

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF081018\  
 Data File : BF108095.D  
 Acq On : 10 Aug 2018 20:23  
 Operator : JU/SJ  
 Sample : J4272-13 2X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-03-080918-G

Quant Time: Aug 10 23:13:32 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF080818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 08 12:24:24 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.02  | 152  | 293910   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.30  | 136  | 1063231  | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.07 | 164  | 468870   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.57 | 188  | 763997   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.22 | 240  | 630561   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.79 | 264  | 436482   | 20.00 | ng    | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.64  | 112  | 804902   | 49.58 | ng    | 0.00     |
| 7) Phenol-d6                | 6.63  | 99   | 1080696  | 50.10 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.58  | 82   | 673123   | 35.33 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.86 | 330  | 212033   | 45.34 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.38  | 172  | 1211781  | 41.49 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.15 | 244  | 1020901  | 41.17 | ng    | 0.00     |

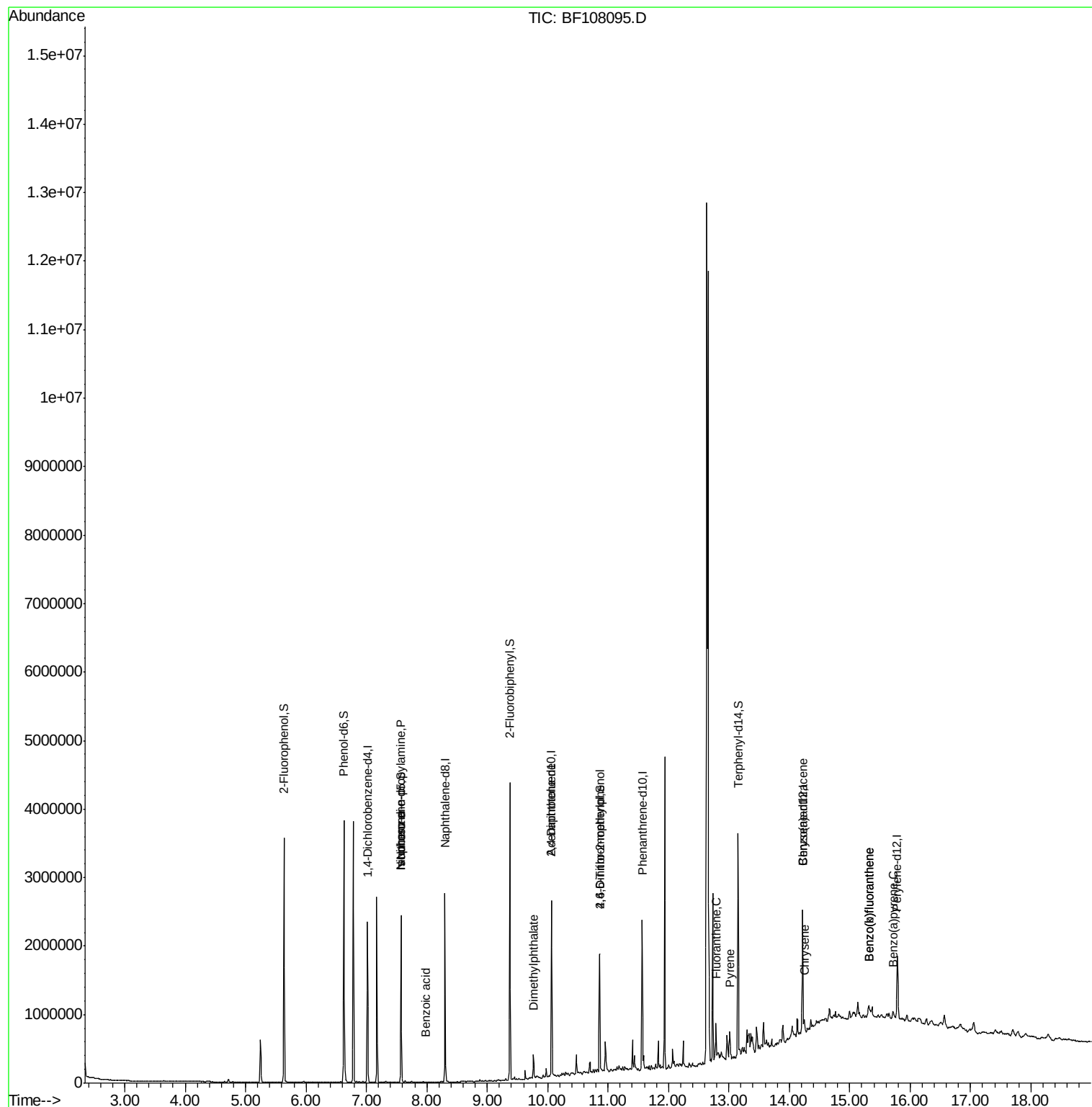
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.58  | 70   | 94304    | 6.464  | ng    | # 83   |
| 25) Isophorone                 | 7.58  | 82   | 673113   | 18.534 | ng    | # 64   |
| 32) Benzoic acid               | 7.98  | 122  | 253      | 5.998  | ng    | # 39   |
| 49) Dimethylphthalate          | 9.77  | 163  | 96458    | 2.953  | ng    | 99     |
| 56) 2,4-Dinitrotoluene         | 10.07 | 165  | 61553    | 6.998  | ng    | # 23   |
| 64) 4,6-Dinitro-2-methylphenol | 10.86 | 198  | 529      | 5.522  | ng    | # 1    |
| 74) Fluoranthene               | 12.78 | 202  | 146189   | 3.717  | ng    | 96     |
| 77) Pyrene                     | 13.02 | 202  | 139918   | 3.505  | ng    | 99     |
| 80) Benzo(a)anthracene         | 14.21 | 228  | 78940    | 2.181  | ng    | 93     |
| 82) Chrysene                   | 14.25 | 228  | 73783    | 2.224  | ng    | 98     |
| 87) Benzo(b)fluoranthene       | 15.32 | 252  | 98863    | 3.791  | ng    | # 81   |
| 88) Benzo(k)fluoranthene       | 15.32 | 252  | 98863    | 4.124  | ng    | # 84   |
| 89) Benzo(a)pyrene             | 15.72 | 252  | 50408    | 2.158  | ng    | # 78   |

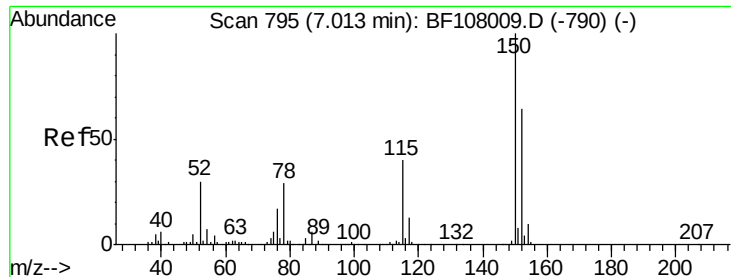
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF081018\  
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Sample : J4272-13 2X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-080918-G

Quant Time: Aug 10 23:13:32 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF080818.M  
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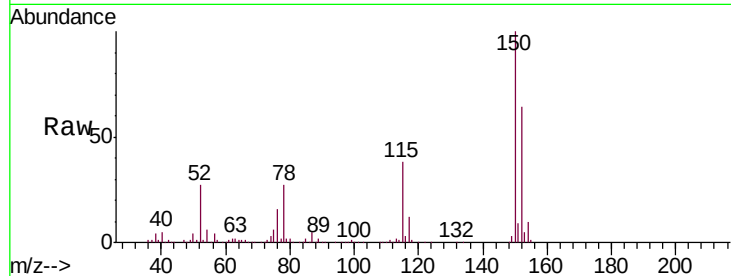


#1

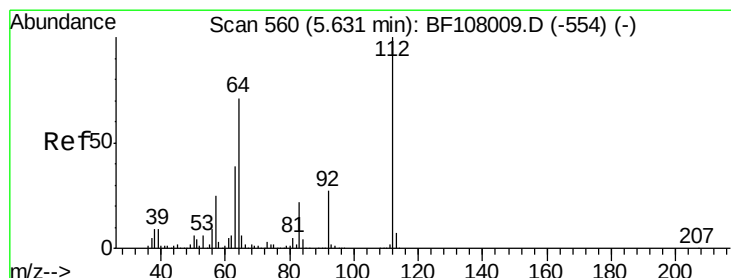
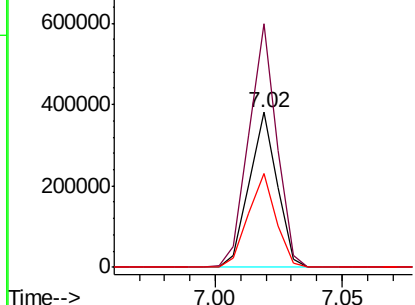
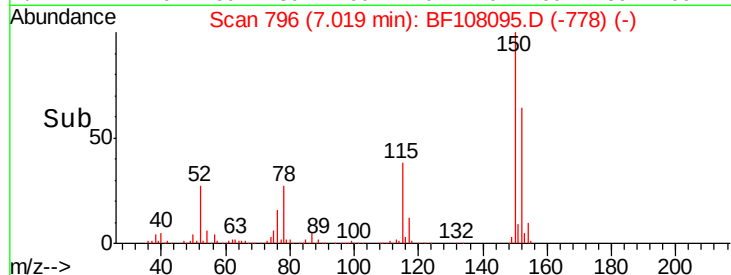
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.02 min Scan# 796  
Delta R.T. 0.01 min  
Lab File: BF108095.D  
Acq: 10 Aug 2018 20:23

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-080918-G

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.2 | 124.6 | 186.8 |
| 115     | 60.4  | 50.1  | 75.1  |



