

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060220\  
 Data File : BF120502.D  
 Acq On : 2 Jun 2020 18:35  
 Operator : JU/CG  
 Sample : L2798-08  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 02 19:19:54 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 02 11:37:51 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 176454   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.13  | 136  | 601451   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.88  | 164  | 268019   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.37 | 188  | 461163   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.01 | 240  | 368118   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.47 | 264  | 317484   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.47  | 112  | 667919   | 72.14 | ng    | 0.00     |
| 7) Phenol-d6                | 6.48  | 99   | 825912   | 72.37 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 576646   | 62.72 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.67 | 330  | 203395   | 81.90 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.20  | 172  | 1066208  | 67.50 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.96 | 244  | 1053612  | 63.69 | ng    | 0.00     |

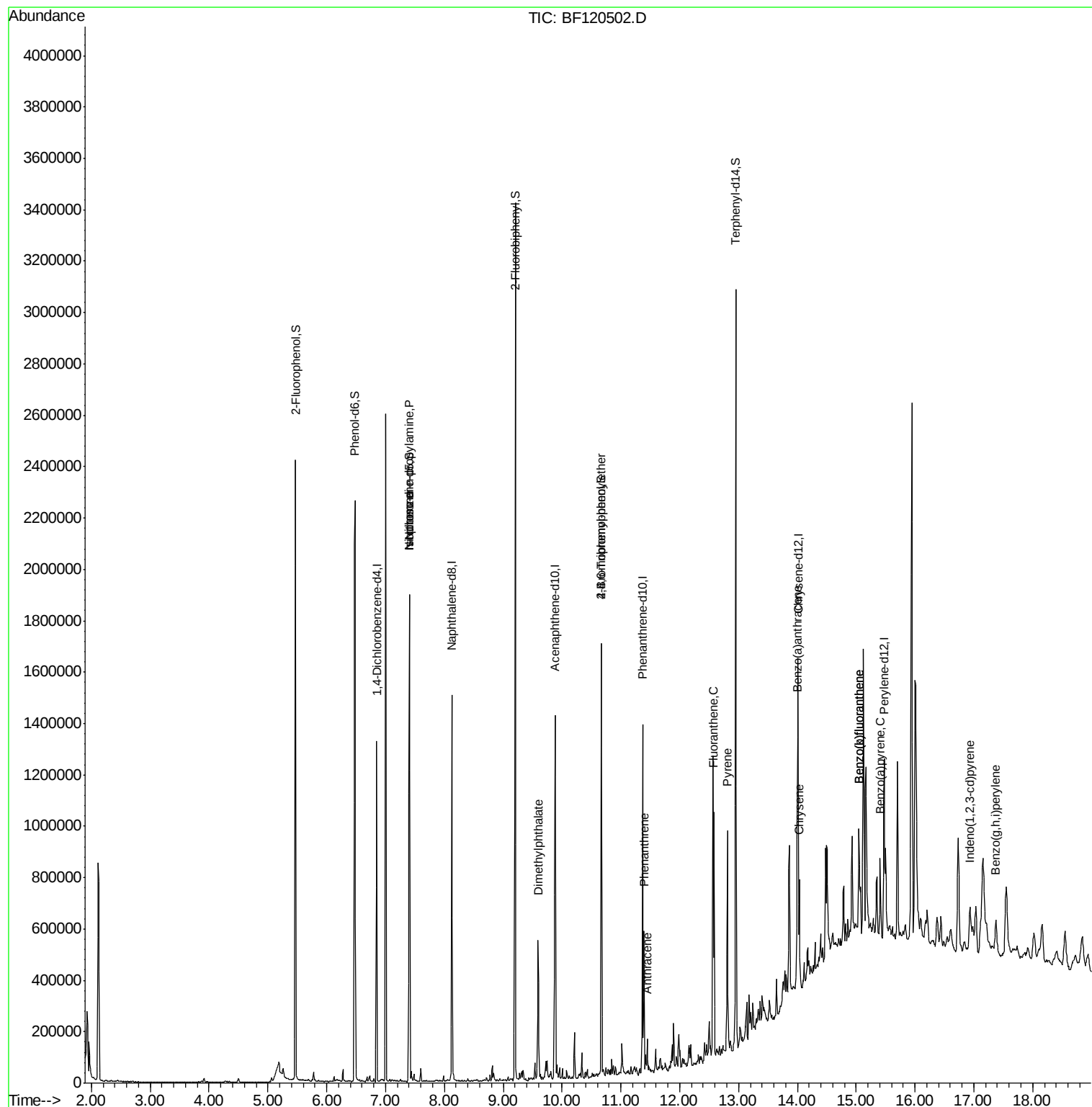
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 75972    | 10.472 | ng    | # 80   |
| 25) Isophorone                 | 7.40  | 82   | 572819   | 30.997 | ng    | # 64   |
| 50) Dimethylphthalate          | 9.59  | 163  | 190693   | 11.381 | ng    | 99     |
| 67) 4-Bromophenyl-phenylether  | 10.67 | 248  | 12386    | 2.661  | ng    | # 1    |
| 71) Phenanthrene               | 11.39 | 178  | 160577   | 7.902  | ng    | 98     |
| 72) Anthracene                 | 11.44 | 178  | 50020    | 2.453  | ng    | 97     |
| 75) Fluoranthene               | 12.58 | 202  | 377040   | 17.244 | ng    | 99     |
| 78) Pyrene                     | 12.81 | 202  | 371744   | 14.521 | ng    | 98     |
| 81) Benzo(a)anthracene         | 14.00 | 228  | 199293   | 10.101 | ng    | 97     |
| 83) Chrysene                   | 14.04 | 228  | 188318   | 9.105  | ng    | 98     |
| 87) Indeno(1,2,3-cd)pyrene     | 16.93 | 276  | 103131   | 5.939  | ng    | 95     |
| 88) Benzo(b)fluoranthene       | 15.04 | 252  | 308206   | 17.478 | ng    | 98     |
| 89) Benzo(k)fluoranthene       | 15.04 | 252  | 308206   | 18.722 | ng    | # 96   |
| 90) Benzo(a)pyrene             | 15.41 | 252  | 158796   | 10.295 | ng    | 98     |
| 92) Benzo(a,h,i)perylene       | 17.37 | 276  | 97295    | 6.968  | ng    | 97     |

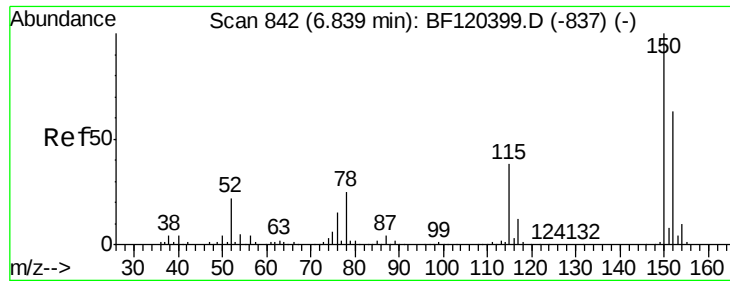
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_F  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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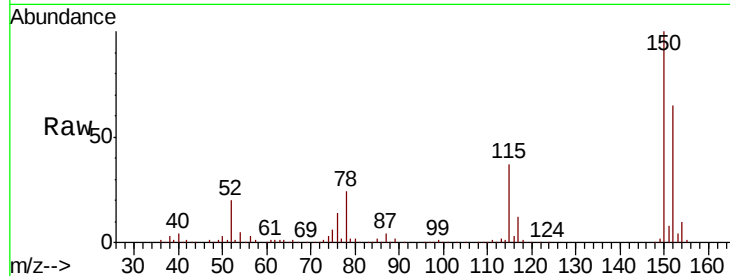


#1

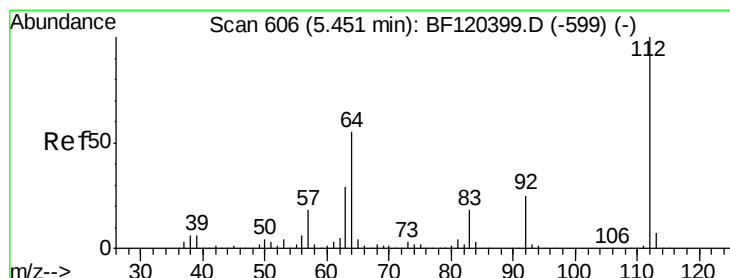
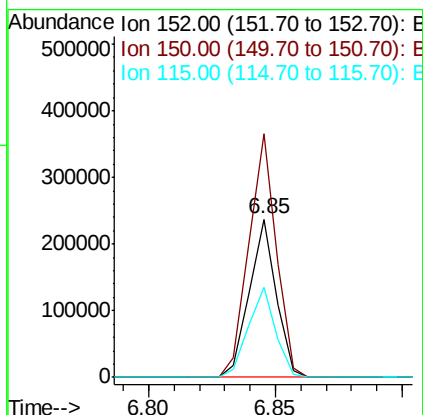
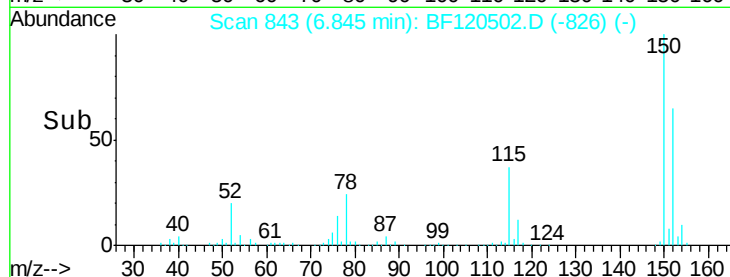
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.85 min Scan# 843  
 Delta R.T. -0.00 min  
 Lab File: BF120502.D  
 Acq: 2 Jun 2020 18:35

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:152 Resp: 176454  
 Ion Ratio Lower Upper  
 152 100  
 150 154.0 126.7 190.1  
 115 56.9 46.2 69.2



