

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF091117\  
 Data File : BF098441.D  
 Acq On : 12 Sep 2017 9:46  
 Operator : SJ/JU  
 Sample : I5151-03DL 250X  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 12 11:39:40 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 12 02:14:50 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.67  | 152  | 230587   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.95  | 136  | 933019   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.70  | 164  | 378735   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.18 | 188  | 548716   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.82 | 240  | 375183   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.22 | 264  | 380917   | 20.00 | ng    | 0.00     |

|                             |       |     |      |      |    |       |
|-----------------------------|-------|-----|------|------|----|-------|
| System Monitoring Compounds |       |     |      |      |    |       |
| 5) 2-Fluorophenol           | 5.30  | 112 | 4882 | 0.31 | ng | 0.02  |
| 7) Phenol-d6                | 6.34  | 99  | 8062 | 0.41 | ng | 0.02  |
| 23) Nitrobenzene-d5         | 7.24  | 82  | 5099 | 0.30 | ng | 0.00  |
| 41) 2,4,6-Tribromophenol    | 10.49 | 330 | 418  | 0.17 | ng | 0.00  |
| 44) 2-Fluorobiphenyl        | 9.02  | 172 | 9371 | 0.42 | ng | -0.01 |
| 78) Terphenyl-d14           | 12.76 | 244 | 5088 | 0.29 | ng | 0.00  |

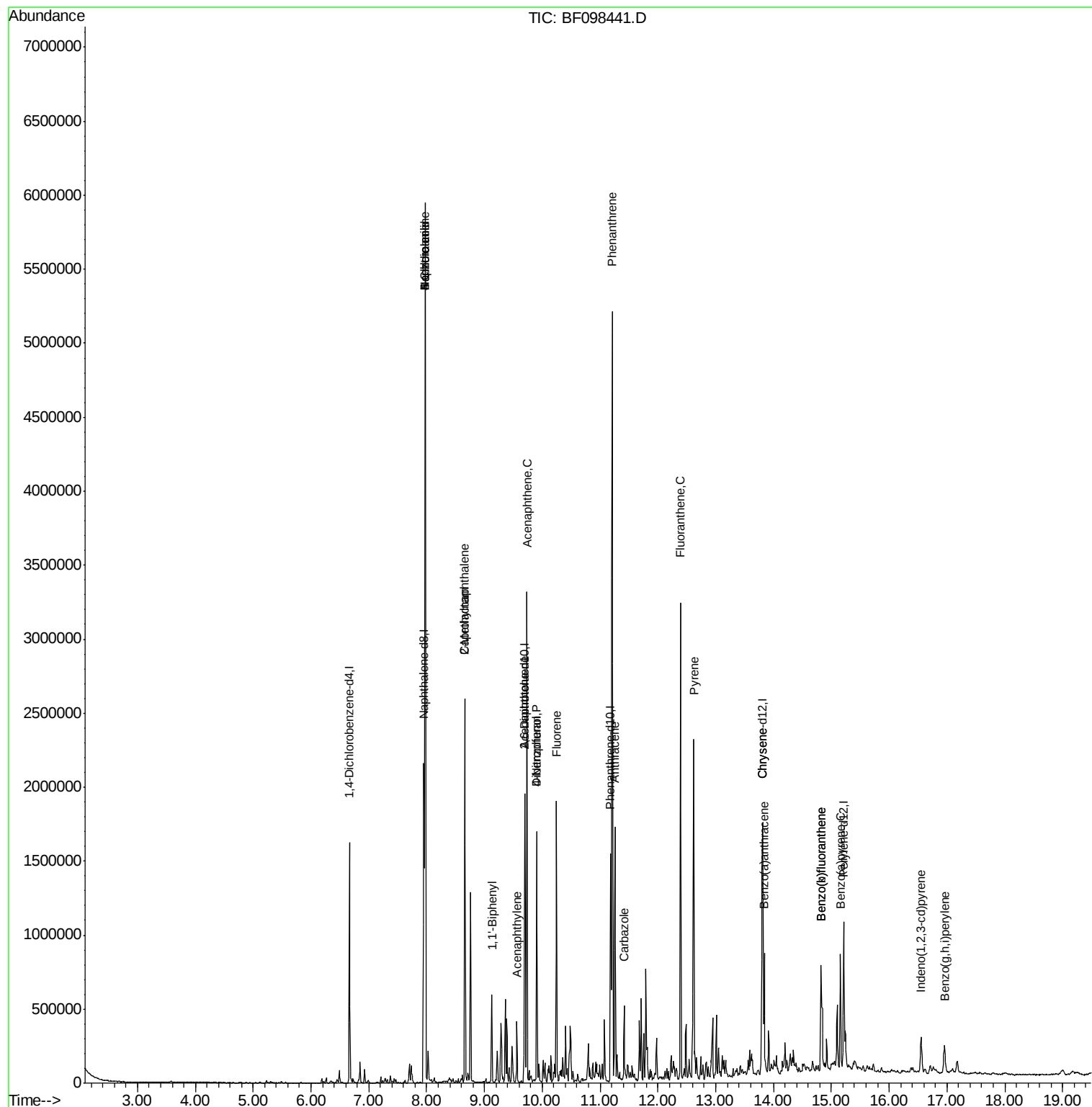
|                            |       |     |         |        |    |      |
|----------------------------|-------|-----|---------|--------|----|------|
| Target Compounds           |       |     |         | Qvalue |    |      |
| 31) Naphthalene            | 7.98  | 128 | 2890824 | 62.675 | ng | 99   |
| 32) Benzoic acid           | 7.97  | 122 | 7441    | 8.600  | ng | # 1  |
| 33) 4-Chloroaniline        | 7.98  | 127 | 392308  | 20.928 | ng | # 34 |
| 35) Caprolactam            | 8.66  | 113 | 14020   | 3.332  | ng | # 1  |
| 37) 2-Methylnaphthalene    | 8.66  | 142 | 606207  | 21.697 | ng | 98   |
| 45) 1,1'-Biphenyl          | 9.13  | 154 | 186810  | 5.511  | ng | 98   |
| 48) Acenaphthylene         | 9.56  | 152 | 115212  | 3.201  | ng | # 95 |
| 50) 2,6-Dinitrotoluene     | 9.70  | 165 | 59167   | 9.825  | ng | # 34 |
| 51) Acenaphthene           | 9.73  | 154 | 644222  | 28.155 | ng | 98   |
| 54) Dibenzofuran           | 9.90  | 168 | 542833  | 18.008 | ng | 98   |
| 55) 4-Nitrophenol          | 9.90  | 139 | 208992  | 50.040 | ng | # 27 |
| 57) Fluorene               | 10.25 | 166 | 463156  | 18.563 | ng | 99   |
| 70) Phenanthrene           | 11.21 | 178 | 1856753 | 63.830 | ng | 99   |
| 71) Anthracene             | 11.26 | 178 | 567296  | 18.995 | ng | 98   |
| 72) Carbazole              | 11.42 | 167 | 162771  | 5.848  | ng | 97   |
| 74) Fluoranthene           | 12.39 | 202 | 1119864 | 38.456 | ng | 98   |
| 77) Pyrene                 | 12.62 | 202 | 951401  | 32.145 | ng | 99   |
| 80) Benzo(a)anthracene     | 13.84 | 228 | 263326  | 11.971 | ng | 95   |
| 82) Chrysene               | 13.80 | 228 | 377857  | 16.994 | ng | 93   |
| 85) Indeno(1,2,3-cd)pyrene | 16.55 | 276 | 132141  | 8.471  | ng | 96   |
| 87) Benzo(b)fluoranthene   | 14.82 | 252 | 491551  | 20.523 | ng | 98   |
| 88) Benzo(k)fluoranthene   | 14.82 | 252 | 491551  | 21.984 | ng | 98   |
| 89) Benzo(a)pyrene         | 15.16 | 252 | 304893  | 14.289 | ng | 96   |
| 91) Benzo(g,h,i)perylene   | 16.96 | 276 | 121745  | 7.798  | ng | 99   |

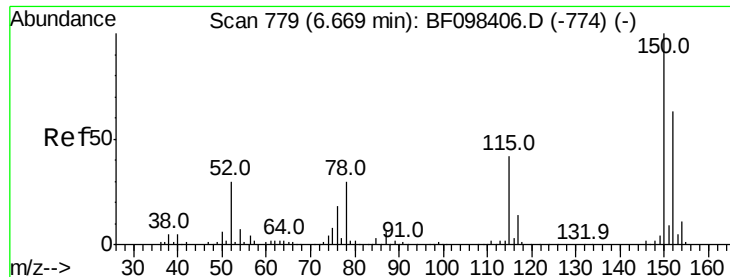
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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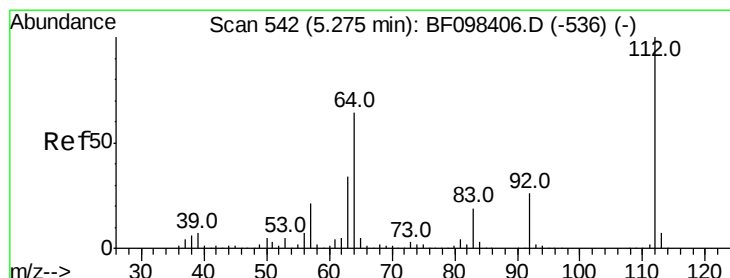
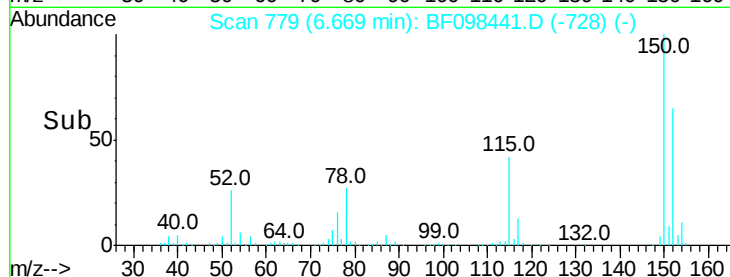
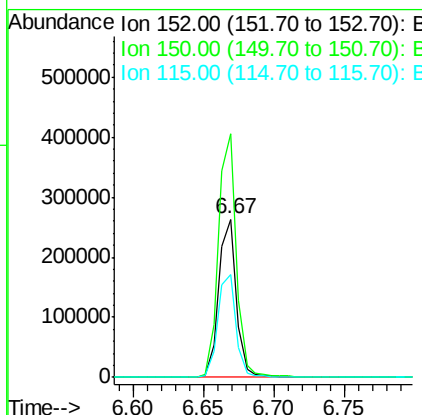
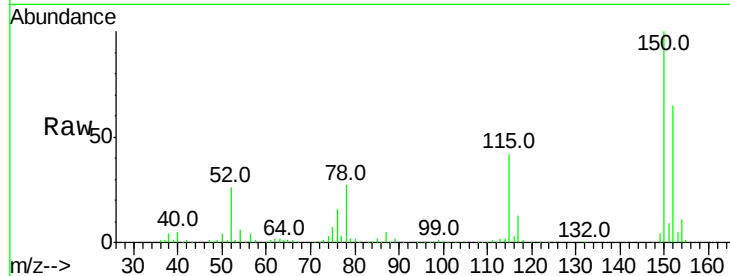


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.67 min Scan# 779  
Delta R.T. 0.00 min  
Lab File: BF098441.D  
Acq: 12 Sep 2017 9:46

Instrument :  
BNA\_F  
ClientSampleId :

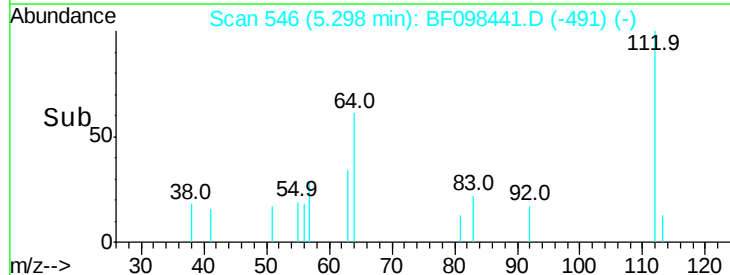
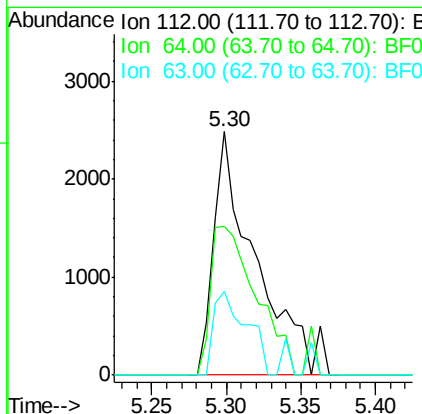
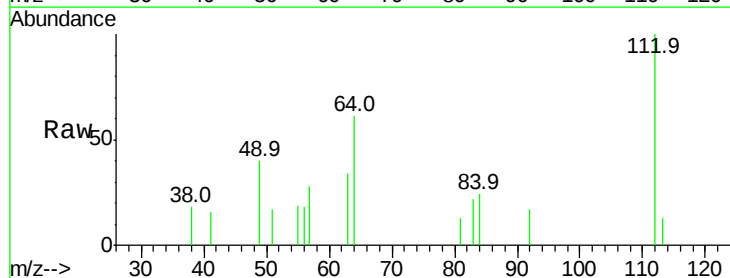
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Ion Ratio Lower Upper  
152 100  
150 154.2 126.2 189.2  
115 64.8 52.2 78.2