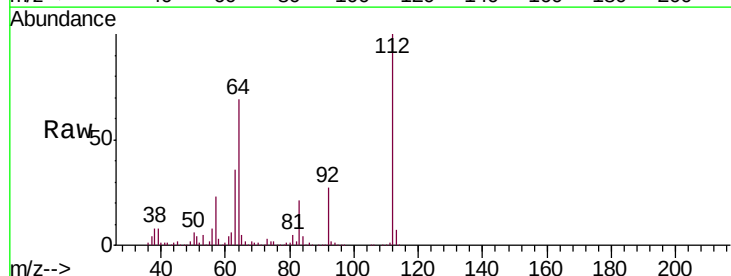
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



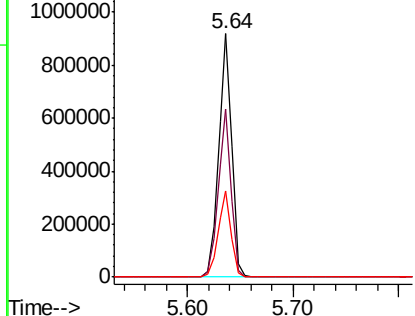
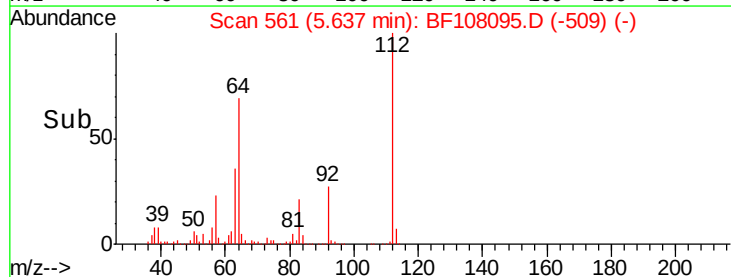
#5

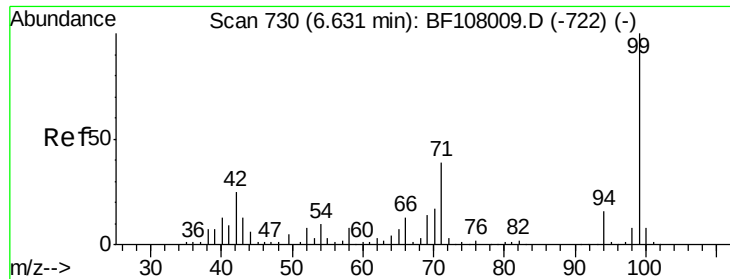
2-Fluorophenol  
Concen: 49.581 ng  
RT: 5.64 min Scan# 561  
Delta R.T. 0.01 min  
Lab File: BF108095.D  
Acq: 10 Aug 2018 20:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 69.0  | 47.9  | 71.9  |
| 63      | 35.6  | 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: 50.095 ng

RT: 6.63 min Scan# 730

Delta R.T. 0.00 min

Lab File: BF108095.D

Acq: 10 Aug 2018 20:23

Instrument :

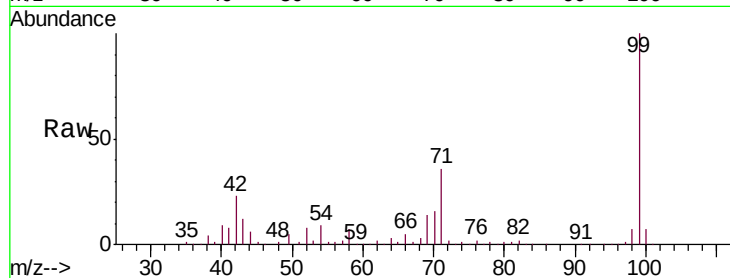
BNA\_F

ClientSampleId :

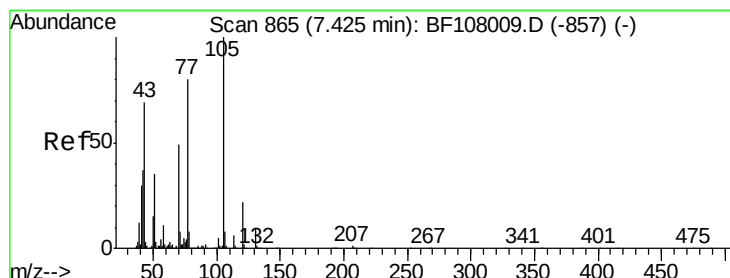
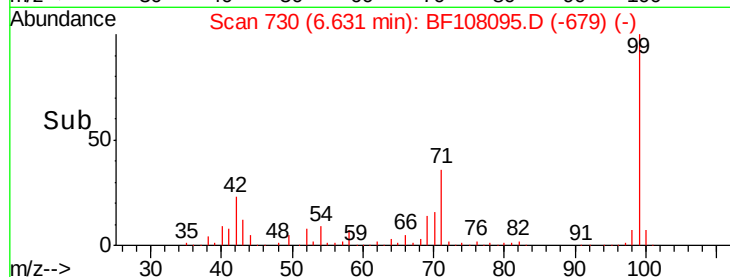
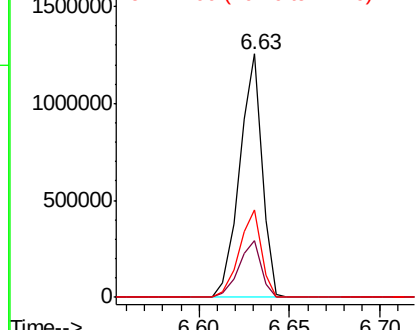
JC-03-080918-G

Tgt Ion: 99 Resp: 1080696

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 23.1  | 14.5  | 21.7# |
| 71  | 36.0  | 25.4  | 38.0  |



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



#19

n-Nitroso-di-n-propylamine

Concen: 6.464 ng

RT: 7.58 min Scan# 891

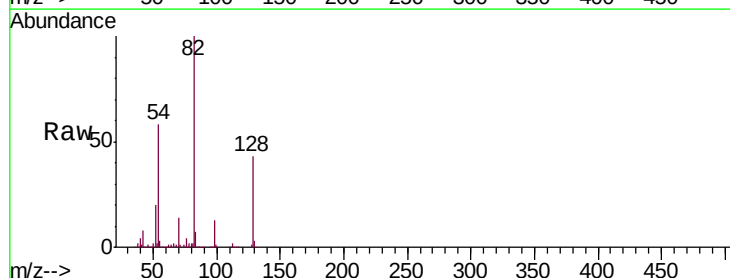
Delta R.T. 0.15 min

Lab File: BF108095.D

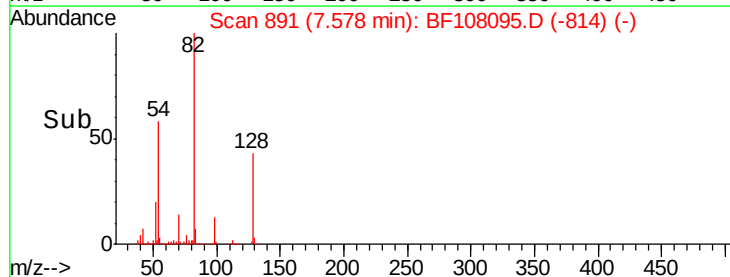
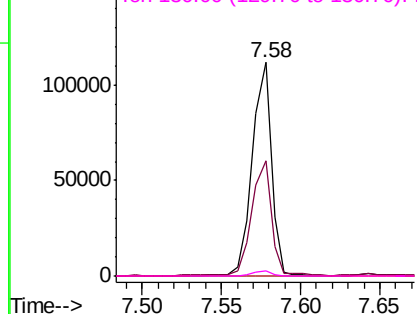
Acq: 10 Aug 2018 20:23

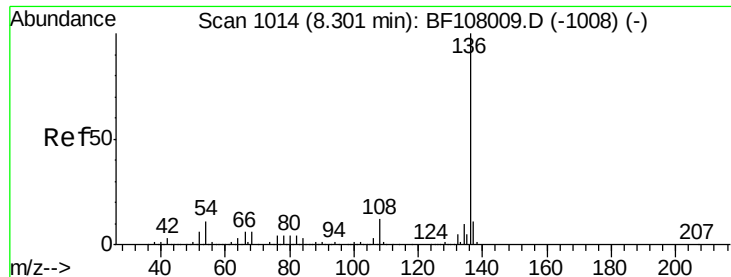
Tgt Ion: 70 Resp: 94304

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 53.8  | 47.5  | 71.3  |
| 101 | 0.0   | 7.4   | 11.2# |
| 130 | 2.2   | 16.6  | 25.0# |



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): BF1  
Ion 130.00 (129.70 to 130.70): BF1