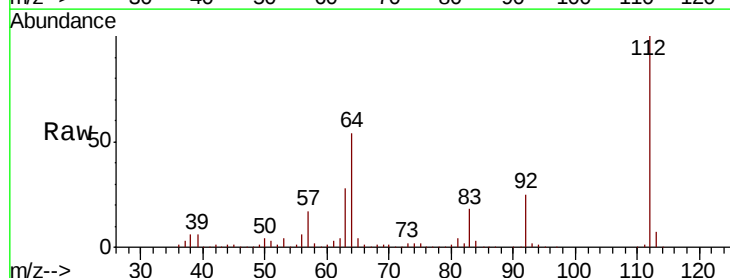
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



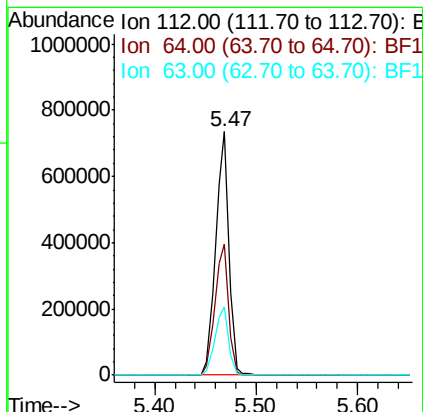
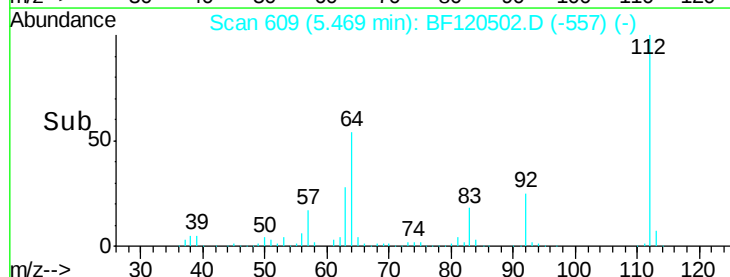
#5

2-Fluorophenol  
 Concen: 72.137 ng  
 RT: 5.47 min Scan# 609  
 Delta R.T. 0.01 min  
 Lab File: BF120502.D  
 Acq: 2 Jun 2020 18:35

Tgt Ion:112 Resp: 667919  
 Ion Ratio Lower Upper  
 112 100  
 64 53.9 46.3 69.5  
 63 28.1 24.2 36.2



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: 72.369 ng

RT: 6.48 min Scan# 781

Delta R.T. -0.00 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

Instrument :

BNA\_F

ClientSampleId :

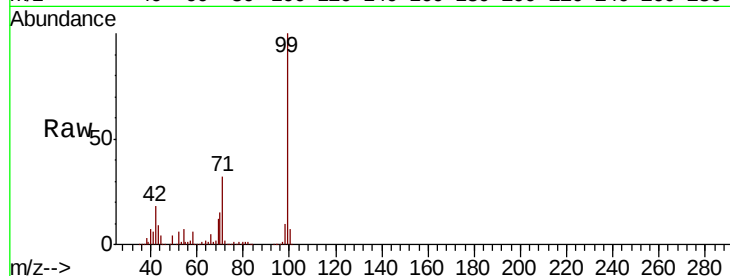
Tot Ion: 99 Resp: 825912

Ion Ratio Lower Upper

99 100

42 17.8 15.1 22.7

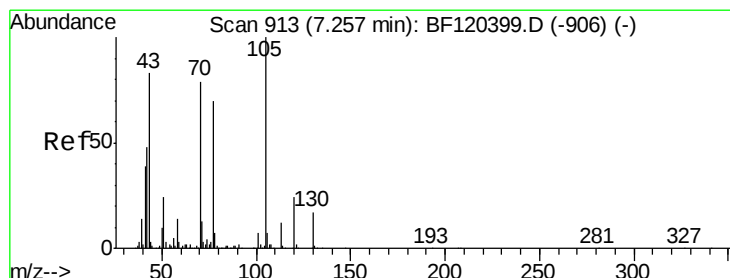
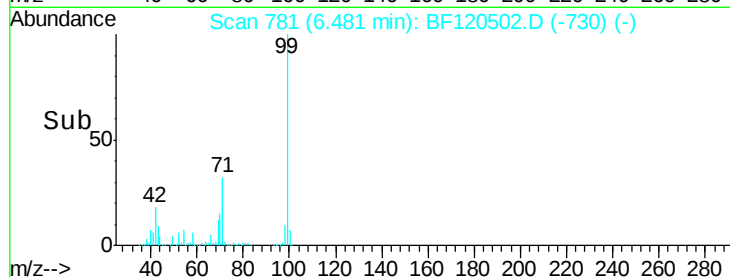
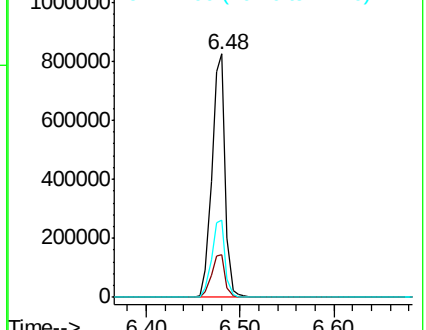
71 31.8 26.2 39.4



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



#19

n-Nitroso-di-n-propylamine

Concen: 10.472 ng

RT: 7.40 min Scan# 938

Delta R.T. 0.14 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

Tgt Ion: 70 Resp: 75972

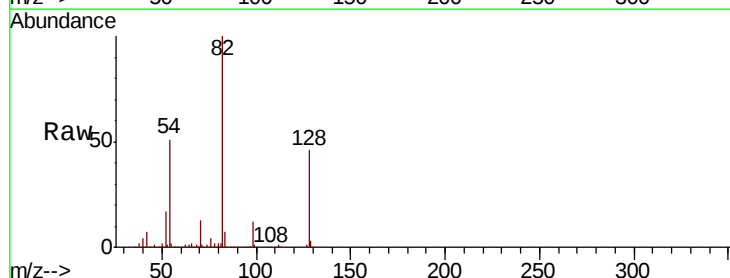
Ion Ratio Lower Upper

70 100

42 50.9 47.4 71.2

101 0.0 7.8 11.6#

130 2.5 17.1 25.7#

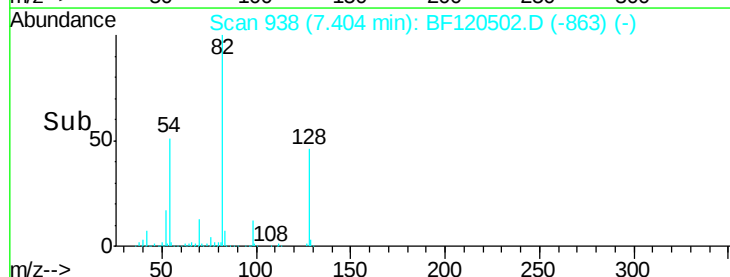
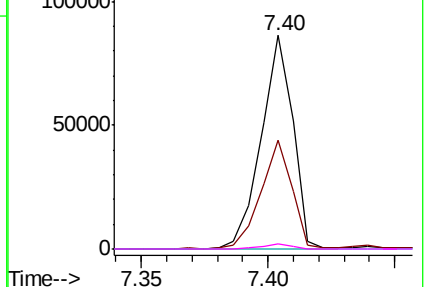


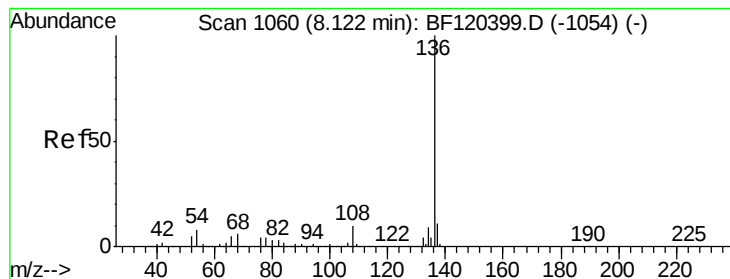
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.13 min Scan# 1061

Delta R.T. -0.00 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

Instrument :

BNA\_F

ClientSampled :

Tot Ion:136 Resp: 601451

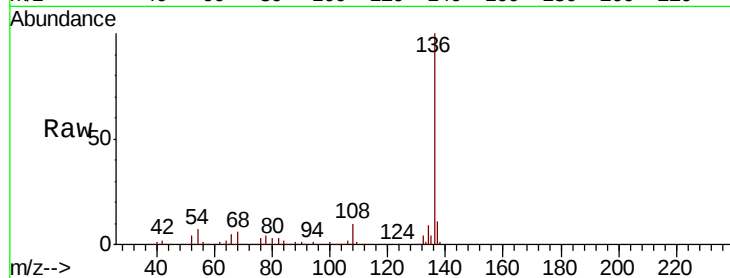
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.6

54 7.4 6.2 9.4

68 5.8 5.0 7.6

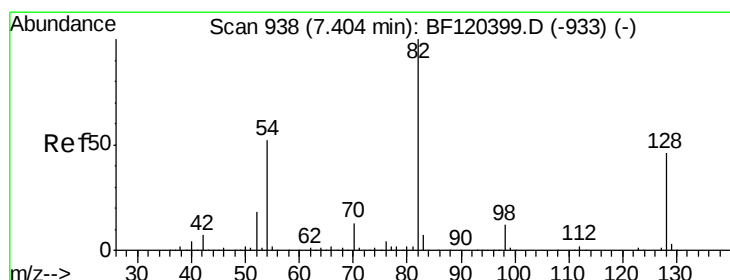
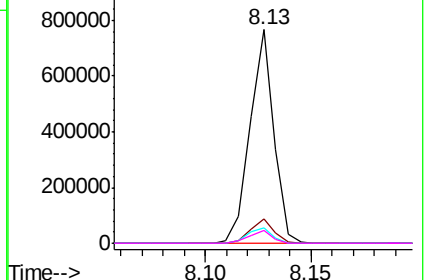
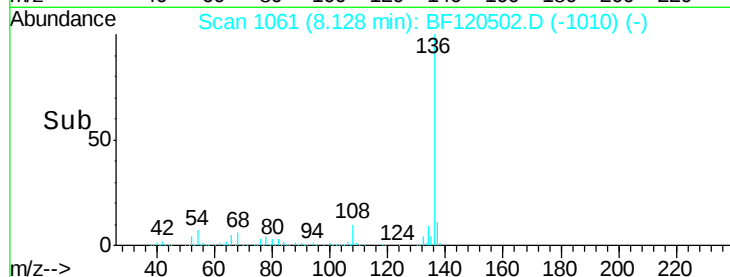