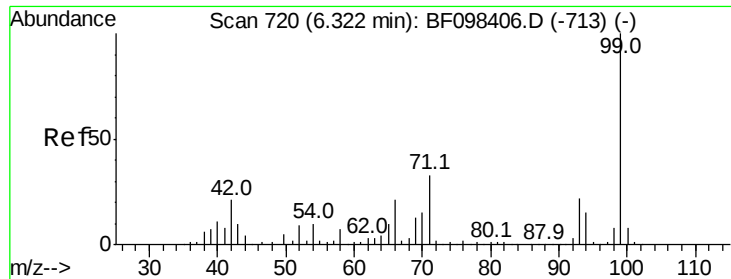


#5

2-Fluorophenol  
Concen: 0.313 ng  
RT: 5.30 min Scan# 546  
Delta R.T. 0.02 min  
Lab File: BF098441.D  
Acq: 12 Sep 2017 9:46

Tgt Ion:112 Resp: 4882  
Ion Ratio Lower Upper  
112 100  
64 61.3 46.0 69.0  
63 34.1 23.4 35.0





#7

Phenol-d6

Concen: 0.407 ng

RT: 6.34 min Scan# 723

Delta R.T. 0.02 min

Lab File: BF098441.D

Acq: 12 Sep 2017 9:46

Instrument :

BNA\_F

ClientSampleId :

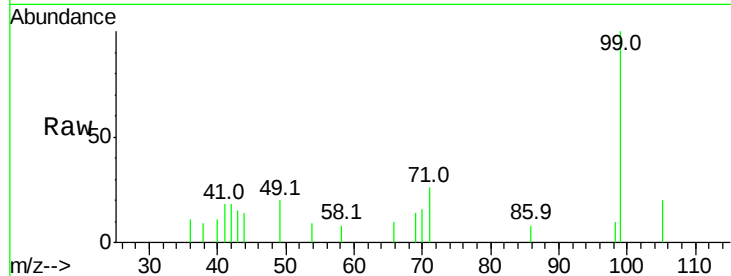
Tot Ion: 99 Resp: 8062

Ion Ratio Lower Upper

99 100

42 17.7 13.5 20.3

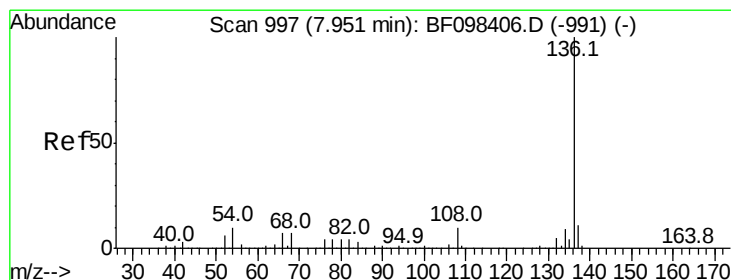
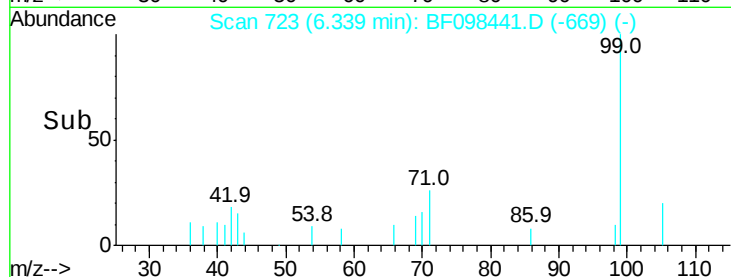
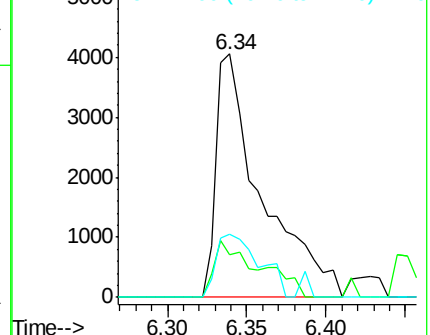
71 26.2 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.95 min Scan# 997

Delta R.T. 0.00 min

Lab File: BF098441.D

Acq: 12 Sep 2017 9:46

Tgt Ion: 136 Resp: 933019

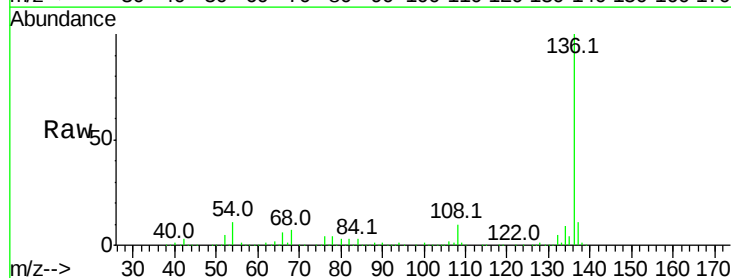
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 10.8 4.9 7.3#

68 7.5 4.1 6.1#

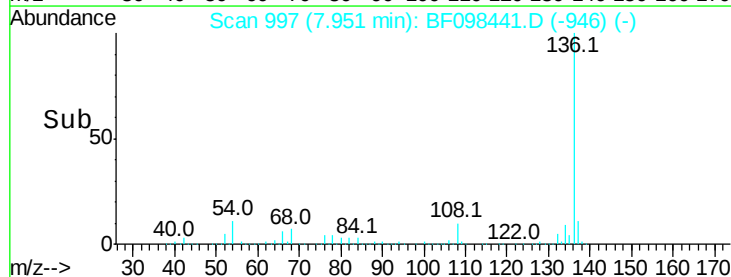
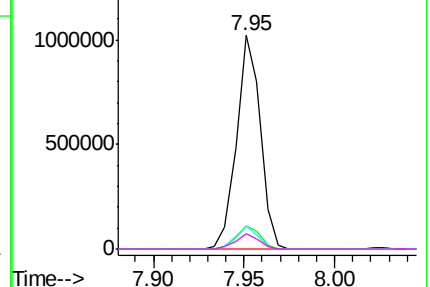


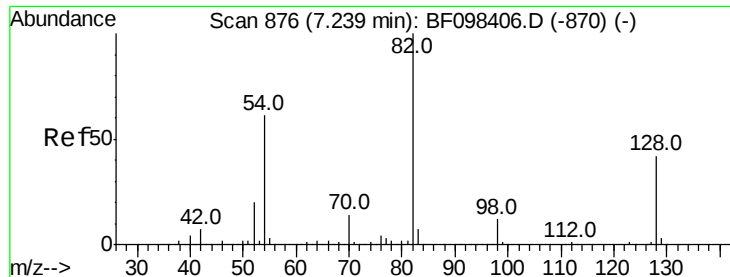
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

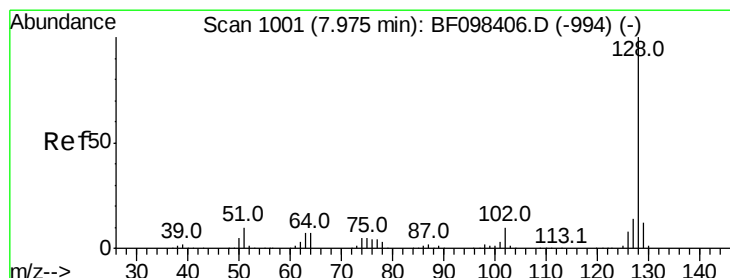
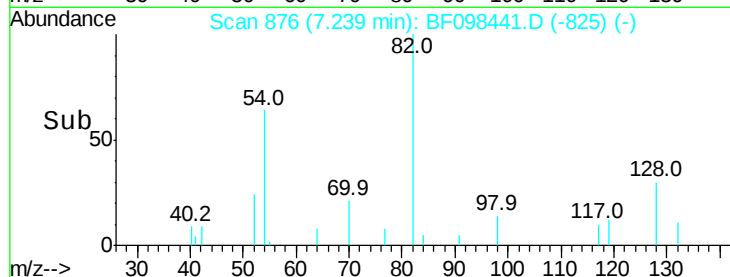
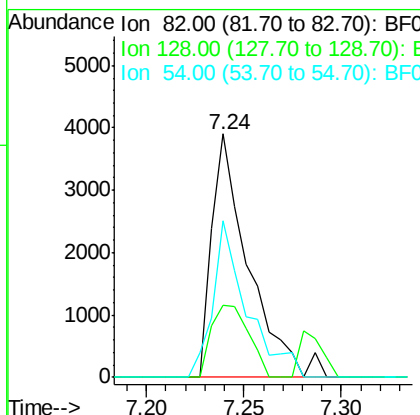
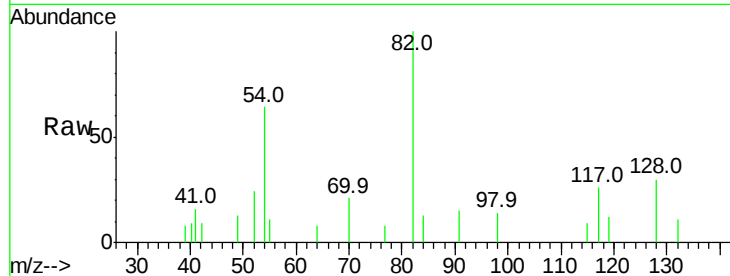




#23  
 Nitrobenzene-d5  
 Concen: 0.305 ng  
 RT: 7.24 min Scan# 876  
 Delta R.T. 0.00 min  
 Lab File: BF098441.D  
 Acq: 12 Sep 2017 9:46

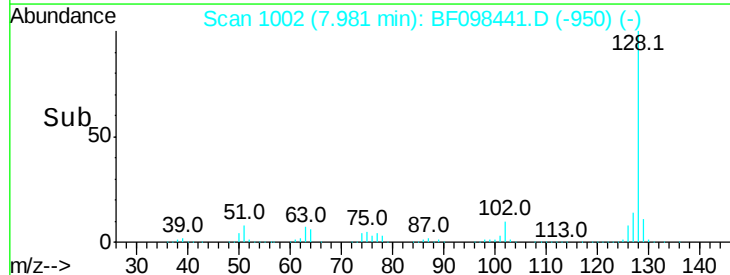
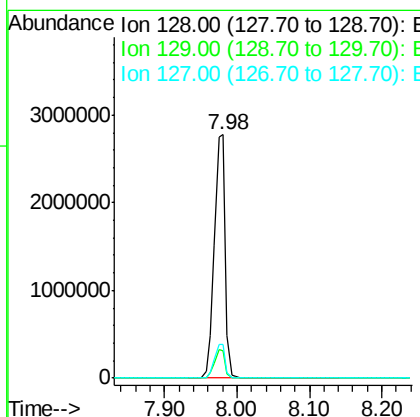
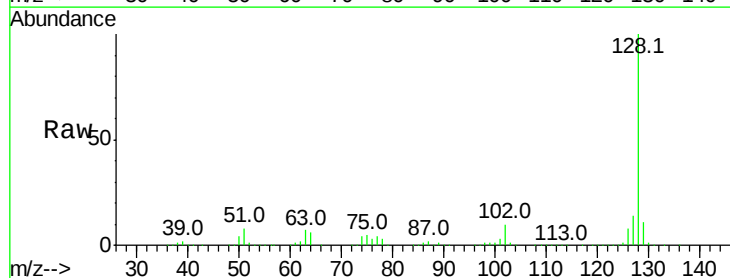
Instrument :  
 BNA\_F  
 ClientSampled :

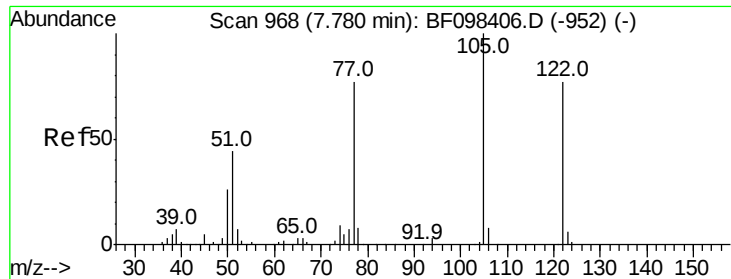
Tot Ion: 82 Resp: 5099  
 Ion Ratio Lower Upper  
 82 100  
 128 29.7 34.0 51.0#  
 54 64.4 42.2 63.2#



#31  
 Naphthalene  
 Concen: 62.675 ng  
 RT: 7.98 min Scan# 1002  
 Delta R.T. 0.01 min  
 Lab File: BF098441.D  
 Acq: 12 Sep 2017 9:46