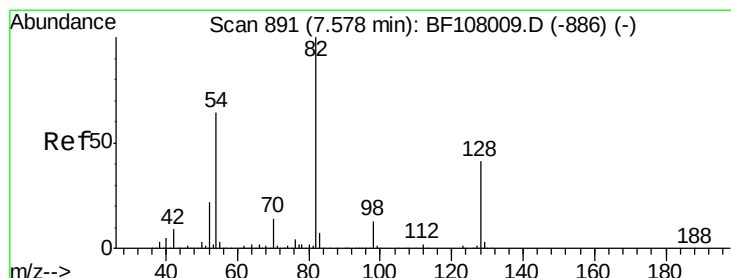
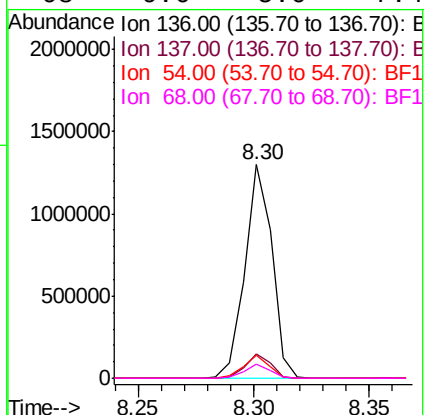
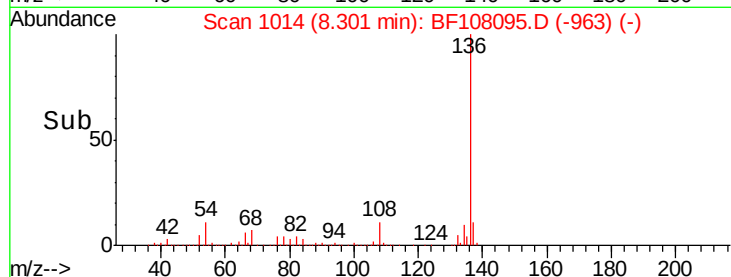
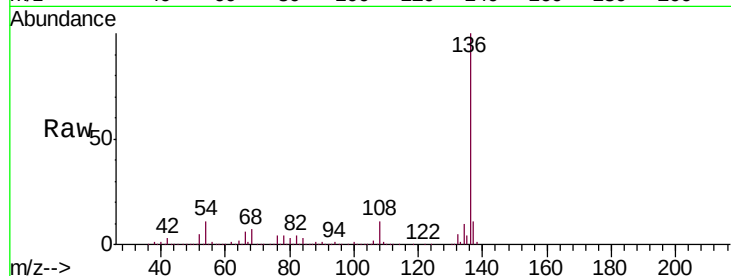




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.30 min Scan# 1014  
Delta R.T. 0.00 min  
Lab File: BF108095.D  
Acq: 10 Aug 2018 20:23

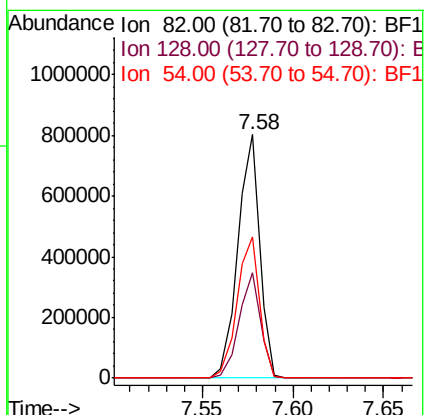
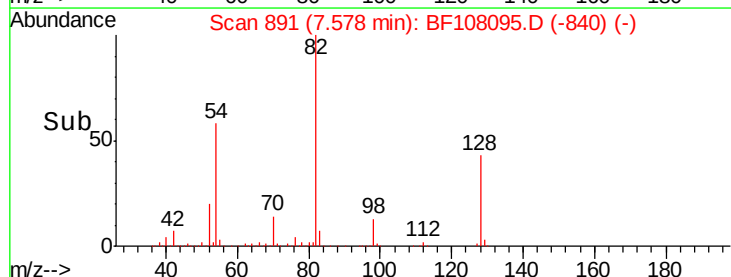
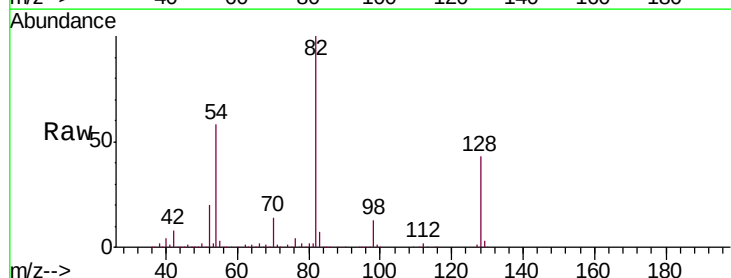
Instrument :  
BNA\_F  
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JC-03-080918-G

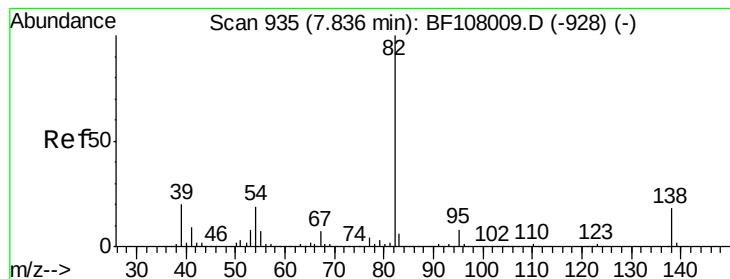
|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 136   | Resp: | 1063231 |
| Ion      | Ratio | Lower | Upper   |
| 136      | 100   |       |         |
| 137      | 11.1  | 8.9   | 13.3    |
| 54       | 10.7  | 6.6   | 9.8#    |
| 68       | 6.6   | 5.0   | 7.4     |



#23  
Nitrobenzene-d5  
Concen: 35.327 ng  
RT: 7.58 min Scan# 891  
Delta R.T. 0.00 min  
Lab File: BF108095.D  
Acq: 10 Aug 2018 20:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 673123 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.2  | 36.1  | 54.1   |
| 54       | 57.9  | 41.4  | 62.2   |





#25

Isophorone

Concen: 18.534 ng

RT: 7.58 min Scan# 891

Delta R.T. -0.26 min

Lab File: BF108095.D

Acq: 10 Aug 2018 20:23

Instrument :

BNA\_F

ClientSampleId :

JC-03-080918-G

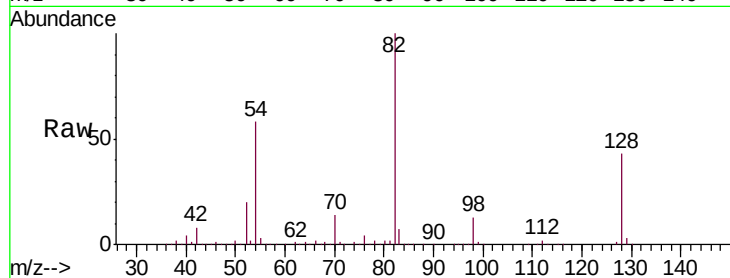
Tgt Ion: 82 Resp: 673113

Ion Ratio Lower Upper

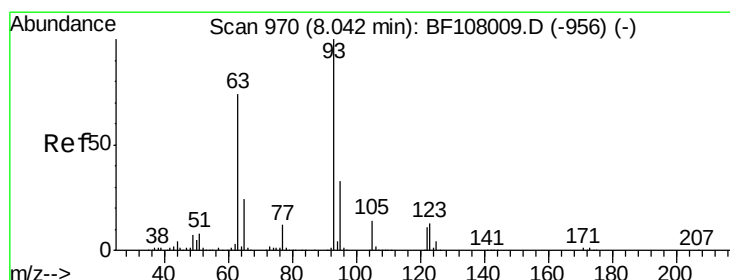
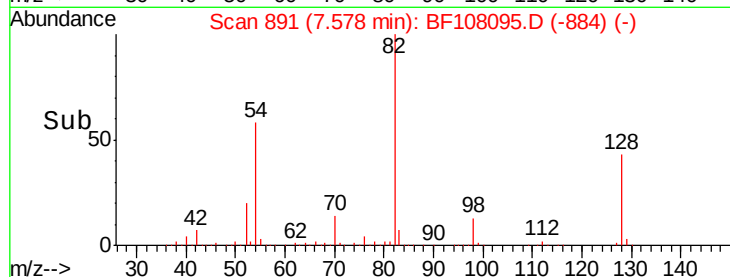
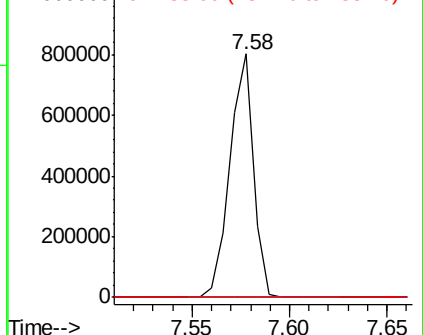
82 100

95 0.1 5.2 7.8#

138 0.0 14.9 22.3#



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



#32

Benzoic acid

Concen: 5.998 ng

RT: 7.98 min Scan# 959

Delta R.T. -0.06 min

Lab File: BF108095.D

Acq: 10 Aug 2018 20:23

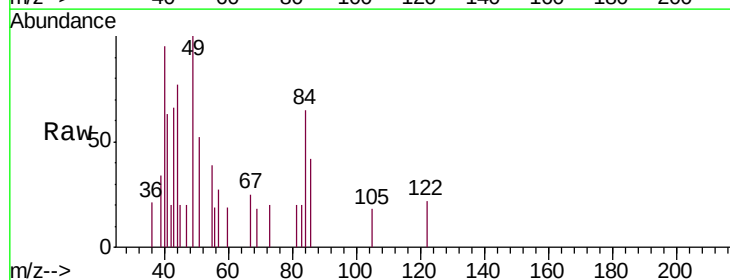
Tgt Ion: 122 Resp: 253

Ion Ratio Lower Upper

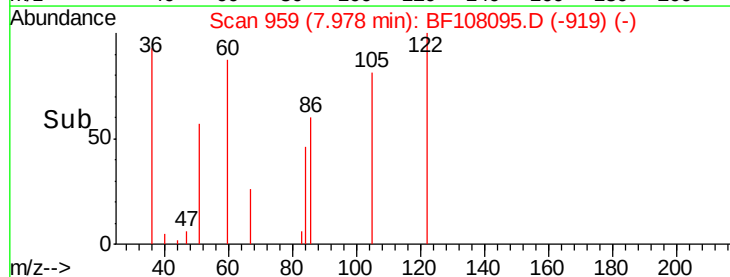
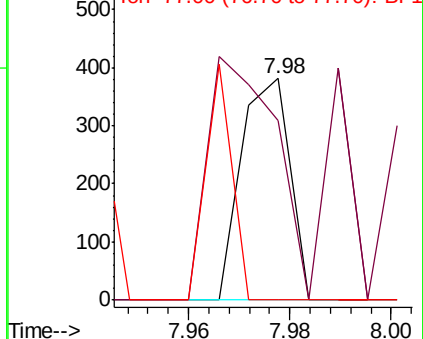
122 100

