

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110618\  
 Data File : BF110523.D  
 Acq On : 6 Nov 2018 18:58  
 Operator : JU/SJ  
 Sample : J5826-03  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 07 08:44:29 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 01 16:06:12 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.95  | 152  | 83153    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.23  | 136  | 351032   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.99  | 164  | 177632   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.49 | 188  | 340924   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.13 | 240  | 174785   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.66 | 264  | 159143   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.57  | 112  | 465291   | 91.12 | ng    | 0.00     |
| 7) Phenol-d6                | 6.57  | 99   | 608165   | 93.12 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.52  | 82   | 386466   | 65.30 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.79 | 330  | 159966   | 90.91 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.31  | 172  | 746712   | 66.01 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.07 | 244  | 663688   | 78.97 | ng    | 0.00     |

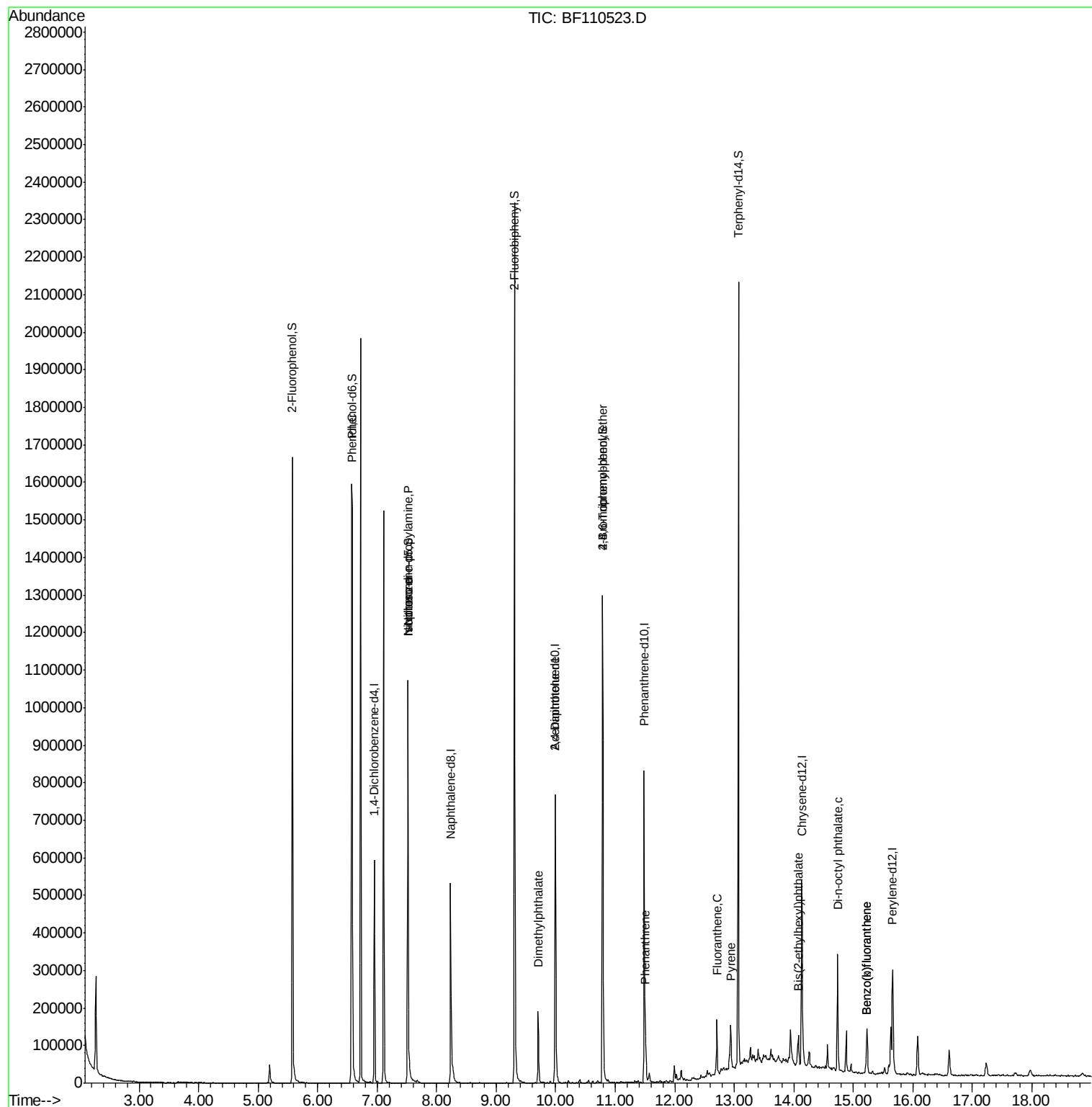
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.58  | 77   | 1106     | Below Cal | #     | 1      |
| 10) Phenol                     | 6.59  | 94   | 38818    | 5.56      | ng    | 73     |
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70   | 51066    | 12.19     | ng    | 79     |
| 25) Isophorone                 | 7.52  | 82   | 386466   | 38.31     | ng    | 67     |
| 50) Dimethylphthalate          | 9.70  | 163  | 102078   | 7.78      | ng    | 99     |
| 57) 2,4-Dinitrotoluene         | 9.99  | 165  | 21995    | 6.13      | ng    | 17     |
| 67) 4-Bromophenyl-phenylether  | 10.79 | 248  | 10523    | 2.85      | ng    | 1      |
| 71) Phenanthrene               | 11.51 | 178  | 46394    | 2.60      | ng    | 98     |
| 75) Fluoranthene               | 12.70 | 202  | 60047    | 3.32      | ng    | 99     |
| 78) Pyrene                     | 12.94 | 202  | 51176    | 4.08      | ng    | 99     |
| 84) Bis(2-ethylhexyl)phthalate | 14.08 | 149  | 44192    | 6.01      | ng    | 92     |
| 85) Di-n-octyl phthalate       | 14.73 | 149  | 29432    | 2.57      | ng    | 44     |
| 88) Benzo(b)fluoranthene       | 15.21 | 252  | 23412    | 2.55      | ng    | 92     |
| 89) Benzo(k)fluoranthene       | 15.21 | 252  | 23412    | 2.59      | ng    | 91     |

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

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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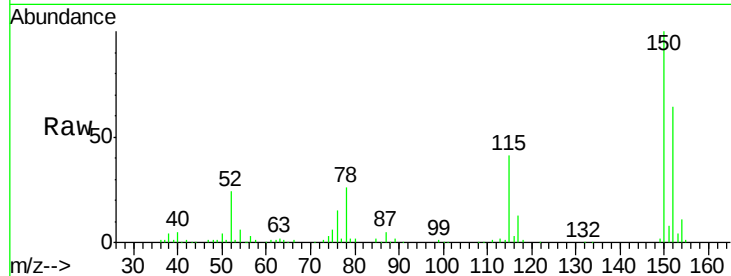


#1

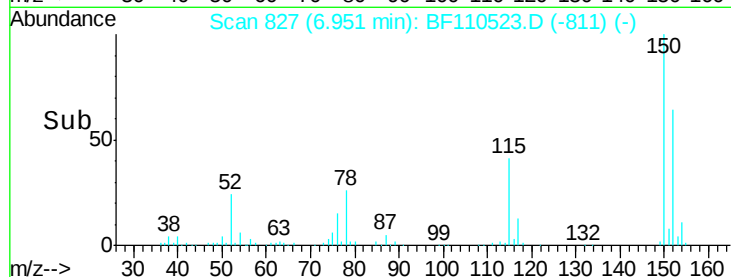
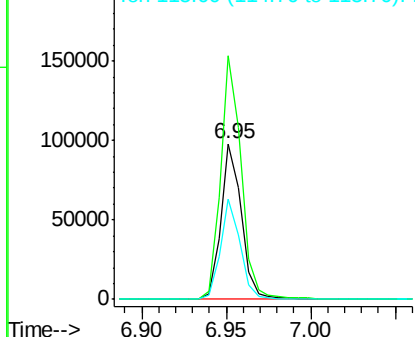
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.95 min Scan# 827  
Delta R.T. -0.01 min  
Lab File: BF110523.D  
Acq: 6 Nov 2018 18:58

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 83153  
Ion Ratio Lower Upper  
152 100  
150 156.4 122.7 184.1  
115 64.3 49.1 73.7



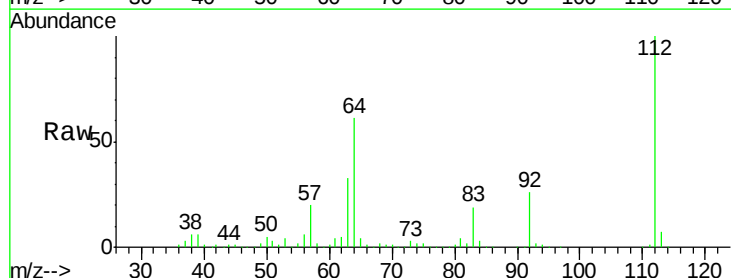
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



