

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\  
 Data File : BF110175.D  
 Acq On : 25 Oct 2018 22:02  
 Operator : JU/SJ  
 Sample : J5625-09  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 26 04:18:15 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 23 15:06:18 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.97  | 152  | 164006   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.25  | 136  | 634521   | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 10.01 | 164  | 266104   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 11.50 | 188  | 391451   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 14.15 | 240  | 274935   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 15.68 | 264  | 238294   | 20.00 | ng    | -0.01    |

|                             |       |     |         |       |    |       |
|-----------------------------|-------|-----|---------|-------|----|-------|
| System Monitoring Compounds |       |     |         |       |    |       |
| 5) 2-Fluorophenol           | 5.59  | 112 | 955666  | 94.89 | ng | 0.00  |
| 7) Phenol-d6                | 6.59  | 99  | 1226758 | 95.23 | ng | -0.01 |
| 23) Nitrobenzene-d5         | 7.53  | 82  | 773891  | 72.34 | ng | -0.02 |
| 42) 2,4,6-Tribromophenol    | 10.80 | 330 | 211593  | 80.27 | ng | -0.02 |
| 45) 2-Fluorobiphenyl        | 9.32  | 172 | 1200590 | 70.85 | ng | -0.02 |
| 79) Terphenyl-d14           | 13.09 | 244 | 735357  | 55.63 | ng | -0.02 |

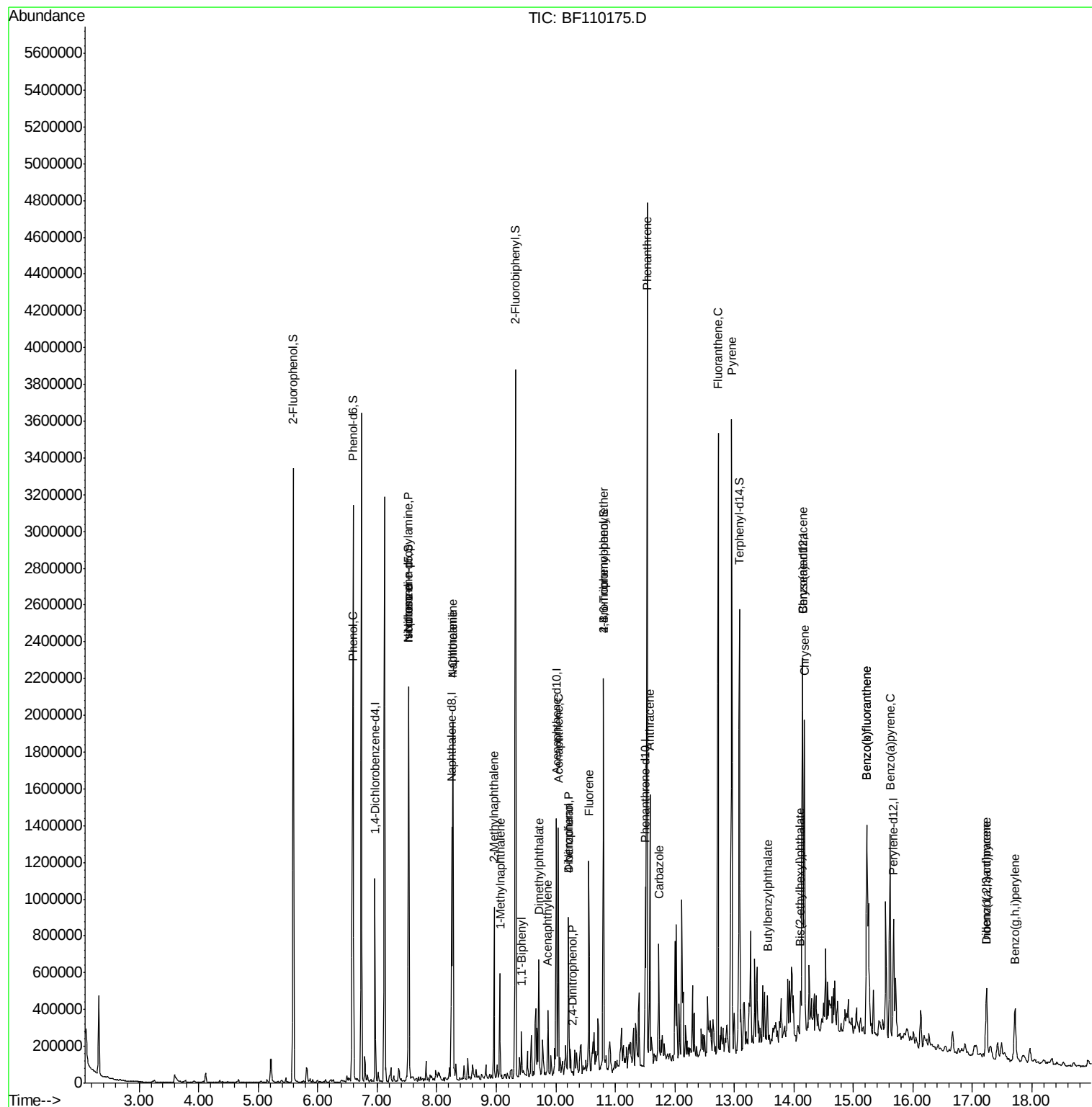
|                                |       |     |         |        |    |       |
|--------------------------------|-------|-----|---------|--------|----|-------|
| Target Compounds               |       |     |         | Qvalue |    |       |
| 10) Phenol                     | 6.60  | 94  | 154765  | 11.239 | ng | # 62  |
| 19) n-Nitroso-di-n-propylamine | 7.53  | 70  | 106431  | 12.878 | ng | # 81  |
| 25) Isophorone                 | 7.53  | 82  | 769997  | 42.225 | ng | # 67  |
| 31) Naphthalene                | 8.27  | 128 | 875058  | 29.922 | ng | # 99  |
| 33) 4-Chloroaniline            | 8.27  | 127 | 116420  | 8.845  | ng | # 32  |
| 37) 2-Methylnaphthalene        | 8.96  | 142 | 229369  | 11.854 | ng | # 99  |
| 38) 1-Methylnaphthalene        | 9.06  | 142 | 148344  | 7.934  | ng | # 99  |
| 46) 1,1'-Biphenyl              | 9.42  | 154 | 72656   | 3.019  | ng | # 97  |
| 49) Acenaphthylene             | 9.87  | 152 | 106704  | 4.185  | ng | # 98  |
| 50) Dimethylphthalate          | 9.72  | 163 | 224414  | 11.425 | ng | # 99  |
| 52) Acenaphthene               | 10.04 | 154 | 273376  | 16.209 | ng | # 98  |
| 54) 2,4-Dinitrophenol          | 10.29 | 184 | 284     | 5.333  | ng | # 47  |
| 55) Dibenzofuran               | 10.21 | 168 | 311593  | 13.195 | ng | # 96  |
| 56) 4-Nitrophenol              | 10.21 | 139 | 119519  | 32.094 | ng | # 7   |
| 58) Fluorene                   | 10.56 | 166 | 295795  | 16.831 | ng | # 98  |
| 67) 4-Bromophenyl-phenylether  | 10.80 | 248 | 13934   | 3.282  | ng | # 1   |
| 71) Phenanthrene               | 11.53 | 178 | 1876160 | 91.598 | ng | # 98  |
| 72) Anthracene                 | 11.58 | 178 | 542569  | 26.428 | ng | # 98  |
| 73) Carbazole                  | 11.73 | 167 | 218796  | 10.915 | ng | # 100 |
| 75) Fluoranthene               | 12.73 | 202 | 1538207 | 73.997 | ng | # 99  |
| 78) Pyrene                     | 12.96 | 202 | 1463714 | 74.261 | ng | # 99  |
| 80) Butylbenzylphthalate       | 13.56 | 149 | 61535   | 7.193  | ng | # 97  |
| 81) Benzo(a)anthracene         | 14.14 | 228 | 692282  | 42.460 | ng | # 96  |
| 83) Chrysene                   | 14.18 | 228 | 638447  | 41.228 | ng | # 98  |
| 84) Bis(2-ethylhexyl)phthalate | 14.11 | 149 | 68961   | 5.963  | ng | # 99  |
| 86) Indeno(1,2,3-cd)pyrene     | 17.23 | 276 | 247991  | 19.304 | ng | # 99  |
| 88) Benzo(b)fluoranthene       | 15.23 | 252 | 962551  | 69.950 | ng | # 97  |
| 89) Benzo(k)fluoranthene       | 15.23 | 252 | 962551  | 71.152 | ng | # 96  |
| 90) Benzo(a)pyrene             | 15.62 | 252 | 507773  | 40.102 | ng | # 98  |
| 91) Dibenzo(a,h)anthracene     | 17.24 | 278 | 64311   | 5.886  | ng | # 80  |
| 92) Benzo(g,h,i)perylene       | 17.72 | 276 | 233232  | 21.664 | ng | # 95  |

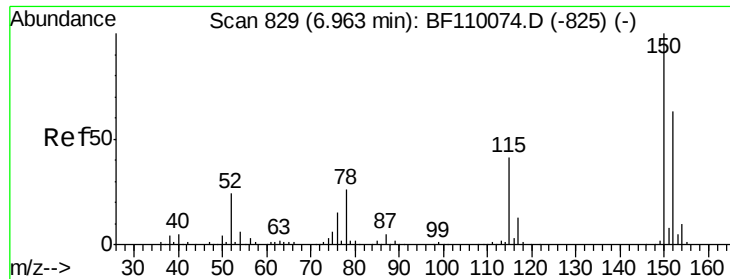
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102518\  
Data File : BF110175.D  
Acq On : 25 Oct 2018 22:02  
Operator : JU/SJ  
Sample : J5625-09  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :

Quant Time: Oct 26 04:18:15 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 23 15:06:18 2018  
Response via : Initial Calibration



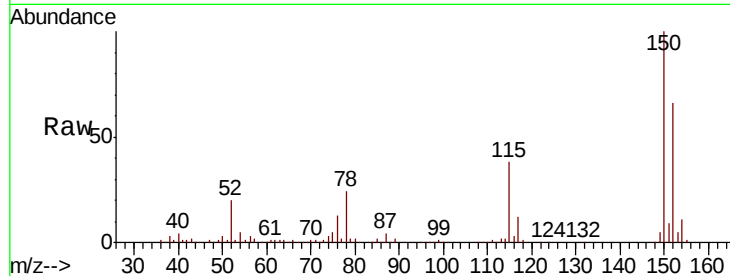


#1

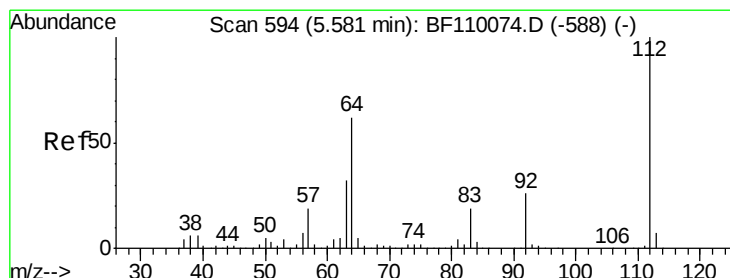
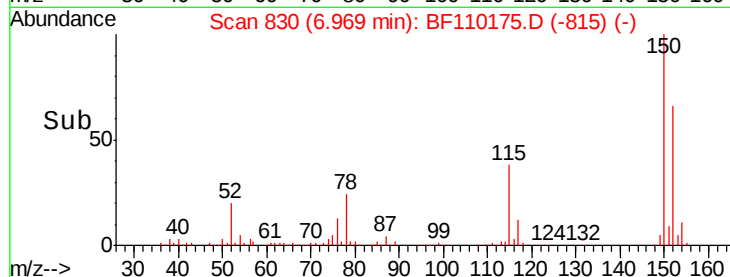
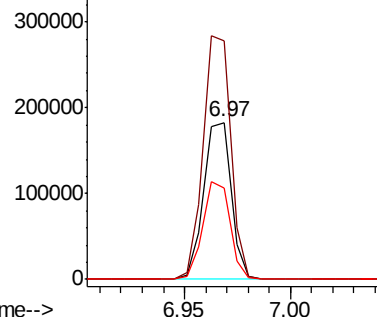
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.97 min Scan# 830  
Delta R.T. -0.01 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 164006  
Ion Ratio Lower Upper  
152 100  
150 151.7 122.7 184.1  
115 58.0 49.1 73.7



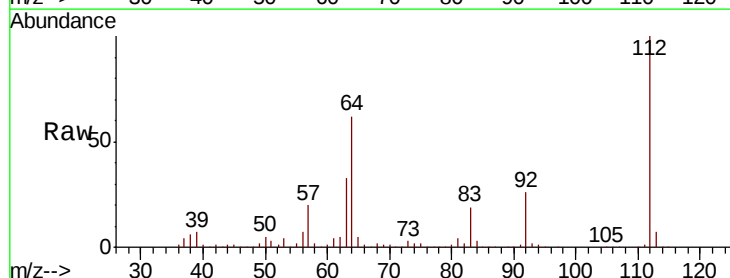
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



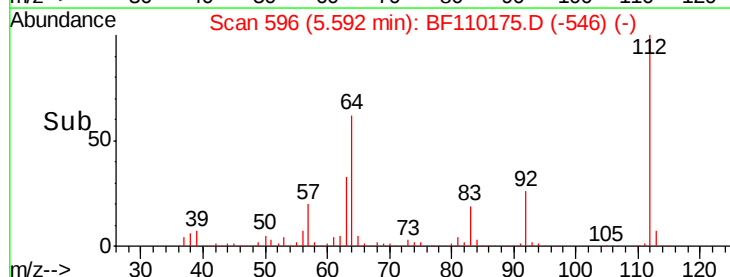
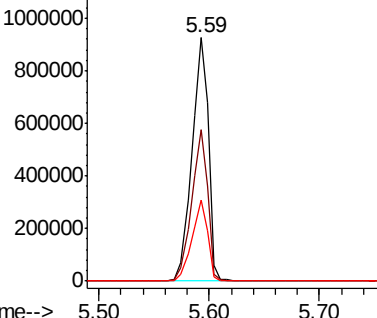
#5

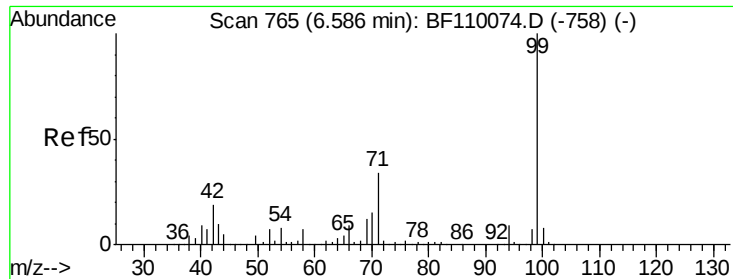
2-Fluorophenol  
Concen: 94.890 ng  
RT: 5.59 min Scan# 596  
Delta R.T. -0.01 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Tgt Ion:112 Resp: 955666  
Ion Ratio Lower Upper  
112 100  
64 62.4 44.1 66.1  
63 33.1 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: 95.231 ng

RT: 6.59 min Scan# 766

Delta R.T. -0.01 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

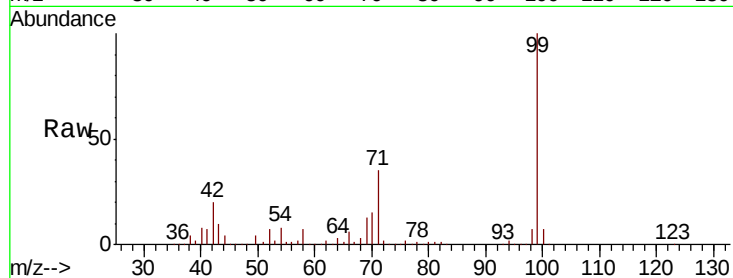
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1226758