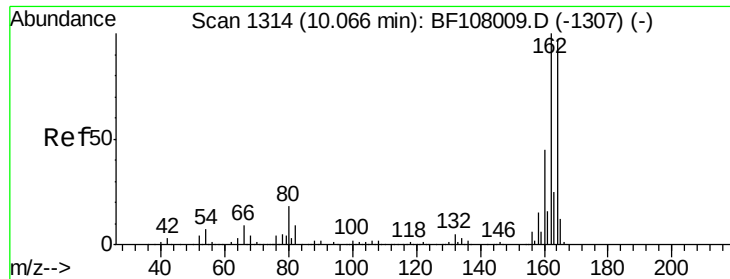
105 81.4 101.1 141.1#

77 0.0 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): BF1  
Ion 105.00 (104.70 to 105.70): BF1  
Ion 77.00 (76.70 to 77.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.07 min Scan# 1314

Delta R.T. 0.00 min

Lab File: BF108095.D

Acq: 10 Aug 2018 20:23

Instrument :

BNA\_F

ClientSampleId :

JC-03-080918-G

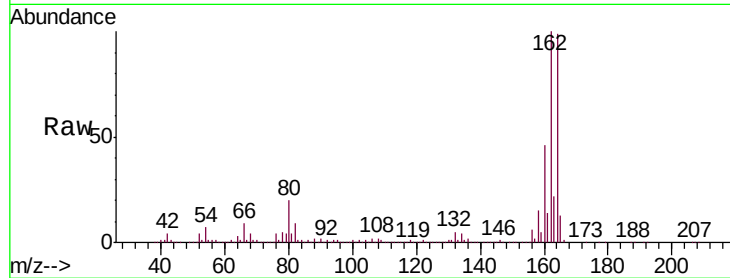
Tgt Ion:164 Resp: 468870

Ion Ratio Lower Upper

164 100

162 101.1 86.1 129.1

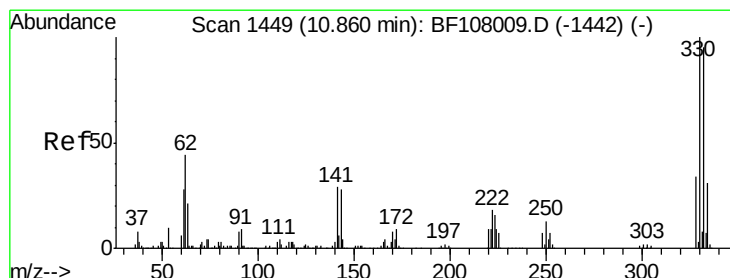
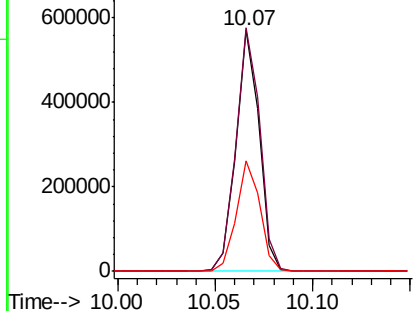
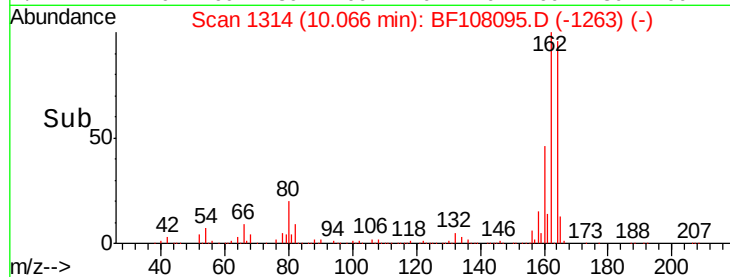
160 46.1 38.3 57.5



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: 45.337 ng

RT: 10.86 min Scan# 1449

Delta R.T. 0.00 min

Lab File: BF108095.D

Acq: 10 Aug 2018 20:23

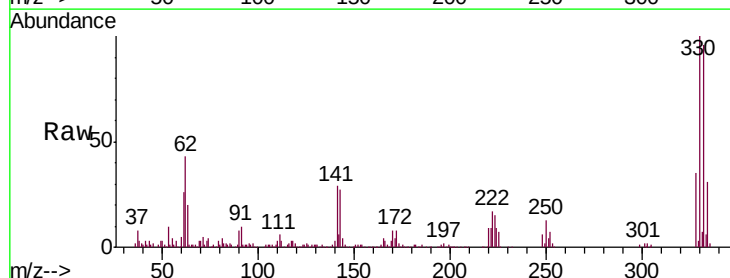
Tgt Ion:330 Resp: 212033

Ion Ratio Lower Upper

330 100

332 95.3 77.0 115.6

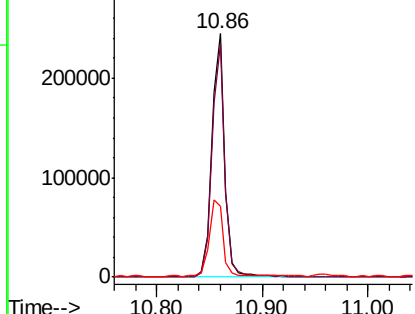
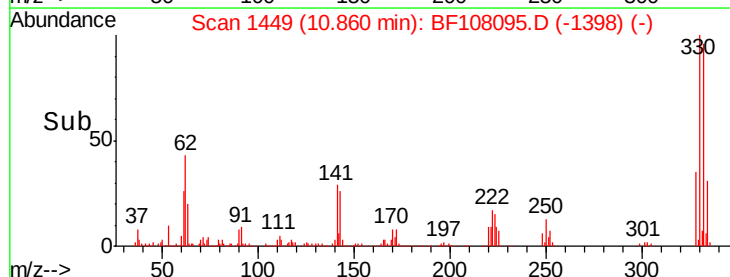
141 33.0 29.9 44.9

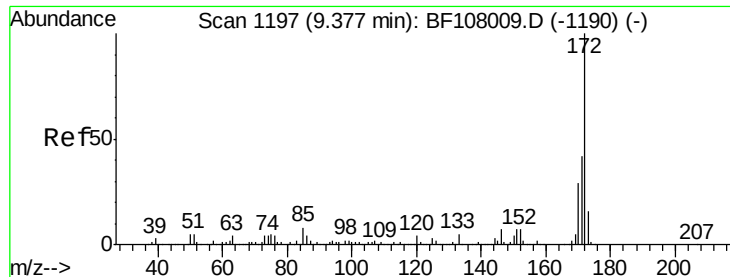


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

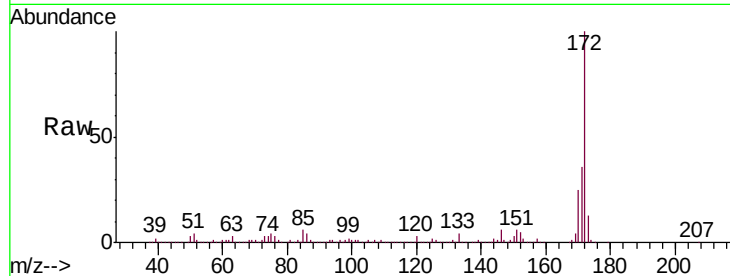




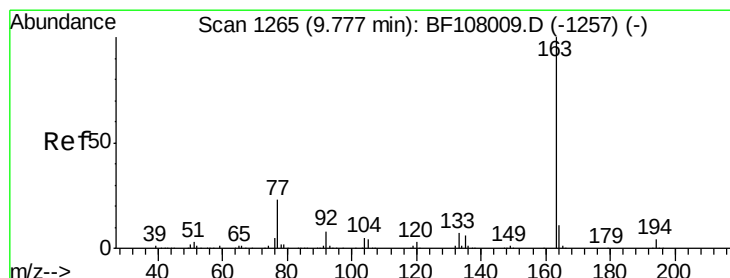
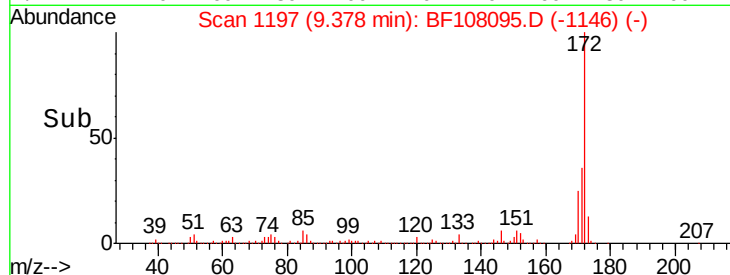
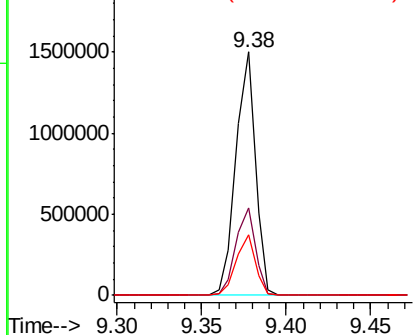
#44  
2-Fluorobiphenyl  
Concen: 41.493 ng  
RT: 9.38 min Scan# 1197  
Delta R.T. 0.00 min  
Lab File: BF108095.D  
Acq: 10 Aug 2018 20:23

Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-080918-G

Tgt Ion:172 Resp: 1211781  
Ion Ratio Lower Upper  
172 100  
171 36.1 29.7 44.5  
170 24.8 19.6 29.4