Abundance Ion 136.00 (135.70 to 136.70): E

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: 62.715 ng

RT: 7.40 min Scan# 938

Delta R.T. -0.01 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

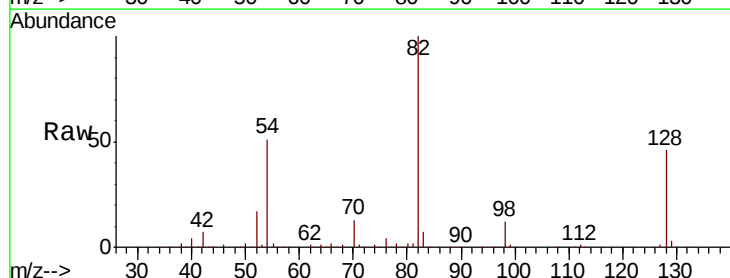
Tgt Ion: 82 Resp: 576646

Ion Ratio Lower Upper

82 100

128 46.1 37.0 55.6

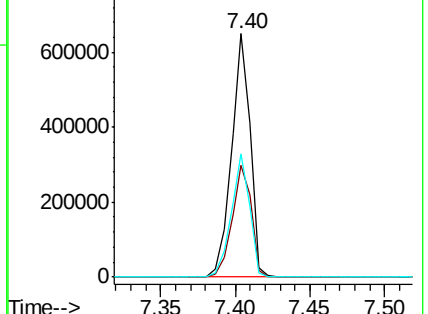
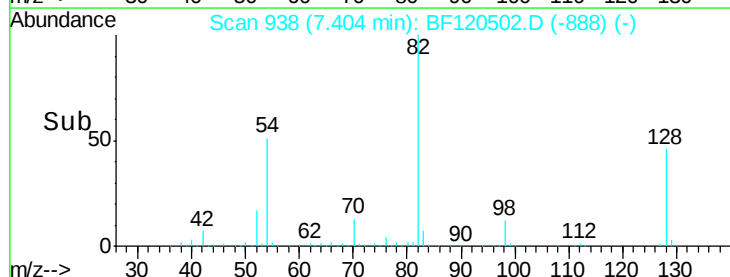
54 50.8 41.0 61.4



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 30.997 ng

RT: 7.40 min Scan# 938

Delta R.T. -0.26 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

Instrument :

BNA\_F

ClientSampleId :

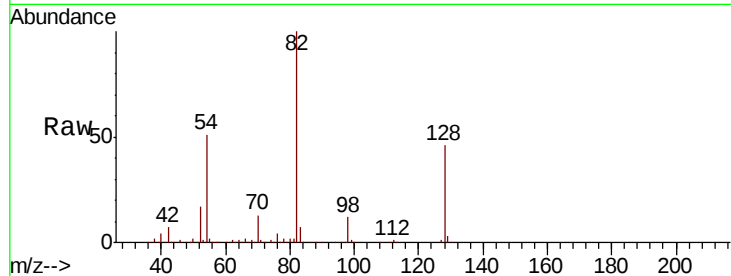
Tot Ion: 82 Resp: 572819

Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

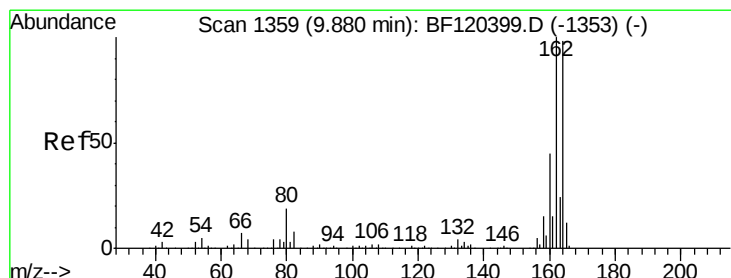
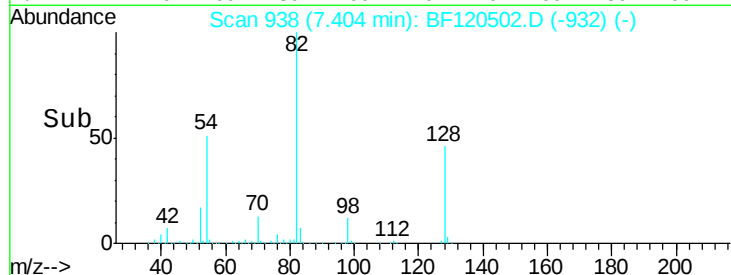
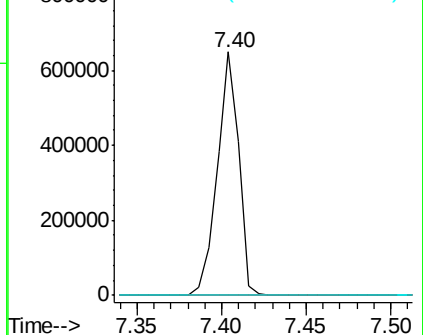
138 0.0 15.0 22.6#



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: 9.88 min Scan# 1359

Delta R.T. -0.01 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

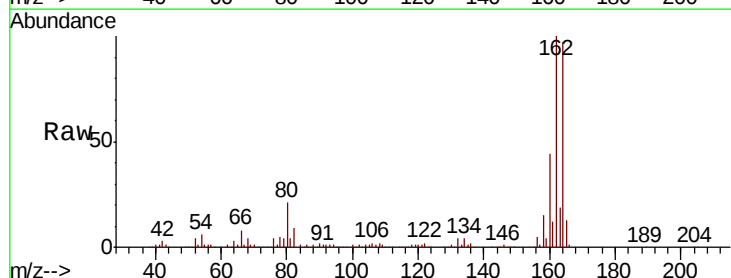
Tgt Ion:164 Resp: 268019

Ion Ratio Lower Upper

164 100

162 102.7 81.9 122.9

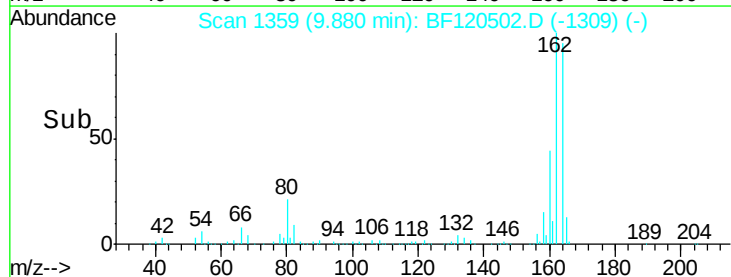
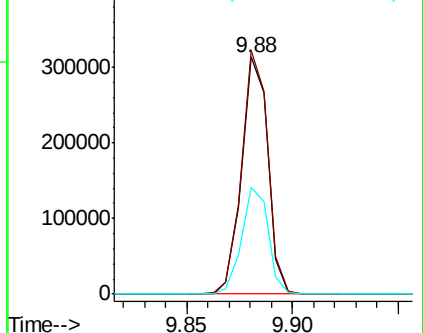
160 45.1 37.4 56.0

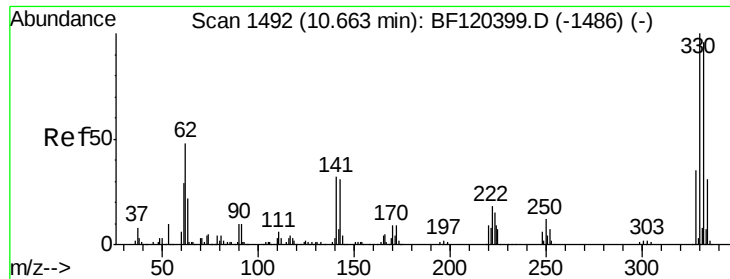


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

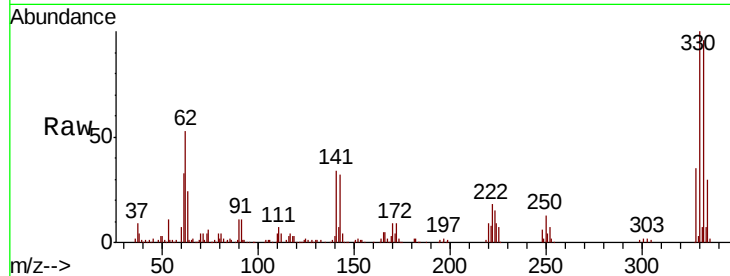




#42  
 2,4,6-Tribromophenol  
 Concen: 81.905 ng  
 RT: 10.67 min Scan# 1493  
 Delta R.T. -0.01 min  
 Lab File: BF120502.D  
 Acq: 2 Jun 2020 18:35

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.2  | 76.8  | 115.2 |
| 141     | 30.5  | 23.9  | 35.9  |