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 19.6  | 15.8  | 23.6  |
| 71  | 34.9  | 28.0  | 42.0  |

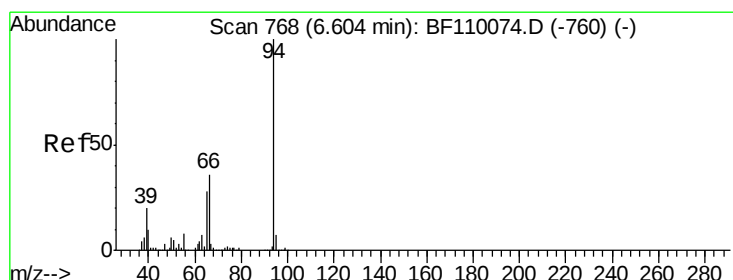
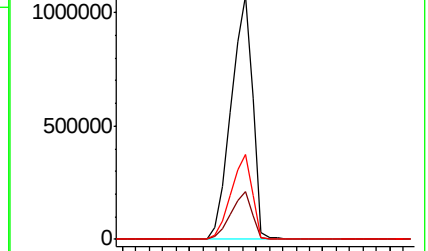
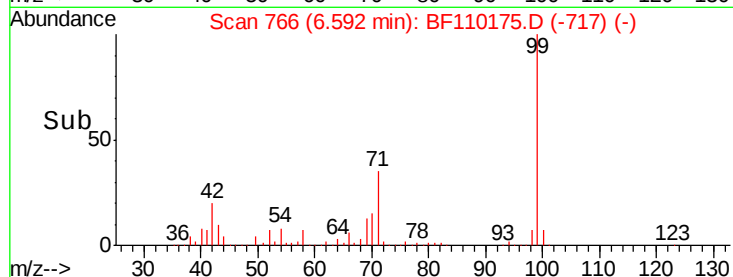


Abundance

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: 11.239 ng

RT: 6.60 min Scan# 768

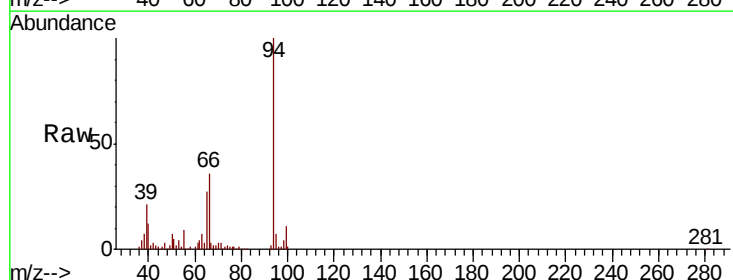
Delta R.T. -0.01 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

Tgt Ion: 94 Resp: 154765

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 27.1  | 25.3  | 65.3  |
| 66  | 36.3  | 54.5  | 94.5# |

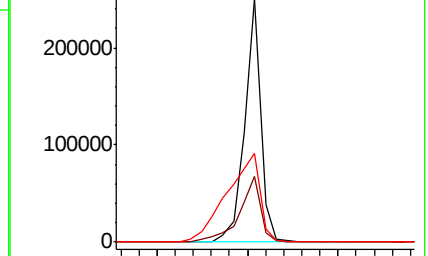
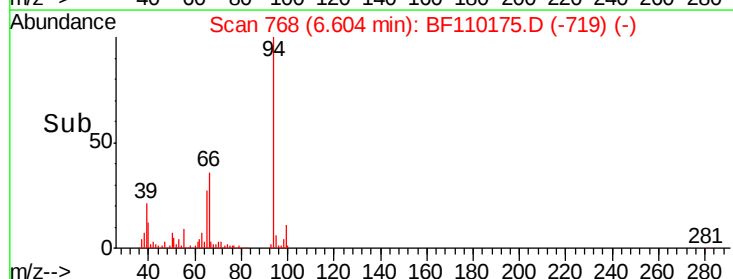


Abundance

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

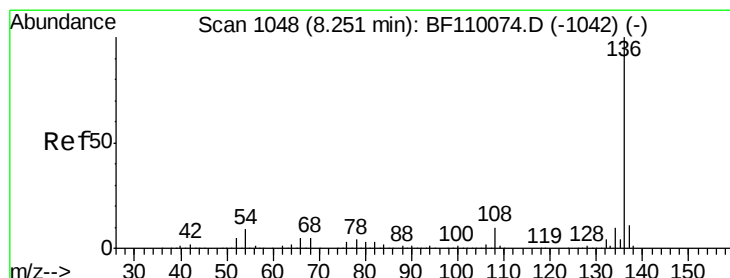
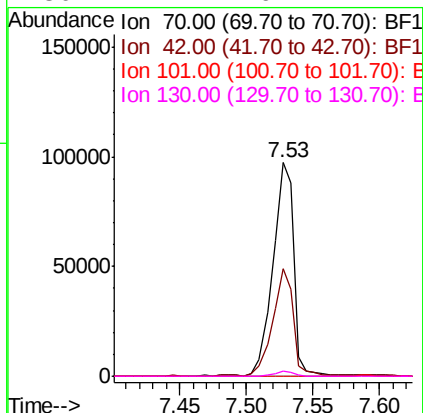
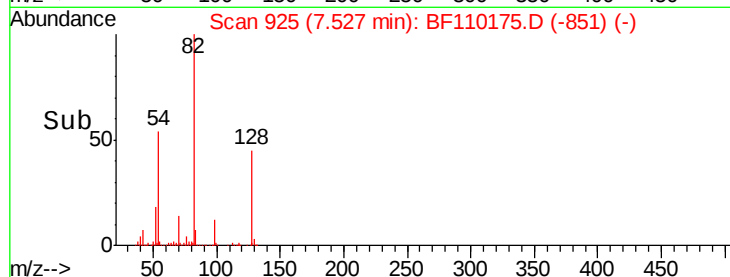
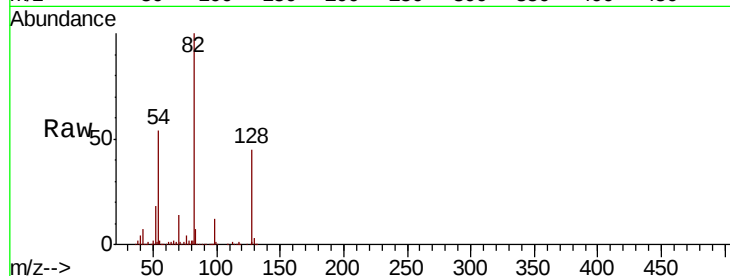




#19  
n-Nitroso-di-n-propylamine  
Concen: 12.878 ng  
RT: 7.53 min Scan# 925  
Delta R.T. 0.13 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

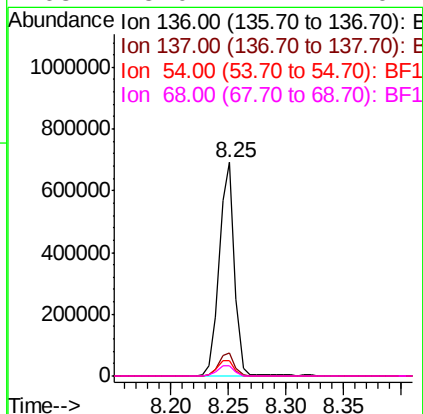
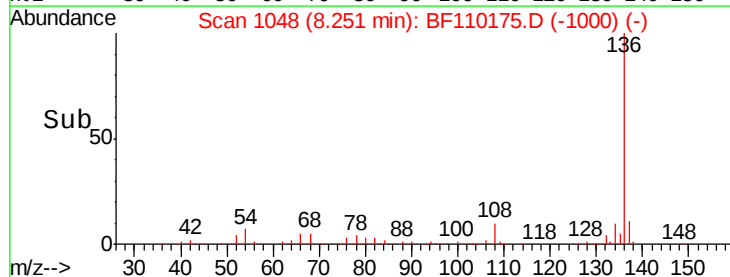
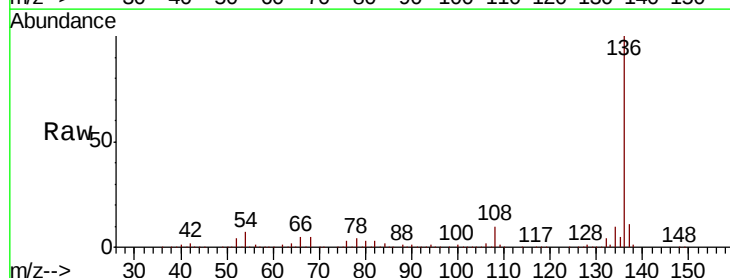
Instrument :  
BNA\_F  
ClientSampled :

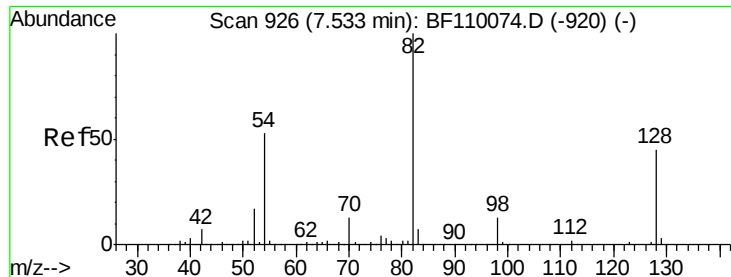
Tot Ion: 70 Resp: 106431  
Ion Ratio Lower Upper  
70 100  
42 50.2 47.4 71.2  
101 0.0 7.3 10.9#  
130 2.4 16.2 24.2#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.25 min Scan# 1048  
Delta R.T. -0.02 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Tgt Ion: 136 Resp: 634521  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.8 13.2  
54 7.4 5.4 8.2  
68 5.0 4.2 6.2

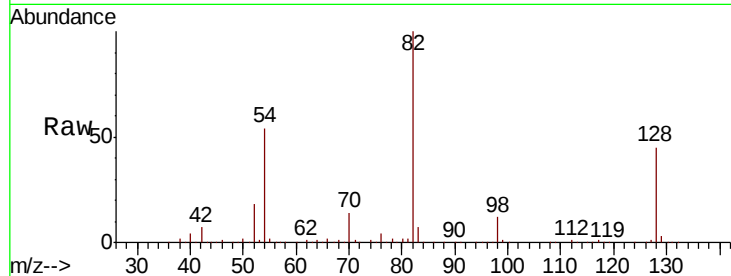




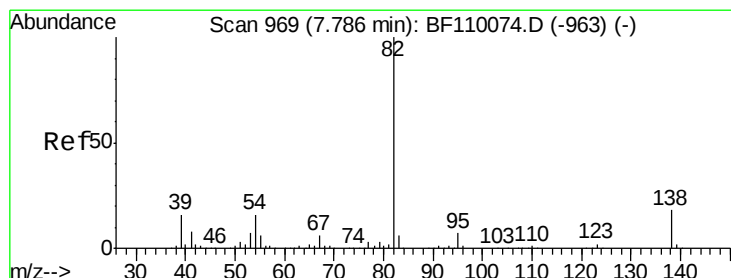
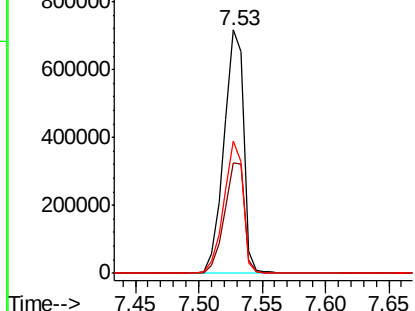
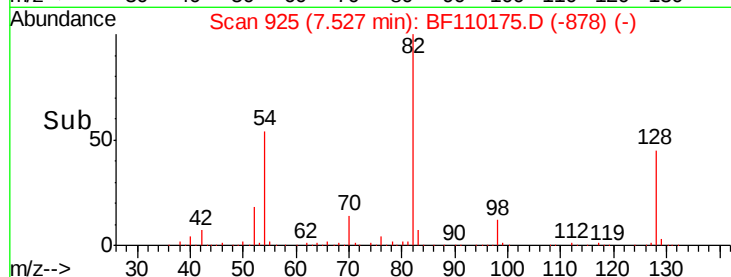
#23  
Nitrobenzene-d5  
Concen: 72.341 ng  
RT: 7.53 min Scan# 925  
Delta R.T. -0.02 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Instrument :  
BNA\_F  
ClientSampleID :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.2  | 34.2  | 51.2  |
| 54      | 54.1  | 38.6  | 58.0  |

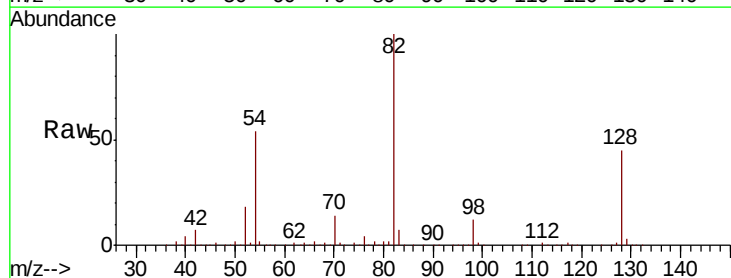


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

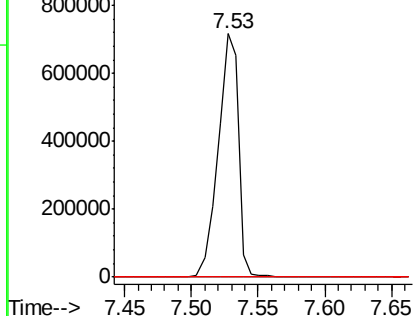
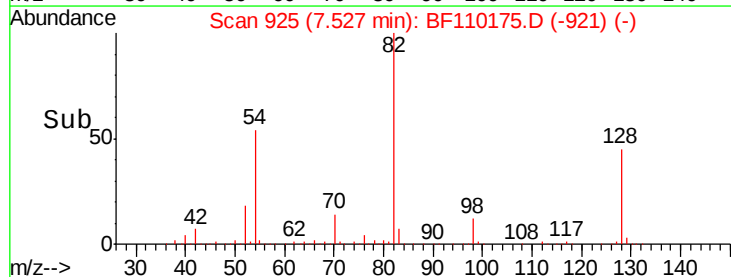


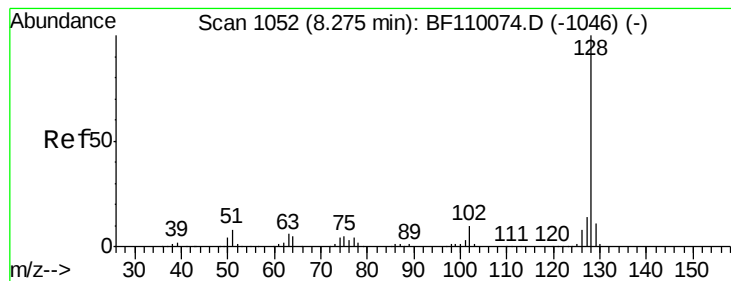
#25  
Isophorone  
Concen: 42.225 ng  
RT: 7.53 min Scan# 925  
Delta R.T. -0.28 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 0.1   | 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





#31

Naphthalene

Concen: 29.922 ng

RT: 8.27 min Scan# 1051

Delta R.T. -0.02 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

Instrument :

BNA\_F

ClientSampleId :