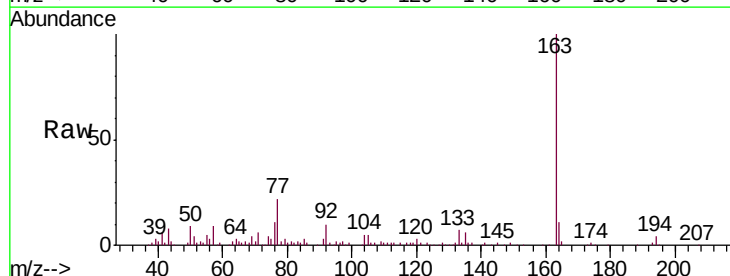


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

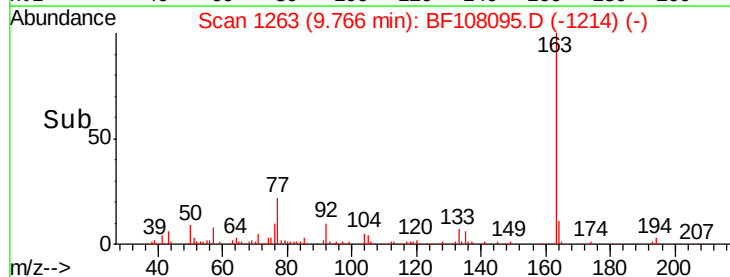
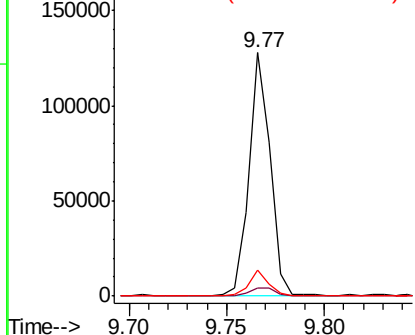


#49  
Dimethylphthalate  
Concen: 2.953 ng  
RT: 9.77 min Scan# 1263  
Delta R.T. -0.01 min  
Lab File: BF108095.D  
Acq: 10 Aug 2018 20:23

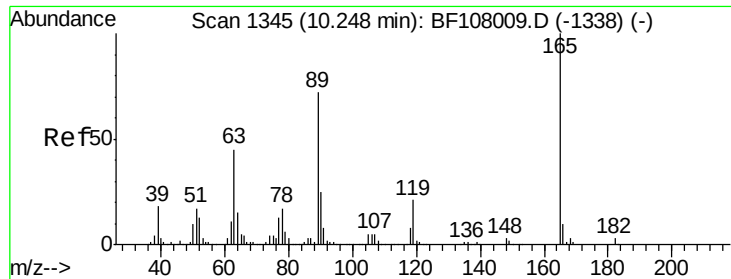
Tgt Ion:163 Resp: 96458  
Ion Ratio Lower Upper  
163 100  
194 3.5 2.7 4.1  
164 10.7 8.2 12.2



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



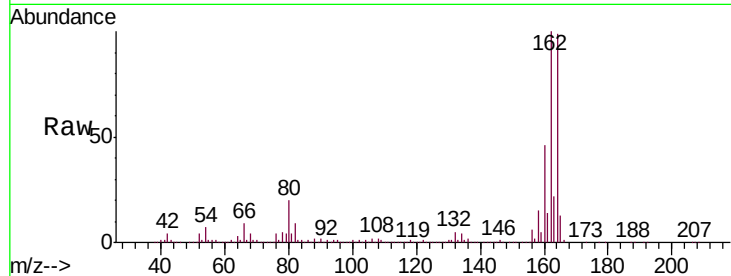




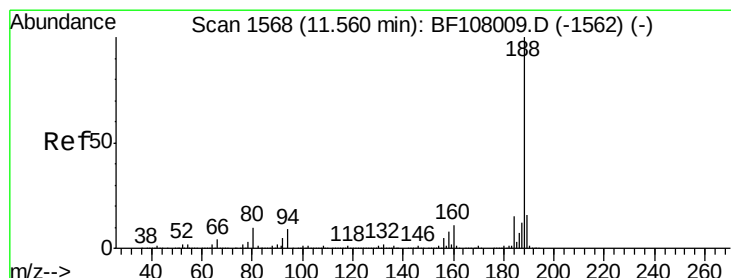
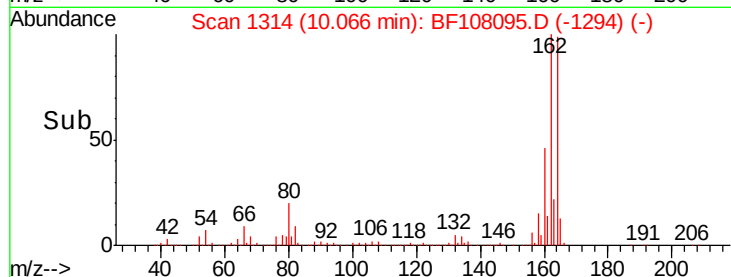
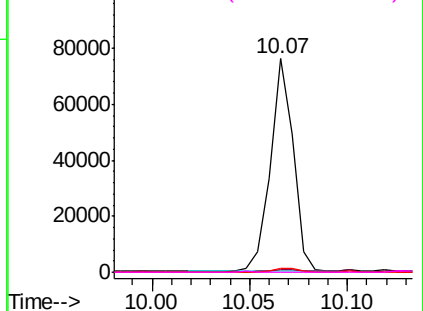
#56  
 2,4-Dinitrotoluene  
 Concen: 6.998 ng  
 RT: 10.07 min Scan# 1314  
 Delta R.T. -0.18 min  
 Lab File: BF108095.D  
 Acq: 10 Aug 2018 20:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-03-080918-G

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 61553 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.2   | 36.4  | 54.6# |
| 89       | 1.7   | 57.8  | 86.6# |
| 182      | 0.0   | 1.6   | 2.4#  |

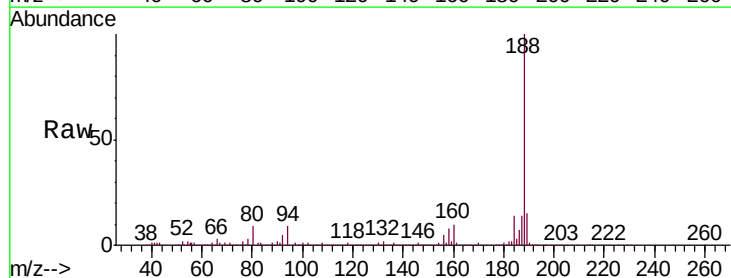


Abundance Ion 165.00 (164.70 to 165.70): E  
 120000  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

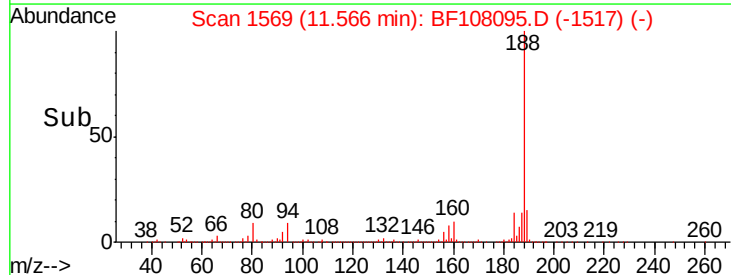
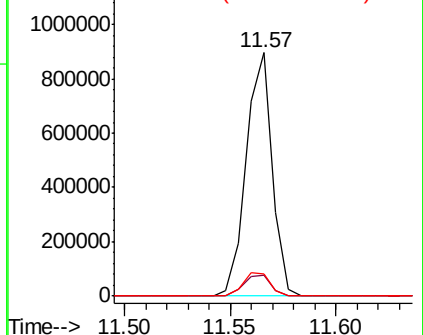


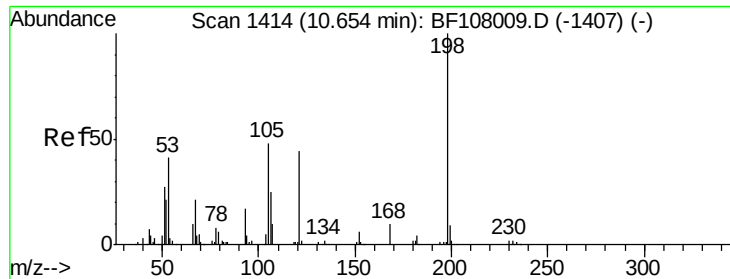
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.57 min Scan# 1569  
 Delta R.T. 0.01 min  
 Lab File: BF108095.D  
 Acq: 10 Aug 2018 20:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 763997 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 8.6   | 8.5   | 12.7   |
| 80       | 9.3   | 9.2   | 13.8   |



Abundance Ion 188.00 (187.70 to 188.70): E  
 1200000  
 Ion 94.00 (93.70 to 94.70): BF1  
 Ion 80.00 (79.70 to 80.70): BF1