Tgt Ion: 128 Resp: 2890824  
 Ion Ratio Lower Upper  
 128 100  
 129 11.1 9.0 13.6  
 127 13.8 10.8 16.2

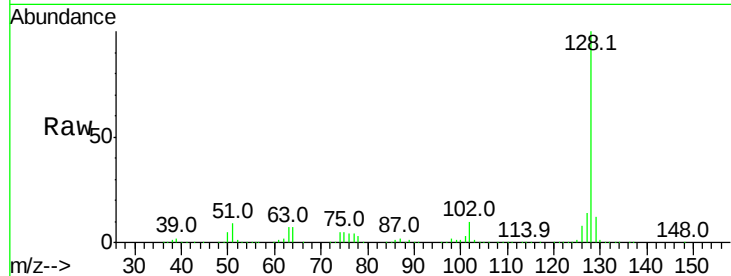




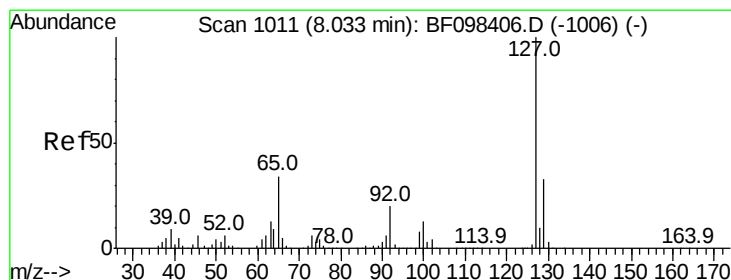
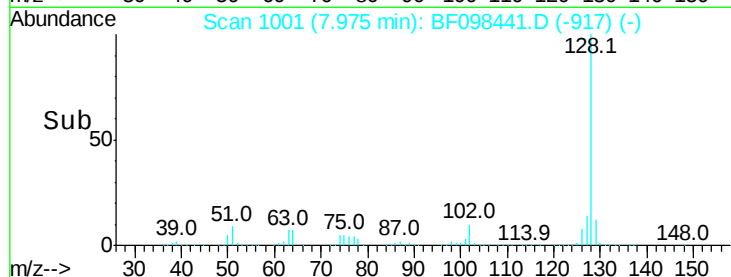
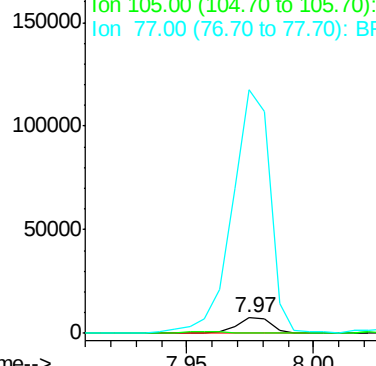
#32  
Benzoic acid  
Concen: 8.600 ng  
RT: 7.97 min Scan# 1001  
Delta R.T. 0.19 min  
Lab File: BF098441.D  
Acq: 12 Sep 2017 9:46

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:122 Resp: 7441  
Ion Ratio Lower Upper  
122 100  
105 4.5 103.3 143.3#  
77 1591.8 73.7 113.7#

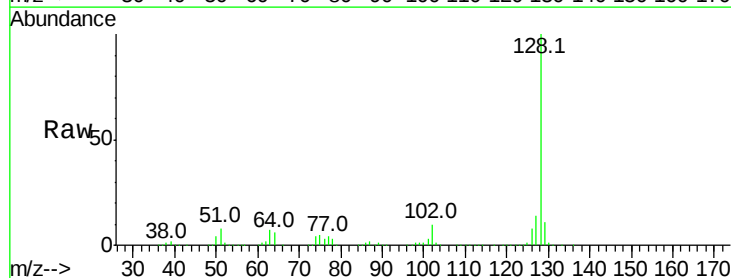


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF0

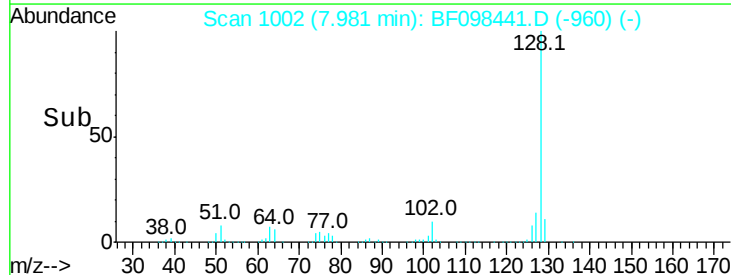
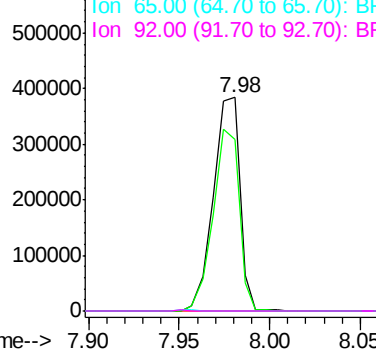


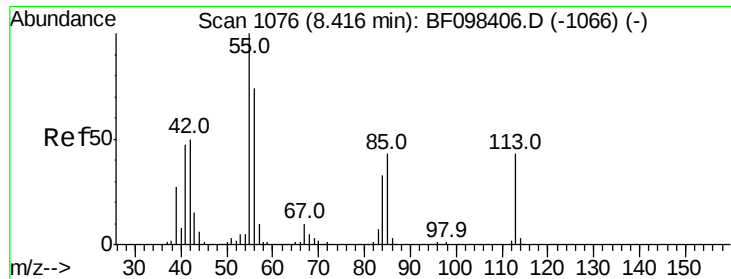
#33  
4-Chloroaniline  
Concen: 20.928 ng  
RT: 7.98 min Scan# 1002  
Delta R.T. -0.05 min  
Lab File: BF098441.D  
Acq: 12 Sep 2017 9:46

Tgt Ion:127 Resp: 392308  
Ion Ratio Lower Upper  
127 100  
129 80.4 26.2 39.2#  
65 0.0 27.8 41.8#  
92 0.0 16.8 25.2#



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): BF0  
Ion 92.00 (91.70 to 92.70): BF0

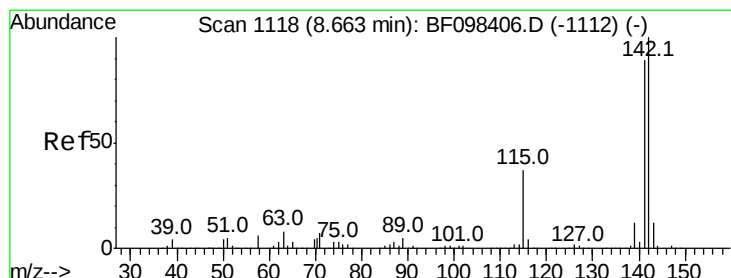
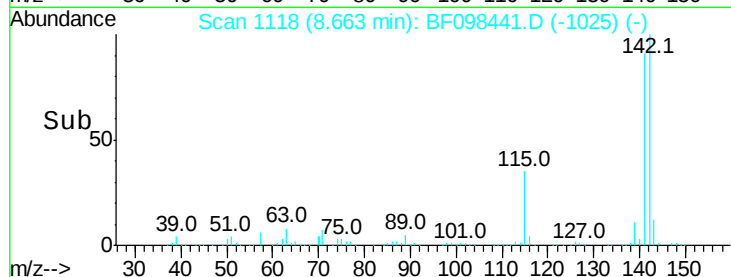
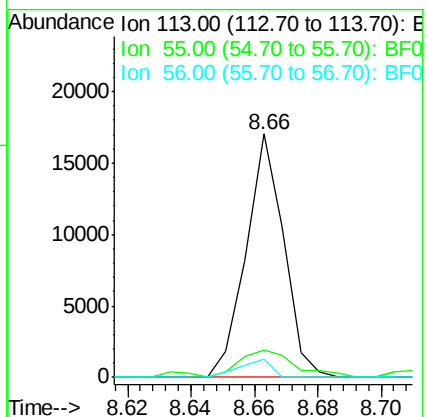
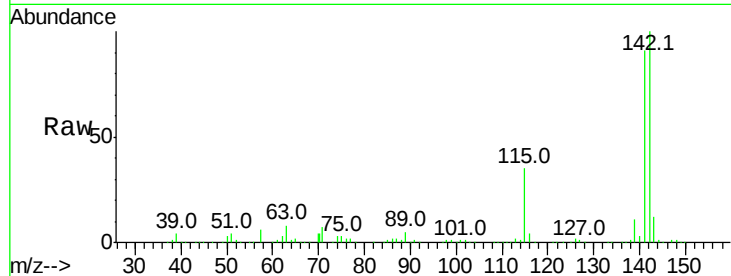




#35  
 Caprolactam  
 Concen: 3.332 ng  
 RT: 8.66 min Scan# 1118  
 Delta R.T. 0.25 min  
 Lab File: BF098441.D  
 Acq: 12 Sep 2017 9:46

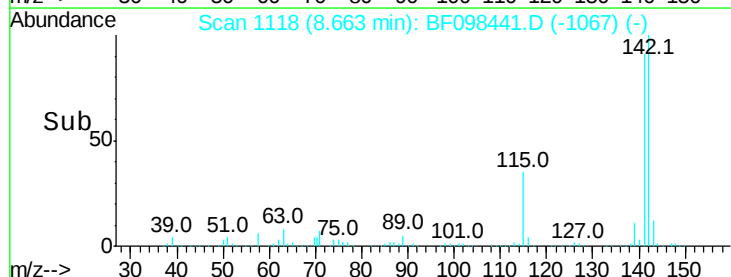
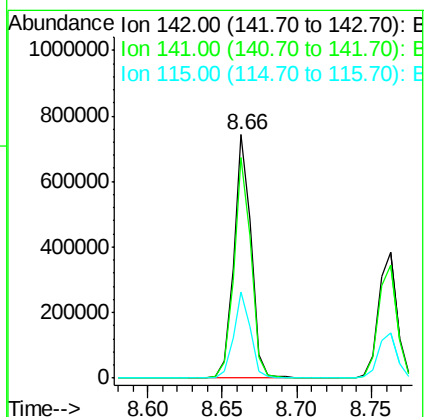
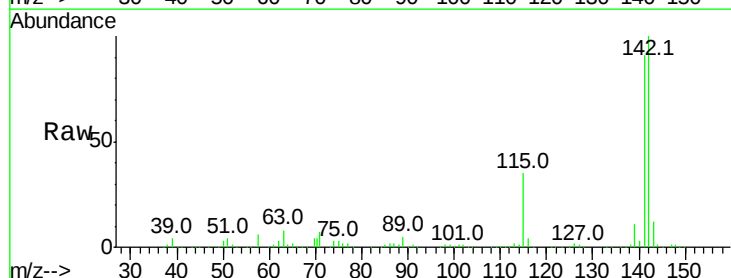
Instrument :  
 BNA\_F  
 ClientSampleId :

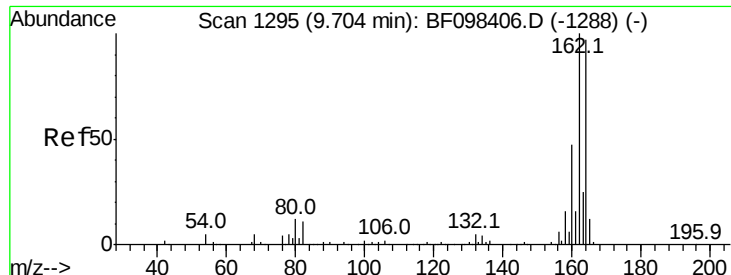
Tot Ion:113 Resp: 14020  
 Ion Ratio Lower Upper  
 113 100  
 55 11.0 150.2 190.2#  
 56 7.7 107.8 147.8#



#37  
 2-Methylnaphthalene  
 Concen: 21.697 ng  
 RT: 8.66 min Scan# 1118  
 Delta R.T. 0.00 min  
 Lab File: BF098441.D  
 Acq: 12 Sep 2017 9:46

Tgt Ion:142 Resp: 606207  
 Ion Ratio Lower Upper  
 142 100  
 141 90.8 71.3 106.9  
 115 35.4 27.1 40.7