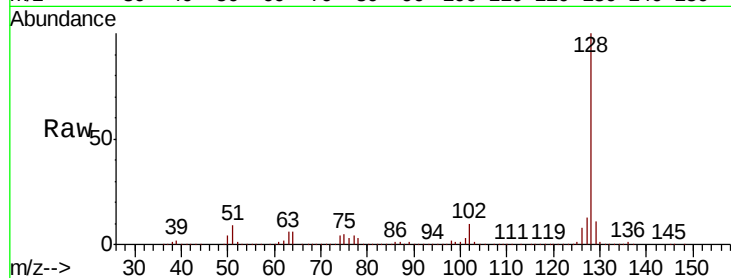
Tot Ion:128 Resp: 875058

Ion Ratio Lower Upper

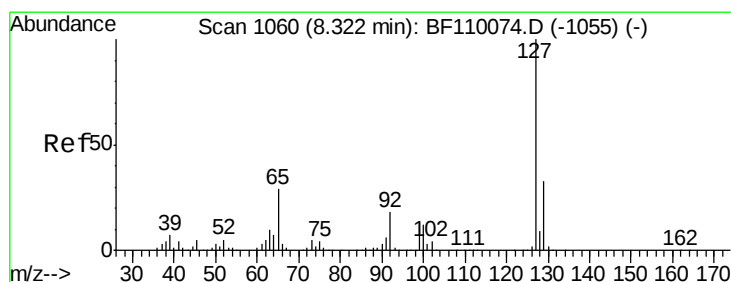
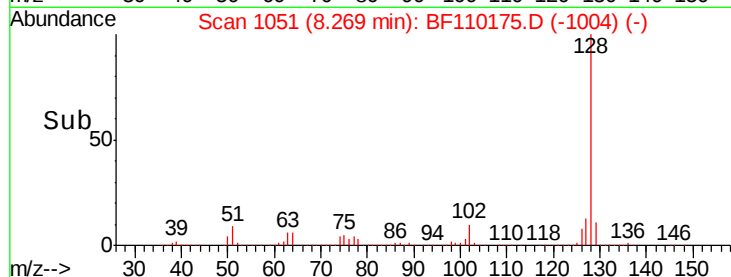
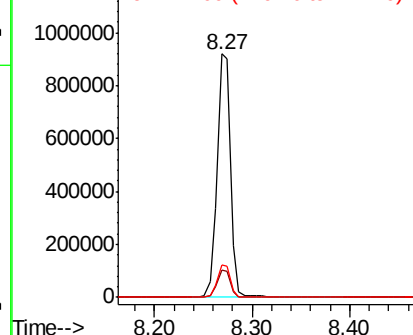
128 100

129 11.5 8.8 13.2

127 13.4 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



#33

4-Chloroaniline

Concen: 8.845 ng

RT: 8.27 min Scan# 1051

Delta R.T. -0.07 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

Tgt Ion:127 Resp: 116420

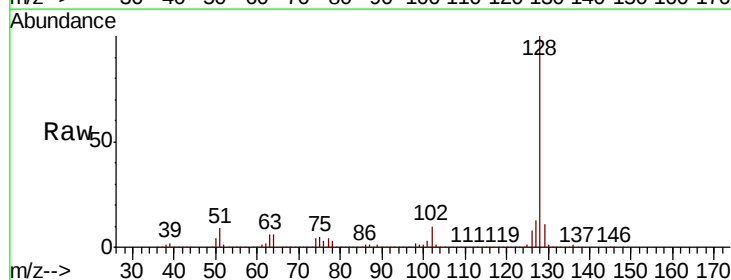
Ion Ratio Lower Upper

127 100

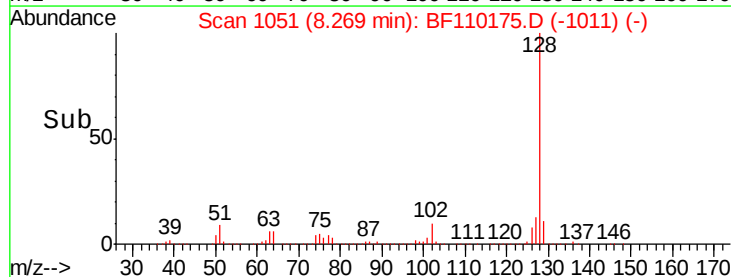
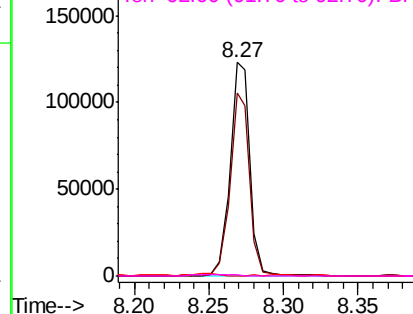
129 85.7 26.0 39.0#

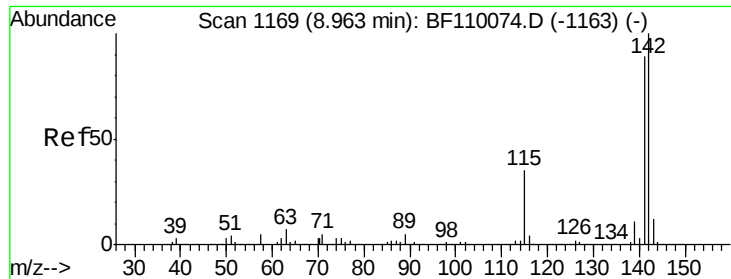
65 0.0 25.1 37.7#

92 0.4 15.0 22.6#



Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 92.00 (91.70 to 92.70): BF1

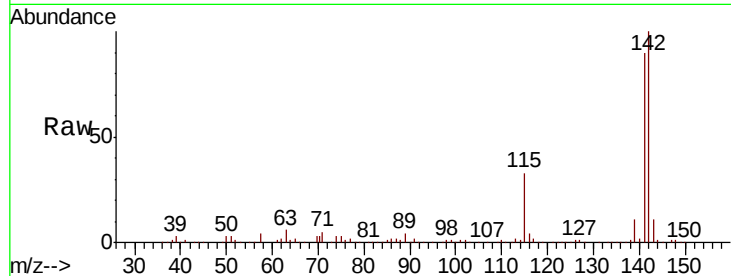




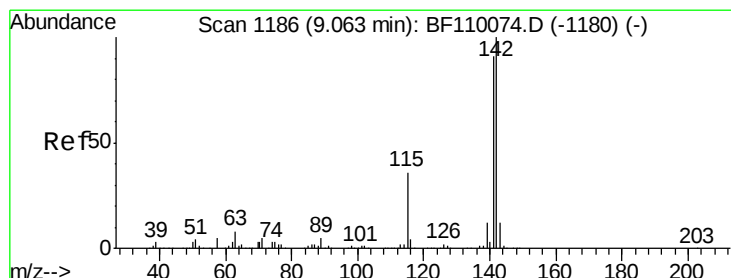
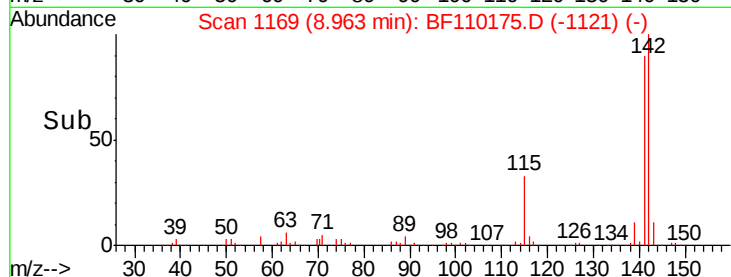
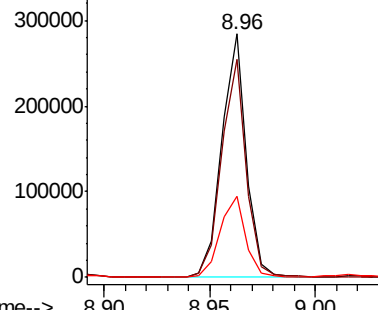
#37  
2-Methylnaphthalene  
Concen: 11.854 ng  
RT: 8.96 min Scan# 1169  
Delta R.T. -0.02 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.5  | 71.4  | 107.2 |
| 115     | 33.3  | 28.7  | 43.1  |

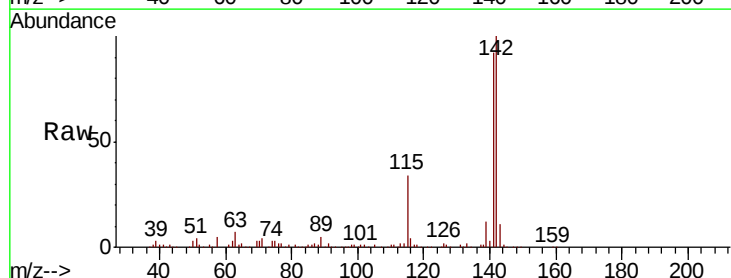


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

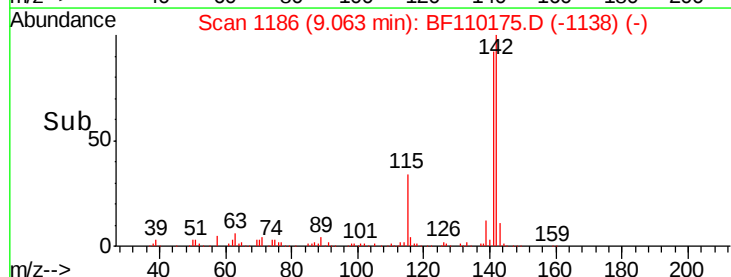
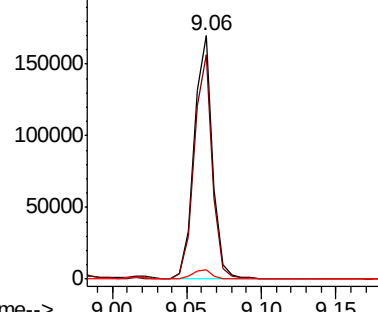


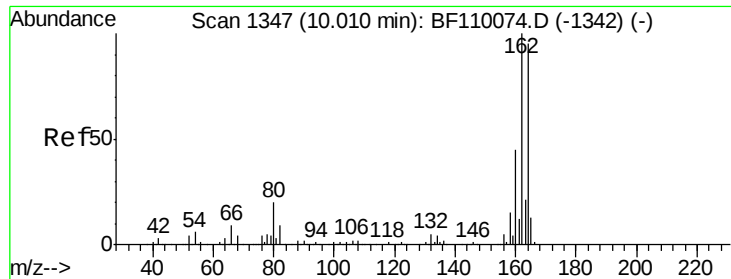
#38  
1-Methylnaphthalene  
Concen: 7.934 ng  
RT: 9.06 min Scan# 1186  
Delta R.T. -0.02 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.2  | 74.2  | 111.4 |
| 116     | 3.8   | 2.6   | 4.0   |



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 116.00 (115.70 to 116.70): E

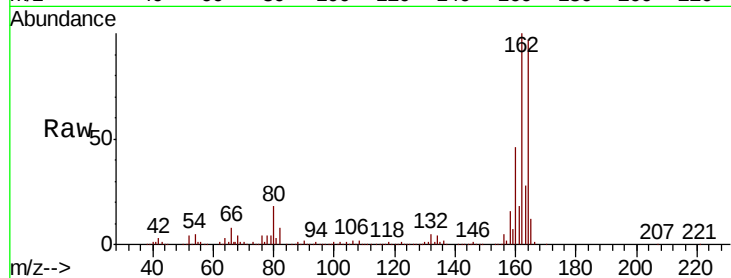




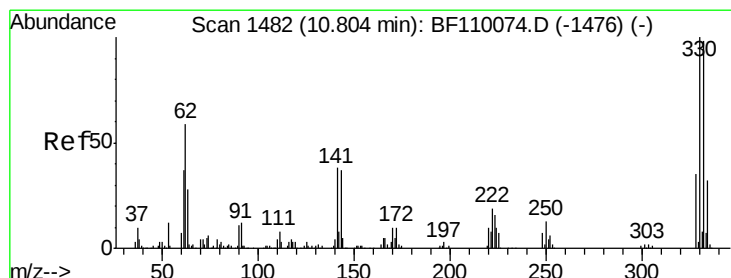
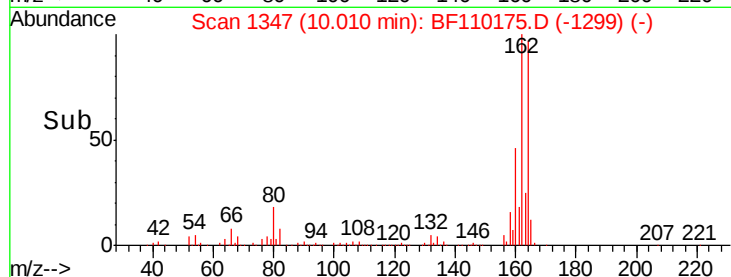
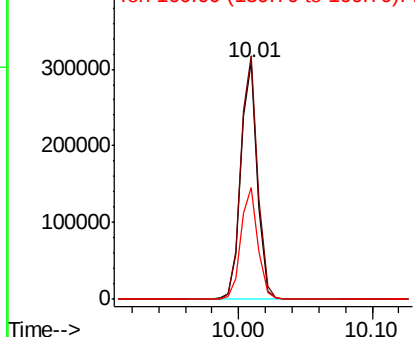
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.01 min Scan# 1347  
Delta R.T. -0.02 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 266104  
Ion Ratio Lower Upper  
164 100  
162 102.9 83.0 124.6  
160 47.5 37.0 55.6

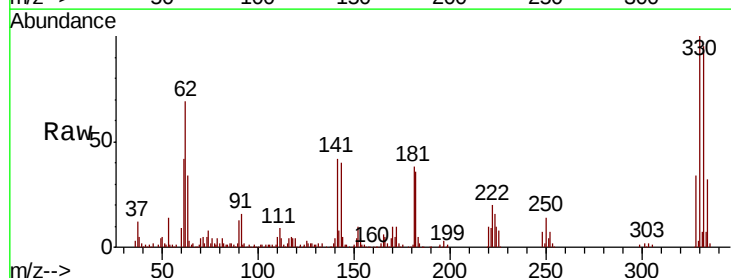


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

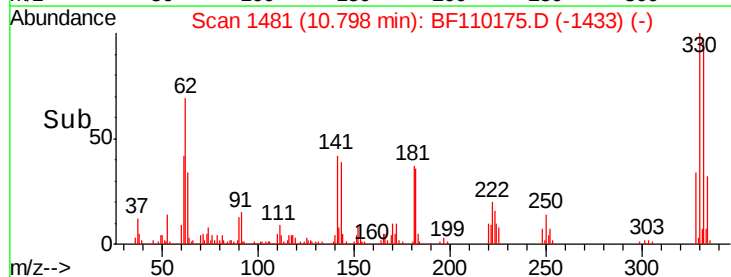
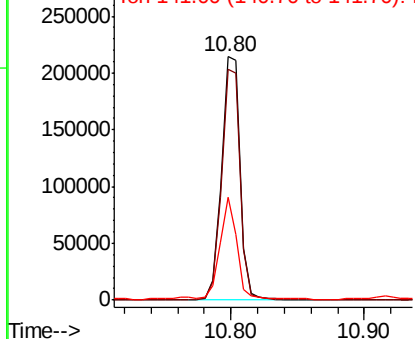


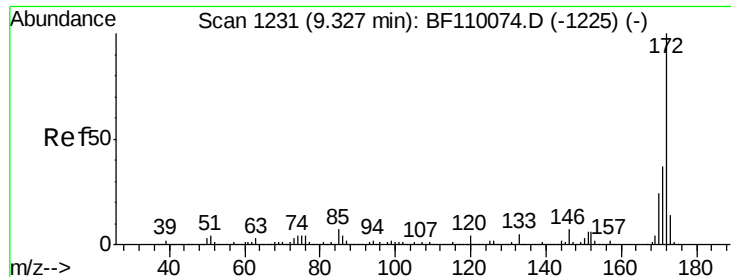
#42  
2,4,6-Tribromophenol  
Concen: 80.272 ng  
RT: 10.80 min Scan# 1481  
Delta R.T. -0.02 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Tgt Ion:330 Resp: 211593  
Ion Ratio Lower Upper  
330 100  
332 94.9 77.1 115.7  
141 38.3 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