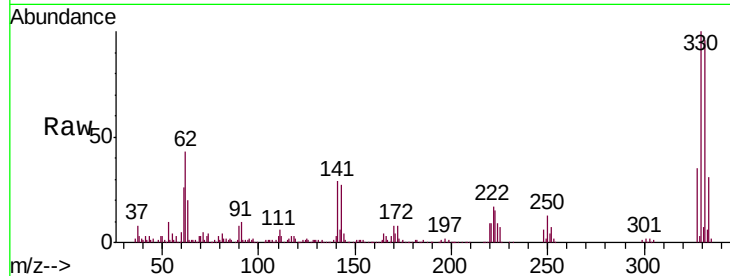




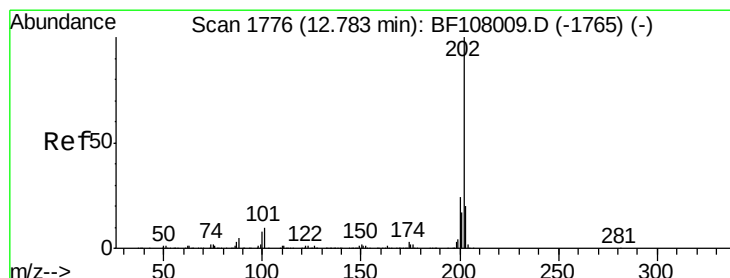
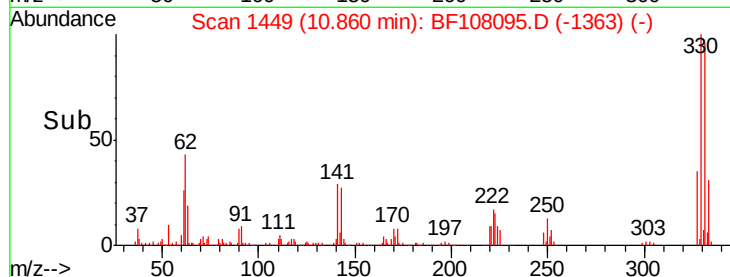
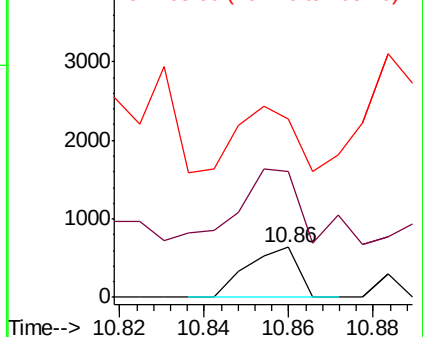
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.522 ng  
 RT: 10.86 min Scan# 1449  
 Delta R.T. 0.21 min  
 Lab File: BF108095.D  
 Acq: 10 Aug 2018 20:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 JC-03-080918-G

Tgt Ion:198 Resp: 529  
 Ion Ratio Lower Upper  
 198 100  
 51 251.2 37.7 77.7#  
 105 355.7 36.3 76.3#

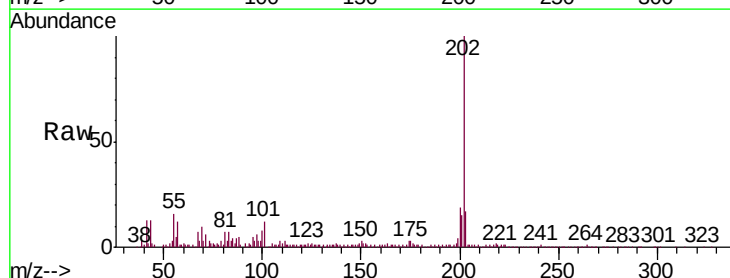


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

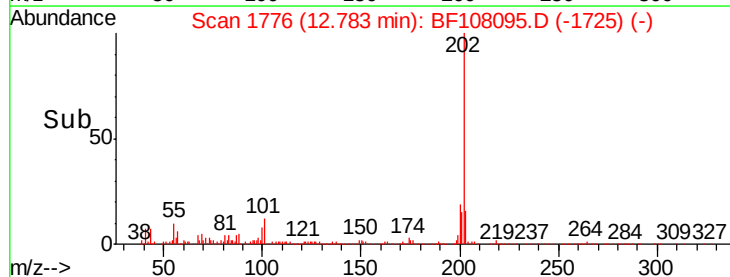
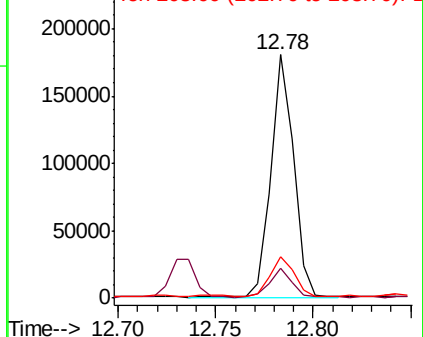


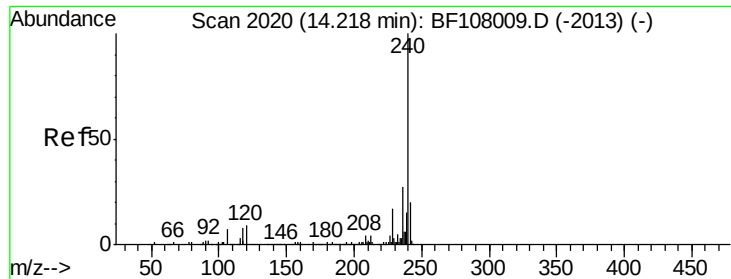
#74  
 Fluoranthene  
 Concen: 3.717 ng  
 RT: 12.78 min Scan# 1776  
 Delta R.T. 0.00 min  
 Lab File: BF108095.D  
 Acq: 10 Aug 2018 20:23

Tgt Ion:202 Resp: 146189  
 Ion Ratio Lower Upper  
 202 100  
 101 12.1 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: 14.22 min Scan# 2020

Delta R.T. 0.00 min

Lab File: BF108095.D

Acq: 10 Aug 2018 20:23

Instrument :

BNA\_F

ClientSampleId :

JC-03-080918-G

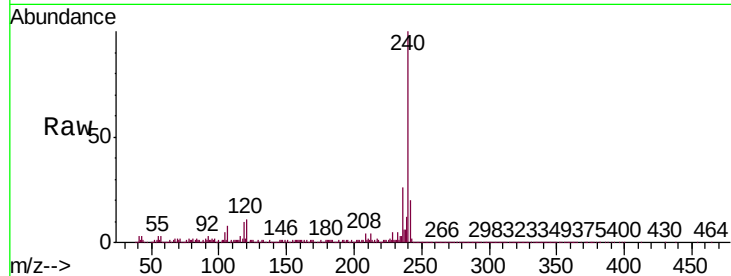
Tgt Ion:240 Resp: 630561

Ion Ratio Lower Upper

240 100

120 11.2 9.5 14.3

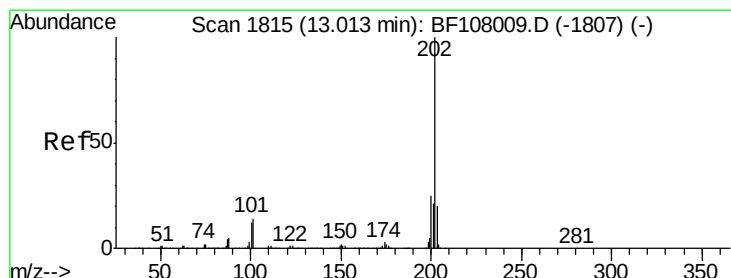
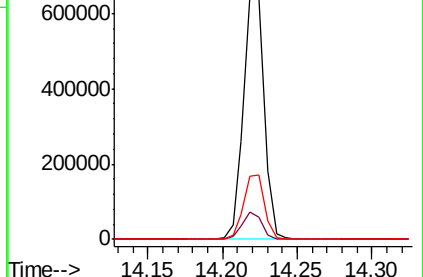
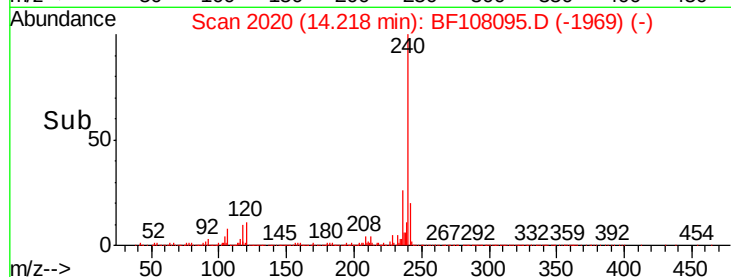
236 25.9 20.7 31.1



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



#77

Pyrene

Concen: 3.505 ng

RT: 13.02 min Scan# 1816

Delta R.T. 0.01 min

Lab File: BF108095.D

Acq: 10 Aug 2018 20:23

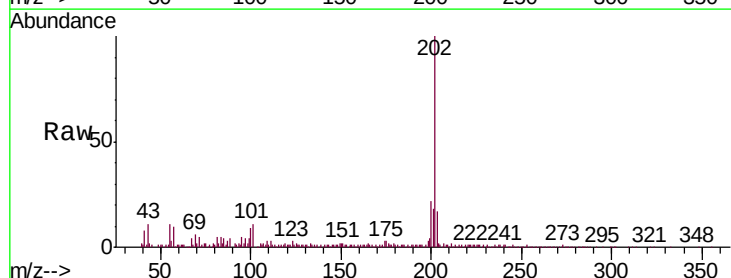
Tgt Ion:202 Resp: 139918

Ion Ratio Lower Upper

202 100

200 21.9 17.4 26.2

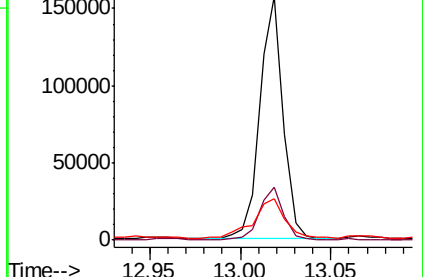
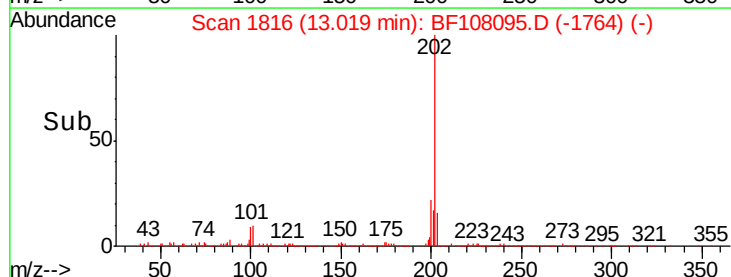
203 17.0 14.3 21.5