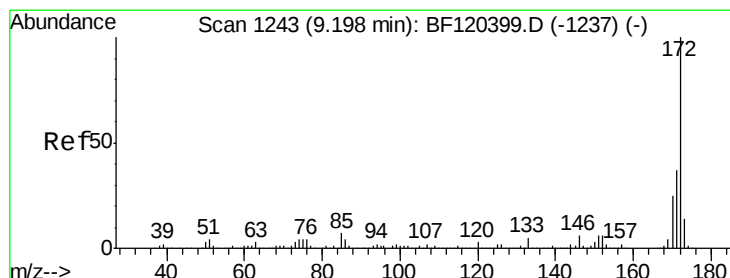
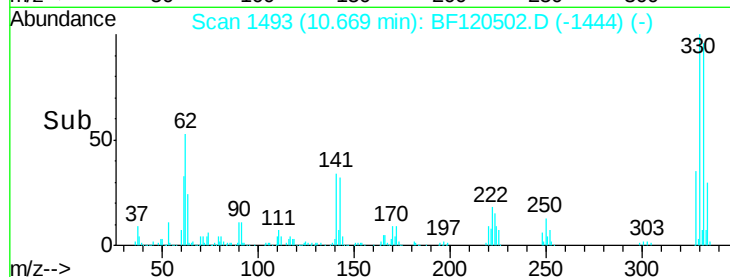
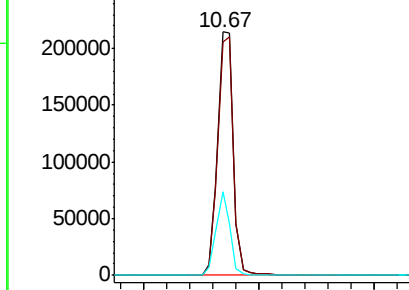


Abundance

Ion 329.80 (329.50 to 330.50): E

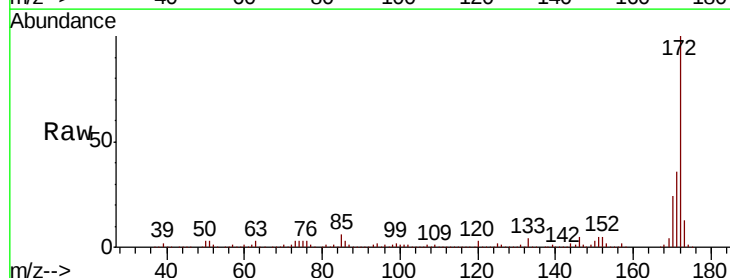
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 67.496 ng  
 RT: 9.20 min Scan# 1244  
 Delta R.T. -0.00 min  
 Lab File: BF120502.D  
 Acq: 2 Jun 2020 18:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 29.4  | 44.2  |
| 170     | 23.8  | 19.9  | 29.9  |

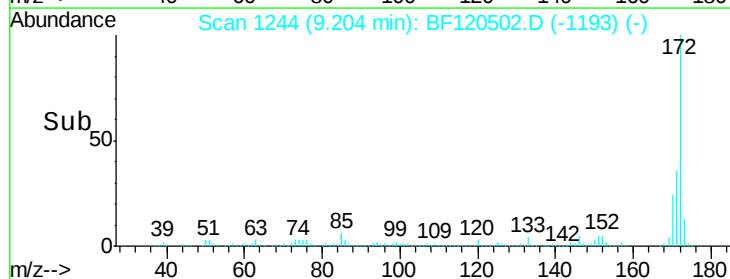
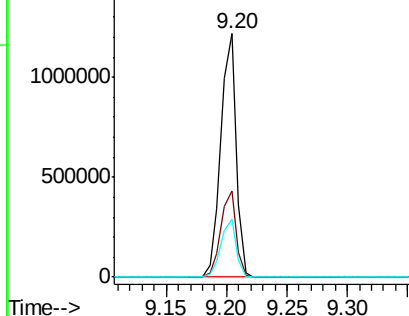


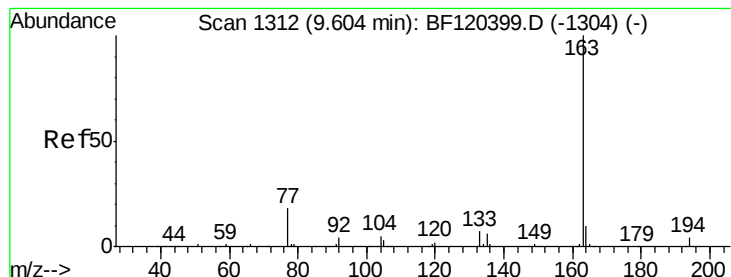
Abundance

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





#50

Dimethylphthalate

Concen: 11.381 ng

RT: 9.59 min Scan# 1310

Delta R.T. -0.02 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

Instrument :

BNA\_F

ClientSampleId :

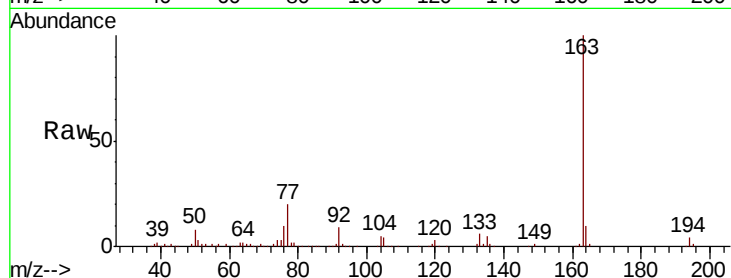
Tot Ion:163 Resp: 190693

Ion Ratio Lower Upper

163 100

194 3.6 3.3 4.9

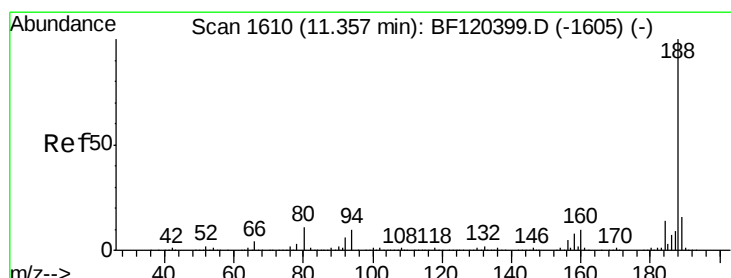
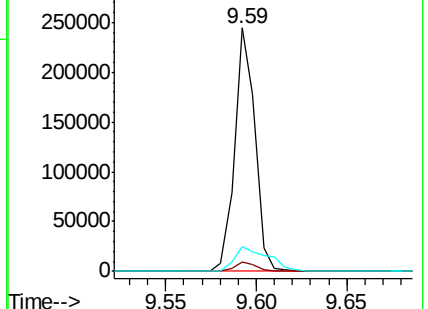
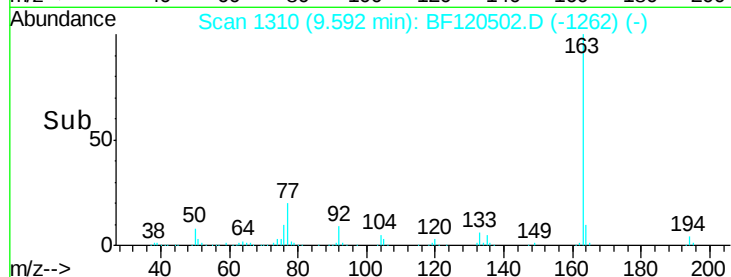
164 10.1 8.2 12.2



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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.37 min Scan# 1612

Delta R.T. -0.01 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

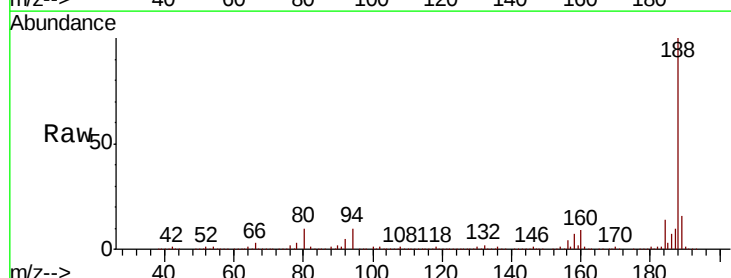
Tgt Ion:188 Resp: 461163

Ion Ratio Lower Upper

188 100

94 9.5 6.6 10.0

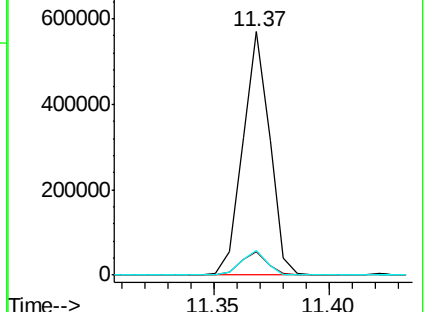
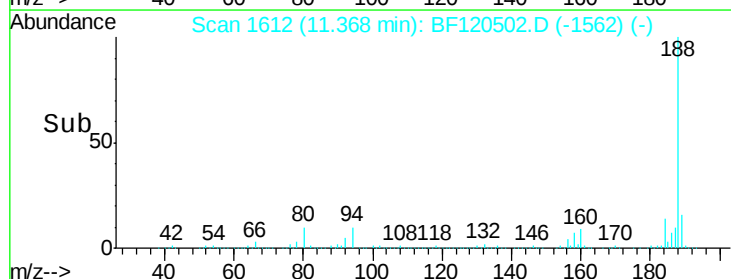
80 10.2 7.1 10.7

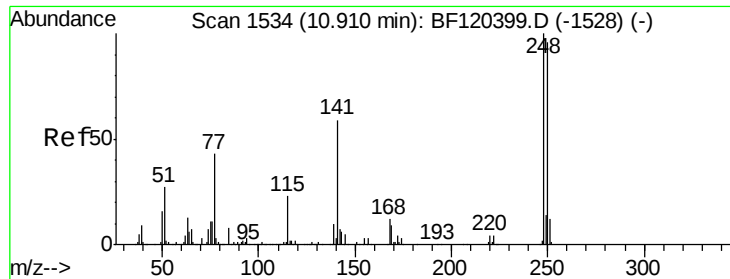


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

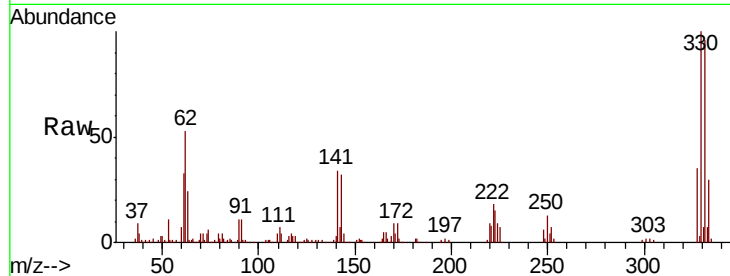




#67  
 4-Bromophenyl-phenylether  
 Concen: 2.661 ng  
 RT: 10.67 min Scan# 1493  
 Delta R.T. -0.25 min  
 Lab File: BF120502.D  
 Acq: 2 Jun 2020 18:35