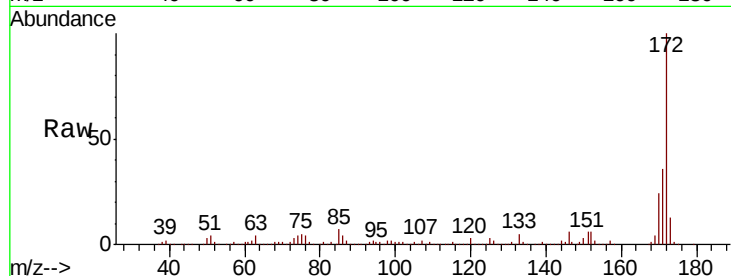




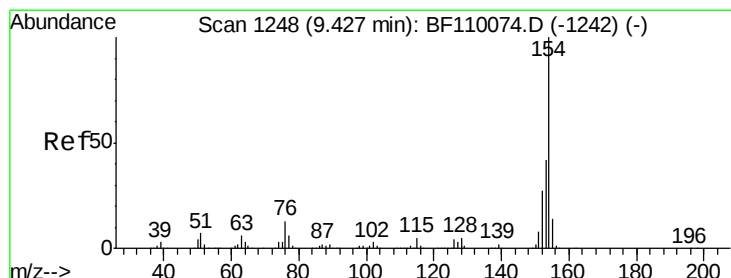
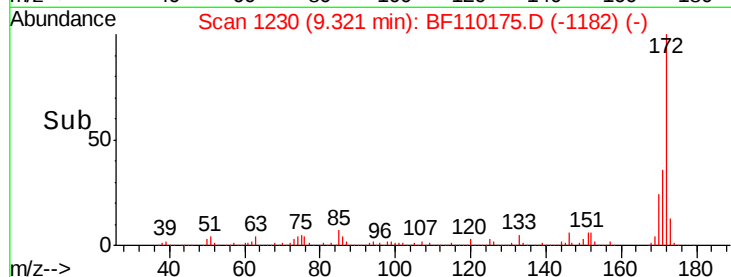
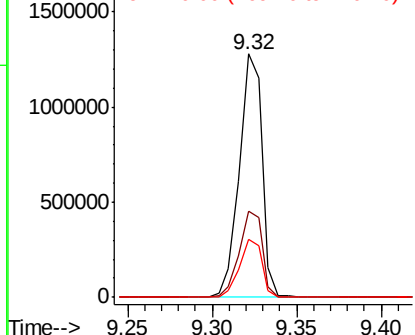
#45  
2-Fluorobiphenyl  
Concen: 70.846 ng  
RT: 9.32 min Scan# 1230  
Delta R.T. -0.02 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1200590  
Ion Ratio Lower Upper  
172 100  
171 35.6 28.6 43.0  
170 23.9 19.7 29.5

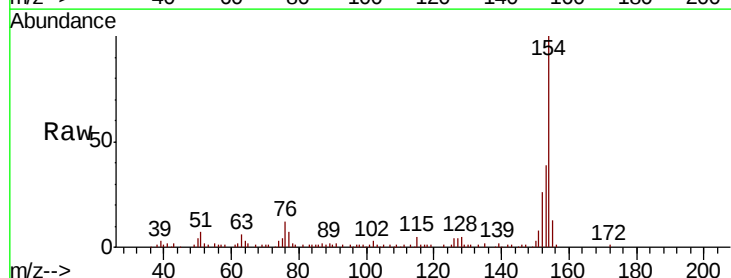


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

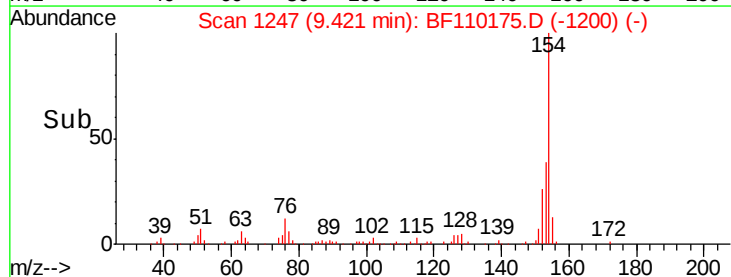
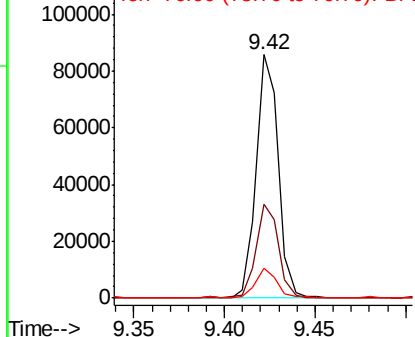


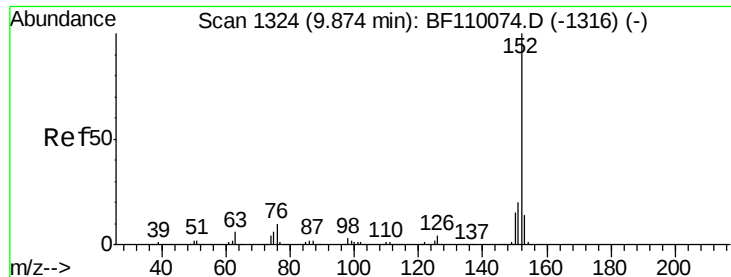
#46  
1,1'-Biphenyl  
Concen: 3.019 ng  
RT: 9.42 min Scan# 1247  
Delta R.T. -0.02 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Tgt Ion:154 Resp: 72656  
Ion Ratio Lower Upper  
154 100  
153 38.5 20.4 60.4  
76 12.5 0.0 31.9



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): BF1





#49

Acenaphthylene

Concen: 4.185 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.02 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

Instrument :

BNA\_F

ClientSampleId :

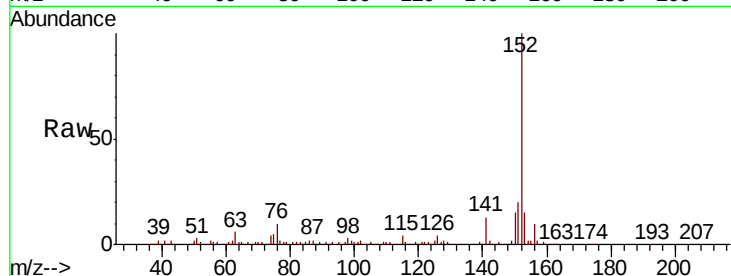
Tot Ion:152 Resp: 106704

Ion Ratio Lower Upper

152 100

151 20.1 15.8 23.8

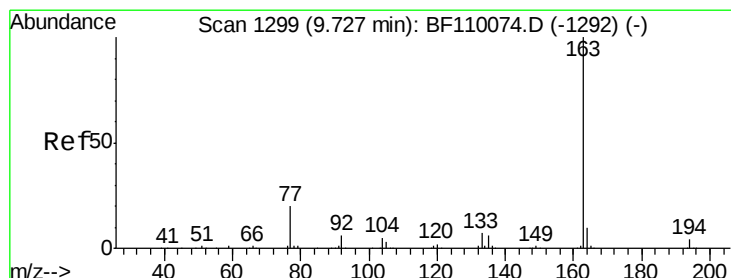
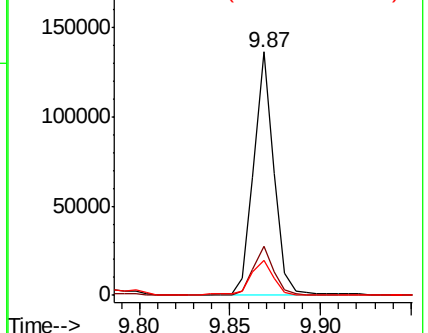
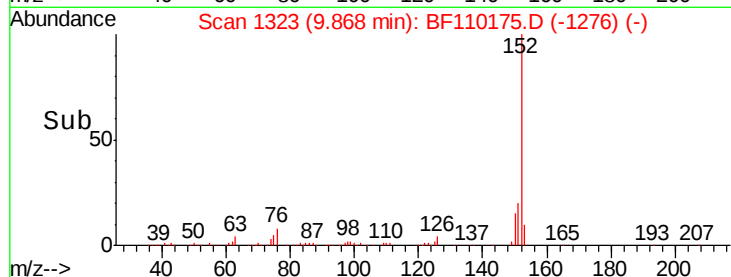
153 14.5 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 11.425 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

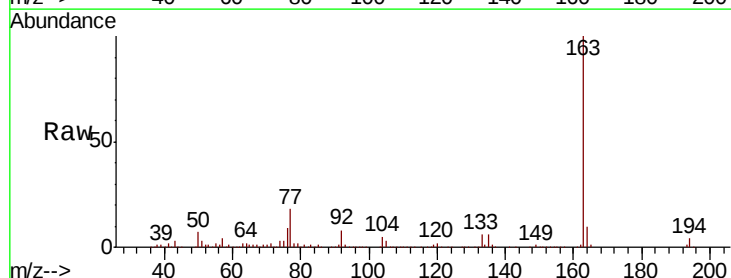
Tgt Ion:163 Resp: 224414

Ion Ratio Lower Upper

163 100

194 3.8 3.2 4.8

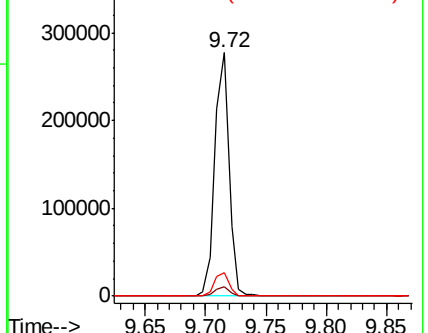
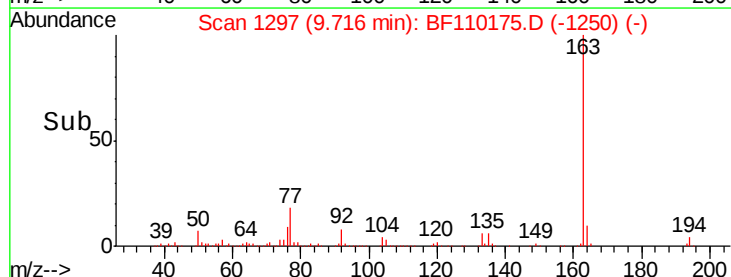
164 9.9 8.1 12.1

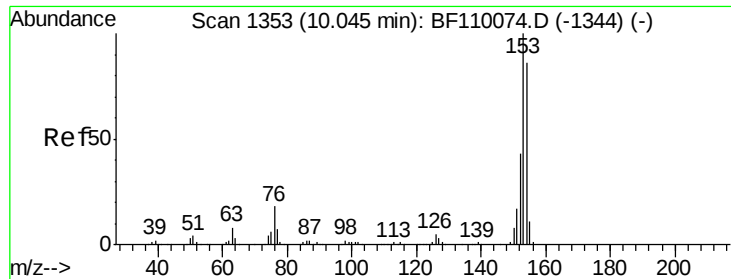


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#52

Acenaphthene

Concen: 16.209 ng

RT: 10.04 min Scan# 1352

Delta R.T. -0.02 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

Instrument :

BNA\_F

ClientSampled :

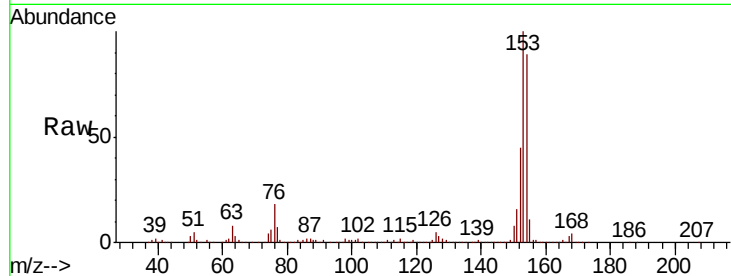
Tot Ion:154 Resp: 273376

Ion Ratio Lower Upper

154 100

153 112.6 90.1 135.1

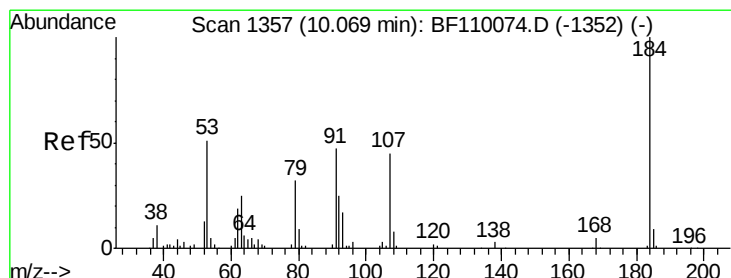
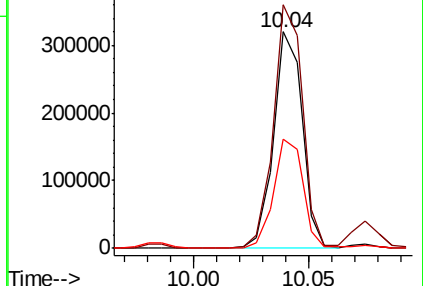
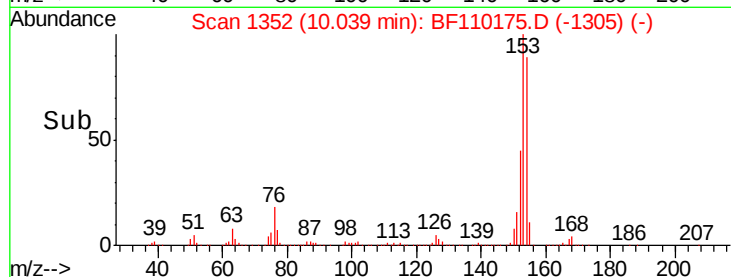
152 50.3 43.4 65.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

2,4-Dinitrophenol

Concen: 5.333 ng

RT: 10.29 min Scan# 1394

Delta R.T. 0.21 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

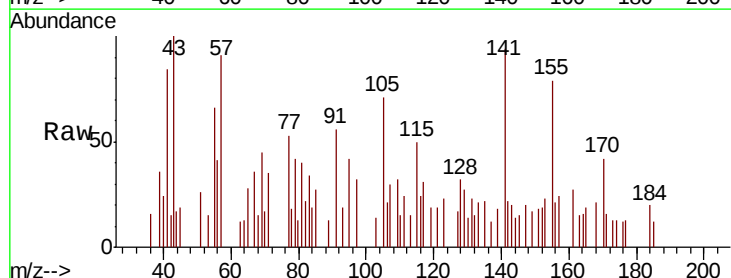
Tgt Ion:184 Resp: 284

Ion Ratio Lower Upper

184 100

63 60.7 55.8 83.6

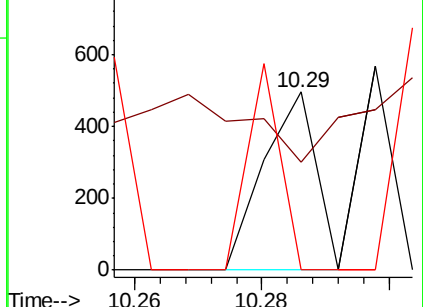
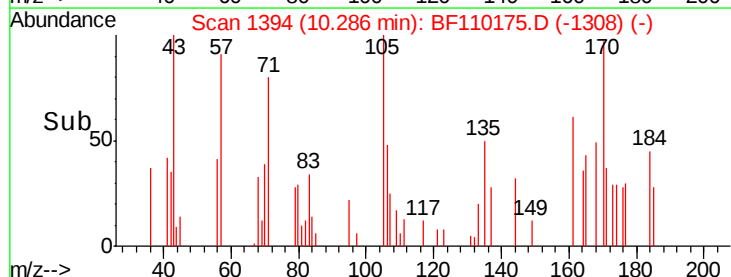
154 0.0 63.2 94.8#