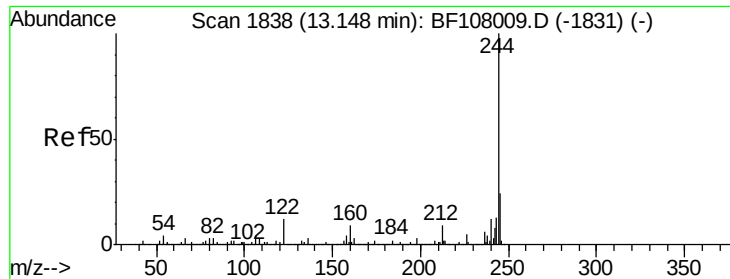


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 41.165 ng

RT: 13.15 min Scan# 1839

Delta R.T. 0.01 min

Lab File: BF108095.D

Acq: 10 Aug 2018 20:23

Instrument :

BNA\_F

ClientSampleId :

JC-03-080918-G

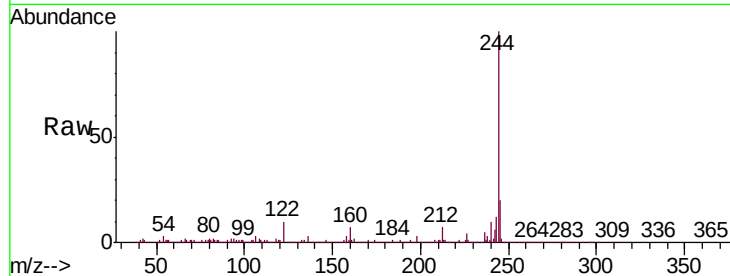
Tgt Ion:244 Resp: 1020901

Ion Ratio Lower Upper

244 100

212 7.4 5.4 8.0

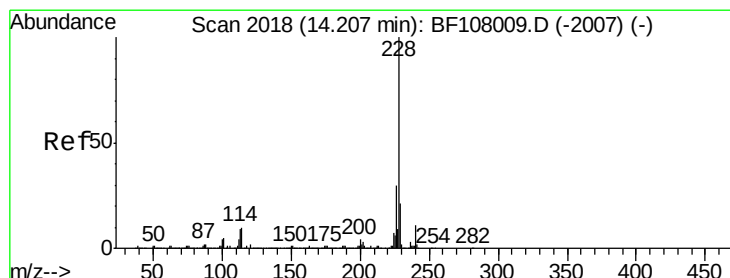
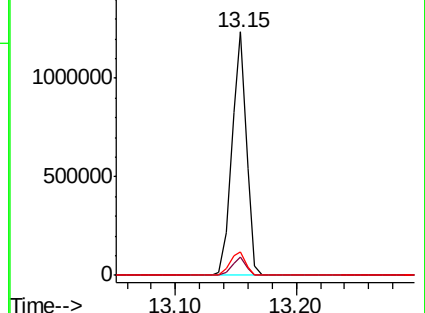
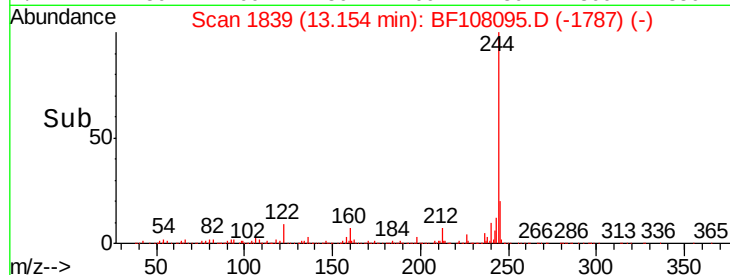
122 9.5 11.0 16.4#



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



#80

Benzo(a)anthracene

Concen: 2.181 ng

RT: 14.21 min Scan# 2019

Delta R.T. 0.01 min

Lab File: BF108095.D

Acq: 10 Aug 2018 20:23

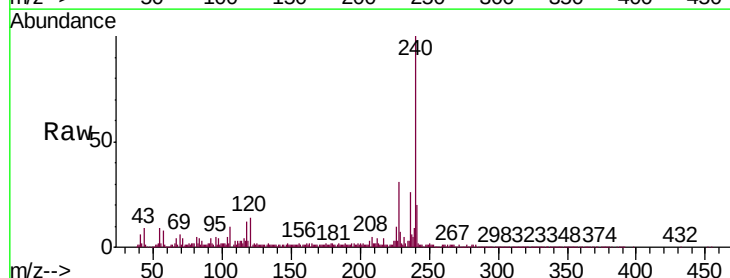
Tgt Ion:228 Resp: 78940

Ion Ratio Lower Upper

228 100

226 32.1 22.6 33.8

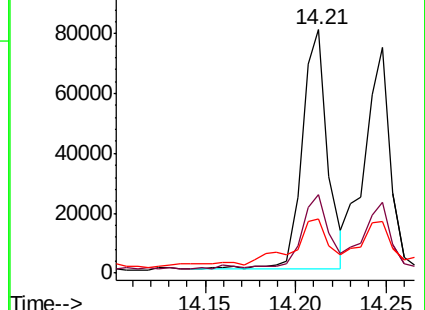
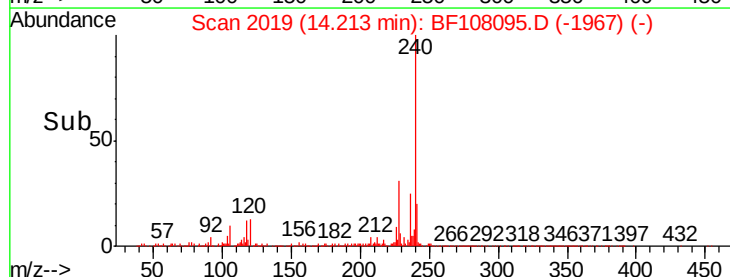
229 22.3 15.8 23.6

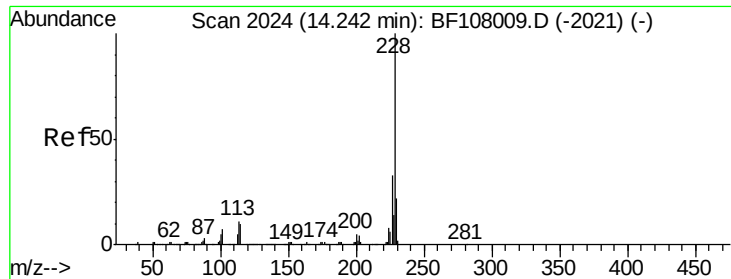


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 2.224 ng

RT: 14.25 min Scan# 2025

Delta R.T. 0.01 min

Lab File: BF108095.D

Acq: 10 Aug 2018 20:23

Instrument :

BNA\_F

ClientSampleId :

JC-03-080918-G

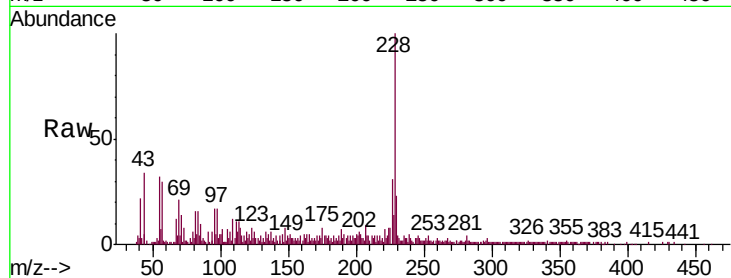
Tgt Ion: 228 Resp: 73783

Ion Ratio Lower Upper

228 100

226 31.4 25.0 37.6

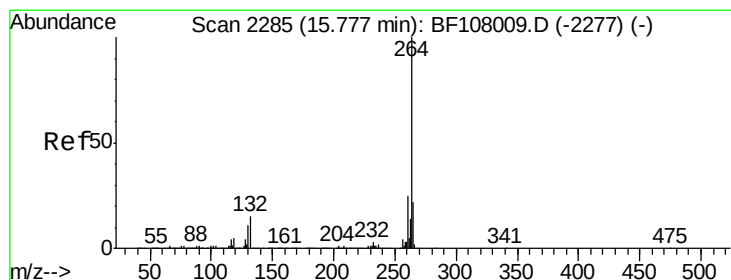
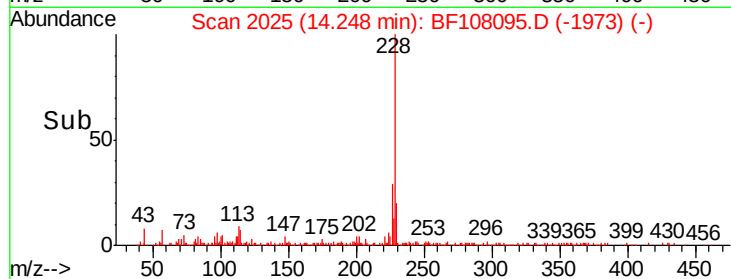
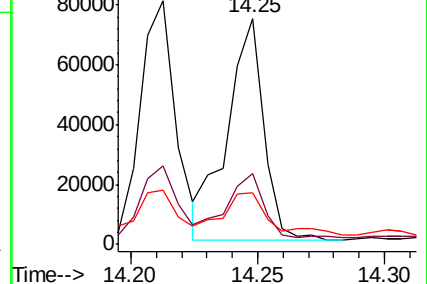
229 22.7 16.2 24.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.79 min Scan# 2288