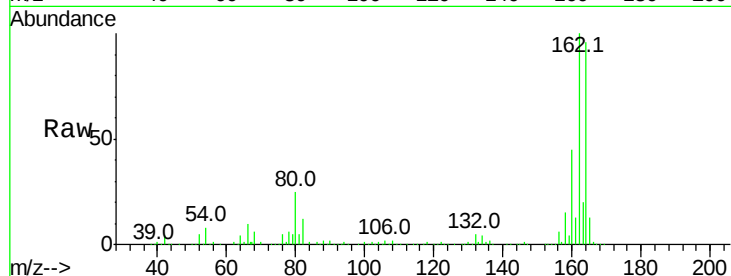




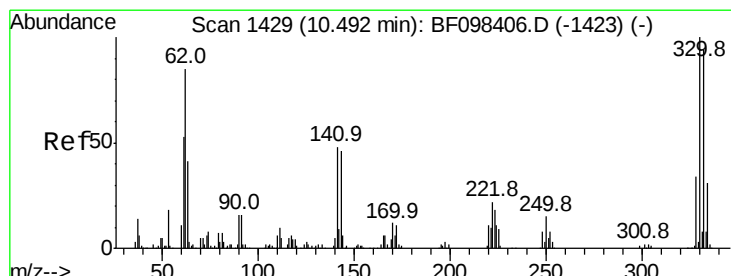
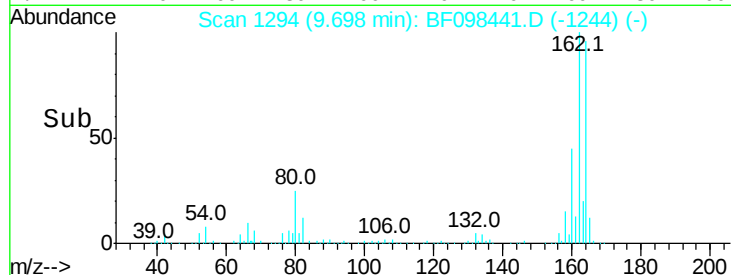
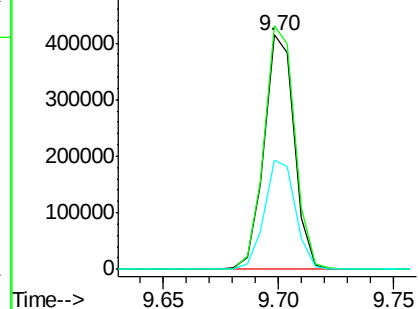
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.70 min Scan# 1294  
 Delta R.T. -0.01 min  
 Lab File: BF098441.D  
 Acq: 12 Sep 2017 9:46

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:164 Resp: 378735  
 Ion Ratio Lower Upper  
 164 100  
 162 104.0 82.6 123.8  
 160 46.6 36.2 54.2

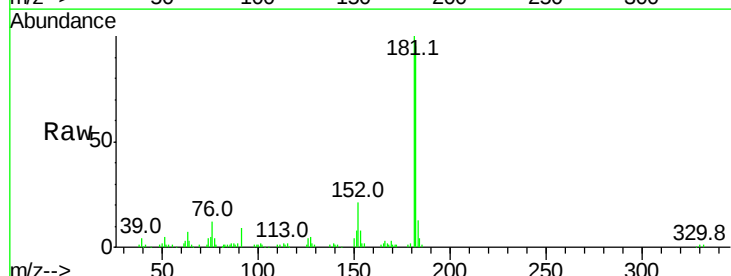


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

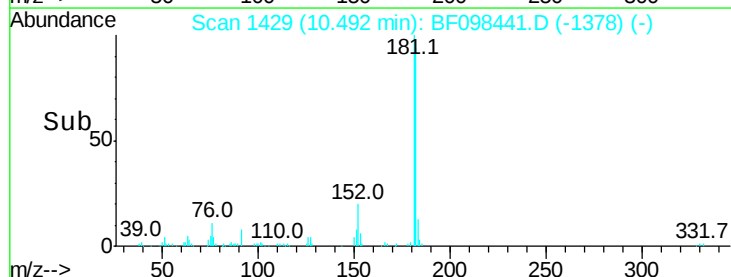
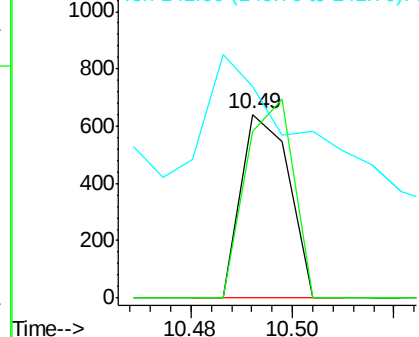


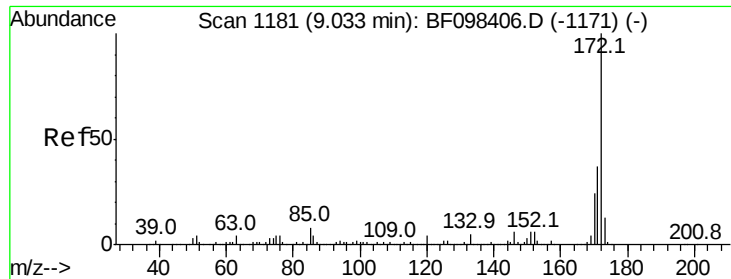
#41  
 2,4,6-Tribromophenol  
 Concen: 0.165 ng  
 RT: 10.49 min Scan# 1429  
 Delta R.T. 0.00 min  
 Lab File: BF098441.D  
 Acq: 12 Sep 2017 9:46

Tgt Ion:330 Resp: 418  
 Ion Ratio Lower Upper  
 330 100  
 332 107.7 76.6 115.0  
 141 552.6 31.4 47.2#



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

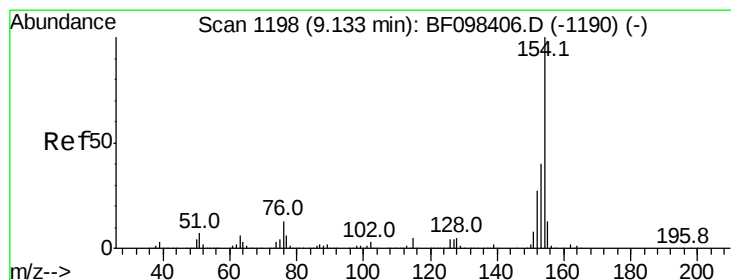
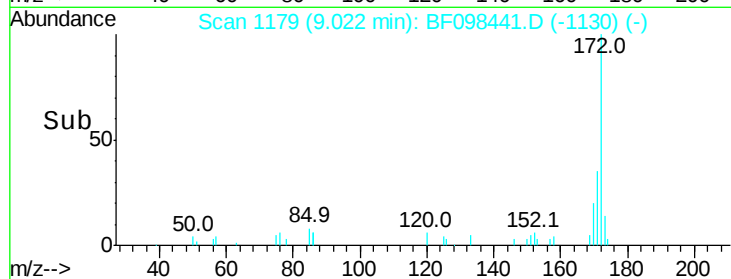
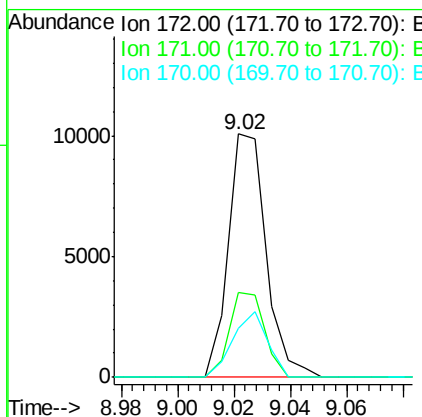
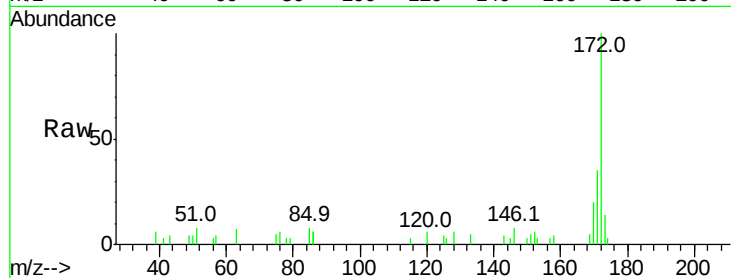




#44  
2-Fluorobiphenyl  
Concen: 0.419 ng  
RT: 9.02 min Scan# 1179  
Delta R.T. -0.01 min  
Lab File: BF098441.D  
Acq: 12 Sep 2017 9:46

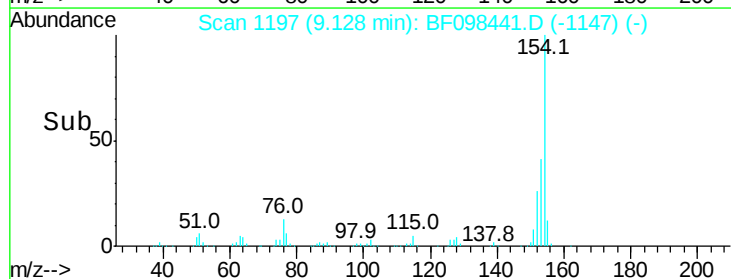
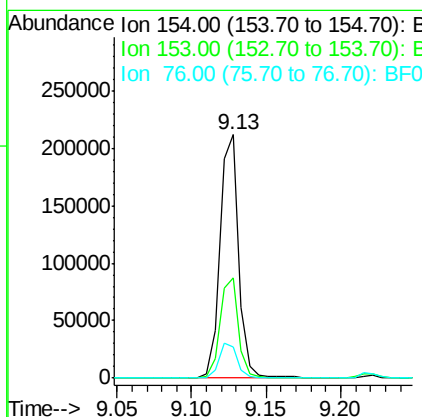
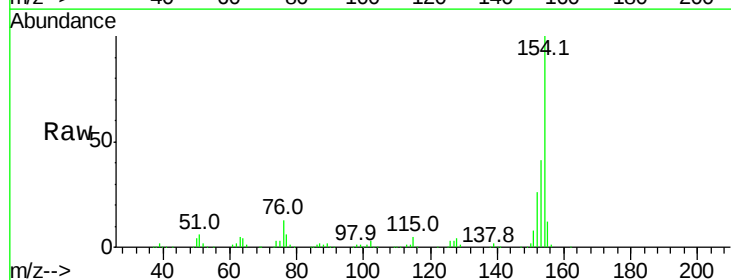
Instrument :  
BNA\_F  
ClientSampleId :

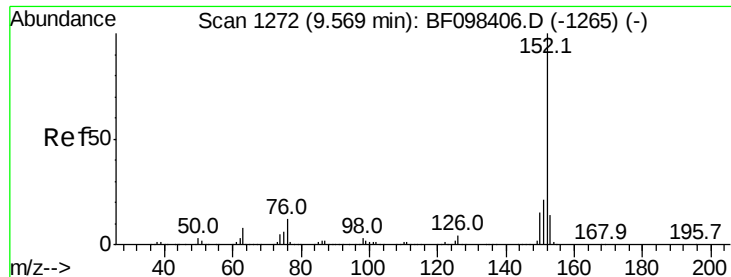
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.1  | 29.6  | 44.4  |
| 170     | 20.3  | 19.8  | 29.8  |



#45  
1,1'-Biphenyl  
Concen: 5.511 ng  
RT: 9.13 min Scan# 1197  
Delta R.T. -0.01 min  
Lab File: BF098441.D  
Acq: 12 Sep 2017 9:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 41.2  | 21.2  | 61.2  |
| 76      | 12.9  | 0.0   | 29.9  |





#48

Acenaphthylene

Concen: 3.201 ng

RT: 9.56 min Scan# 1271

Delta R.T. -0.01 min

Lab File: BF098441.D

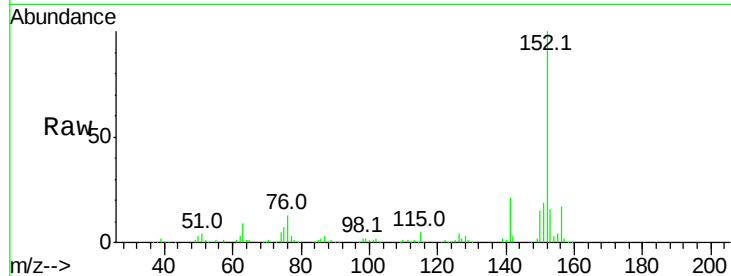
Acq: 12 Sep 2017 9:46

Instrument :

BNA\_F

ClientSampleId :

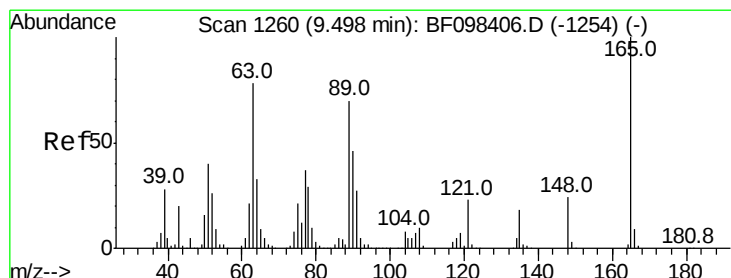
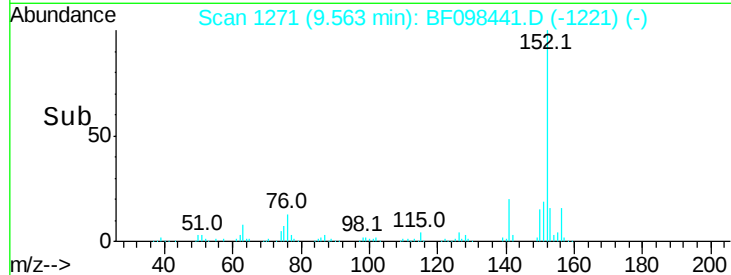
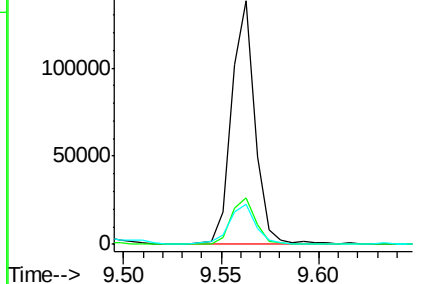
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 115212 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 19.3  | 16.8  | 25.2   |
| 153       | 16.4  | 10.8  | 16.2#  |