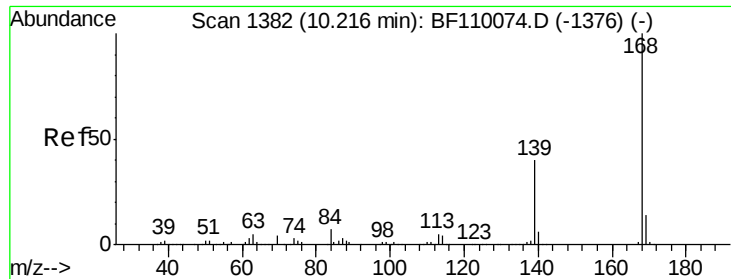


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E





#55

Dibenzofuran

Concen: 13.195 ng

RT: 10.21 min Scan# 1381

Delta R.T. -0.02 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

Instrument :

BNA\_F

ClientSampleId :

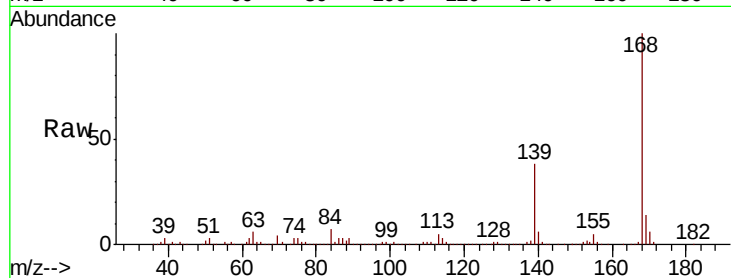
Tot Ion:168 Resp: 311593

Ion Ratio Lower Upper

168 100

139 38.0 33.0 49.6

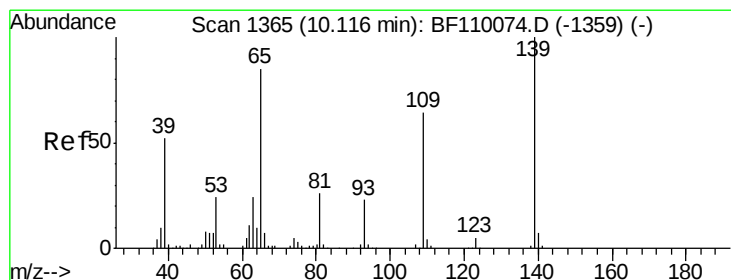
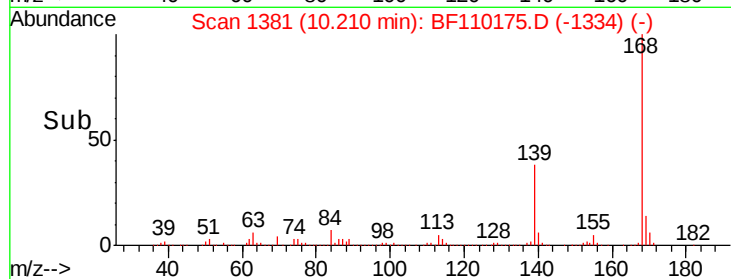
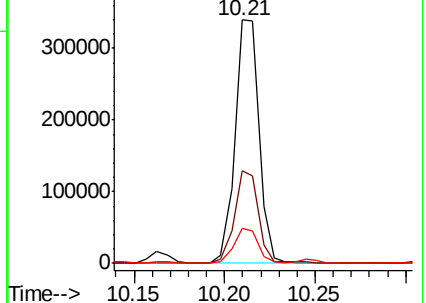
169 14.2 11.3 16.9



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#56

4-Nitrophenol

Concen: 32.094 ng

RT: 10.21 min Scan# 1381

Delta R.T. 0.09 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

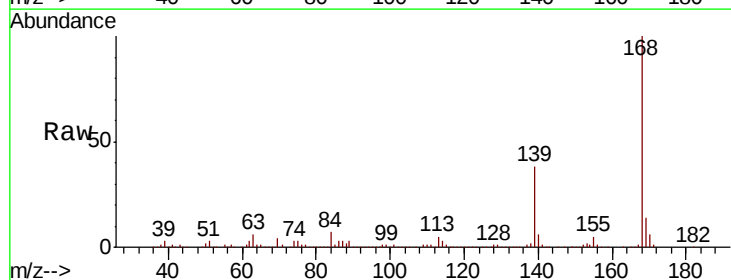
Tgt Ion:139 Resp: 119519

Ion Ratio Lower Upper

139 100

109 1.4 55.8 95.8#

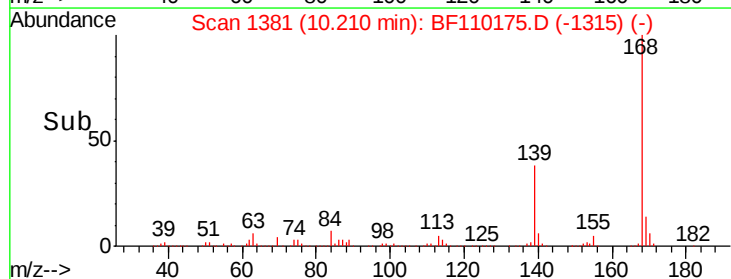
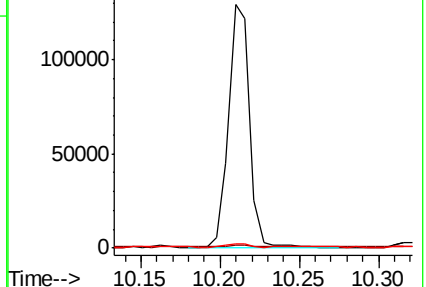
65 1.9 77.9 117.9#

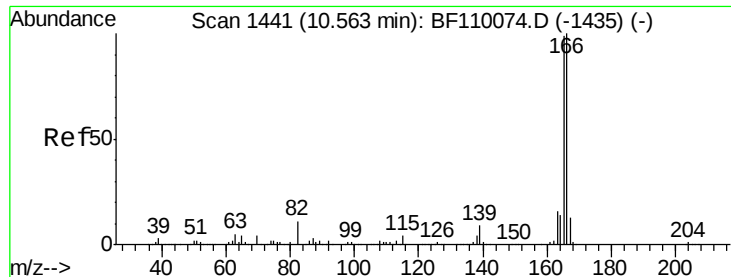


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

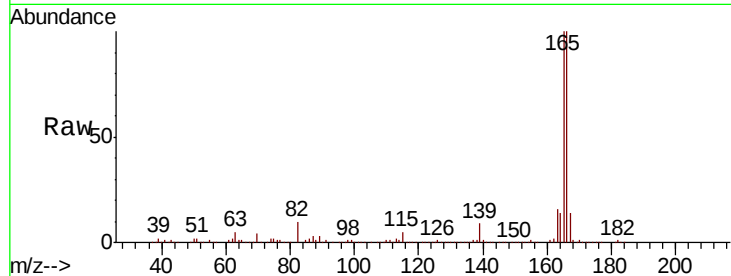




#58  
 Fluorene  
 Concen: 16.831 ng  
 RT: 10.56 min Scan# 1440  
 Delta R.T. -0.02 min  
 Lab File: BF110175.D  
 Acq: 25 Oct 2018 22:02

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 100.2 | 78.6  | 117.8 |
| 167     | 13.9  | 10.8  | 16.2  |

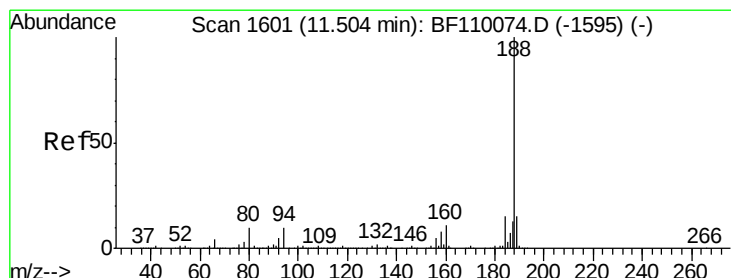
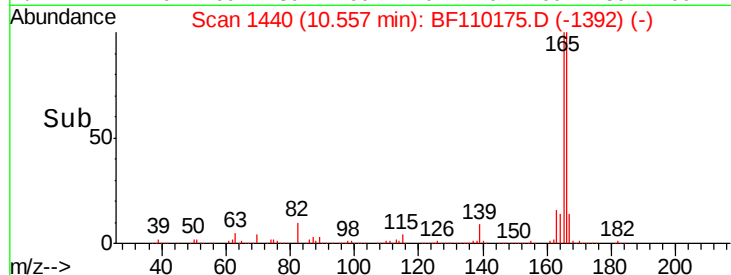
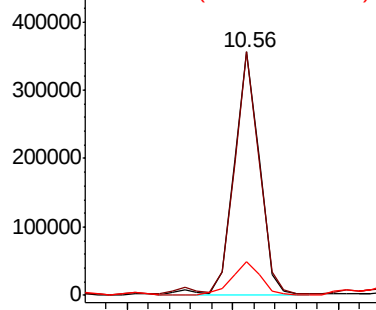


Abundance

Ion 166.00 (165.70 to 166.70): E

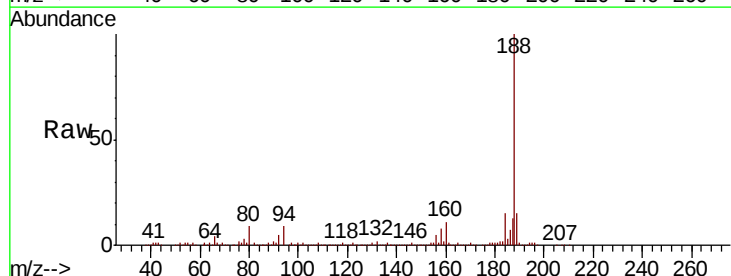
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.50 min Scan# 1601  
 Delta R.T. -0.01 min  
 Lab File: BF110175.D  
 Acq: 25 Oct 2018 22:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.7   | 7.2   | 10.8  |
| 80      | 9.3   | 7.9   | 11.9  |

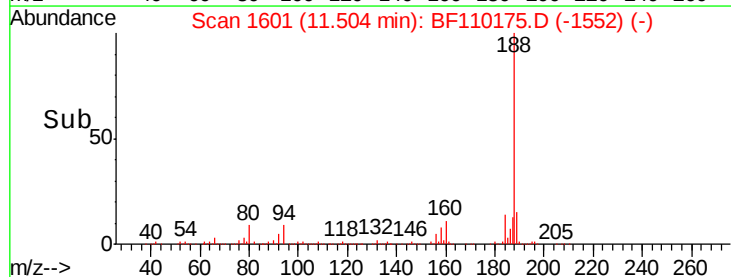
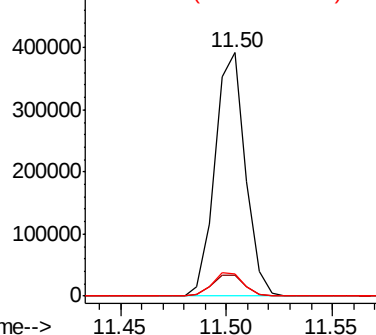


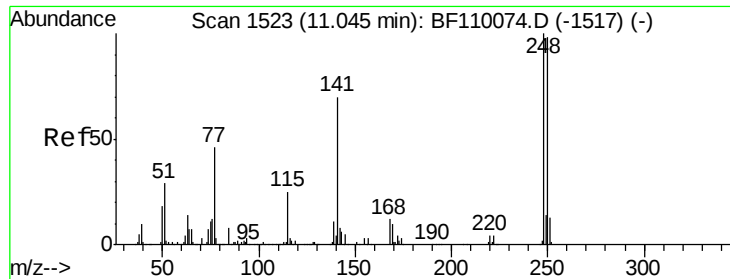
Abundance

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

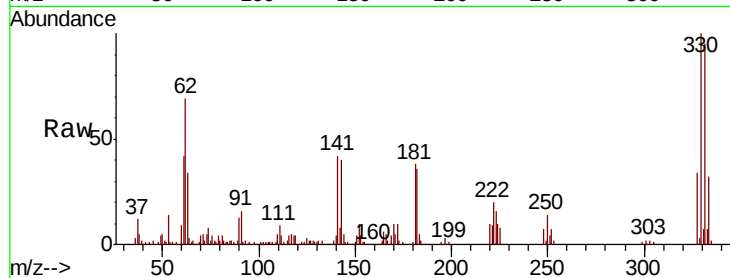




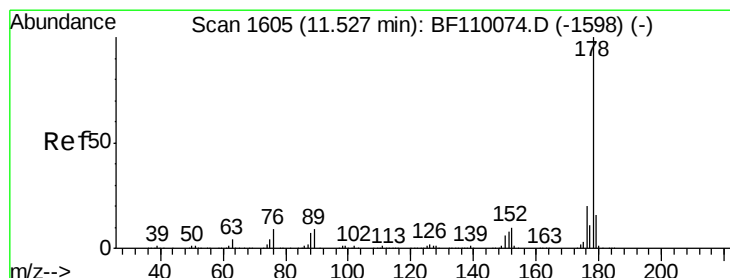
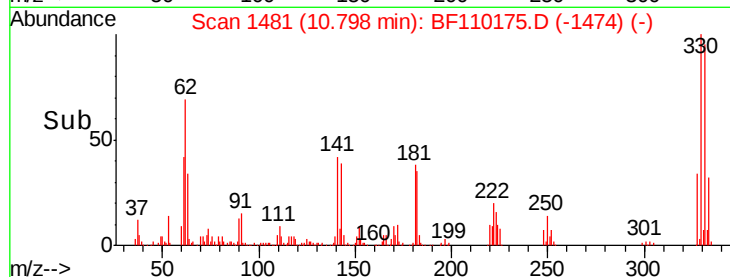
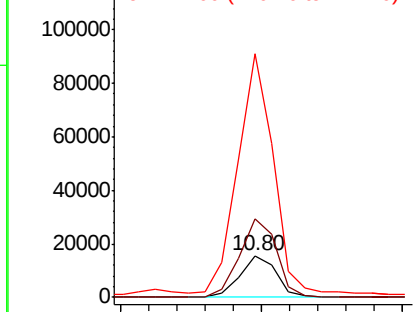
#67  
4-Bromophenyl-phenylether  
Concen: 3.282 ng  
RT: 10.80 min Scan# 1481  
Delta R.T. -0.26 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 13934  
Ion Ratio Lower Upper  
248 100  
250 189.2 79.4 119.2#  
141 586.9 55.9 83.9#

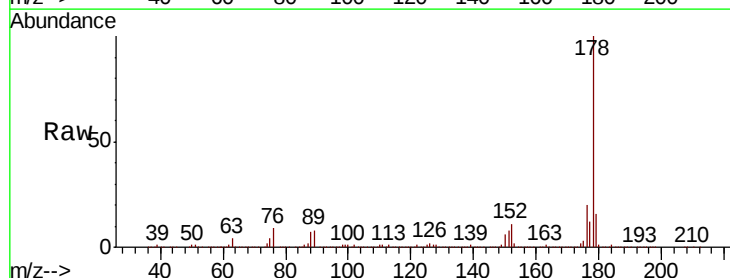


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

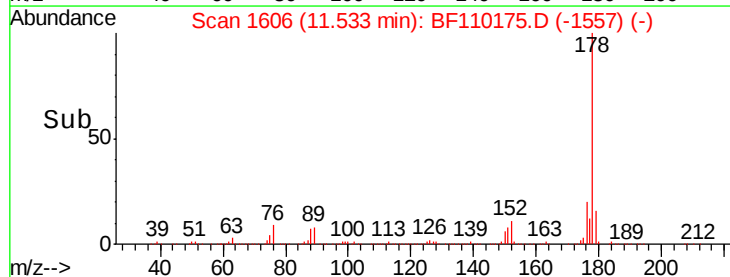
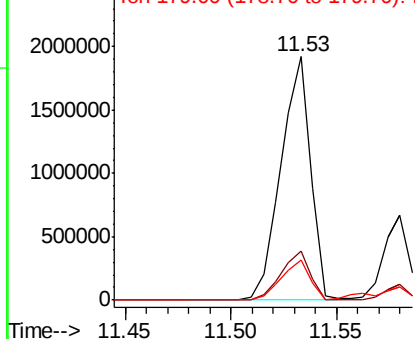