Delta R.T. 0.02 min

Lab File: BF108095.D

Acq: 10 Aug 2018 20:23

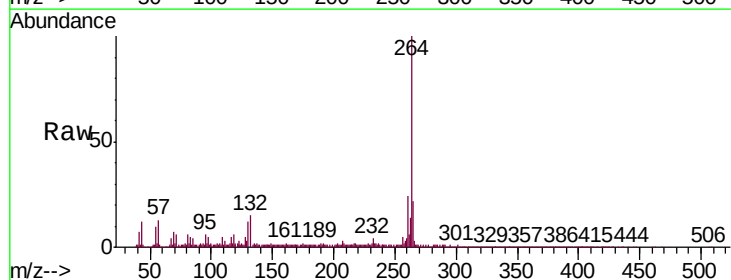
Tgt Ion: 264 Resp: 436482

Ion Ratio Lower Upper

264 100

260 23.9 19.2 28.8

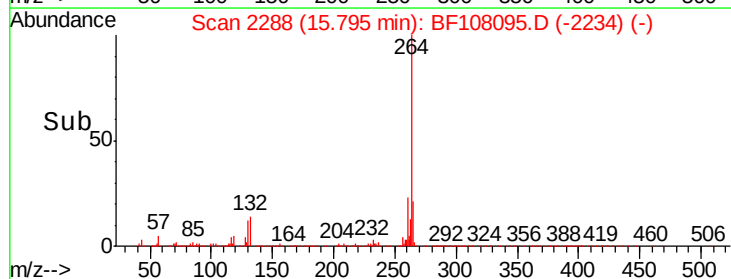
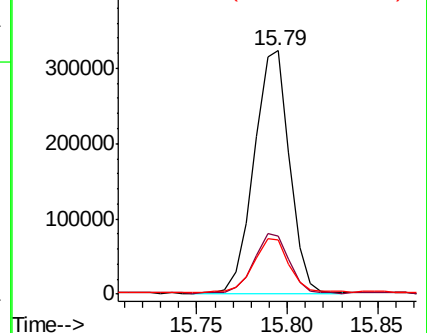
265 22.2 17.5 26.3

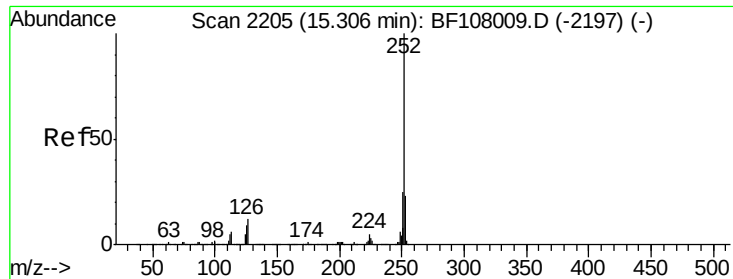


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

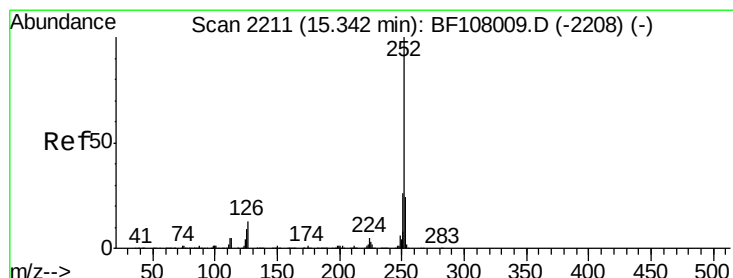
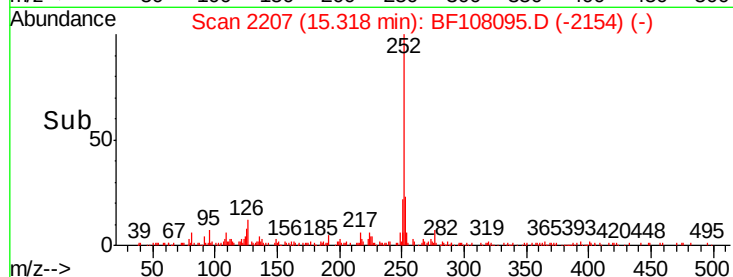
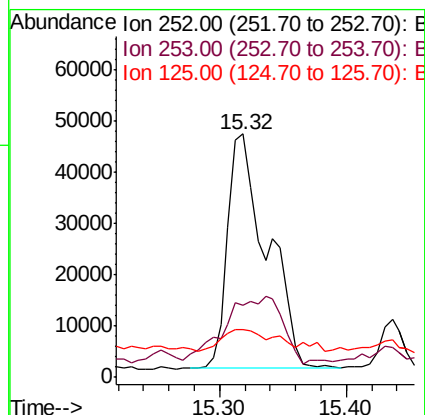
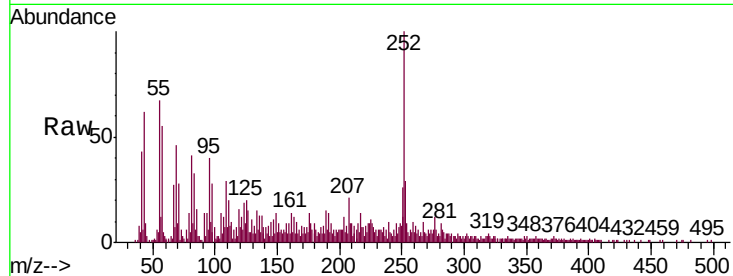




#87  
Benzo(b)fluoranthene  
Concen: 3.791 ng  
RT: 15.32 min Scan# 2207  
Delta R.T. 0.01 min  
Lab File: BF108095.D  
Acq: 10 Aug 2018 20:23

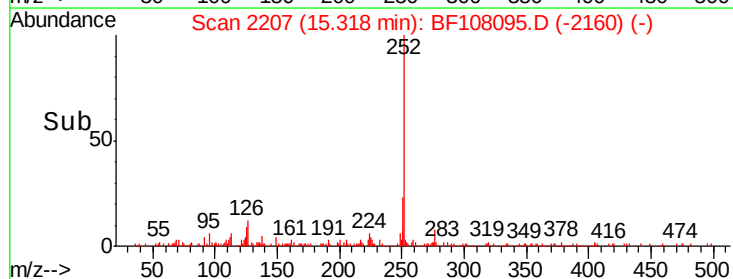
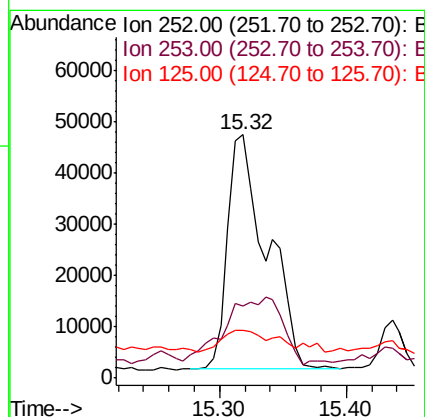
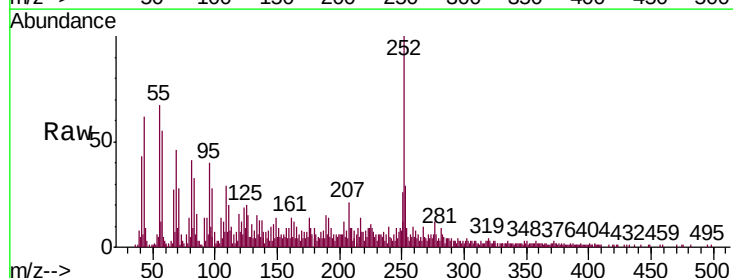
Instrument :  
BNA\_F  
ClientSampleId :  
JC-03-080918-G

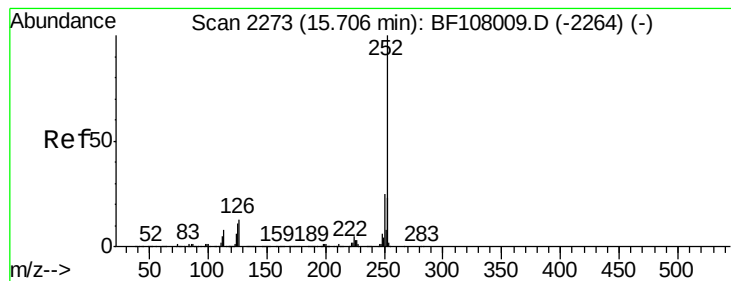
Tgt Ion:252 Resp: 98863  
Ion Ratio Lower Upper  
252 100  
253 29.4 17.0 25.6#  
125 19.9 9.0 13.6#



#88  
Benzo(k)fluoranthene  
Concen: 4.124 ng  
RT: 15.32 min Scan# 2207  
Delta R.T. -0.02 min  
Lab File: BF108095.D  
Acq: 10 Aug 2018 20:23

Tgt Ion:252 Resp: 98863  
Ion Ratio Lower Upper  
252 100  
253 29.4 17.9 26.9#  
125 19.9 10.2 15.2#





#89

Benzo(a)pyrene

Concen: 2.158 ng

RT: 15.72 min Scan# 2275

Delta R.T. 0.01 min

Lab File: BF108095.D

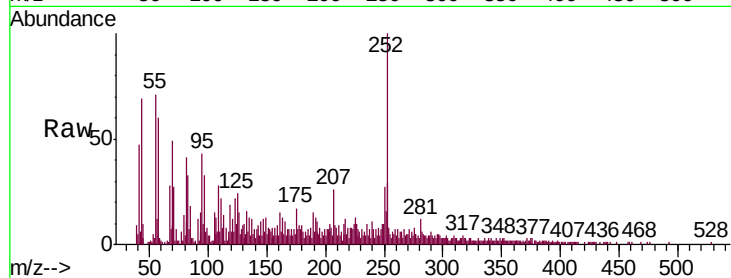
Acq: 10 Aug 2018 20:23

Instrument :

BNA\_F

ClientSampleId :

JC-03-080918-G



Tgt Ion: 252 Resp: 50408

Ion Ratio Lower Upper

252 100

253 29.0 17.1 25.7#

125 24.4 9.8 14.6#