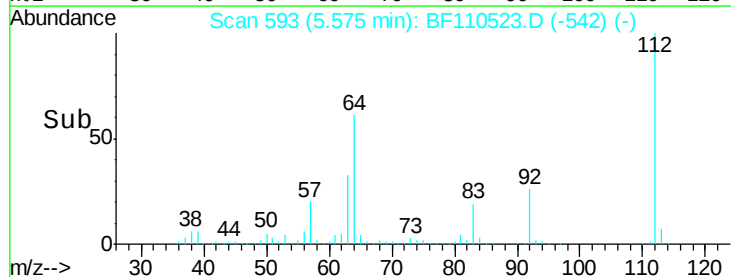
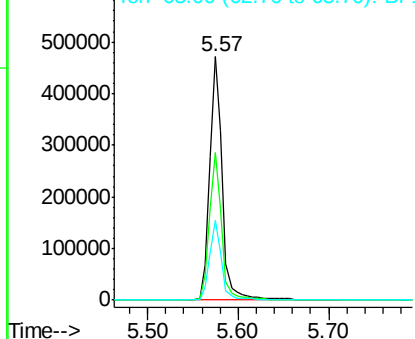
#5

2-Fluorophenol  
Concen: 91.12 ng  
RT: 5.57 min Scan# 593  
Delta R.T. 0.00 min  
Lab File: BF110523.D  
Acq: 6 Nov 2018 18:58

Tgt Ion:112 Resp: 465291  
Ion Ratio Lower Upper  
112 100  
64 60.6 44.1 66.1  
63 33.0 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: 93.12 ng

RT: 6.57 min Scan# 763

Delta R.T. -0.01 min

Lab File: BF110523.D

Acq: 6 Nov 2018 18:58

Instrument :

BNA\_F

ClientSampleId :

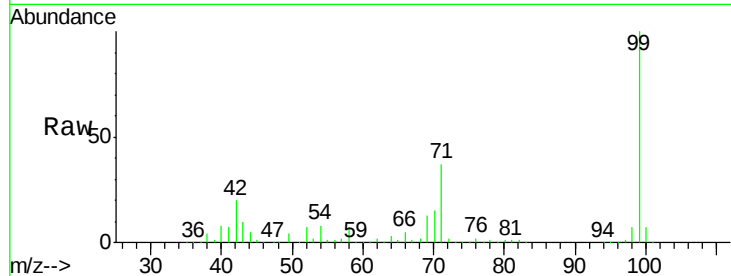
Tot Ion: 99 Resp: 608165

Ion Ratio Lower Upper

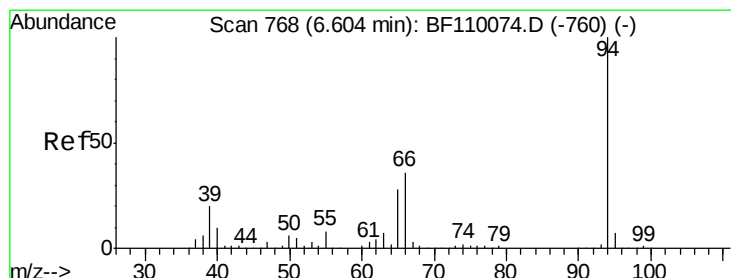
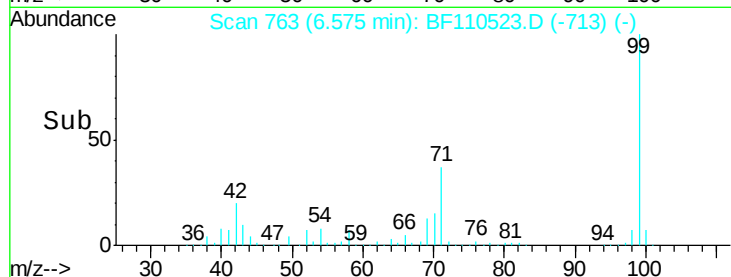
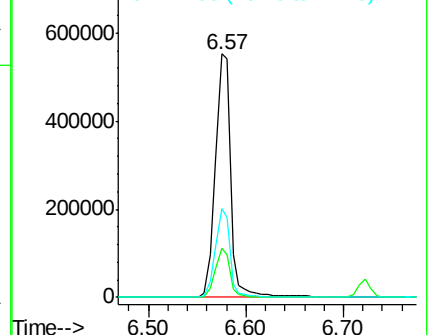
99 100

42 20.0 15.8 23.6

71 36.5 28.0 42.0



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



#10

Phenol

Concen: 5.56 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF110523.D

Acq: 6 Nov 2018 18:58

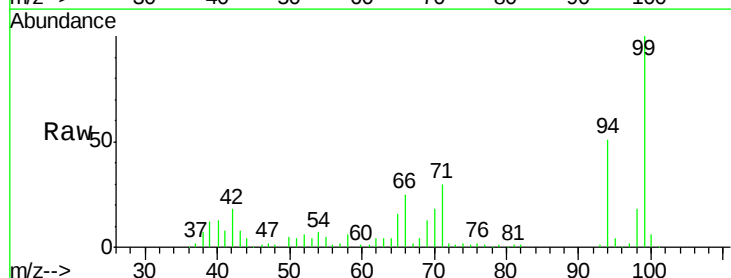
Tgt Ion: 94 Resp: 38818

Ion Ratio Lower Upper

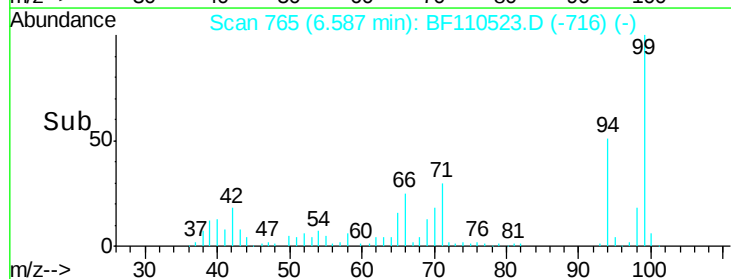
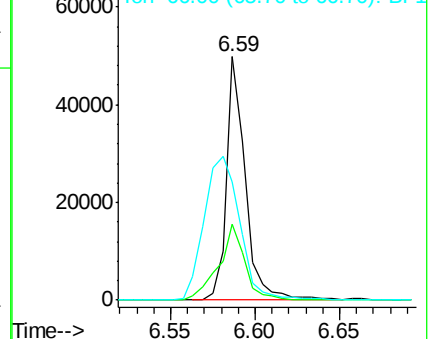
94 100

65 31.2 25.3 65.3

66 48.6 54.5 94.5#



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1

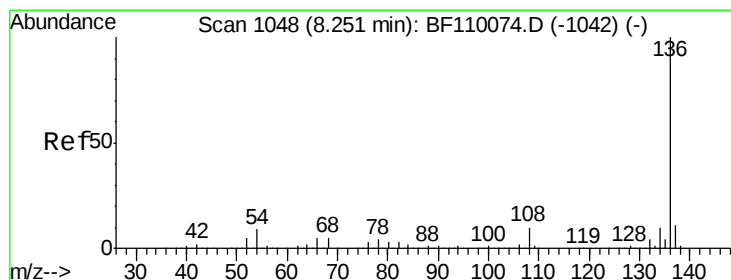
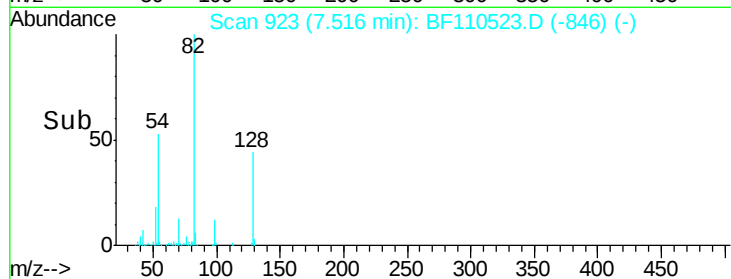
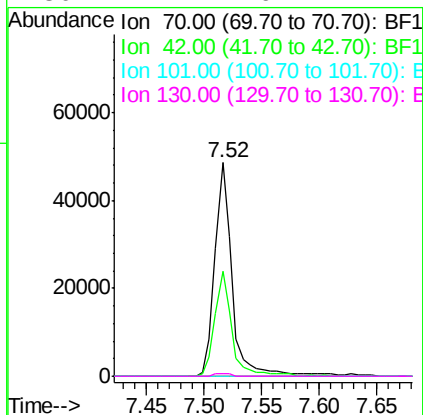
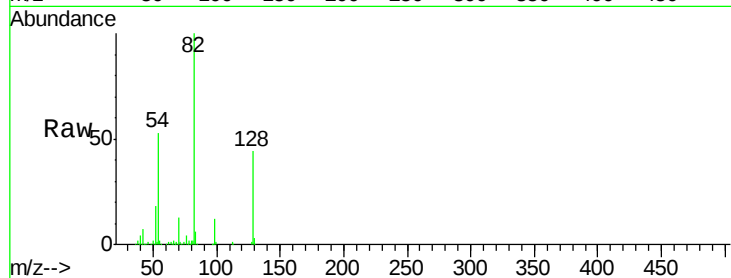