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 205.6 | 77.8  | 116.6# |
| 141     | 549.9 | 54.8  | 82.2#  |

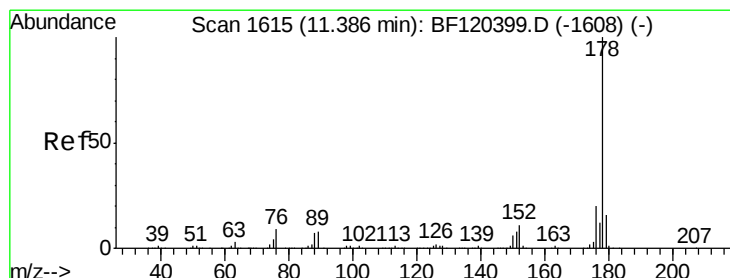
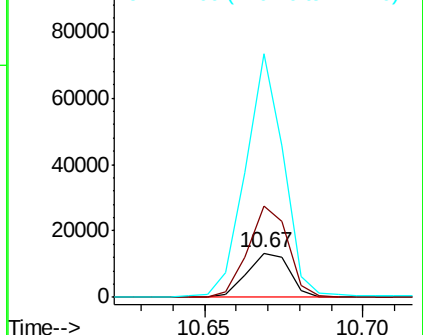
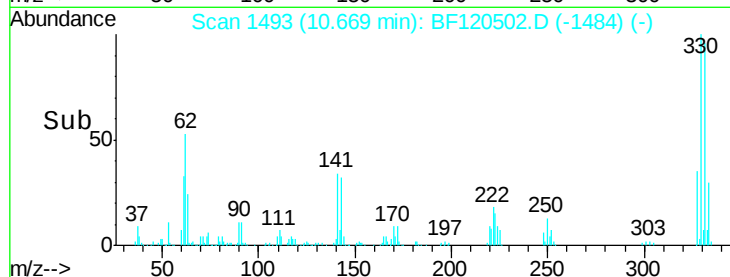


Abundance

Ion 248.00 (247.70 to 248.70): E

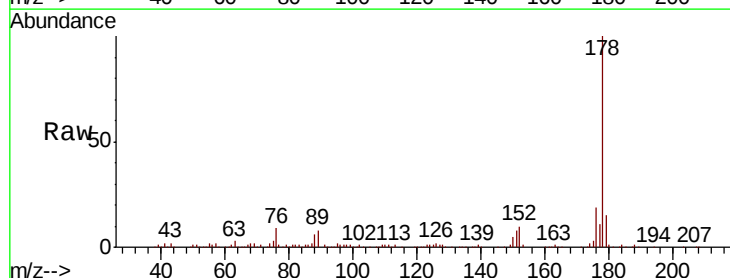
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#71  
 Phenanthrene  
 Concen: 7.902 ng  
 RT: 11.39 min Scan# 1616  
 Delta R.T. -0.01 min  
 Lab File: BF120502.D  
 Acq: 2 Jun 2020 18:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 16.2  | 24.2  |
| 179     | 15.3  | 12.8  | 19.2  |

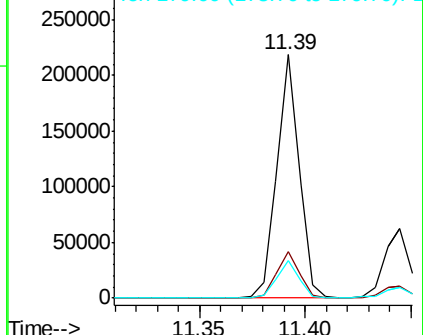
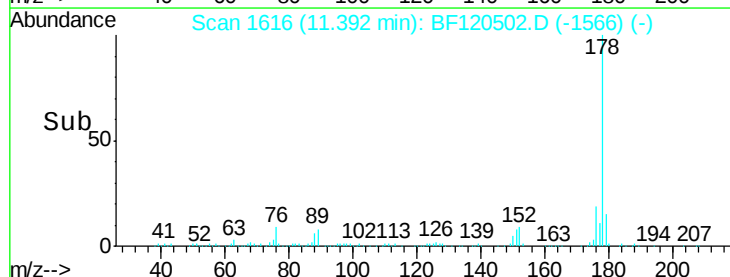


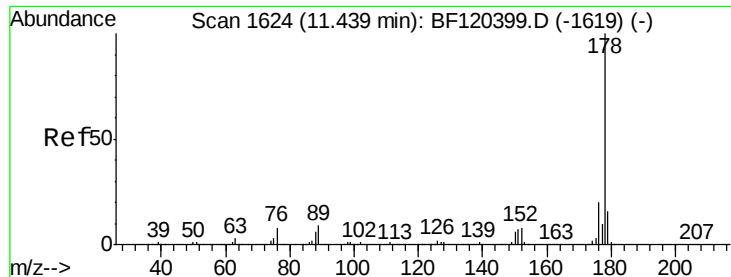
Abundance

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





#72

Anthracene

Concen: 2.453 ng

RT: 11.44 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

Instrument :

BNA\_F

ClientSampled :

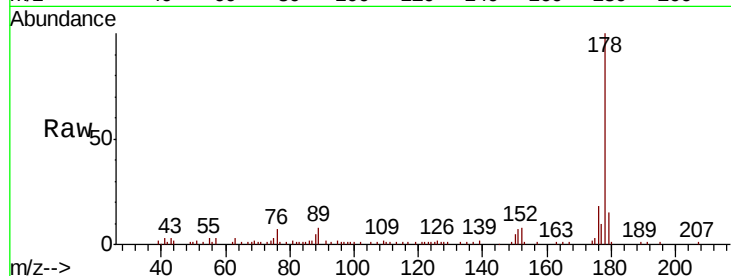
Tot Ion:178 Resp: 50020

Ion Ratio Lower Upper

178 100

176 18.2 15.9 23.9

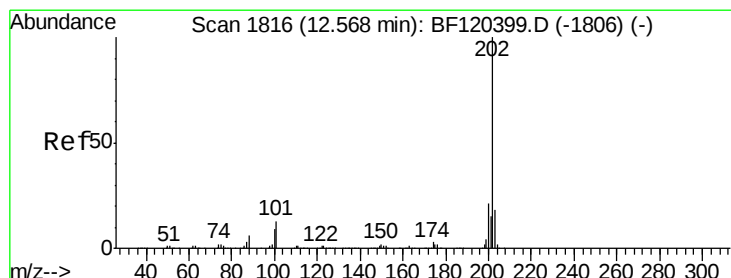
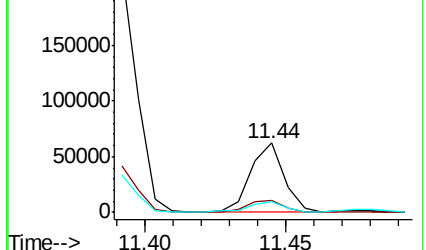
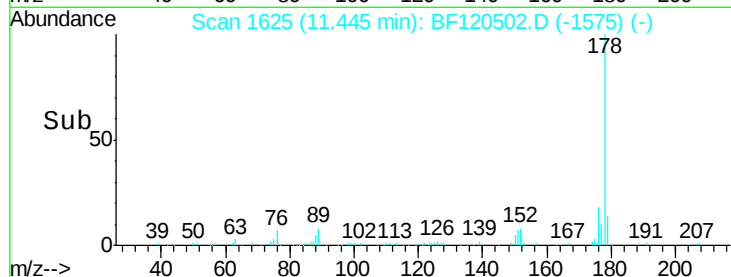
179 14.7 12.7 19.1



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: 17.244 ng

RT: 12.58 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

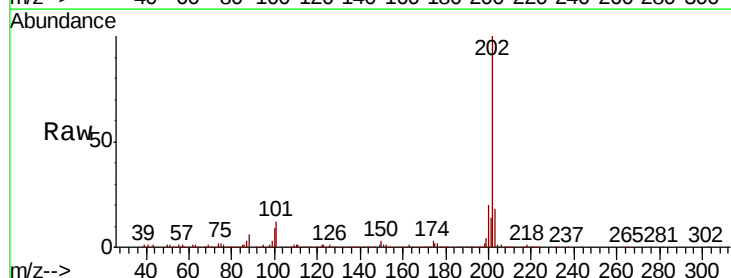
Tgt Ion:202 Resp: 377040

Ion Ratio Lower Upper

202 100

101 11.9 0.0 31.4

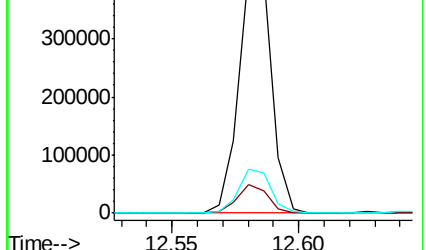
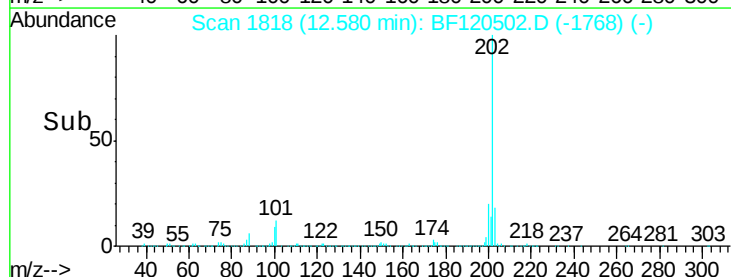
203 18.1 0.0 38.8