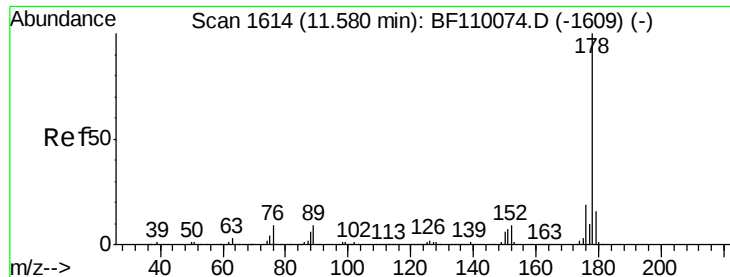
#71  
Phenanthrene  
Concen: 91.598 ng  
RT: 11.53 min Scan# 1606  
Delta R.T. -0.01 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Tgt Ion:178 Resp: 1876160  
Ion Ratio Lower Upper  
178 100  
176 20.0 15.5 23.3  
179 16.5 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





#72

Anthracene

Concen: 26.428 ng

RT: 11.58 min Scan# 1614

Delta R.T. -0.02 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

Instrument :

BNA\_F

ClientSampleId :

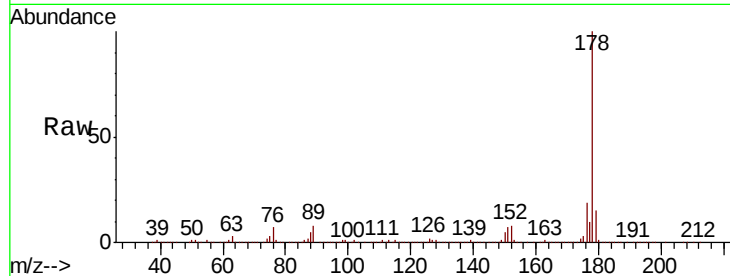
Tot Ion:178 Resp: 542569

Ion Ratio Lower Upper

178 100

176 18.5 15.4 23.2

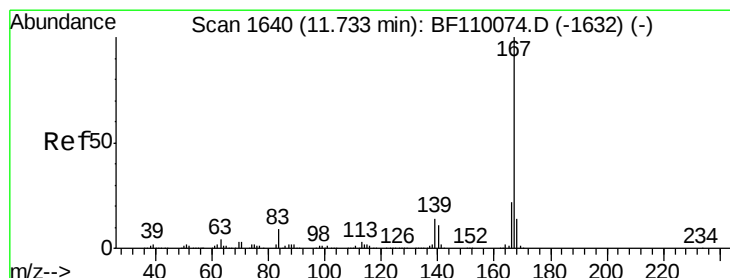
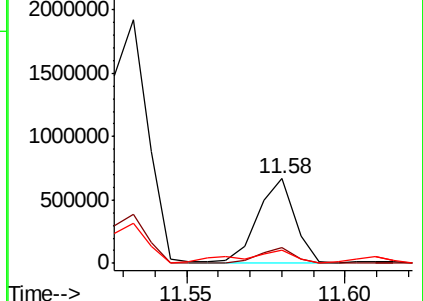
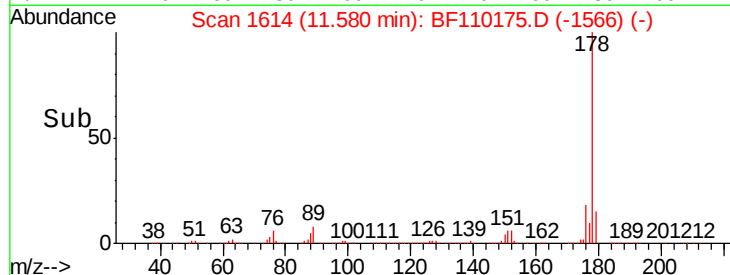
179 15.0 12.6 18.8



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



#73

Carbazole

Concen: 10.915 ng

RT: 11.73 min Scan# 1639

Delta R.T. -0.02 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

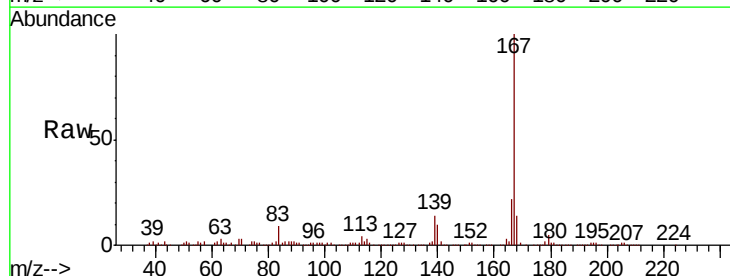
Tgt Ion:167 Resp: 218796

Ion Ratio Lower Upper

167 100

166 21.6 17.4 26.0

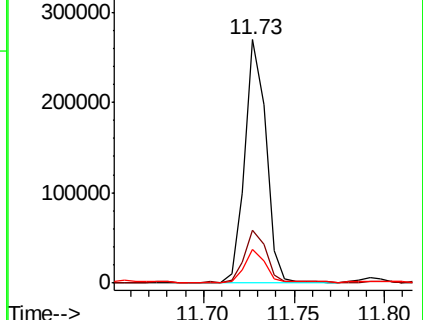
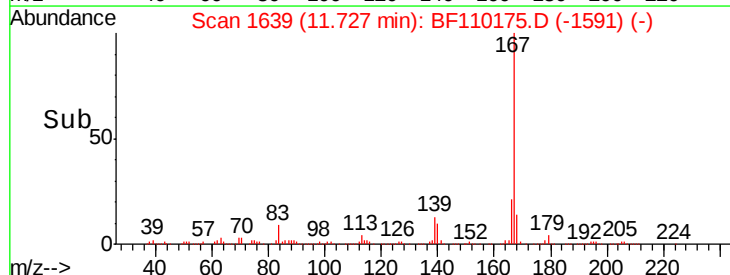
139 13.6 10.9 16.3

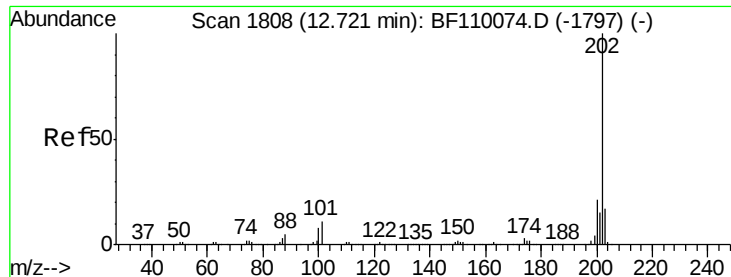


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 73.997 ng

RT: 12.73 min Scan# 1809

Delta R.T. -0.01 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

Instrument :

BNA\_F

ClientSampleId :

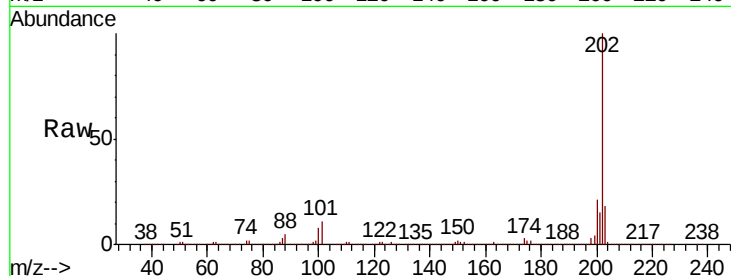
Tot Ion:202 Resp: 1538207

Ion Ratio Lower Upper

202 100

101 10.6 0.0 31.4

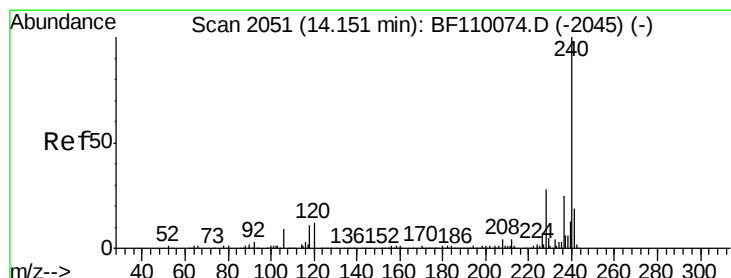
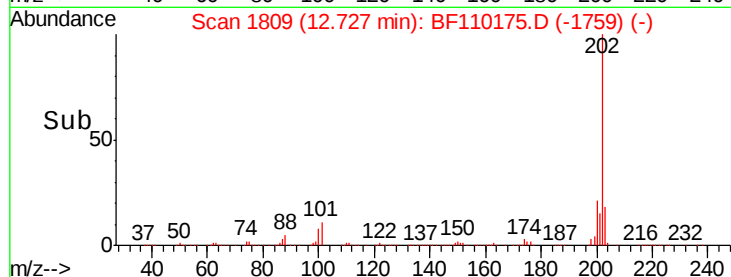
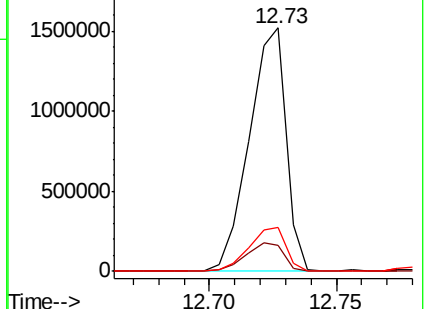
203 17.9 0.0 37.7



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: 20.000 ng

RT: 14.15 min Scan# 2051

Delta R.T. -0.01 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

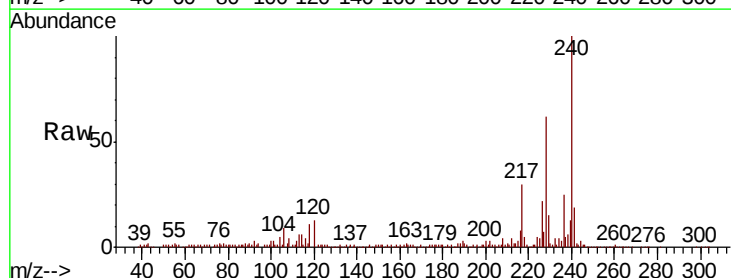
Tgt Ion:240 Resp: 274935

Ion Ratio Lower Upper

240 100

120 13.1 8.3 12.5#

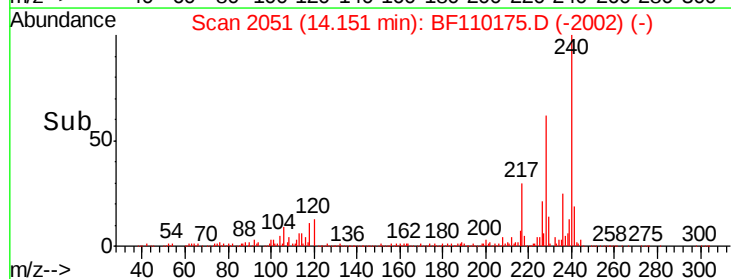
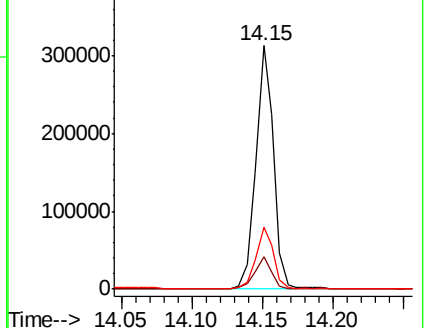
236 25.2 21.2 31.8

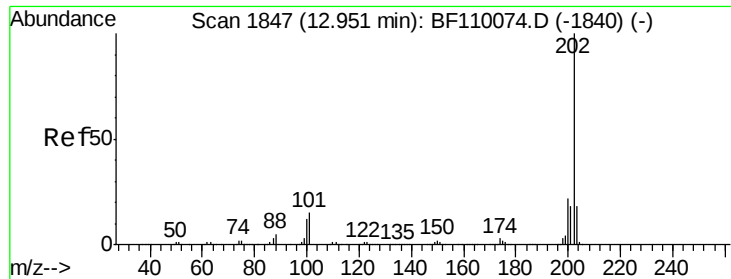


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

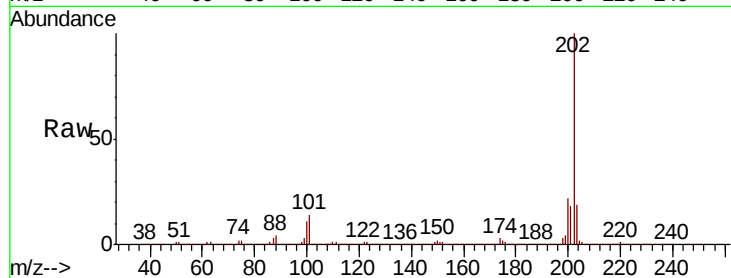




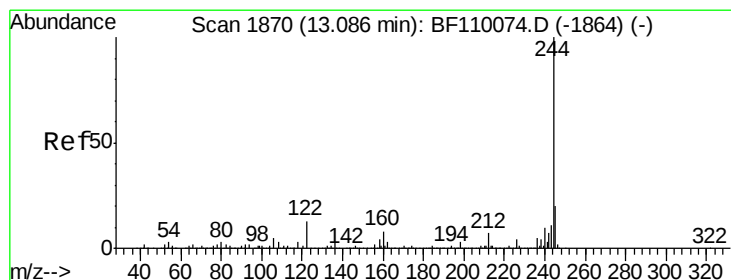
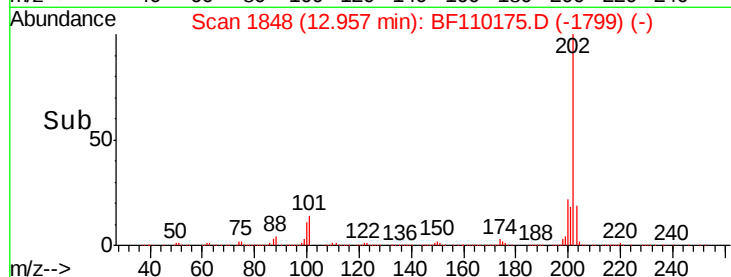
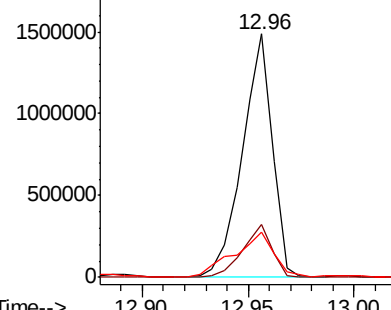
#78  
Pvrene  
Concen: 74.261 ng  
RT: 12.96 min Scan# 1848  
Delta R.T. -0.01 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:202 Resp: 1463714  
Ion Ratio Lower Upper  
202 100  
200 21.9 17.8 26.6  
203 18.7 14.2 21.4

