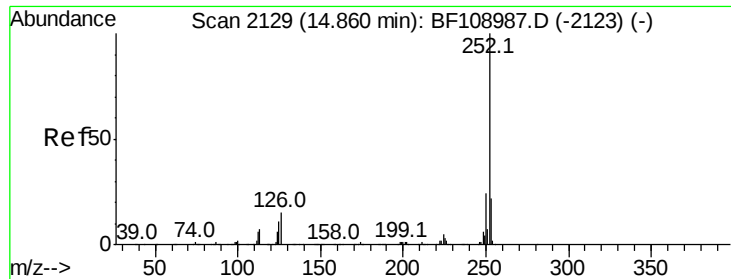
Tot Ion:228 Resp: 76451  
Ion Ratio Lower Upper  
228 100  
226 29.3 25.0 37.6  
229 23.5 16.2 24.4



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.27 min Scan# 2198  
Delta R.T. 0.01 min  
Lab File: BF109108.D  
Acq: 18 Sep 2018 20:56

Tgt Ion:264 Resp: 319548  
Ion Ratio Lower Upper  
264 100  
260 23.9 19.2 28.8  
265 21.4 17.5 26.3





#87

Benzo(b)fluoranthene

Concen: 6.346 ng

RT: 14.87 min Scan# 2130

Delta R.T. 0.01 min

Lab File: BF109108.D

Acq: 18 Sep 2018 20:56

Instrument :

BNA\_F

ClientSampleId :

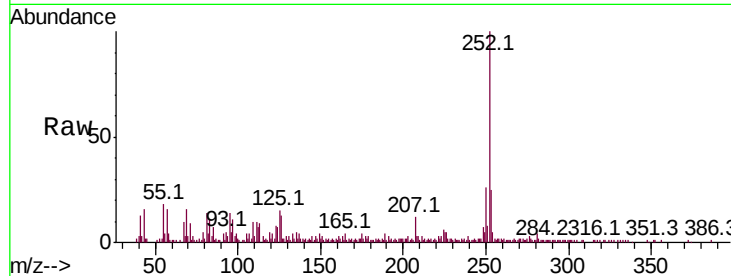
Tot Ion:252 Resp: 112184

Ion Ratio Lower Upper

252 100

253 24.9 17.0 25.6

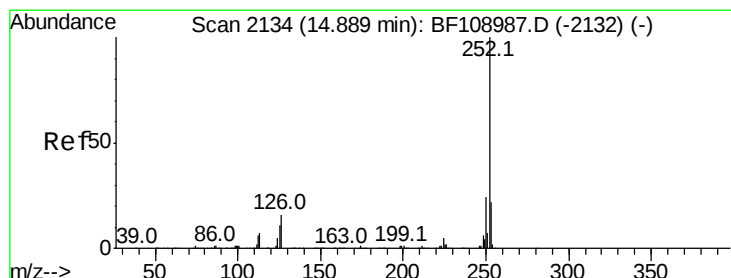
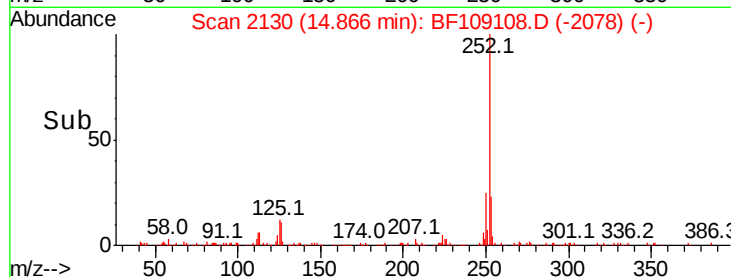
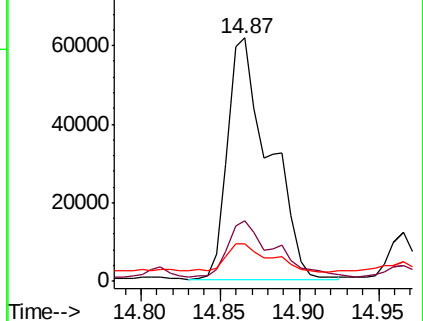
125 15.3 9.0 13.6#