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

2,6-Dinitrotoluene

Concen: 9.825 ng

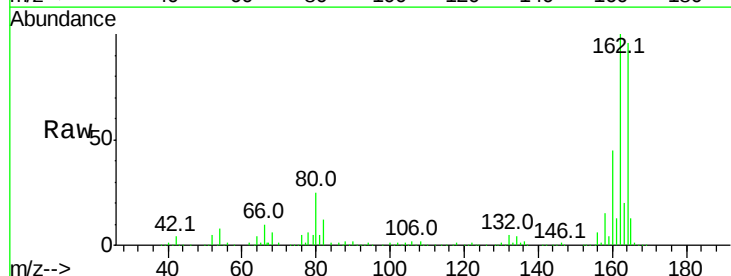
RT: 9.70 min Scan# 1294

Delta R.T. 0.20 min

Lab File: BF098441.D

Acq: 12 Sep 2017 9:46

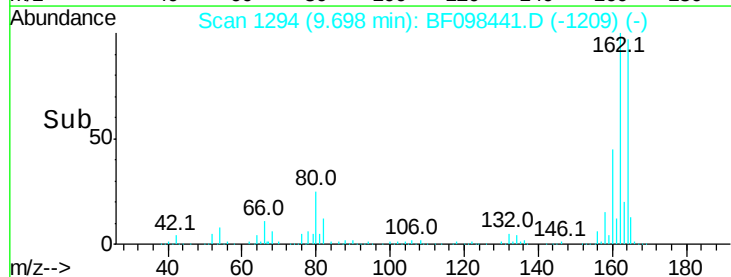
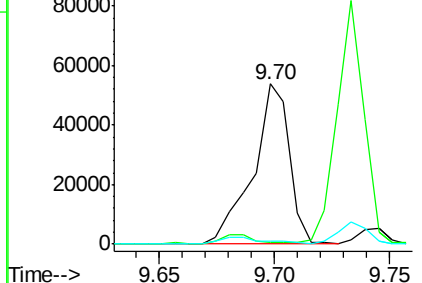
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 59167 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 1.4   | 34.3  | 51.5# |
| 89        | 1.9   | 37.1  | 55.7# |

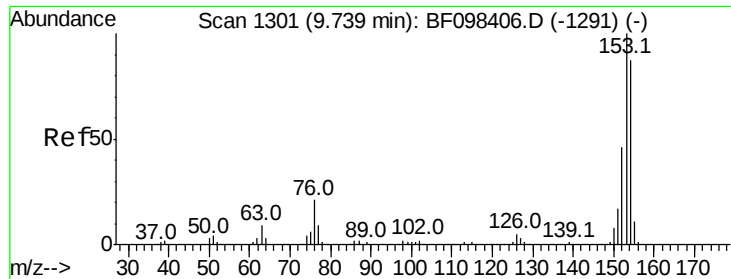


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 28.155 ng

RT: 9.73 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF098441.D

Acq: 12 Sep 2017 9:46

Instrument :

BNA\_F

ClientSampled :

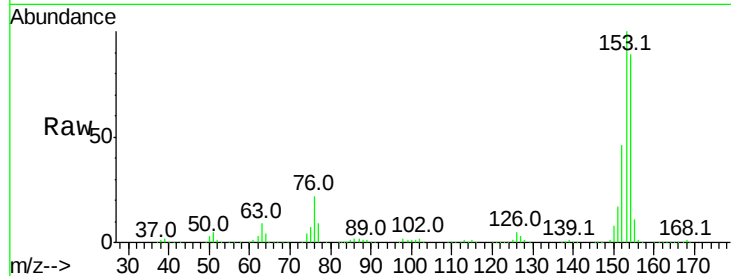
Tot Ion:154 Resp: 644222

Ion Ratio Lower Upper

154 100

153 112.4 90.5 135.7

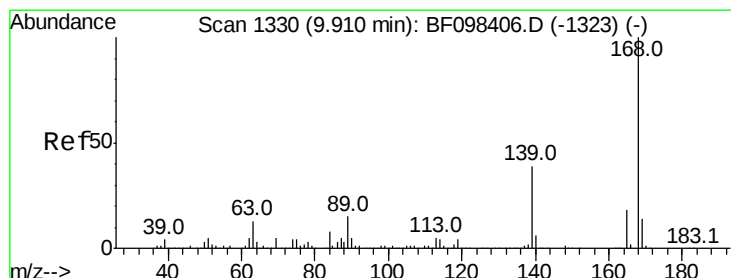
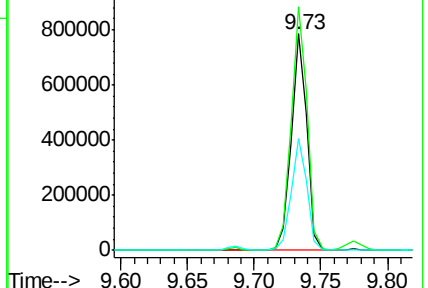
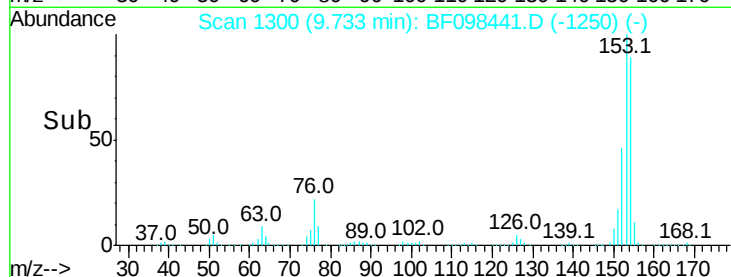
152 51.8 43.6 65.4



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

Dibenzofuran

Concen: 18.008 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.01 min

Lab File: BF098441.D

Acq: 12 Sep 2017 9:46

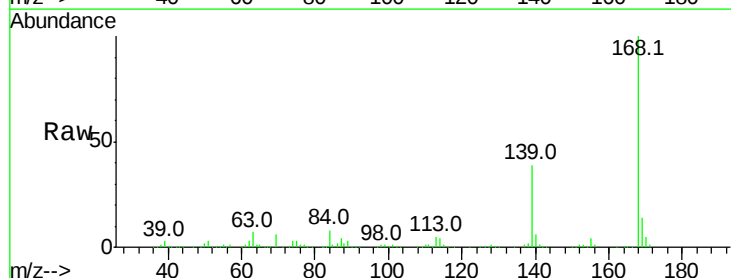
Tgt Ion:168 Resp: 542833

Ion Ratio Lower Upper

168 100

139 39.5 30.6 45.8

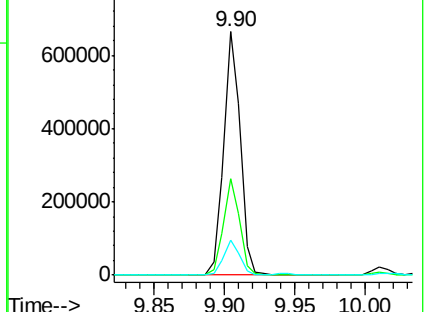
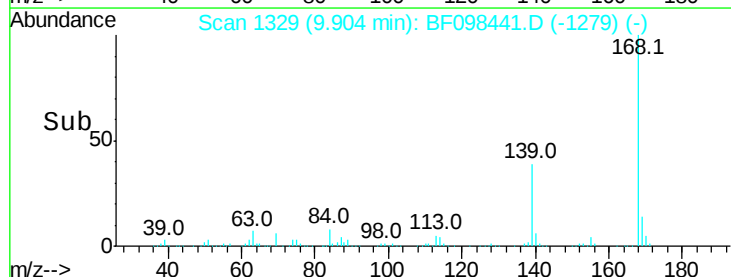
169 14.5 10.8 16.2

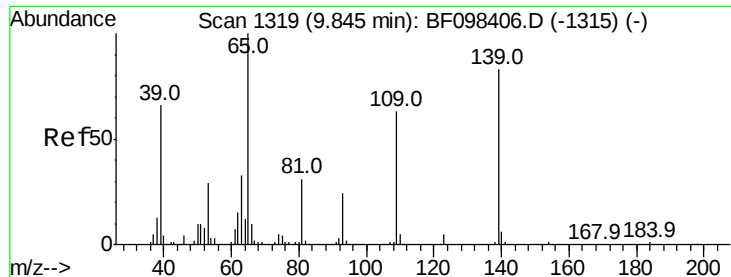


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

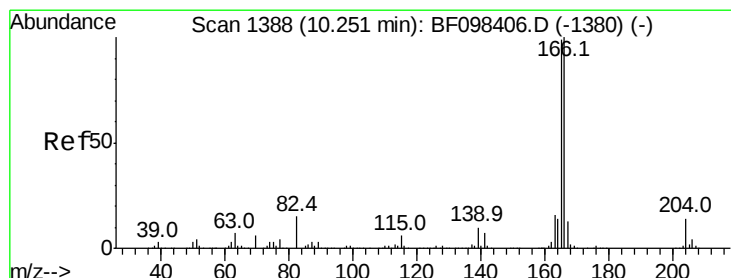
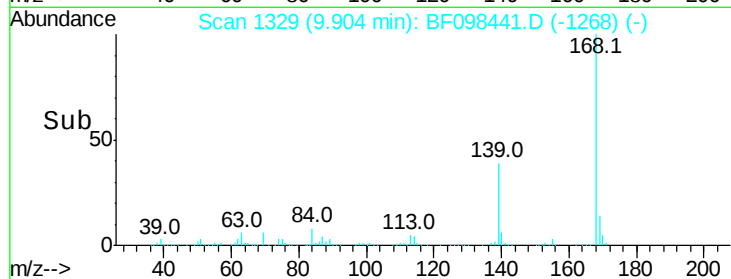
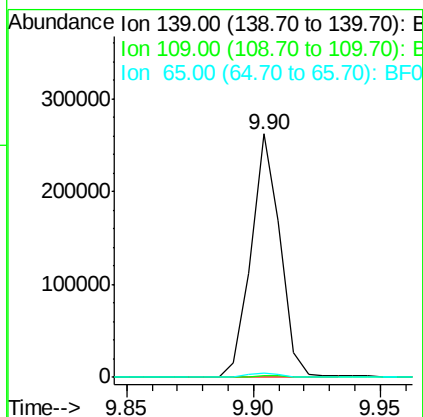
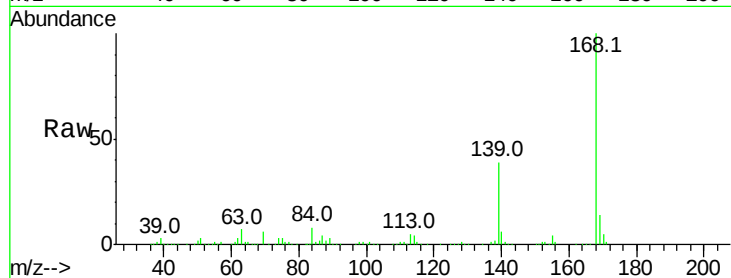




#55  
4-Nitrophenol  
Concen: 50.040 ng  
RT: 9.90 min Scan# 1329  
Delta R.T. 0.06 min  
Lab File: BF098441.D  
Acq: 12 Sep 2017 9:46

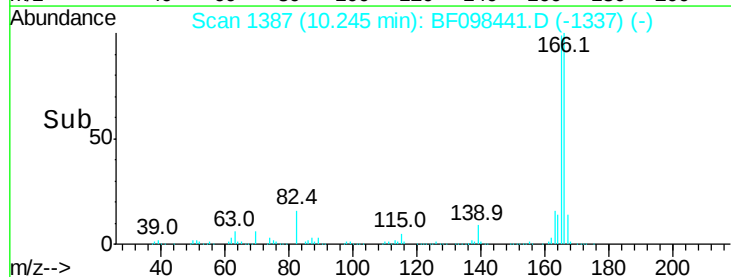
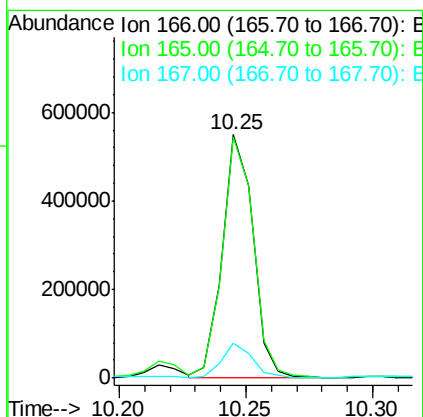
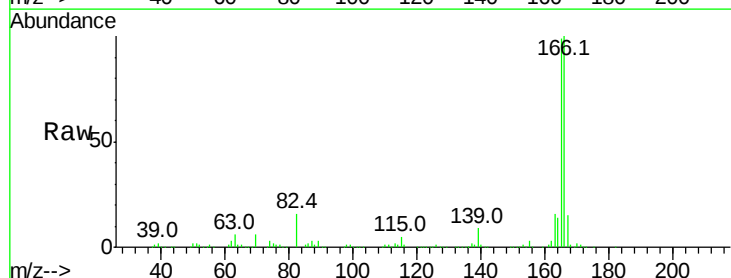
Instrument :  
BNA\_F  
ClientSampleId :