#19  
n-Nitroso-di-n-propylamine  
Concen: 12.19 ng  
RT: 7.52 min Scan# 923  
Delta R.T. 0.15 min  
Lab File: BF110523.D  
Acq: 6 Nov 2018 18:58

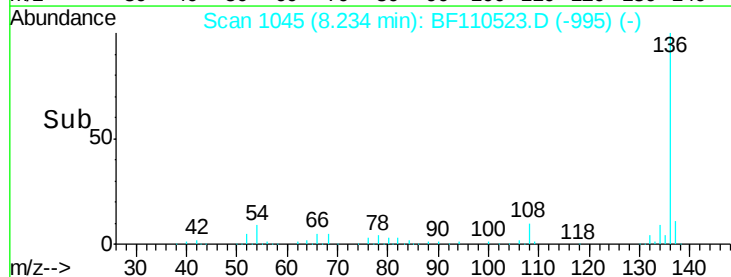
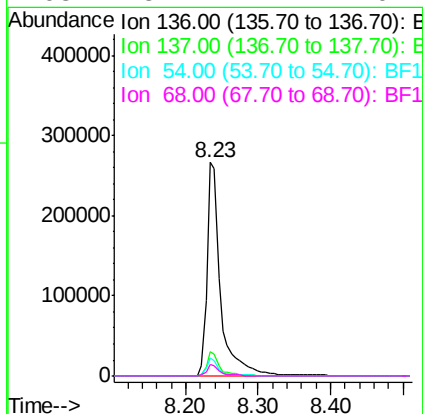
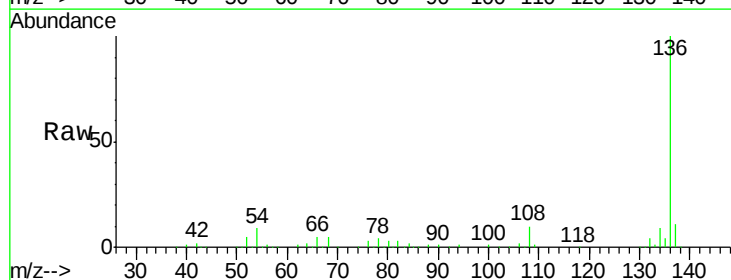
Instrument :  
BNA\_F  
ClientSampleId :

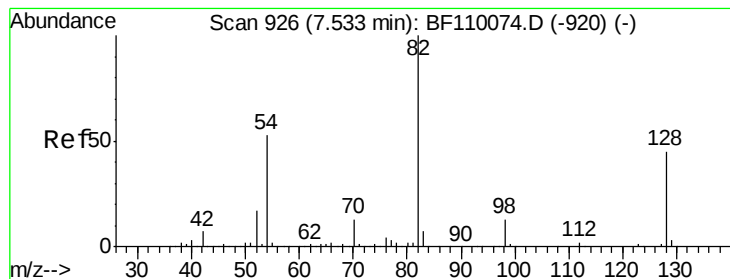
Tot Ion: 70 Resp: 51066  
Ion Ratio Lower Upper  
70 100  
42 49.4 47.4 71.2  
101 0.0 7.3 10.9#  
130 1.4 16.2 24.2#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.23 min Scan# 1045  
Delta R.T. -0.01 min  
Lab File: BF110523.D  
Acq: 6 Nov 2018 18:58

Tgt Ion: 136 Resp: 351032  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.8 13.2  
54 8.5 5.4 8.2#  
68 5.4 4.2 6.2





#23

Nitrobenzene-d5

Concen: 65.30 ng

RT: 7.52 min Scan# 923

Delta R.T. -0.01 min

Lab File: BF110523.D

Acq: 6 Nov 2018 18:58

Instrument :

BNA\_F

ClientSampled :

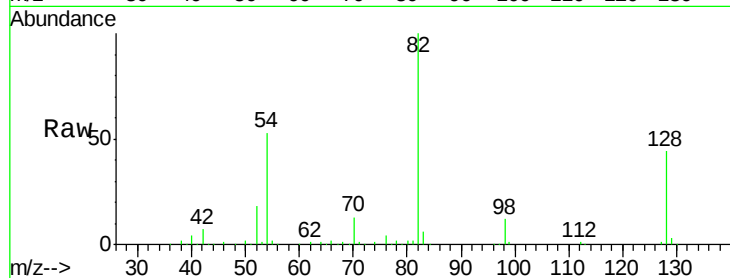
Tot Ion: 82 Resp: 386466

Ion Ratio Lower Upper

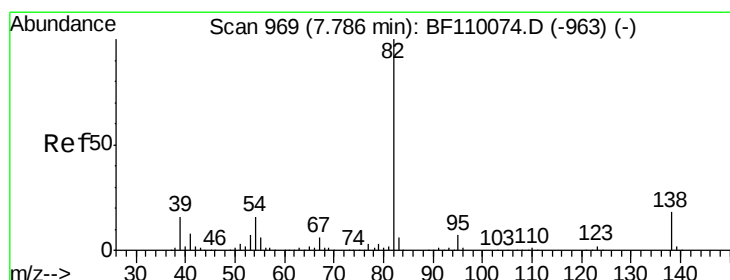
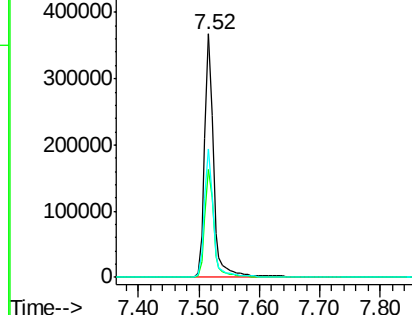
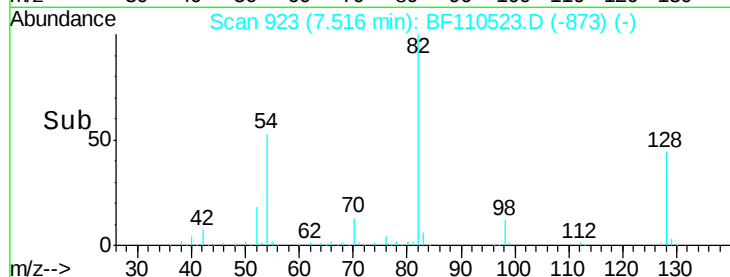
82 100

128 44.1 34.2 51.2

54 53.0 38.6 58.0



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: 38.31 ng

RT: 7.52 min Scan# 923

Delta R.T. -0.26 min

Lab File: BF110523.D

Acq: 6 Nov 2018 18:58

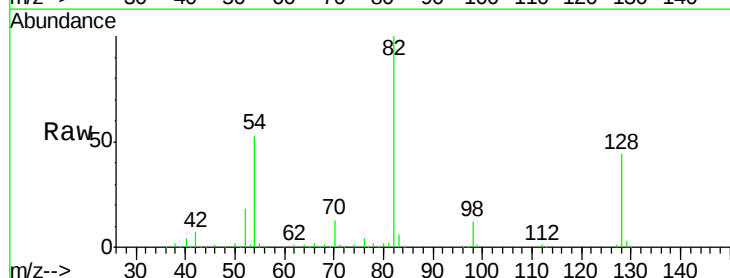
Tgt Ion: 82 Resp: 386466

Ion Ratio Lower Upper

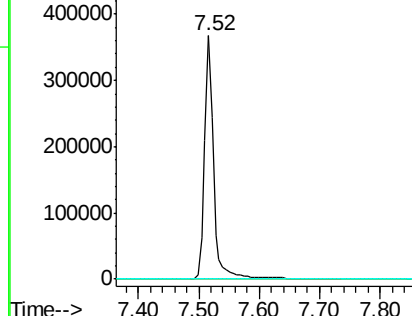
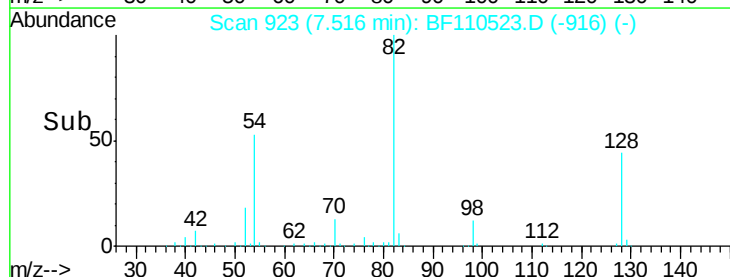
82 100