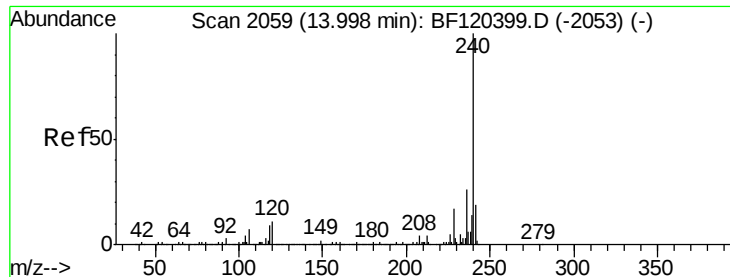


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

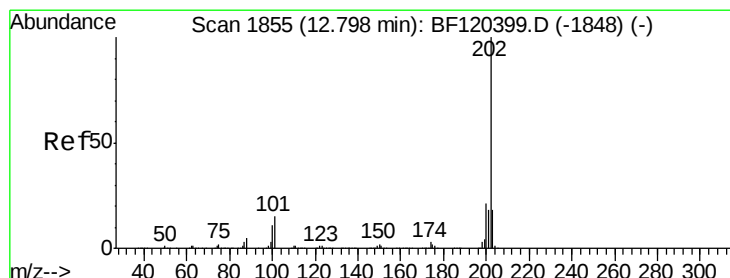
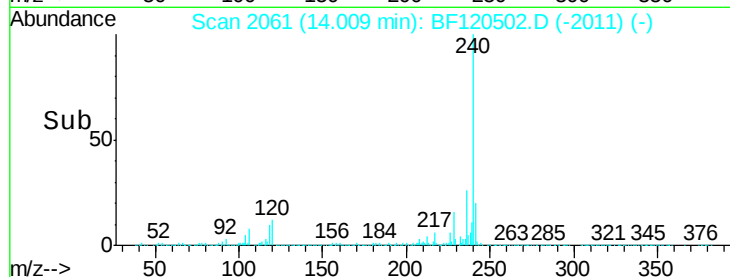
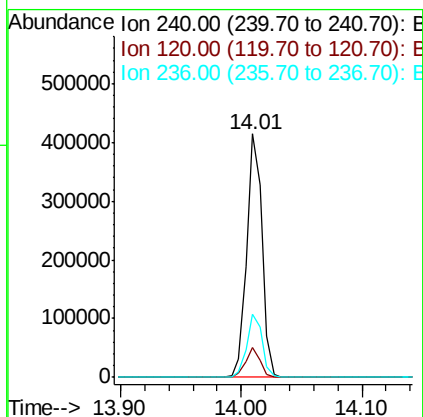
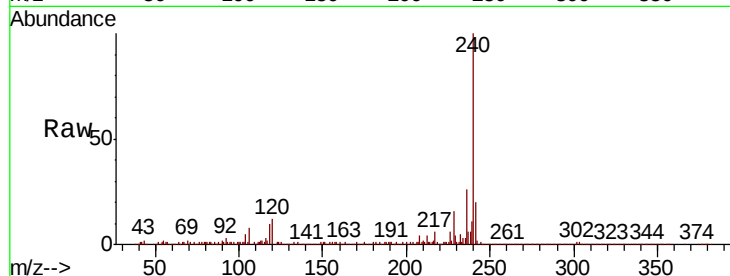




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.01 min Scan# 2061  
Delta R.T. -0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

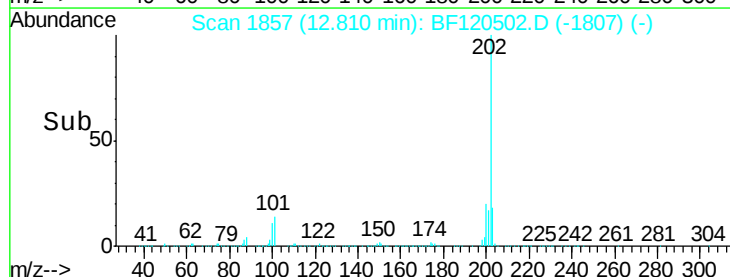
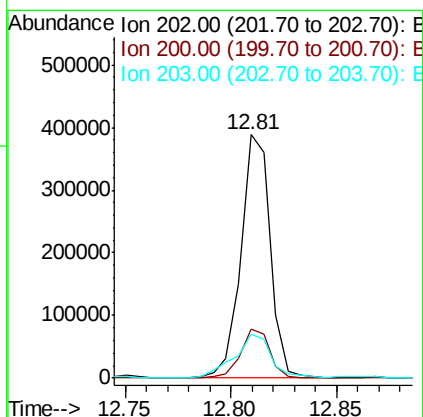
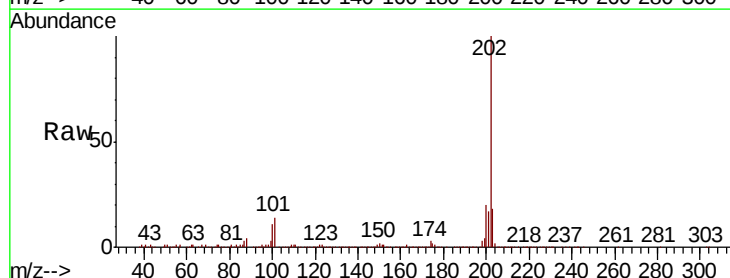
Instrument :  
BNA\_F  
ClientSampled :

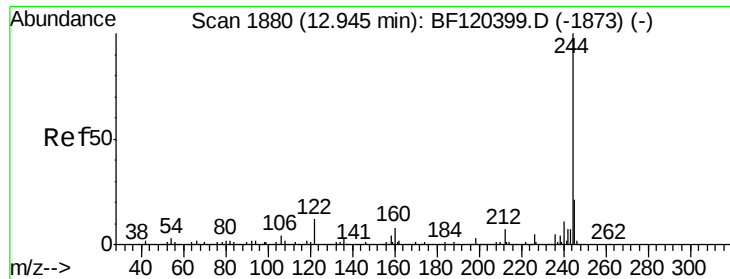
Tot Ion:240 Resp: 368118  
Ion Ratio Lower Upper  
240 100  
120 12.5 9.9 14.9  
236 25.9 21.0 31.6



#78  
Pyrene  
Concen: 14.521 ng  
RT: 12.81 min Scan# 1857  
Delta R.T. -0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

Tgt Ion:202 Resp: 371744  
Ion Ratio Lower Upper  
202 100  
200 19.9 17.0 25.6  
203 17.9 14.6 22.0





#79

Terphenyl-d14

Concen: 63.690 ng

RT: 12.96 min Scan# 1882

Delta R.T. -0.00 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

Instrument :

BNA\_F

ClientSampleId :

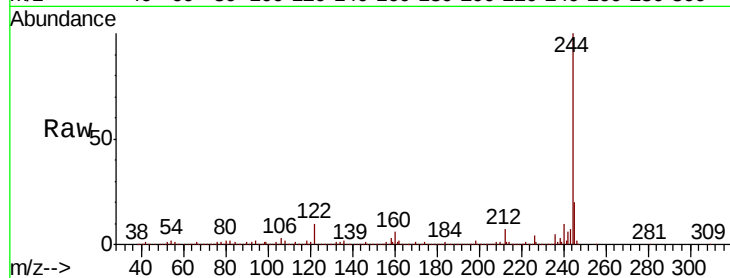
Tot Ion:244 Resp: 1053612

Ion Ratio Lower Upper

244 100

212 6.5 5.8 8.8

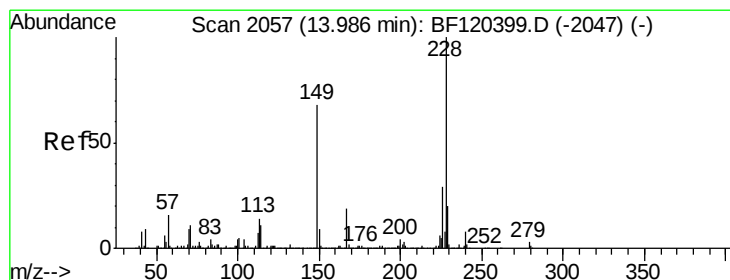
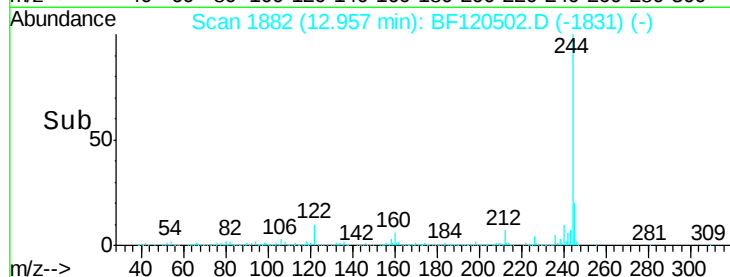
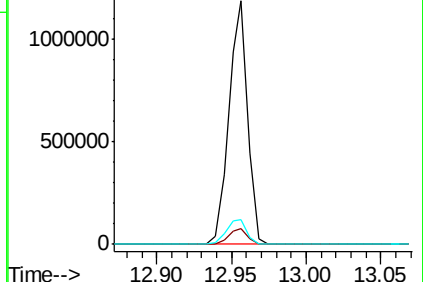
122 10.4 8.7 13.1



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: 10.101 ng

RT: 14.00 min Scan# 2059

Delta R.T. -0.01 min

Lab File: BF120502.D

Acq: 2 Jun 2020 18:35

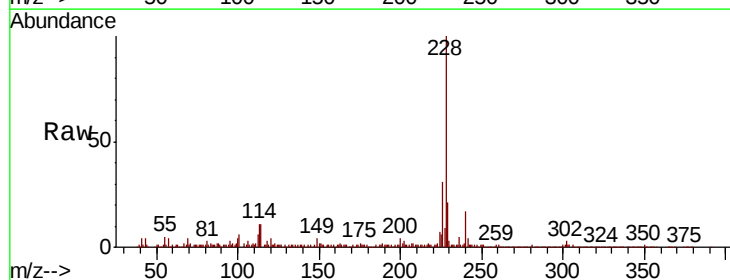
Tgt Ion:228 Resp: 199293

Ion Ratio Lower Upper

228 100

226 30.6 22.9 34.3

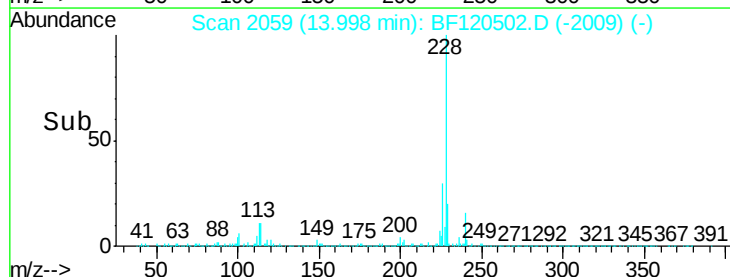
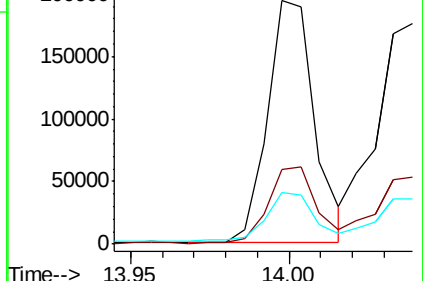
229 21.0 16.3 24.5