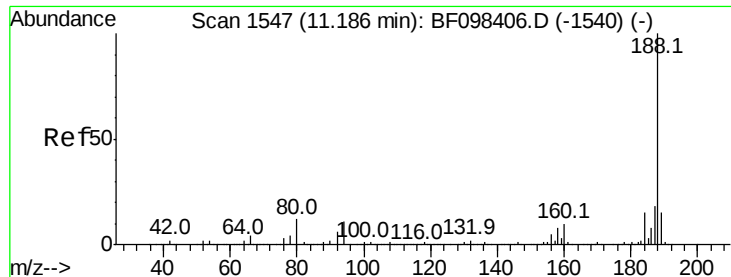
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 0.9   | 34.1  | 74.1# |
| 65      | 1.7   | 31.4  | 71.4# |



#57  
Fluorene  
Concen: 18.563 ng  
RT: 10.25 min Scan# 1387  
Delta R.T. -0.01 min  
Lab File: BF098441.D  
Acq: 12 Sep 2017 9:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.9  | 78.8  | 118.2 |
| 167     | 14.6  | 10.6  | 16.0  |

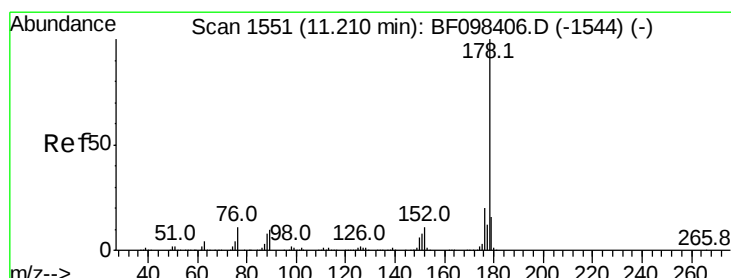
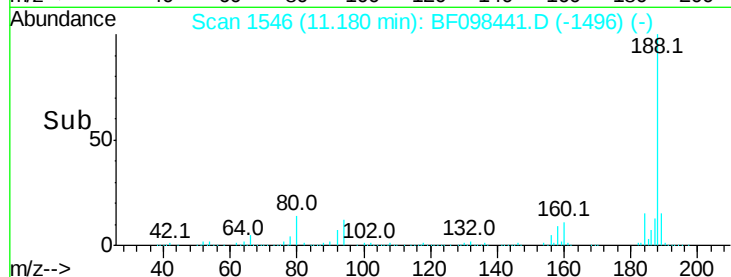
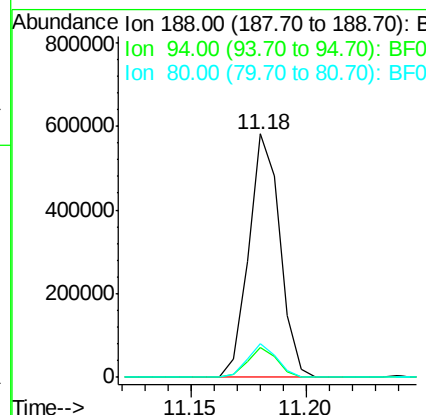
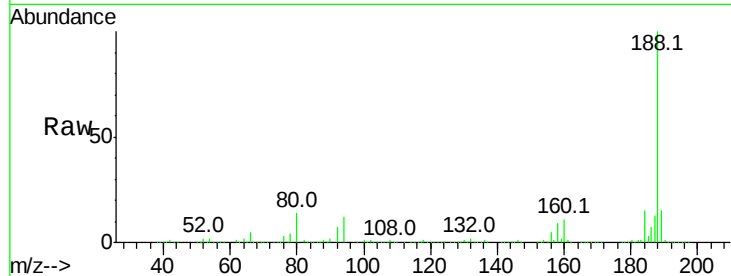




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.18 min Scan# 1546  
 Delta R.T. -0.01 min  
 Lab File: BF098441.D  
 Acq: 12 Sep 2017 9:46

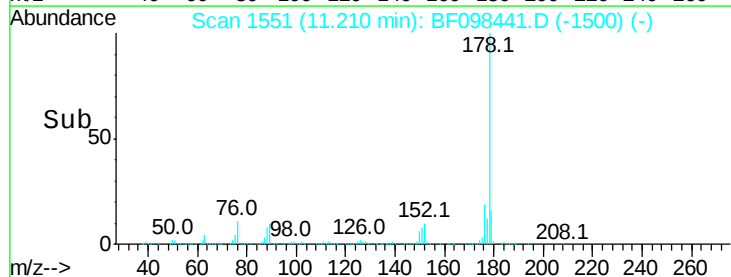
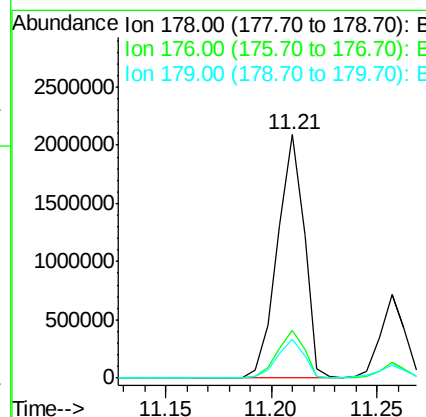
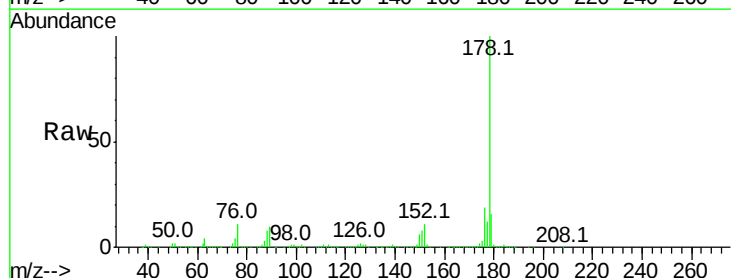
Instrument :  
 BNA\_F  
 ClientSampleId :

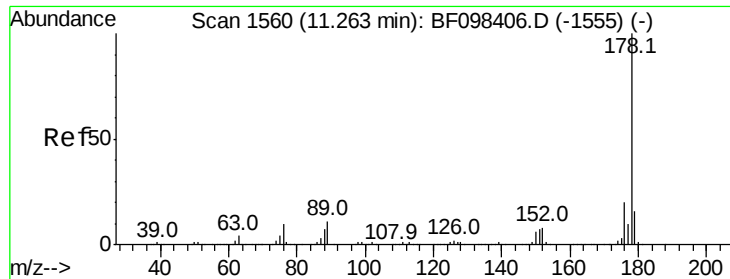
Tot Ion:188 Resp: 548716  
 Ion Ratio Lower Upper  
 188 100  
 94 12.3 9.4 14.2  
 80 13.6 10.2 15.2



#70  
 Phenanthrene  
 Concen: 63.830 ng  
 RT: 11.21 min Scan# 1551  
 Delta R.T. 0.00 min  
 Lab File: BF098441.D  
 Acq: 12 Sep 2017 9:46

Tgt Ion:178 Resp: 1856753  
 Ion Ratio Lower Upper  
 178 100  
 176 19.5 16.2 24.4  
 179 15.9 12.6 19.0

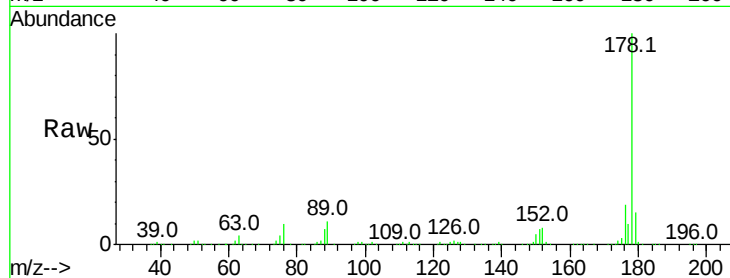




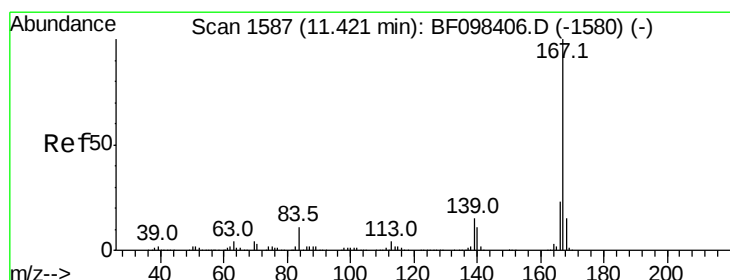
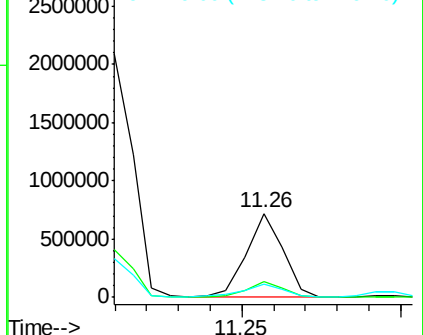
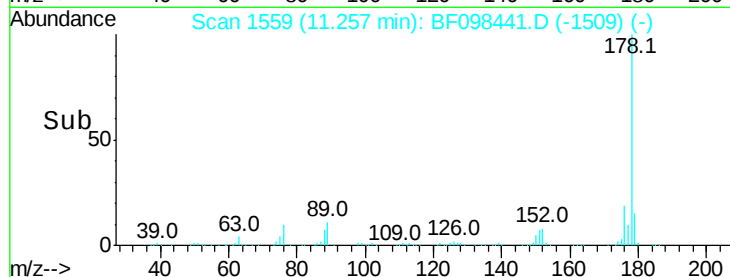
#71  
 Anthracene  
 Concen: 18.995 ng  
 RT: 11.26 min Scan# 1559  
 Delta R.T. -0.01 min  
 Lab File: BF098441.D  
 Acq: 12 Sep 2017 9:46

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:178 Resp: 567296  
 Ion Ratio Lower Upper  
 178 100  
 176 18.8 15.8 23.8  
 179 15.2 12.7 19.1

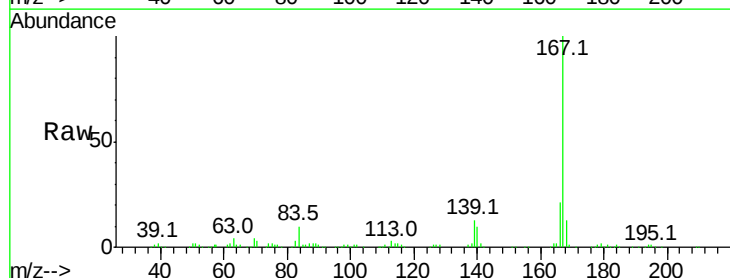


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

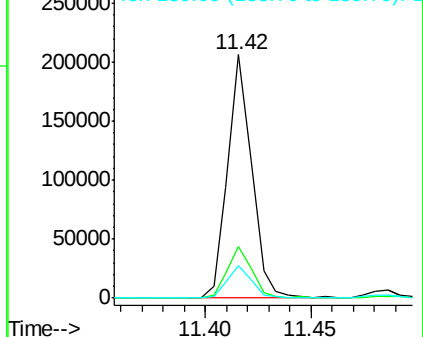
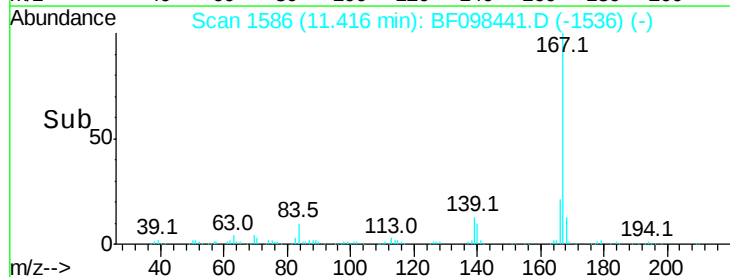