95 0.0 5.7 8.5#

138 0.0 13.2 19.8#



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

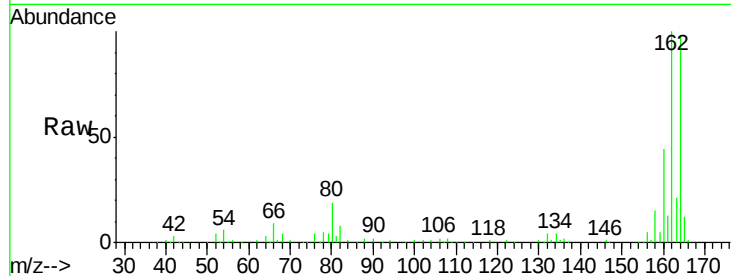




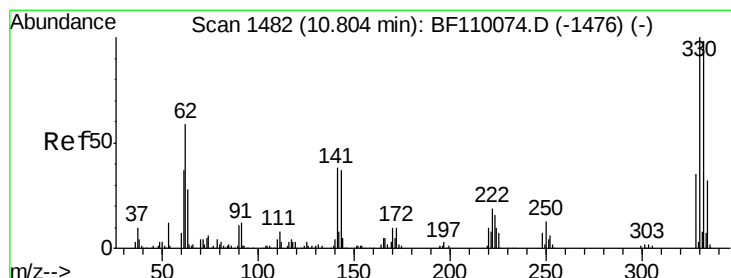
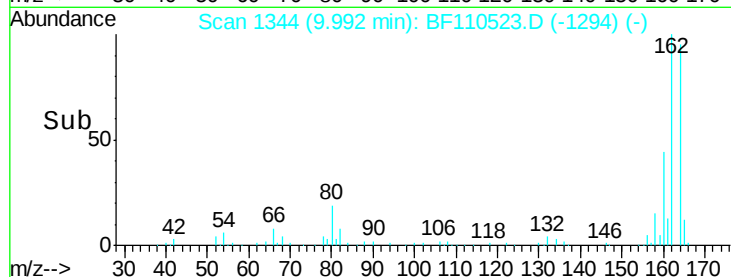
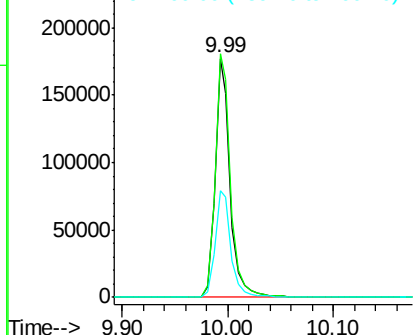
#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.99 min Scan# 1344  
Delta R.T. -0.01 min  
Lab File: BF110523.D  
Acq: 6 Nov 2018 18:58

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 177632  
Ion Ratio Lower Upper  
164 100  
162 102.0 83.0 124.6  
160 44.9 37.0 55.6

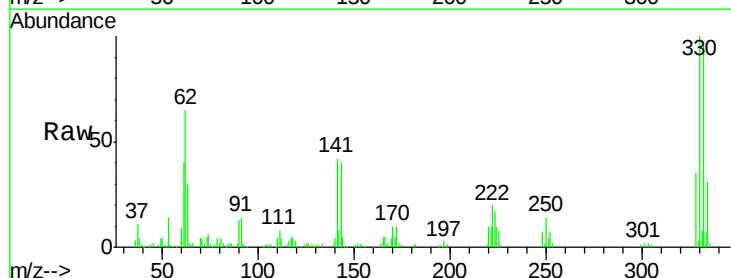


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

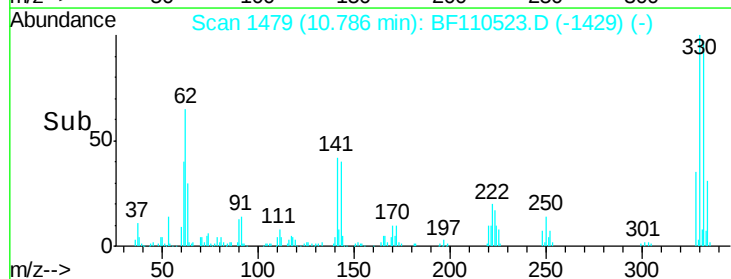
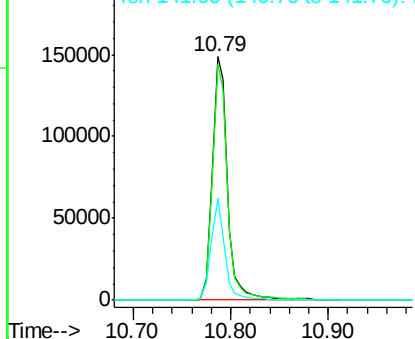


#42  
2,4,6-Tribromophenol  
Concen: 90.91 ng  
RT: 10.79 min Scan# 1479  
Delta R.T. -0.01 min  
Lab File: BF110523.D  
Acq: 6 Nov 2018 18:58

Tgt Ion:330 Resp: 159966  
Ion Ratio Lower Upper  
330 100  
332 96.6 77.1 115.7  
141 38.0 27.0 40.4



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

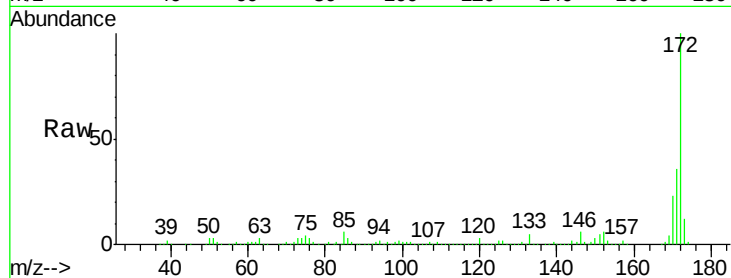




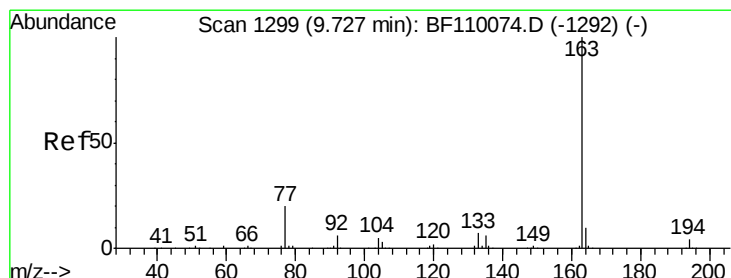
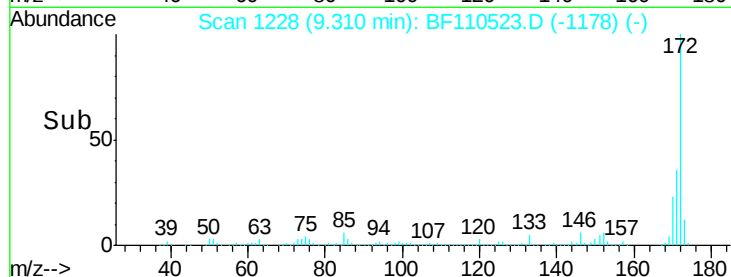
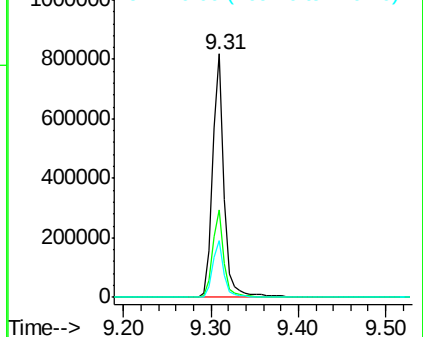
#45  
2-Fluorobiphenyl  
Concen: 66.01 ng  
RT: 9.31 min Scan# 1228  
Delta R.T. -0.01 min  
Lab File: BF110523.D  
Acq: 6 Nov 2018 18:58

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:172 Resp: 746712  
Ion Ratio Lower Upper  
172 100  
171 35.9 28.6 43.0  
170 23.4 19.7 29.5

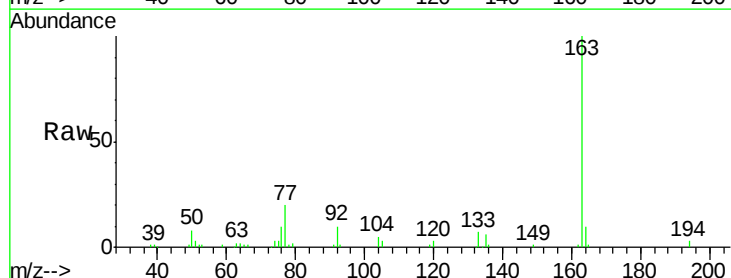


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

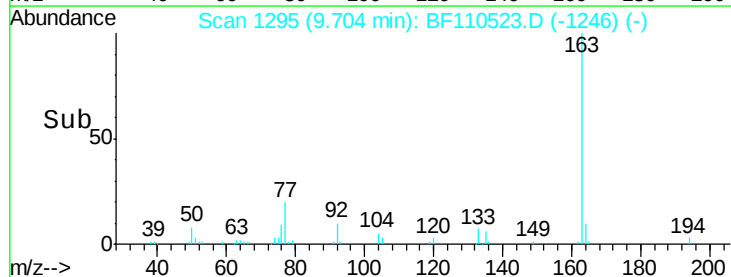
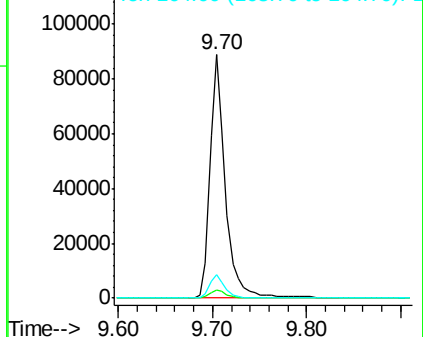