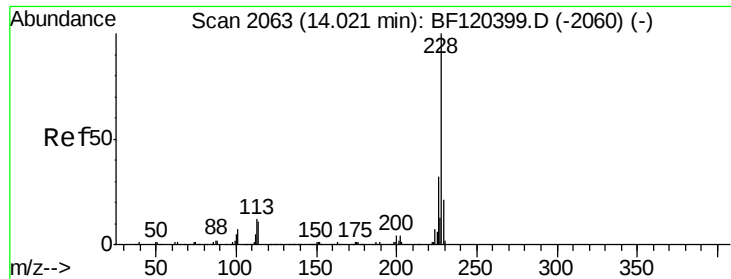


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

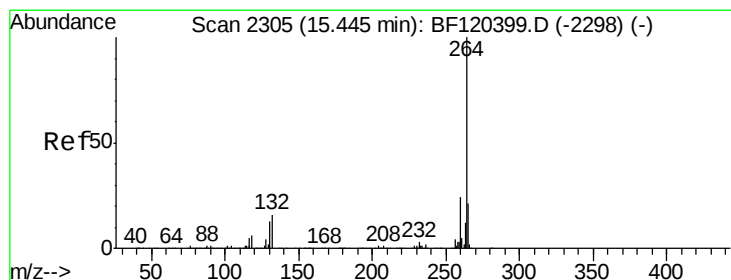
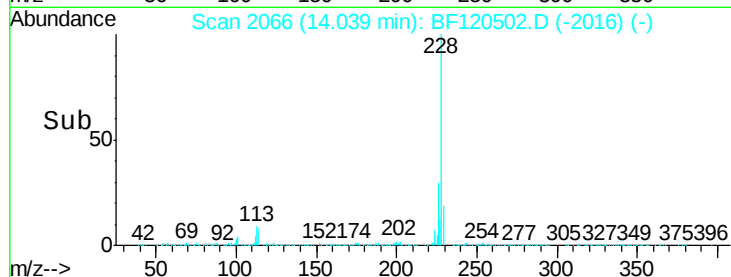
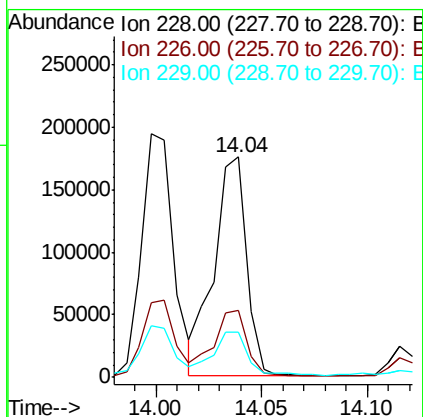
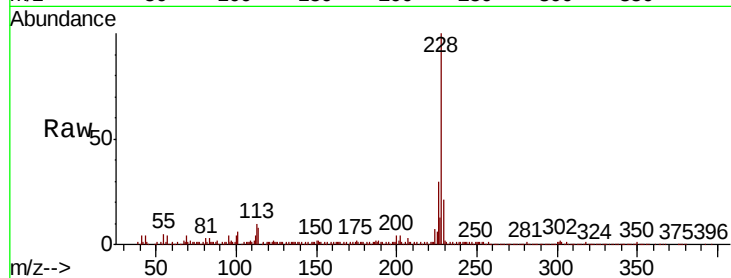




#83  
Chrysene  
Concen: 9.105 ng  
RT: 14.04 min Scan# 2066  
Delta R.T. -0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

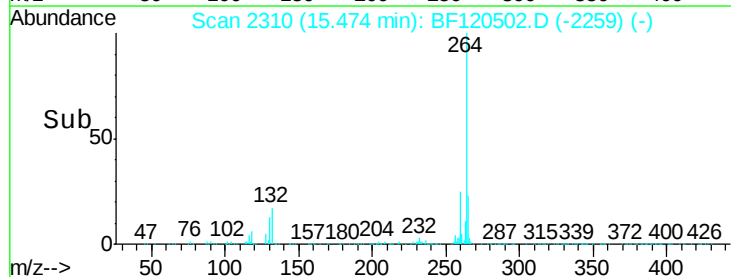
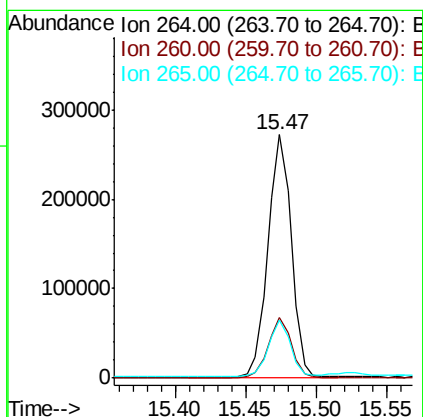
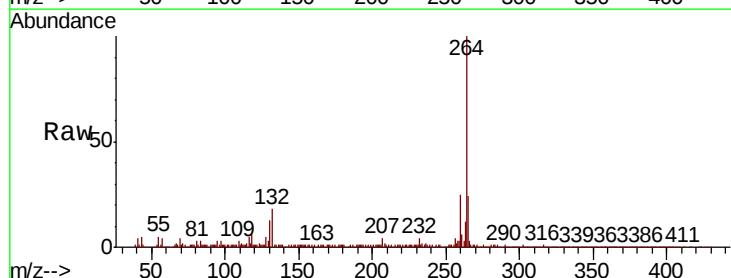
Instrument :  
BNA\_F  
ClientSampleId :

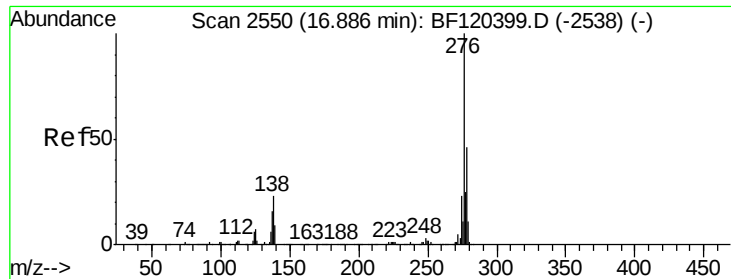
Tot Ion:228 Resp: 188318  
Ion Ratio Lower Upper  
228 100  
226 30.4 25.7 38.5  
229 20.6 16.4 24.6



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.47 min Scan# 2310  
Delta R.T. -0.00 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

Tgt Ion:264 Resp: 317484  
Ion Ratio Lower Upper  
264 100  
260 24.8 19.5 29.3  
265 23.6 17.6 26.4

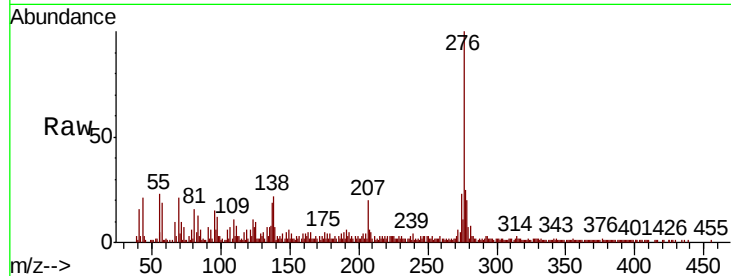




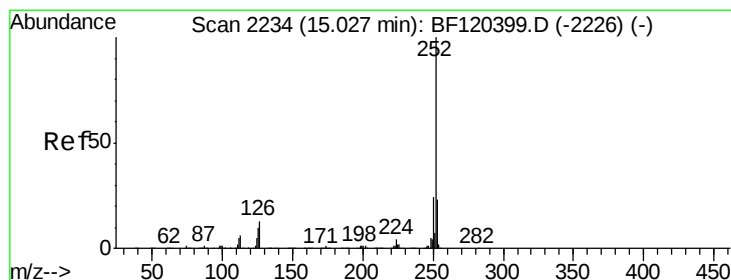
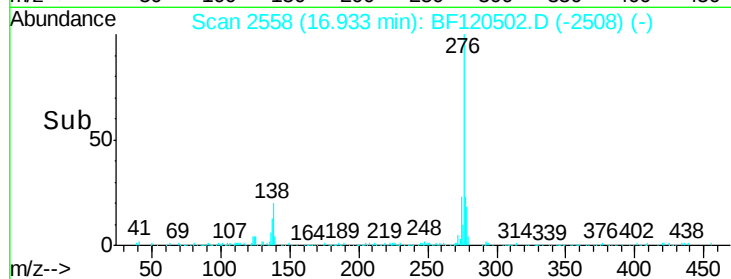
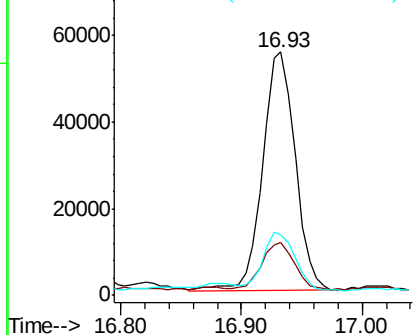
#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 5.939 ng  
 RT: 16.93 min Scan# 2558  
 Delta R.T. -0.01 min  
 Lab File: BF120502.D  
 Acq: 2 Jun 2020 18:35