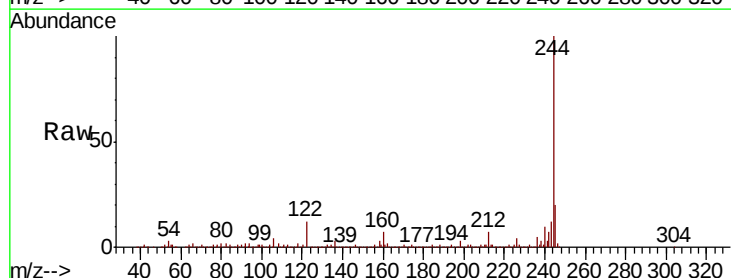


Abundance Ion 202.00 (201.70 to 202.70): E  
2000000 Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E

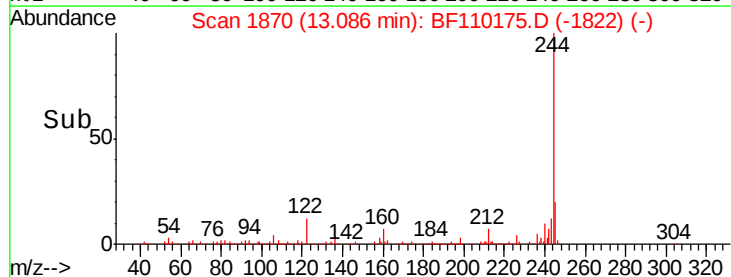
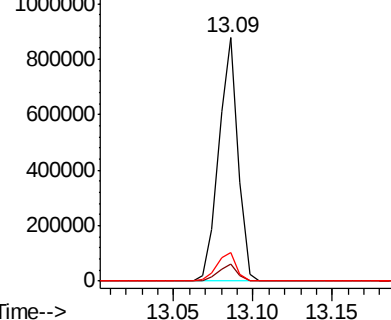


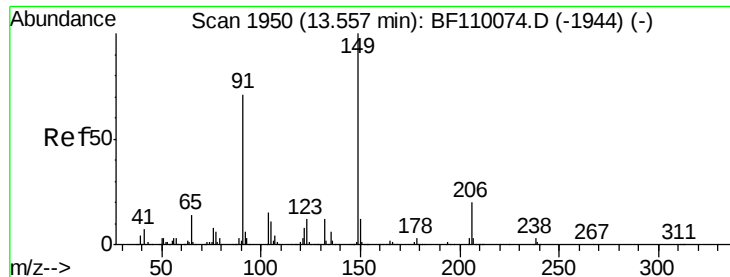
#79  
Terphenyl-d14  
Concen: 55.625 ng  
RT: 13.09 min Scan# 1870  
Delta R.T. -0.02 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Tgt Ion:244 Resp: 735357  
Ion Ratio Lower Upper  
244 100  
212 6.8 5.8 8.8  
122 11.6 8.7 13.1



Abundance Ion 244.00 (243.70 to 244.70): E  
1200000 Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E

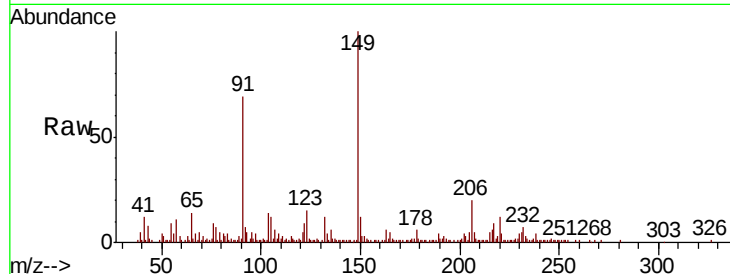




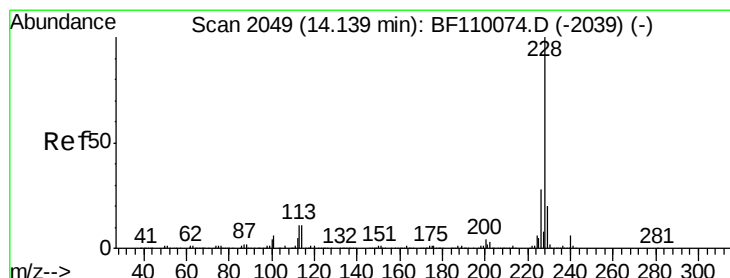
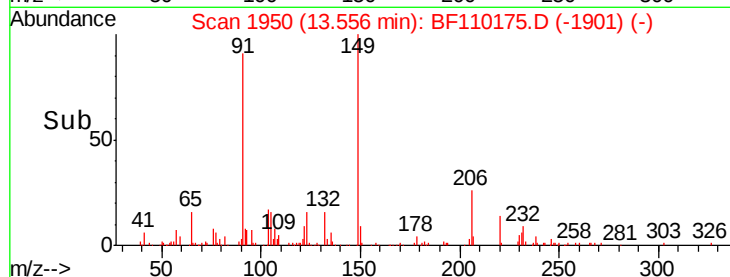
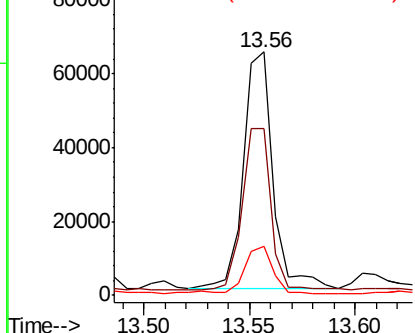
#80  
Butylbenzylphthalate  
Concen: 7.193 ng  
RT: 13.56 min Scan# 1950  
Delta R.T. -0.01 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 68.7  | 57.2  | 85.8  |
| 206     | 20.3  | 15.7  | 23.5  |

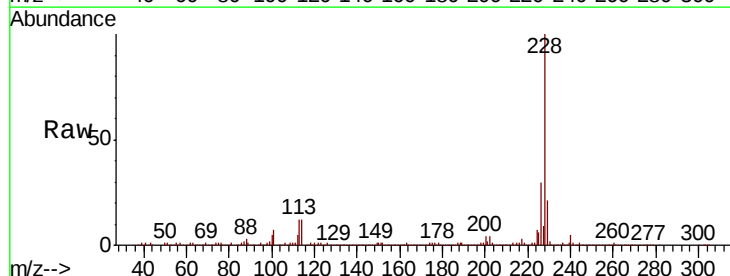


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 91.00 (90.70 to 91.70): BF1  
Ion 206.00 (205.70 to 206.70): E

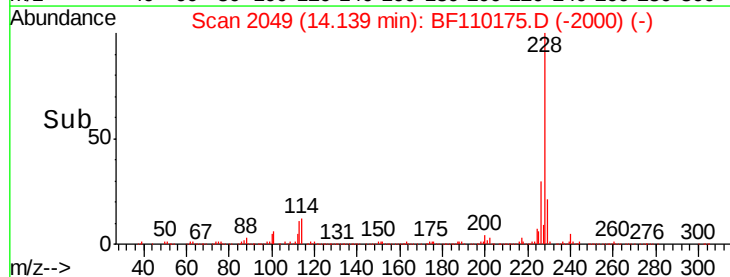
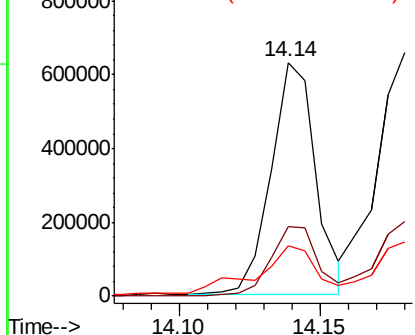


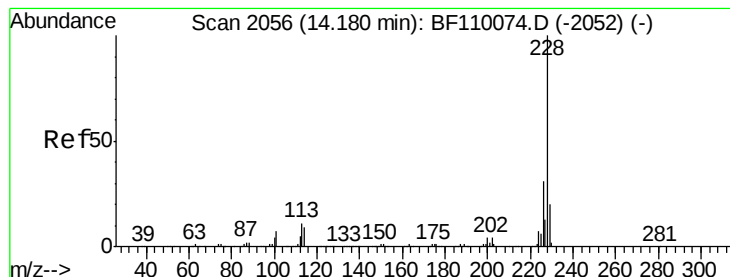
#81  
Benzo(a)anthracene  
Concen: 42.460 ng  
RT: 14.14 min Scan# 2049  
Delta R.T. -0.01 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.0  | 22.1  | 33.1  |
| 229     | 21.4  | 15.6  | 23.4  |



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





#83

Chrysene

Concen: 41.228 ng

RT: 14.18 min Scan# 2056

Delta R.T. -0.01 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

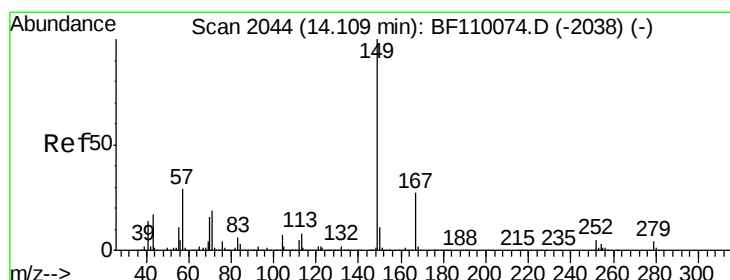
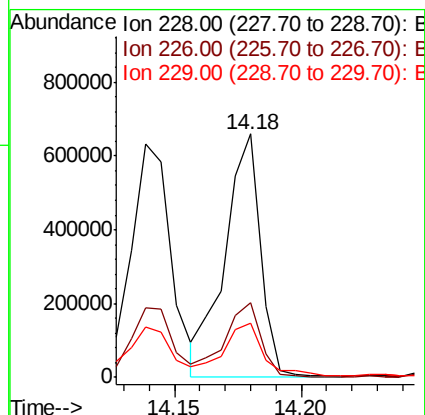
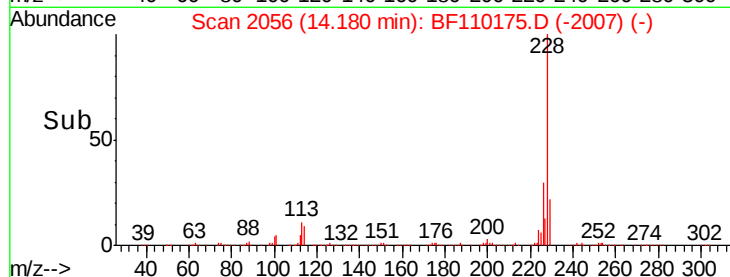
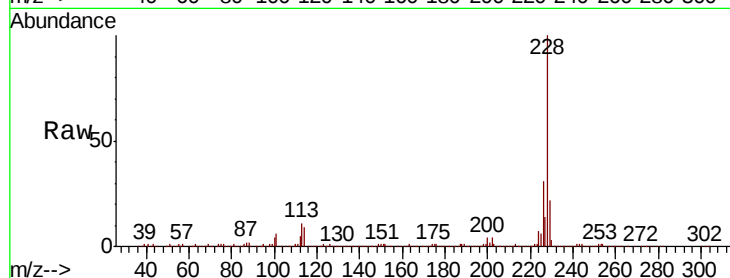
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:228 Resp: 638447

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.7  | 24.7  | 37.1  |
| 229 | 22.3  | 15.9  | 23.9  |



#84

Bis(2-ethylhexyl)phthalate

Concen: 5.963 ng

RT: 14.11 min Scan# 2044

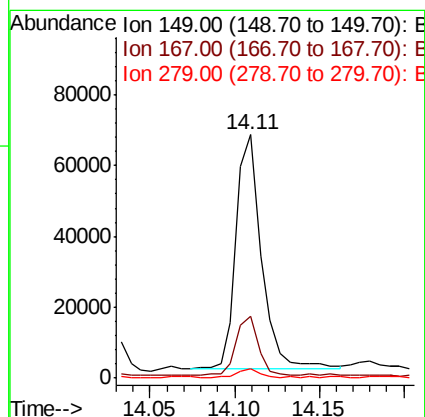
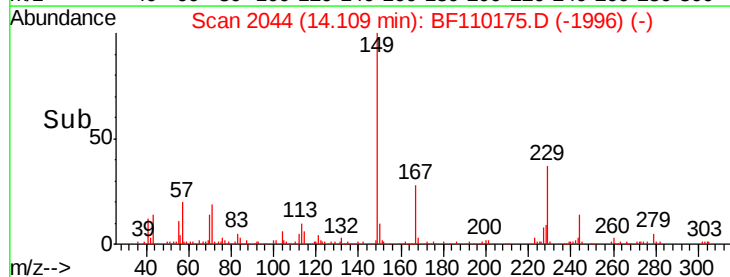
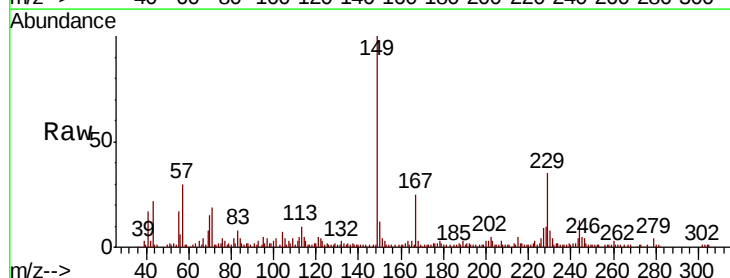
Delta R.T. -0.02 min

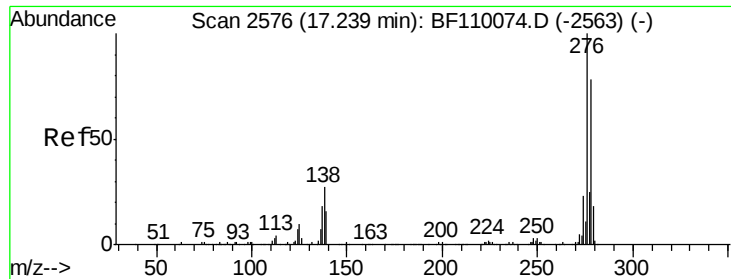
Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

Tgt Ion:149 Resp: 68961

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 25.2  | 19.8  | 29.8  |
| 279 | 3.8   | 2.7   | 4.1   |

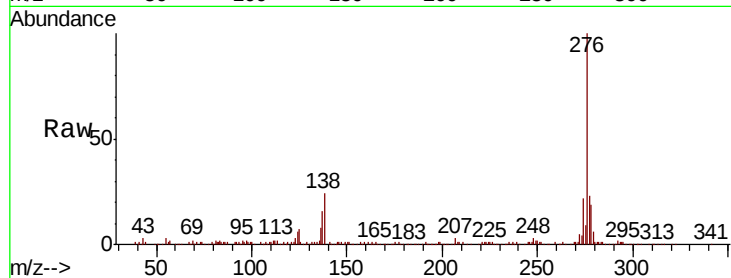




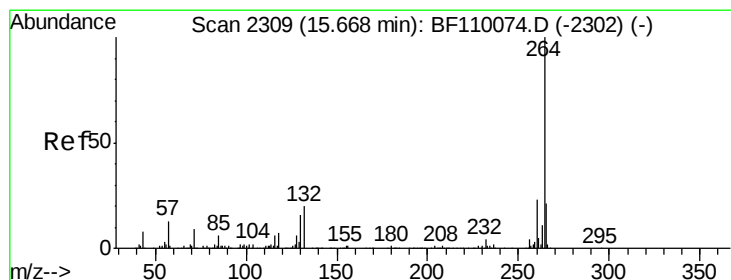
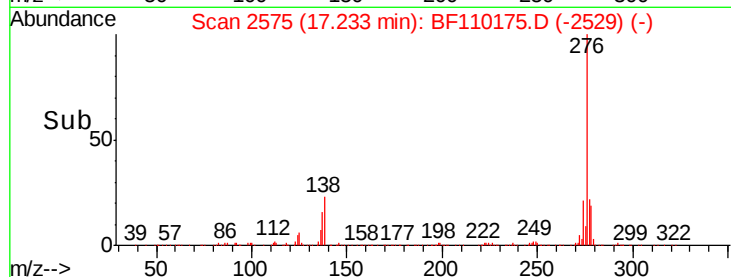
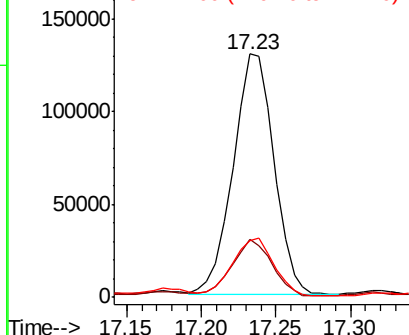
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 19.304 ng  
RT: 17.23 min Scan# 2575  
Delta R.T. -0.03 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.8  | 18.5  | 27.7  |
| 277     | 24.5  | 20.0  | 30.0  |