#50  
Dimethylphthalate  
Concen: 7.78 ng  
RT: 9.70 min Scan# 1295  
Delta R.T. -0.01 min  
Lab File: BF110523.D  
Acq: 6 Nov 2018 18:58

Tgt Ion:163 Resp: 102078  
Ion Ratio Lower Upper  
163 100  
194 3.5 3.2 4.8  
164 9.8 8.1 12.1



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

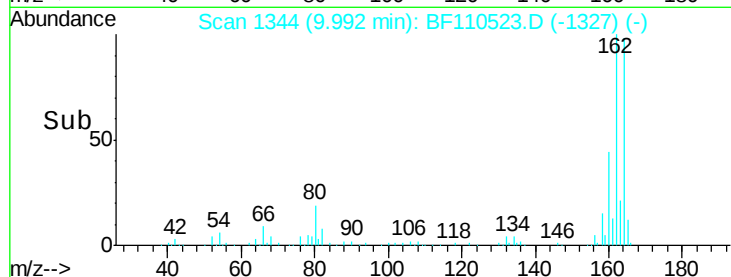
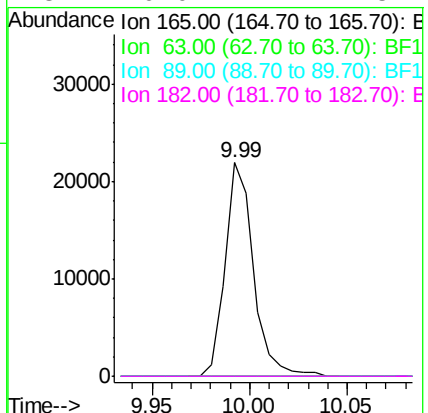
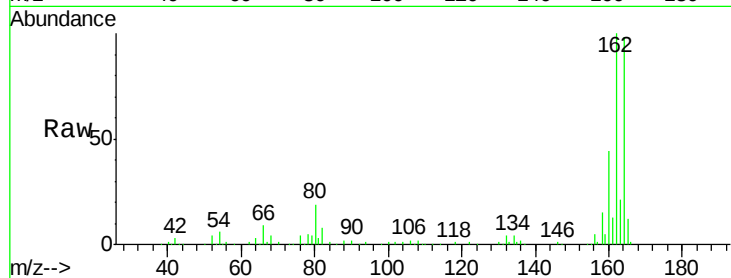




#57  
2,4-Dinitrotoluene  
Concen: 6.13 ng  
RT: 9.99 min Scan# 1344  
Delta R.T. -0.20 min  
Lab File: BF110523.D  
Acq: 6 Nov 2018 18:58

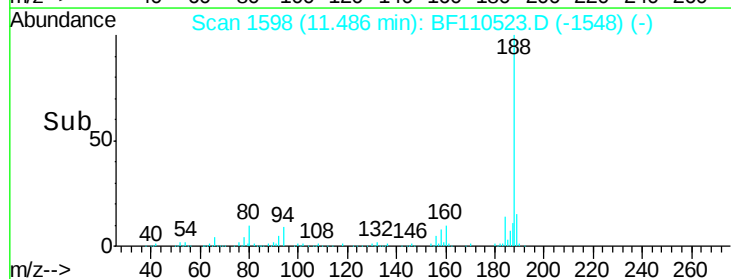
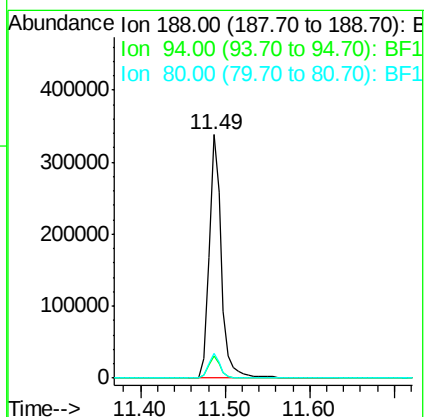
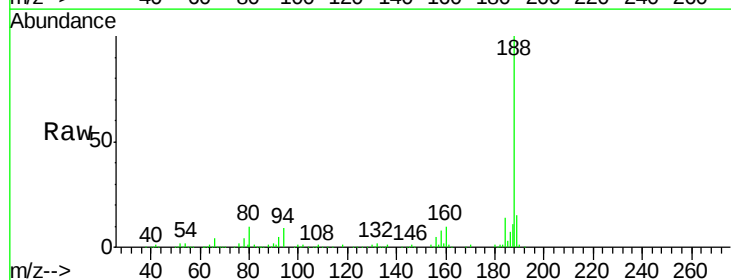
Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 21995 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 44.8  | 67.2# |
| 89       | 0.0   | 62.2  | 93.4# |
| 182      | 0.0   | 2.1   | 3.1#  |



#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.49 min Scan# 1598  
Delta R.T. -0.01 min  
Lab File: BF110523.D  
Acq: 6 Nov 2018 18:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 340924 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 9.1   | 7.2   | 10.8   |
| 80       | 10.2  | 7.9   | 11.9   |

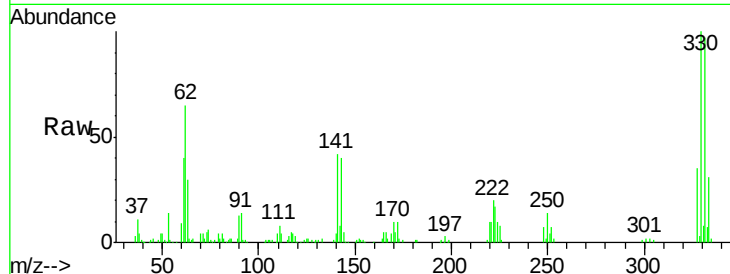




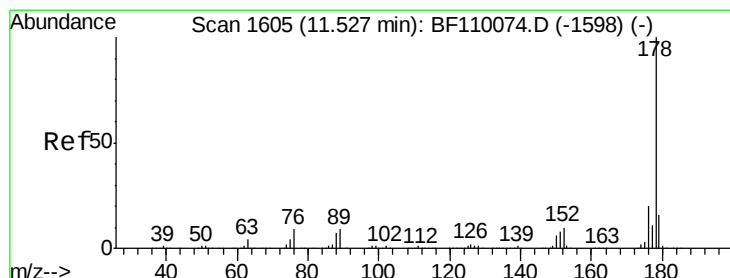
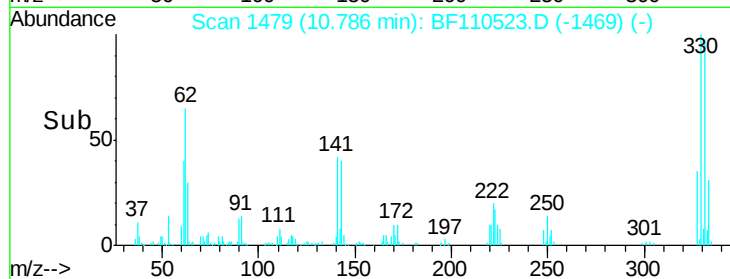
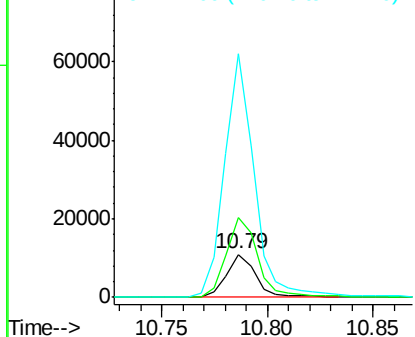
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.85 ng  
 RT: 10.79 min Scan# 1479  
 Delta R.T. -0.24 min  
 Lab File: BF110523.D  
 Acq: 6 Nov 2018 18:58

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 10523  
 Ion Ratio Lower Upper  
 248 100  
 250 186.3 79.4 119.2#  
 141 566.9 55.9 83.9#