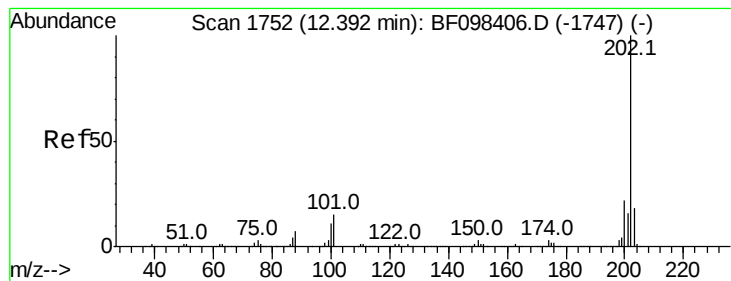
#72  
 Carbazole  
 Concen: 5.848 ng  
 RT: 11.42 min Scan# 1586  
 Delta R.T. -0.01 min  
 Lab File: BF098441.D  
 Acq: 12 Sep 2017 9:46

Tgt Ion:167 Resp: 162771  
 Ion Ratio Lower Upper  
 167 100  
 166 21.0 18.1 27.1  
 139 13.3 11.7 17.5



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





#74

Fluoranthene

Concen: 38.456 ng

RT: 12.39 min Scan# 1752

Delta R.T. 0.00 min

Lab File: BF098441.D

Acq: 12 Sep 2017 9:46

Instrument :

BNA\_F

ClientSampleId :

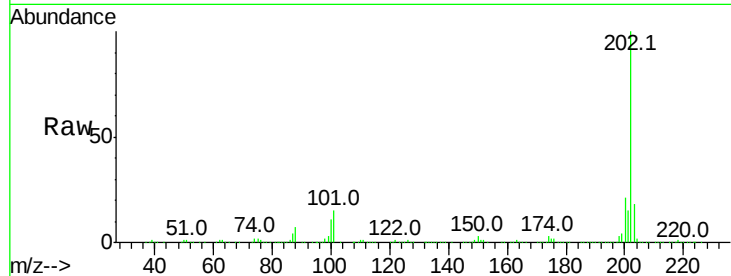
Tot Ion:202 Resp: 1119864

Ion Ratio Lower Upper

202 100

101 14.7 0.0 33.2

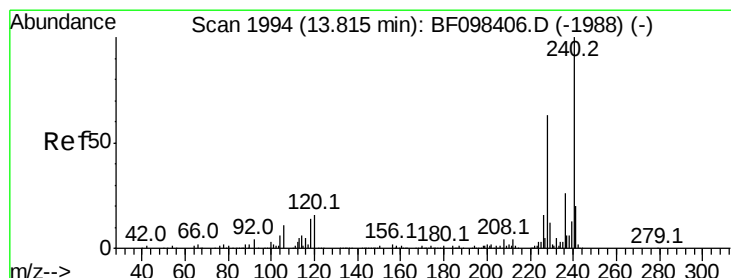
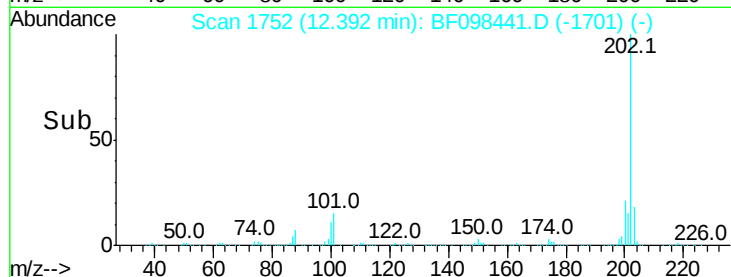
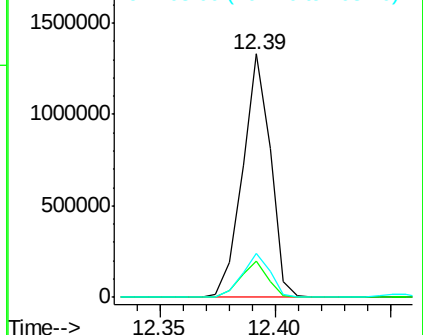
203 18.0 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.82 min Scan# 1994

Delta R.T. 0.00 min

Lab File: BF098441.D

Acq: 12 Sep 2017 9:46

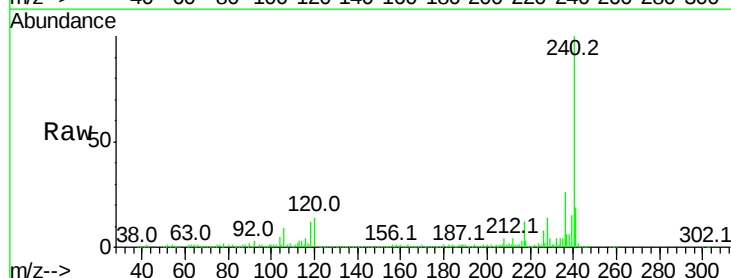
Tgt Ion:240 Resp: 375183

Ion Ratio Lower Upper

240 100

120 13.5 5.8 8.8#

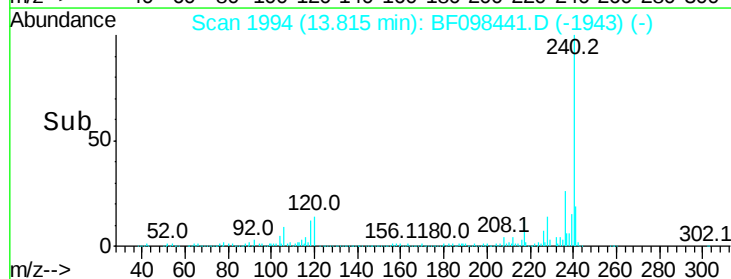
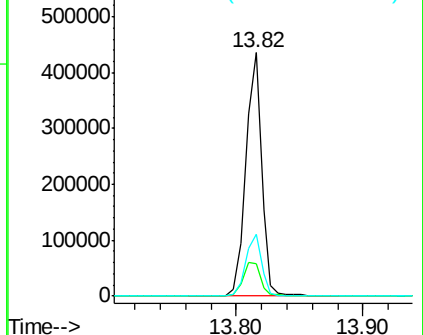
236 25.6 20.5 30.7

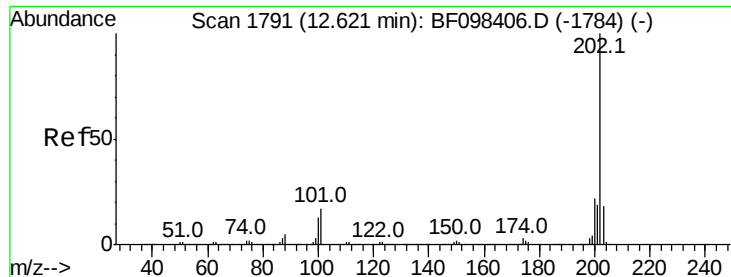


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 32.145 ng

RT: 12.62 min Scan# 1791

Delta R.T. 0.00 min

Lab File: BF098441.D

Acq: 12 Sep 2017 9:46

Instrument :

BNA\_F

ClientSampleId :

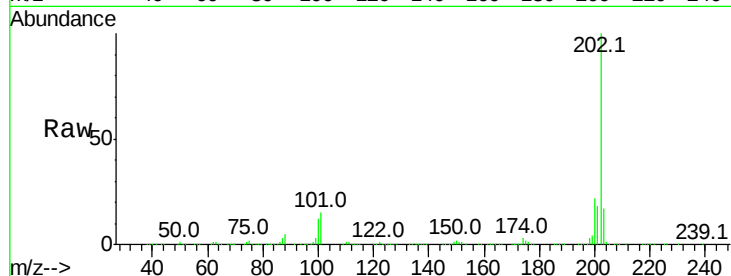
Tot Ion:202 Resp: 951401

Ion Ratio Lower Upper

202 100

200 21.6 17.6 26.4

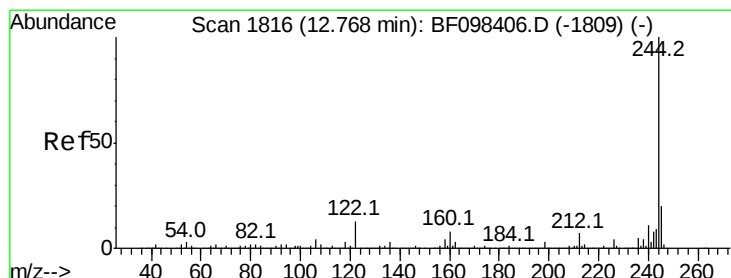
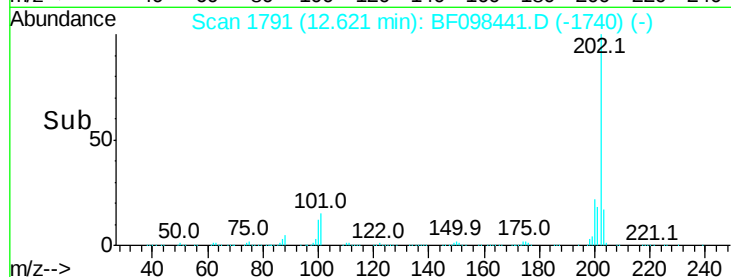
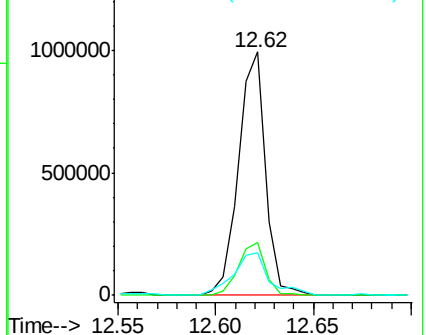
203 17.4 14.4 21.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 0.293 ng

RT: 12.76 min Scan# 1815

Delta R.T. -0.01 min

Lab File: BF098441.D

Acq: 12 Sep 2017 9:46

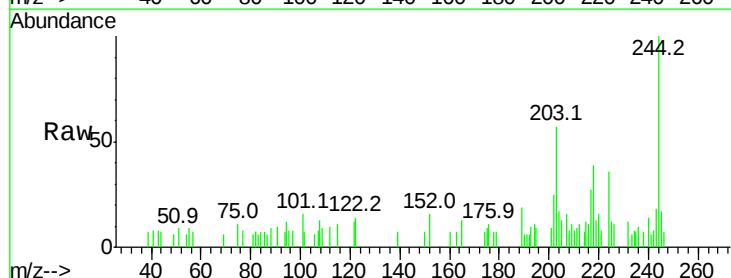
Tgt Ion:244 Resp: 5088

Ion Ratio Lower Upper

244 100

212 11.0 6.0 9.0#

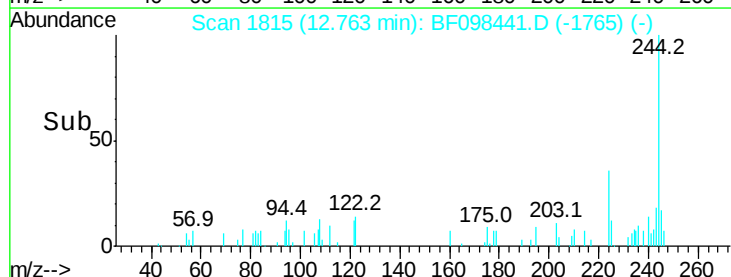
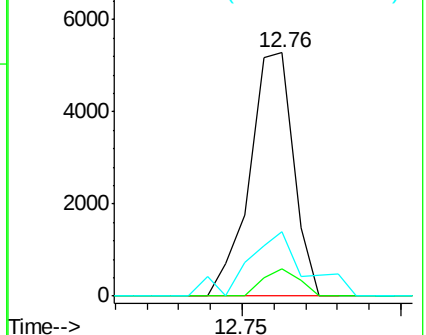
122 26.4 10.3 15.5#

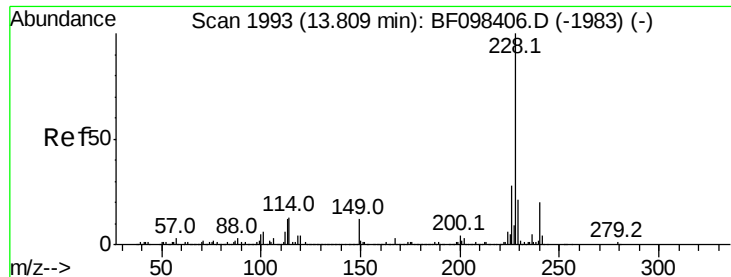


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 11.971 ng

RT: 13.84 min Scan# 1998

Delta R.T. 0.03 min

Lab File: BF098441.D

Acq: 12 Sep 2017 9:46

Instrument :

BNA\_F

ClientSampleId :