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



#88

Benzo(k)fluoranthene

Concen: 6.794 ng

RT: 14.87 min Scan# 2130

Delta R.T. -0.02 min

Lab File: BF109108.D

Acq: 18 Sep 2018 20:56

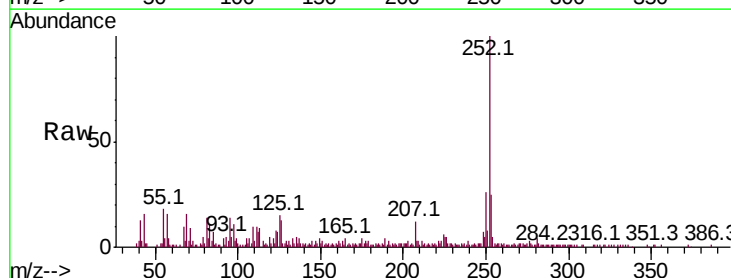
Tgt Ion:252 Resp: 112184

Ion Ratio Lower Upper

252 100

253 24.9 17.9 26.9

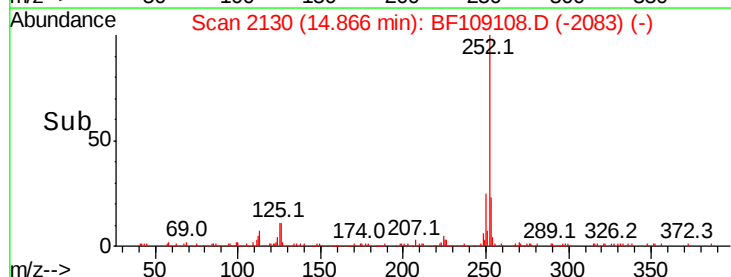
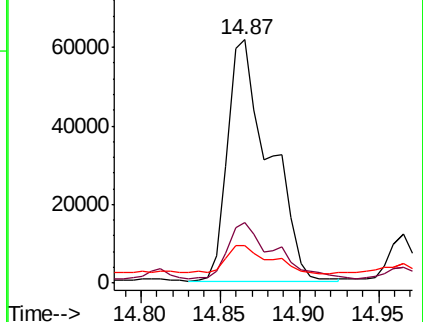
125 15.3 10.2 15.2#

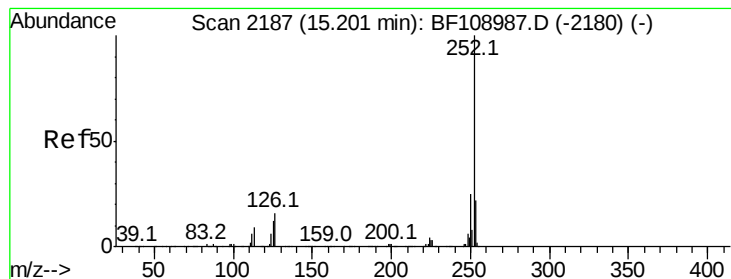


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

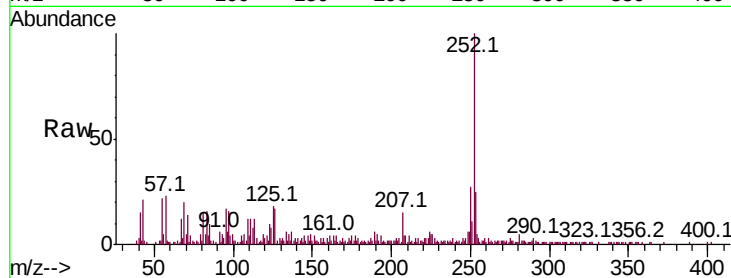




#89  
 Benzo(a)pyrene  
 Concen: 3.514 ng  
 RT: 15.20 min Scan# 2187  
 Delta R.T. 0.00 min  
 Lab File: BF109108.D  
 Acq: 18 Sep 2018 20:56

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 17.1  | 25.7  |
| 125     | 18.1  | 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