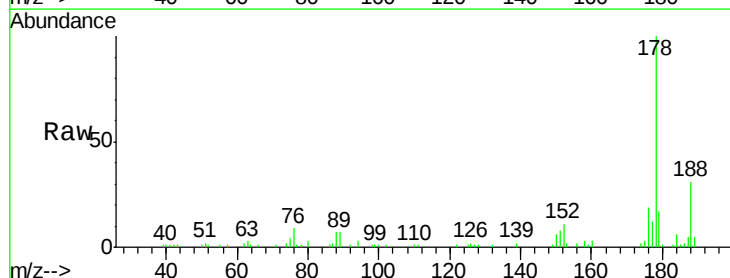


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

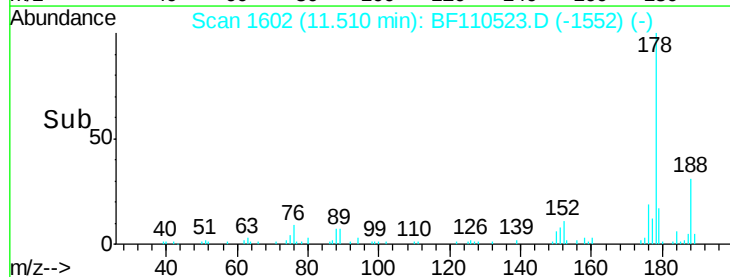
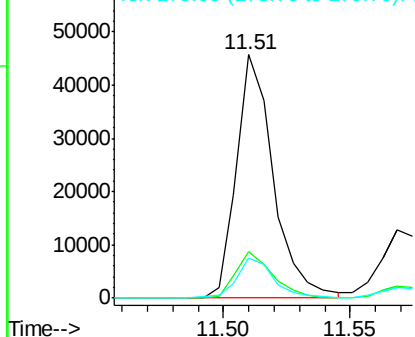


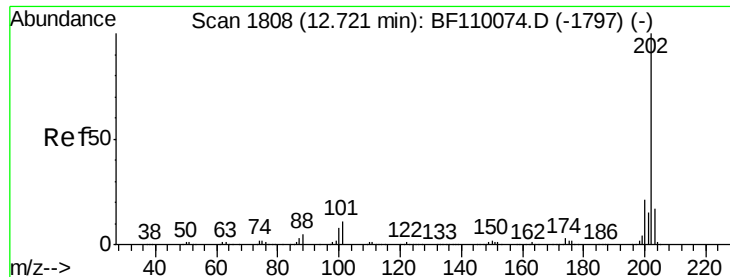
#71  
 Phenanthrene  
 Concen: 2.60 ng  
 RT: 11.51 min Scan# 1602  
 Delta R.T. -0.01 min  
 Lab File: BF110523.D  
 Acq: 6 Nov 2018 18:58

Tgt Ion:178 Resp: 46394  
 Ion Ratio Lower Upper  
 178 100  
 176 18.9 15.5 23.3  
 179 16.6 12.5 18.7



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: 3.32 ng

RT: 12.70 min Scan# 1805

Delta R.T. -0.01 min

Lab File: BF110523.D

Acq: 6 Nov 2018 18:58

Instrument :

BNA\_F

ClientSampleId :

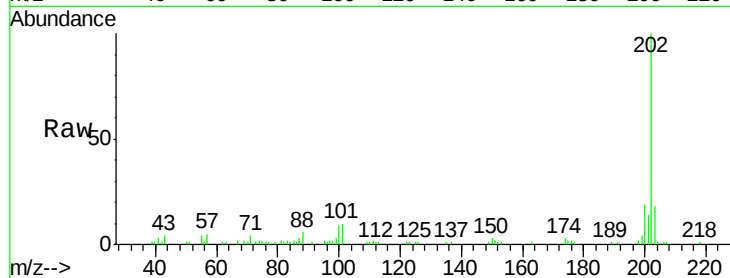
Tot Ion:202 Resp: 60047

Ion Ratio Lower Upper

202 100

101 10.2 0.0 31.4

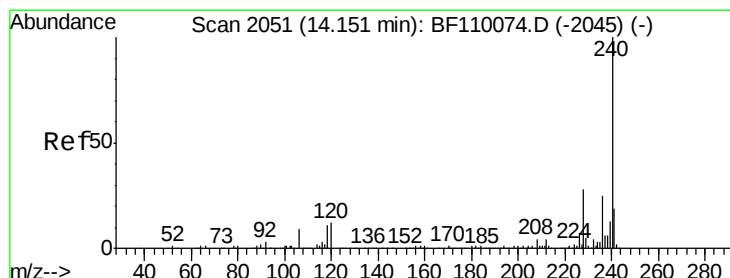
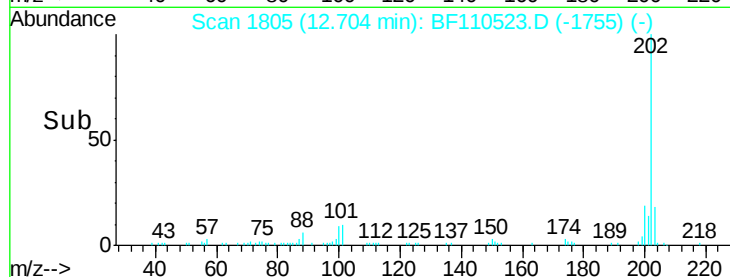
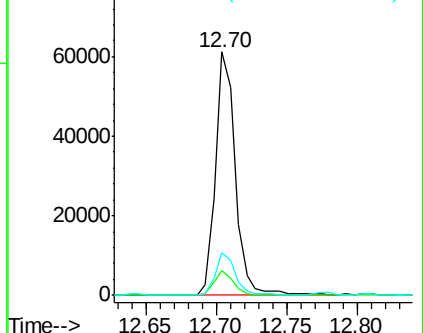
203 17.8 0.0 37.7



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: 20.00 ng

RT: 14.13 min Scan# 2048

Delta R.T. -0.01 min

Lab File: BF110523.D

Acq: 6 Nov 2018 18:58

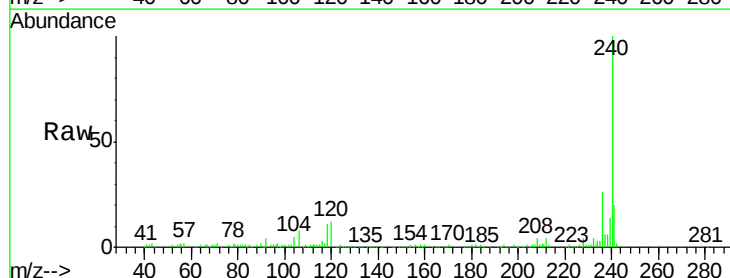
Tgt Ion:240 Resp: 174785

Ion Ratio Lower Upper

240 100

120 11.5 8.3 12.5

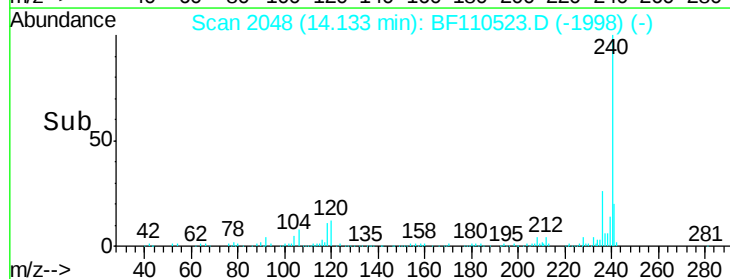
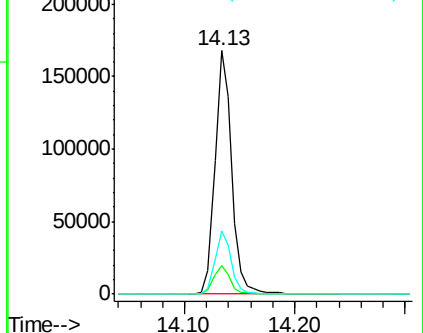
236 25.7 21.2 31.8