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.3  | 19.3  | 28.9  |
| 277     | 24.8  | 20.7  | 31.1  |

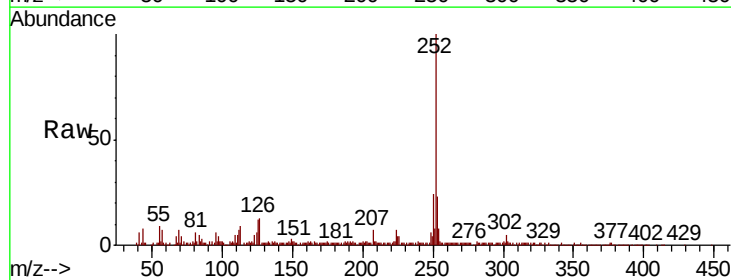


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

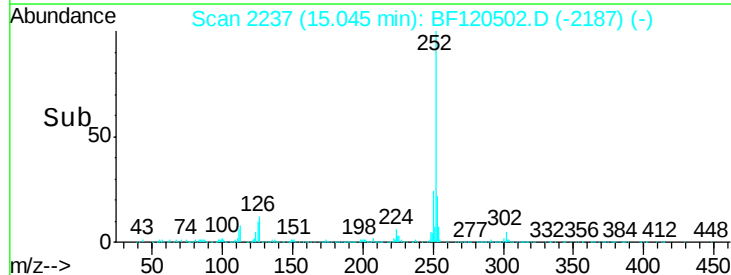
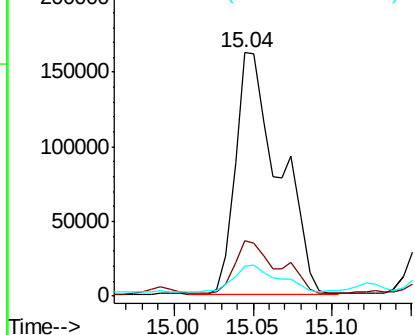


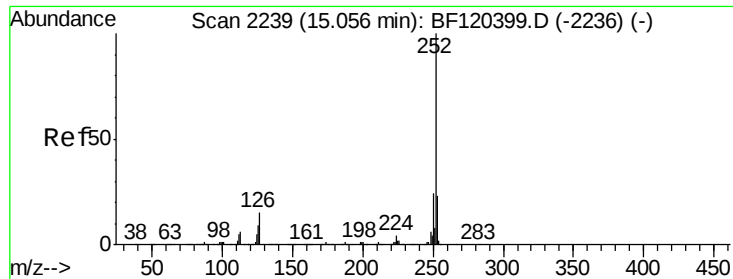
#88  
 Benzo(b)fluoranthene  
 Concen: 17.478 ng  
 RT: 15.04 min Scan# 2237  
 Delta R.T. -0.01 min  
 Lab File: BF120502.D  
 Acq: 2 Jun 2020 18:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 18.2  | 27.2  |
| 125     | 12.0  | 8.2   | 12.4  |



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

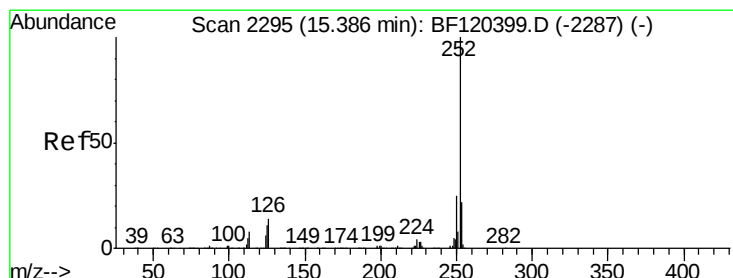
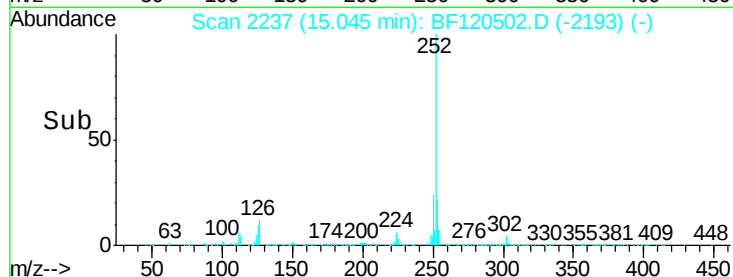
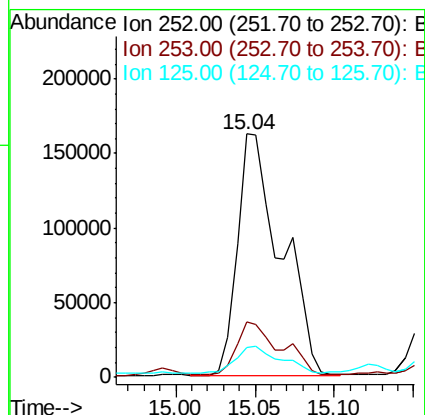
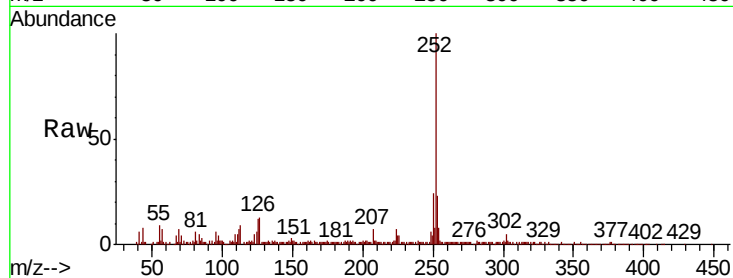




#89  
Benzo(k)fluoranthene  
Concen: 18.722 ng  
RT: 15.04 min Scan# 2237  
Delta R.T. -0.04 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

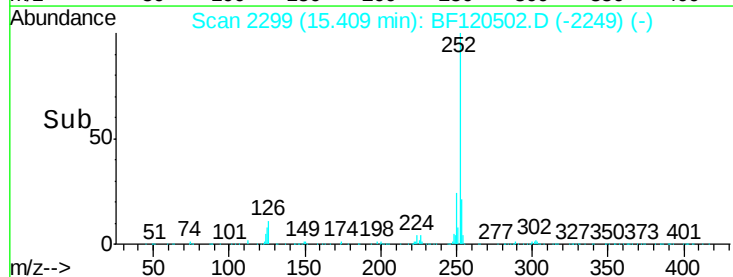
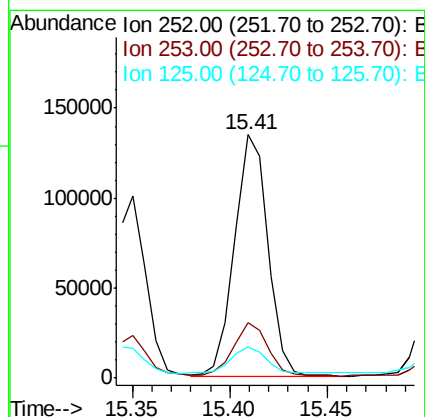
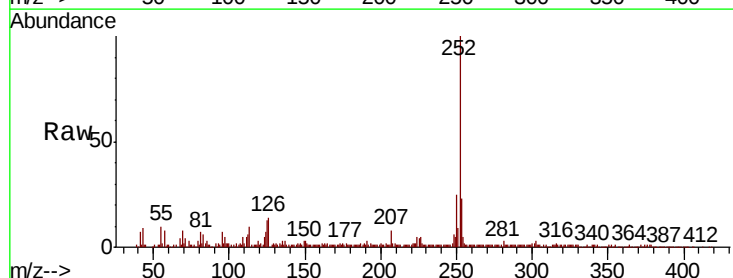
Instrument :  
BNA\_F  
ClientSampleId :

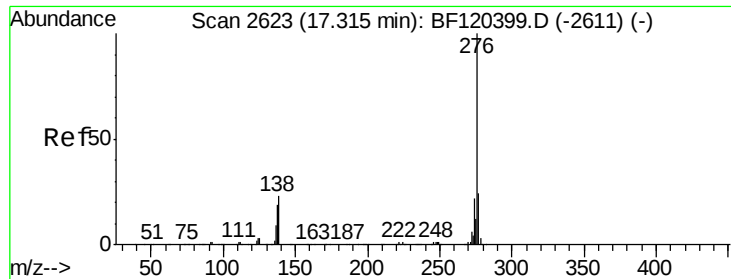
Tot Ion:252 Resp: 308206  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.8 26.6  
125 12.0 7.1 10.7#



#90  
Benzo(a)pyrene  
Concen: 10.295 ng  
RT: 15.41 min Scan# 2299  
Delta R.T. -0.01 min  
Lab File: BF120502.D  
Acq: 2 Jun 2020 18:35

Tgt Ion:252 Resp: 158796  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.9 26.9  
125 13.0 9.0 13.4

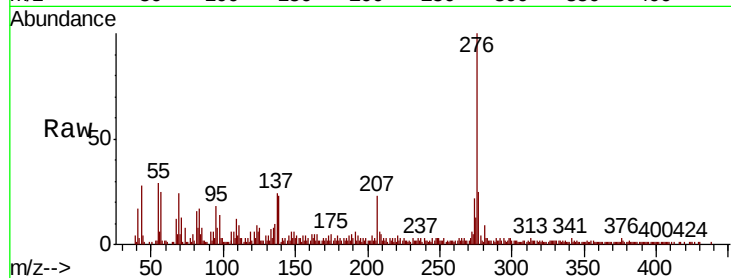




#92  
 Benzo(a,h,i)perylene  
 Concen: 6.968 ng  
 RT: 17.37 min Scan# 2633  
 Delta R.T. -0.01 min  
 Lab File: BF120502.D  
 Acq: 2 Jun 2020 18:35

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.0  | 18.8  | 28.2  |
| 138     | 22.6  | 16.8  | 25.2  |



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