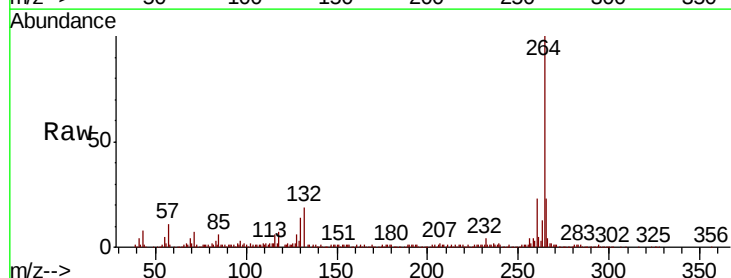


Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

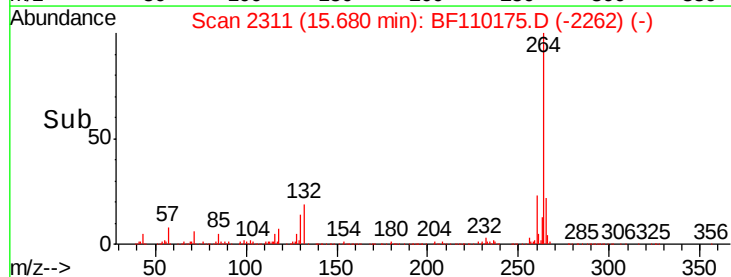
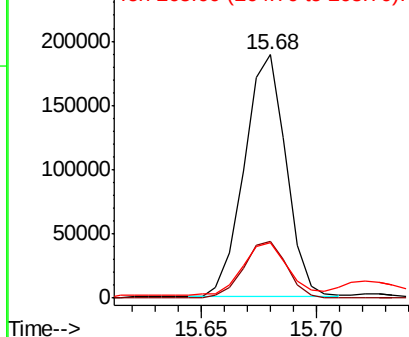


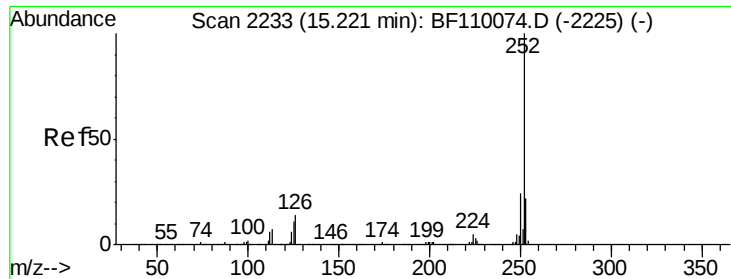
#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.68 min Scan# 2311  
Delta R.T. -0.01 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 18.7  | 28.1  |
| 265     | 22.9  | 16.7  | 25.1  |



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

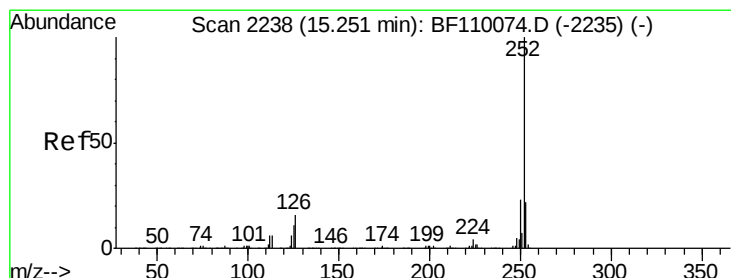
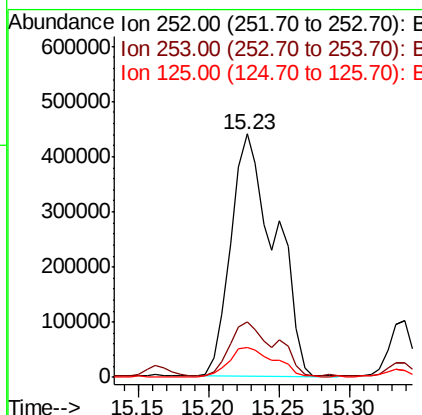
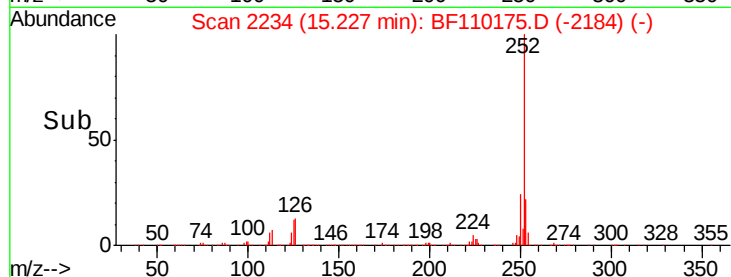
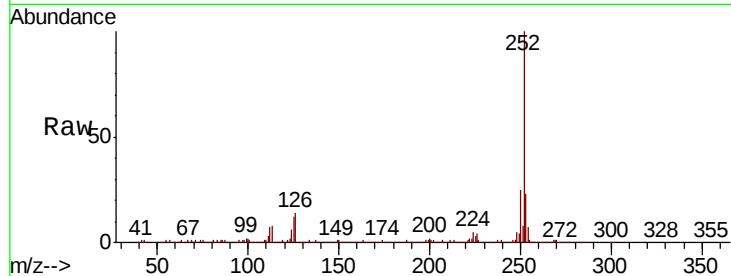




#88  
Benzo(b)fluoranthene  
Concen: 69.950 ng  
RT: 15.23 min Scan# 2234  
Delta R.T. -0.01 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

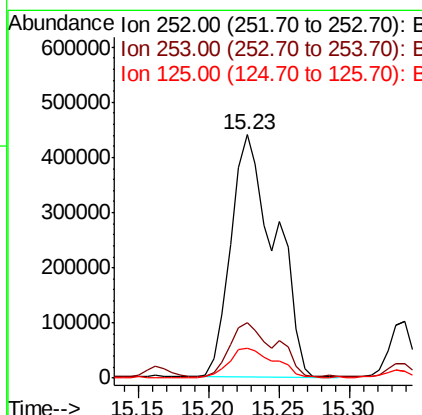
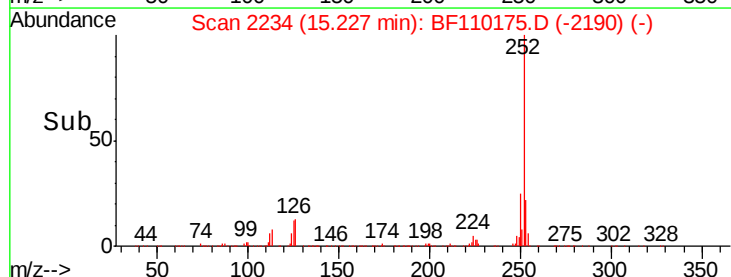
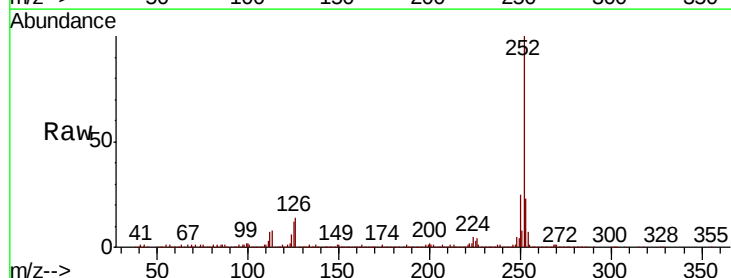
Instrument :  
BNA\_F  
ClientSampled :

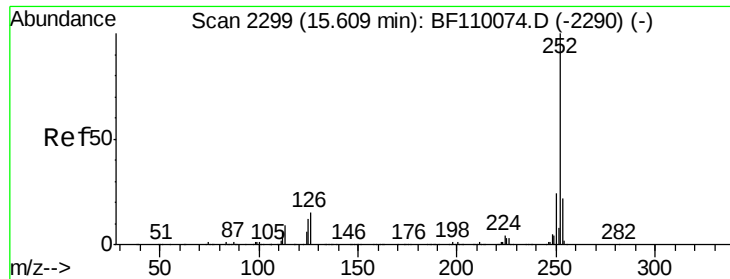
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.2  | 25.8  |
| 125     | 12.2  | 8.2   | 12.4  |



#89  
Benzo(k)fluoranthene  
Concen: 71.152 ng  
RT: 15.23 min Scan# 2234  
Delta R.T. -0.04 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.2  | 25.8  |
| 125     | 12.2  | 7.4   | 11.0# |

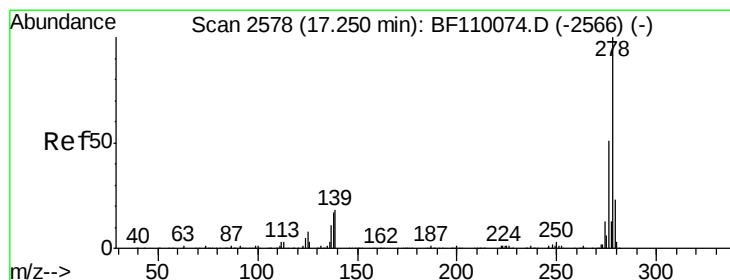
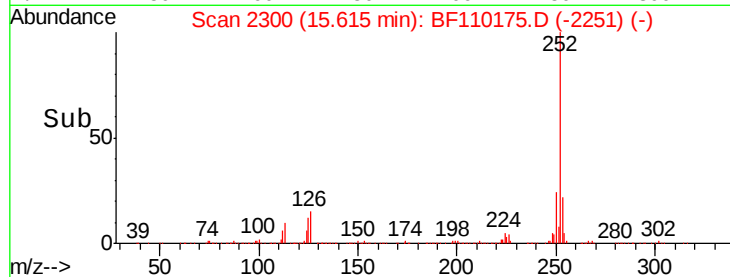
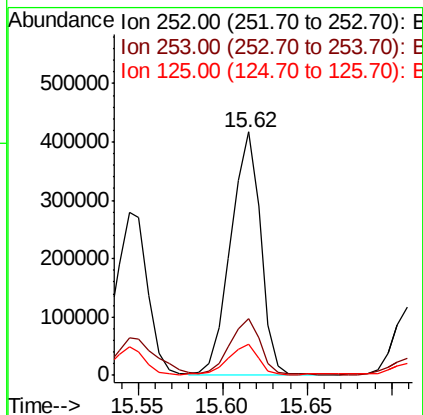
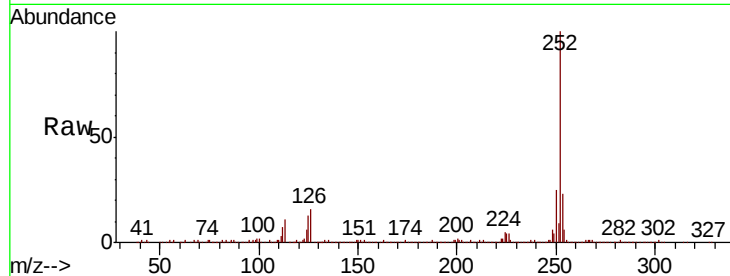




#90  
Benzo(a)pyrene  
Concen: 40.102 ng  
RT: 15.62 min Scan# 2300  
Delta R.T. -0.01 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

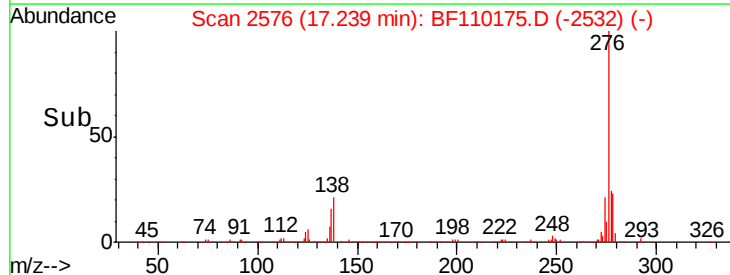
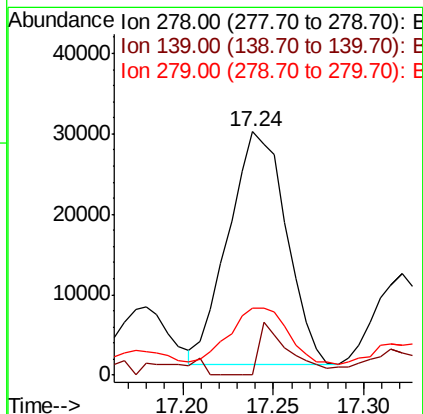
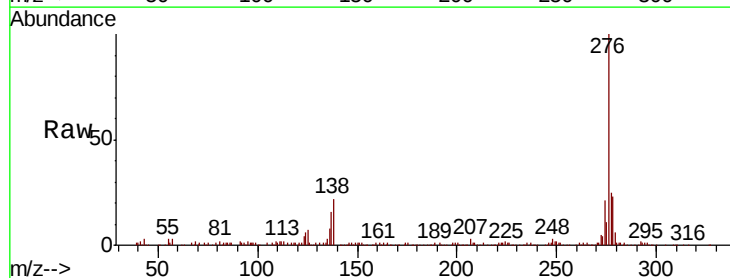
Instrument :  
BNA\_F  
ClientSampleId :

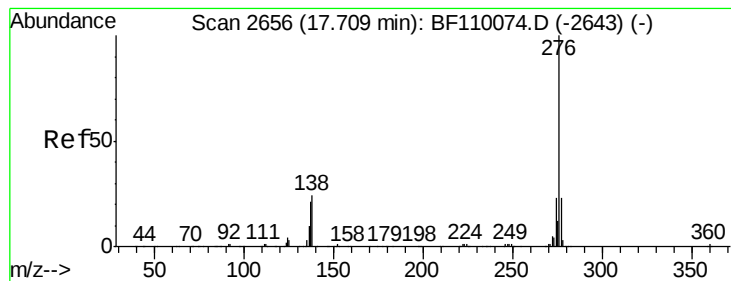
Tot Ion:252 Resp: 507773  
Ion Ratio Lower Upper  
252 100  
253 23.1 18.2 27.4  
125 12.6 9.0 13.6



#91  
Dibenzo(a,h)anthracene  
Concen: 5.886 ng  
RT: 17.24 min Scan# 2576  
Delta R.T. -0.04 min  
Lab File: BF110175.D  
Acq: 25 Oct 2018 22:02

Tgt Ion:278 Resp: 64311  
Ion Ratio Lower Upper  
278 100  
139 0.0 12.7 19.1#  
279 27.7 19.0 28.4





#92

Benzo(a,h,i)perylene

Concen: 21.664 ng

RT: 17.72 min Scan# 2657

Delta R.T. -0.02 min

Lab File: BF110175.D

Acq: 25 Oct 2018 22:02

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 276 Resp: 233232

Ion Ratio Lower Upper

276 100

277 24.0 18.8 28.2

138 24.1 16.0 24.0#