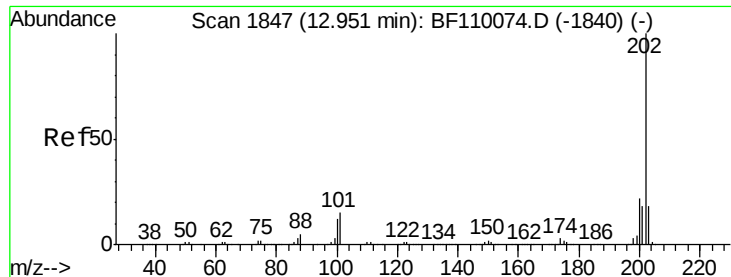


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

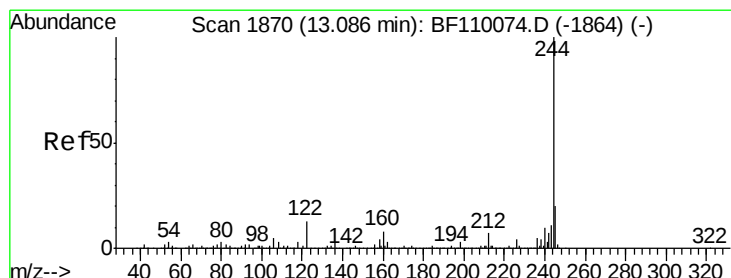
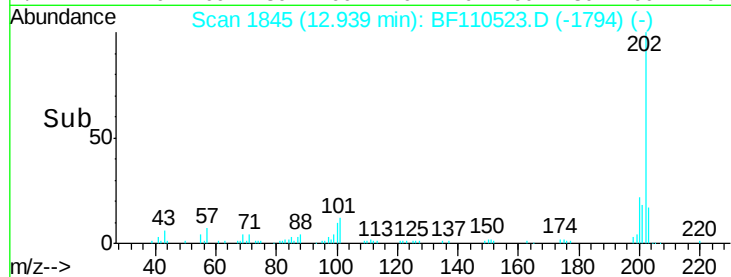
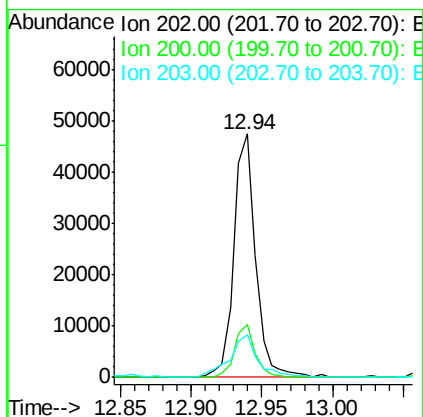
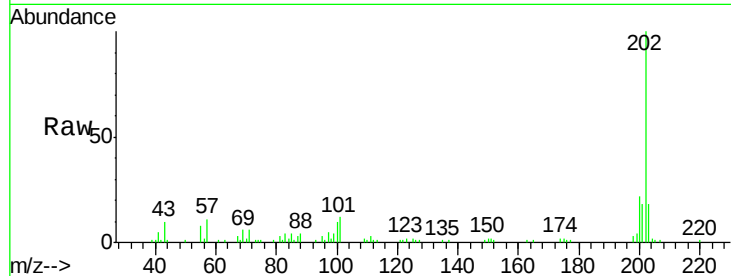




#78  
Pvrene  
Concen: 4.08 ng  
RT: 12.94 min Scan# 1845  
Delta R.T. 0.00 min  
Lab File: BF110523.D  
Acq: 6 Nov 2018 18:58

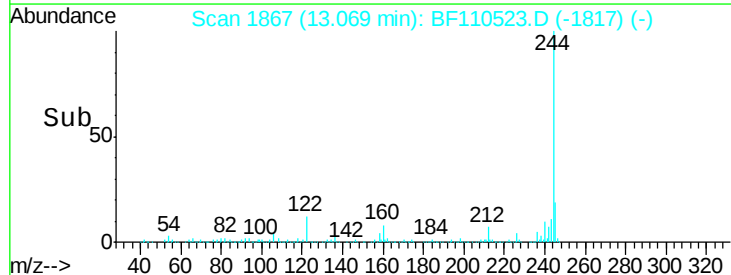
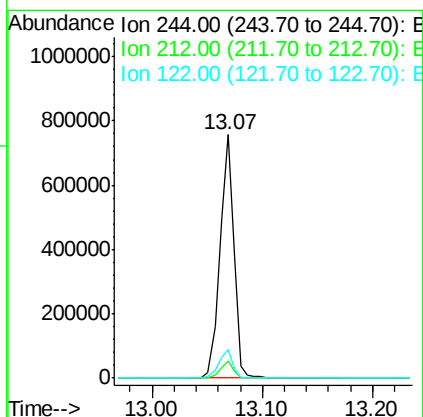
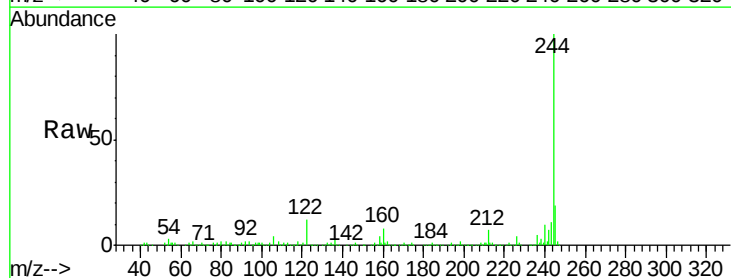
Instrument :  
BNA\_F  
ClientSampleId :

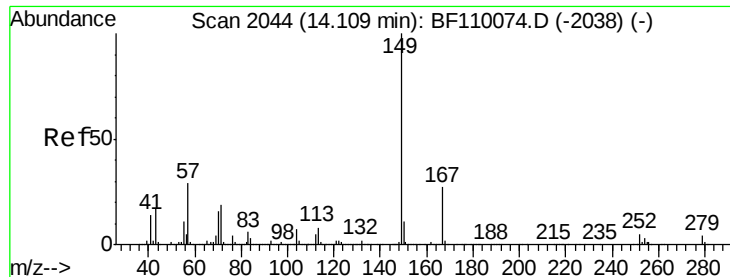
Tot Ion:202 Resp: 51176  
Ion Ratio Lower Upper  
202 100  
200 21.8 17.8 26.6  
203 17.7 14.2 21.4



#79  
Terphenyl-d14  
Concen: 78.97 ng  
RT: 13.07 min Scan# 1867  
Delta R.T. -0.01 min  
Lab File: BF110523.D  
Acq: 6 Nov 2018 18:58

Tgt Ion:244 Resp: 663688  
Ion Ratio Lower Upper  
244 100  
212 6.8 5.8 8.8  
122 11.9 8.7 13.1





#84

Bis(2-ethylhexyl)phthalate

Concen: 6.01 ng

RT: 14.08 min Scan# 2039

Delta R.T. -0.01 min

Lab File: BF110523.D

Acq: 6 Nov 2018 18:58

Instrument :

BNA\_F

ClientSampleId :

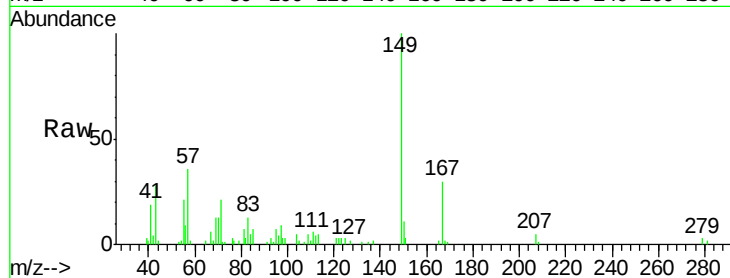
Tot Ion:149 Resp: 44192

Ion Ratio Lower Upper

149 100

167 29.5 19.8 29.8

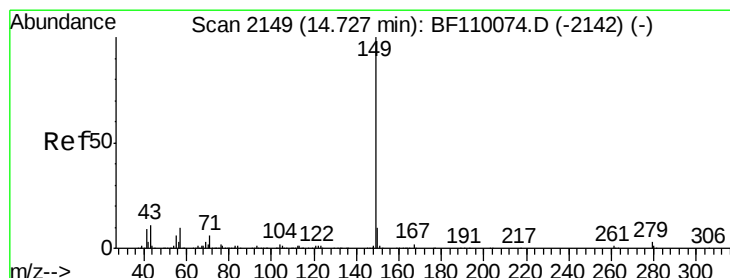
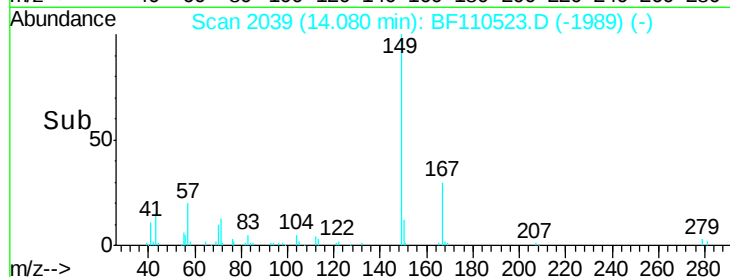
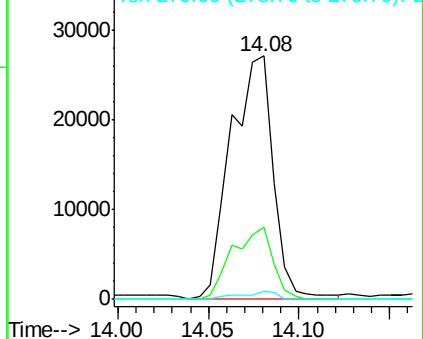
279 3.4 2.7 4.1



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Di-n-octyl phthalate

Concen: 2.57 ng

RT: 14.73 min Scan# 2150

Delta R.T. 0.03 min

Lab File: BF110523.D

Acq: 6 Nov 2018 18:58

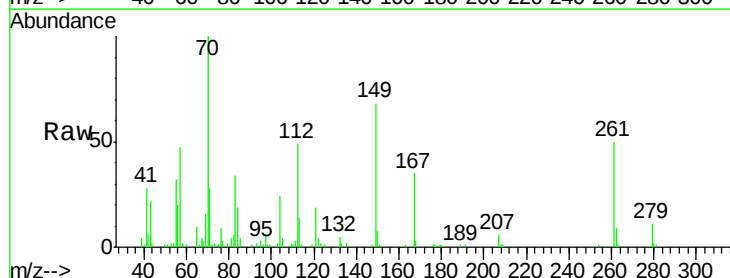
Tgt Ion:149 Resp: 29432

Ion Ratio Lower Upper

149 100

167 48.1 1.1 1.7#

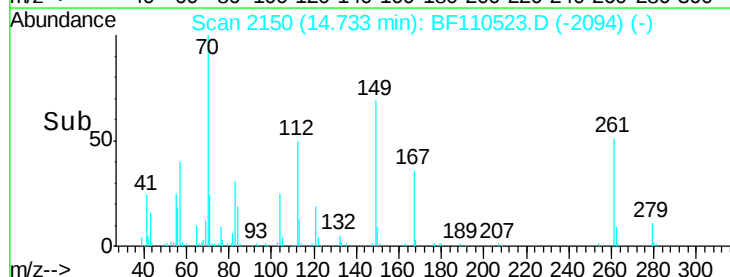
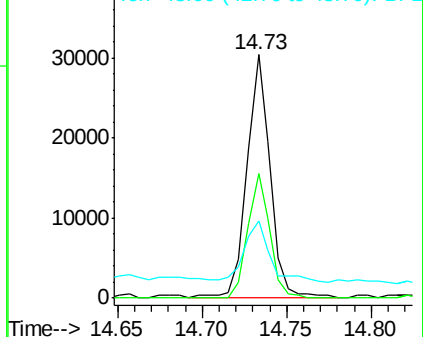
43 27.1 7.8 11.8#

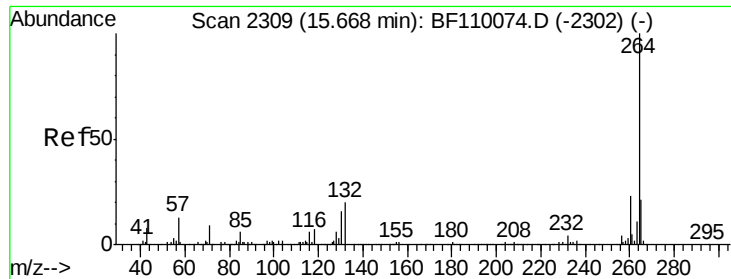


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF1

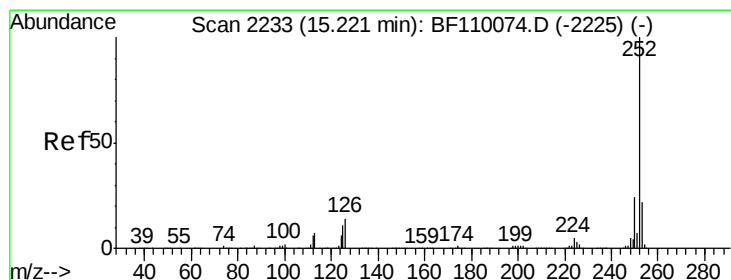
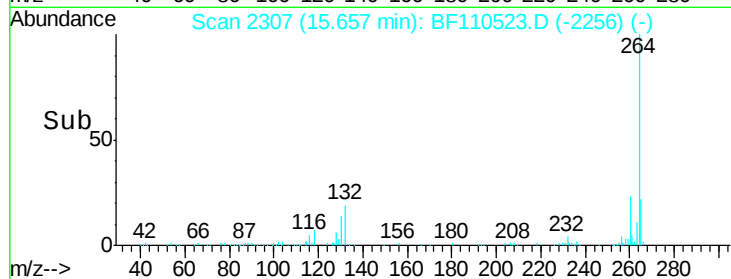
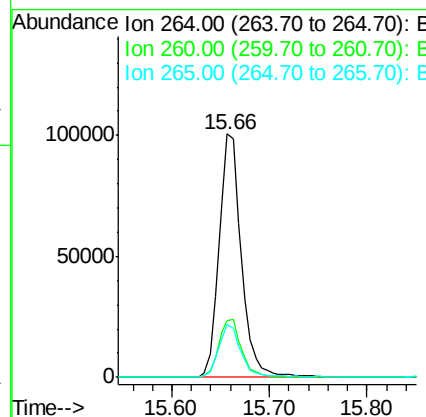
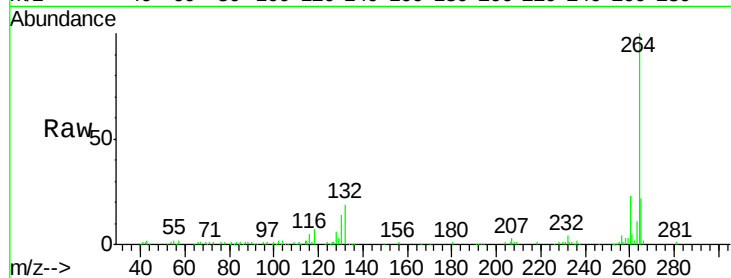




#87  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.66 min Scan# 2307  
Delta R.T. 0.00 min  
Lab File: BF110523.D  
Acq: 6 Nov 2018 18:58

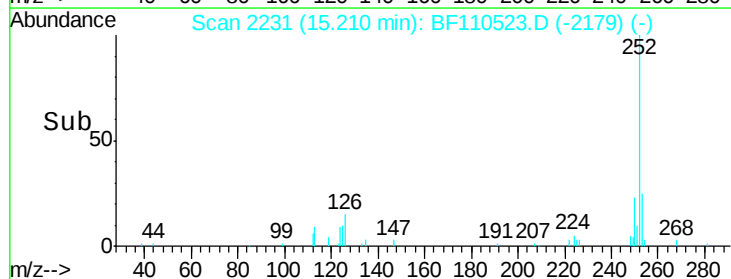
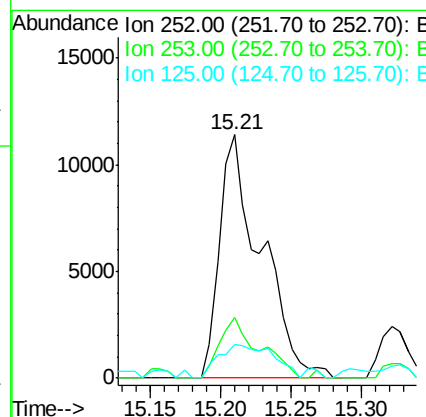
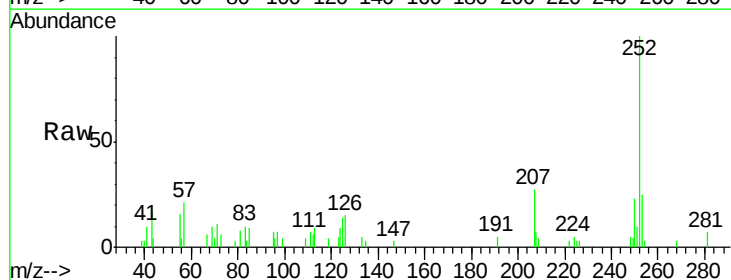
Instrument :  
BNA\_F  
ClientSampleId :

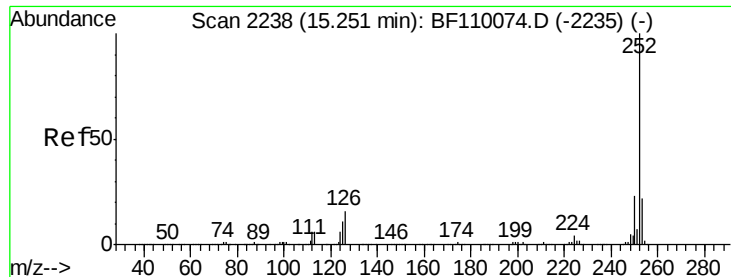
Tot Ion:264 Resp: 159143  
Ion Ratio Lower Upper  
264 100  
260 23.4 18.7 28.1  
265 21.9 16.7 25.1



#88  
Benzo(b)fluoranthene  
Concen: 2.55 ng  
RT: 15.21 min Scan# 2231  
Delta R.T. 0.01 min  
Lab File: BF110523.D  
Acq: 6 Nov 2018 18:58

Tgt Ion:252 Resp: 23412  
Ion Ratio Lower Upper  
252 100  
253 24.8 17.2 25.8  
125 13.7 8.2 12.4#





#89  
 Benzo(k)fluoranthene  
 Concen: 2.59 ng  
 RT: 15.21 min Scan# 2231  
 Delta R.T. -0.03 min  
 Lab File: BF110523.D  
 Acq: 6 Nov 2018 18:58

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:252 Resp: 23412  
 Ion Ratio Lower Upper  
 252 100  
 253 24.8 17.2 25.8  
 125 13.7 7.4 11.0#