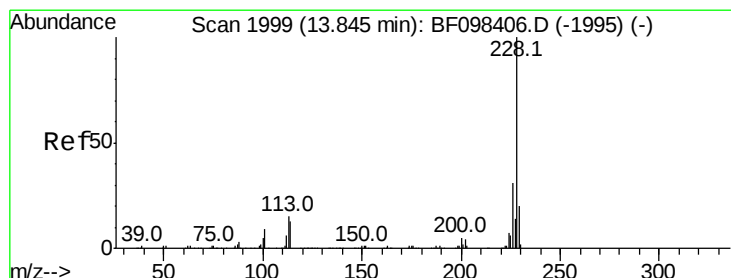
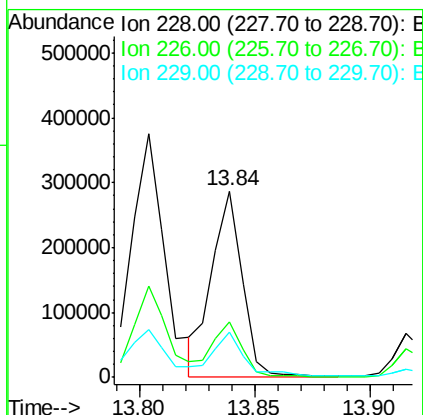
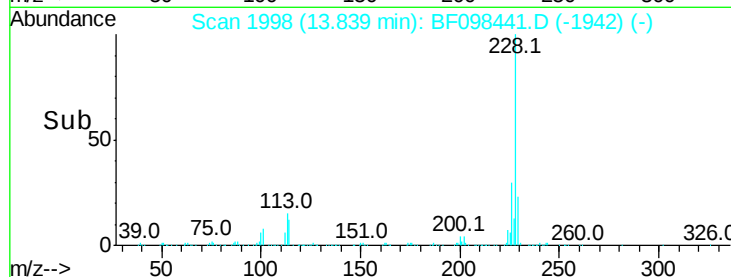
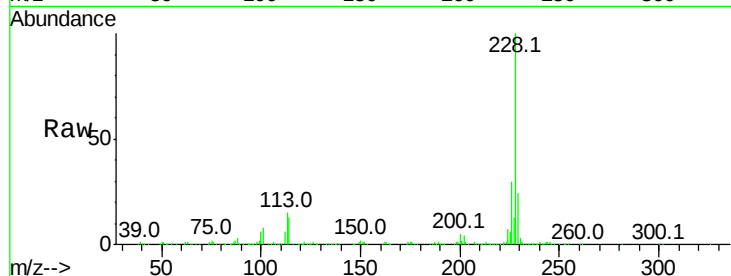
Tot Ion:228 Resp: 263326

Ion Ratio Lower Upper

228 100

226 30.0 22.6 33.8

229 24.2 16.3 24.5



#82

Chrysene

Concen: 16.994 ng

RT: 13.80 min Scan# 1992

Delta R.T. -0.04 min

Lab File: BF098441.D

Acq: 12 Sep 2017 9:46

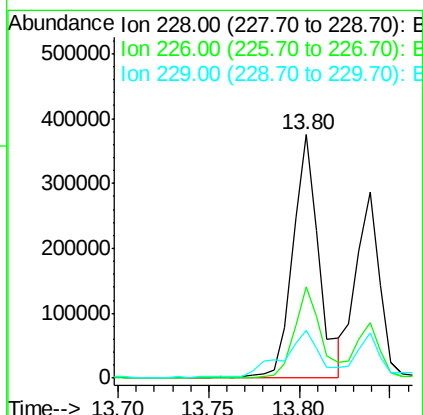
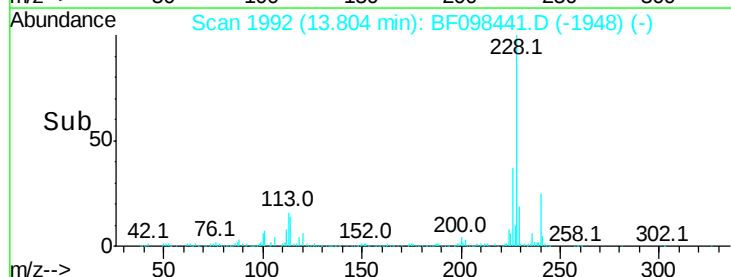
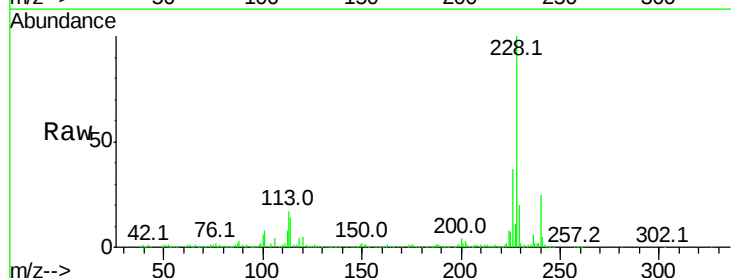
Tgt Ion:228 Resp: 377857

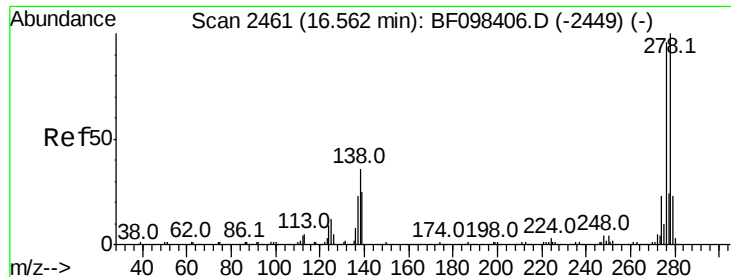
Ion Ratio Lower Upper

228 100

226 37.3 24.9 37.3

229 19.8 15.8 23.6

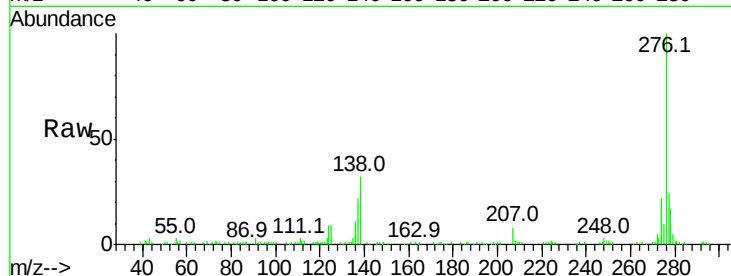




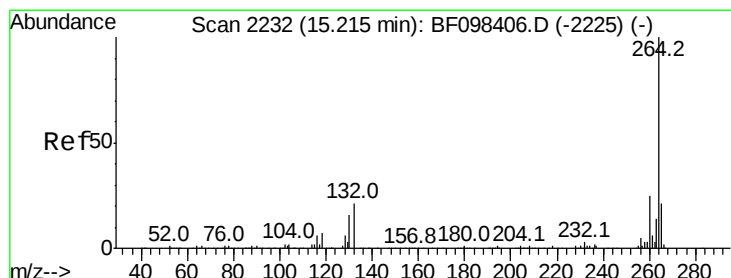
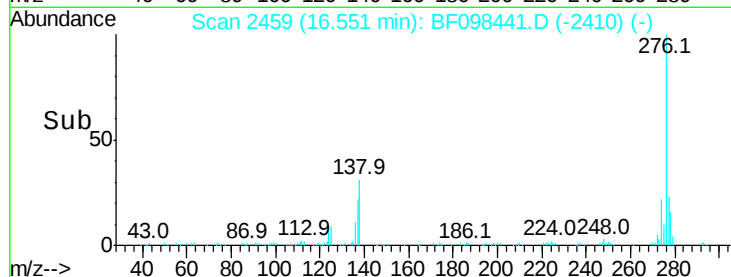
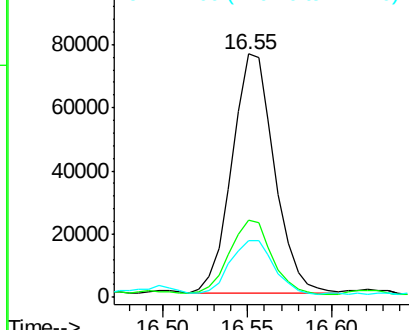
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 8.471 ng  
 RT: 16.55 min Scan# 2459  
 Delta R.T. -0.01 min  
 Lab File: BF098441.D  
 Acq: 12 Sep 2017 9:46

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 31.8  | 27.8  | 41.6  |
| 277     | 24.4  | 20.2  | 30.4  |

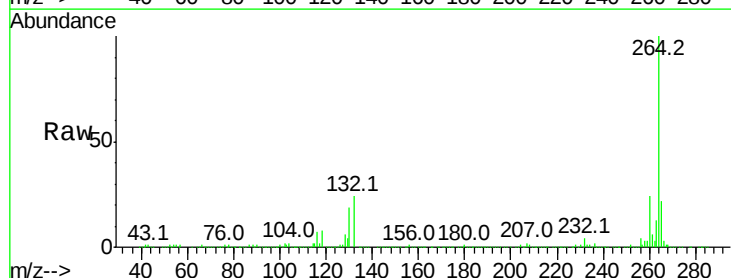


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

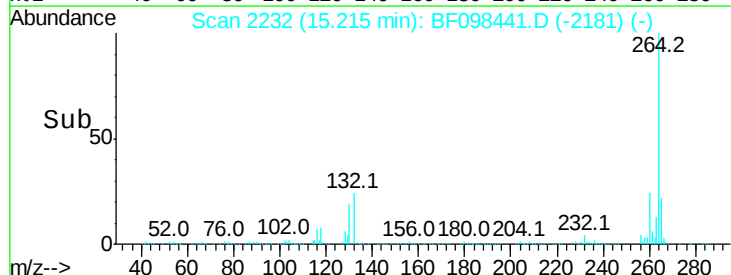
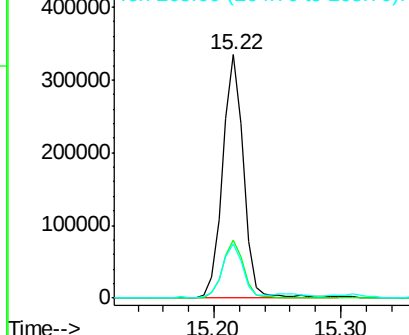


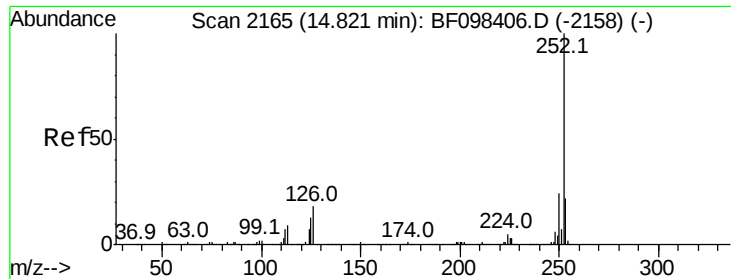
#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.22 min Scan# 2232  
 Delta R.T. 0.00 min  
 Lab File: BF098441.D  
 Acq: 12 Sep 2017 9:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 19.5  | 29.3  |
| 265     | 22.4  | 17.2  | 25.8  |



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





#87

Benzo(b)fluoranthene

Concen: 20.523 ng

RT: 14.82 min Scan# 2165

Delta R.T. 0.00 min

Lab File: BF098441.D

Acq: 12 Sep 2017 9:46

Instrument :

BNA\_F

ClientSampleId :

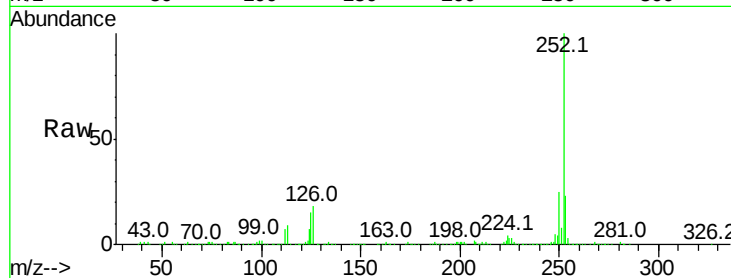
Tot Ion:252 Resp: 491551

Ion Ratio Lower Upper

252 100

253 22.5 18.1 27.1

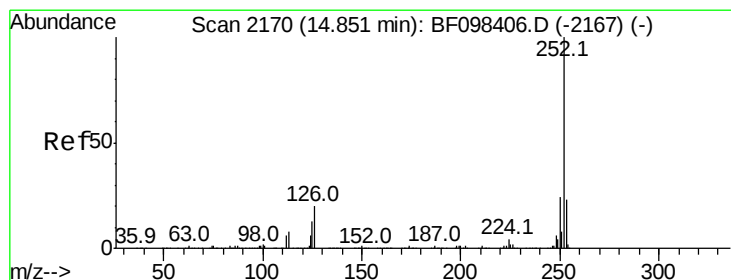
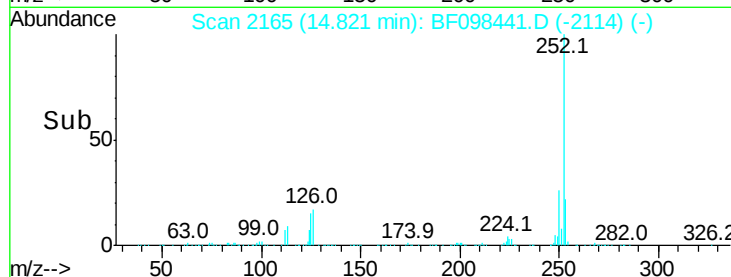
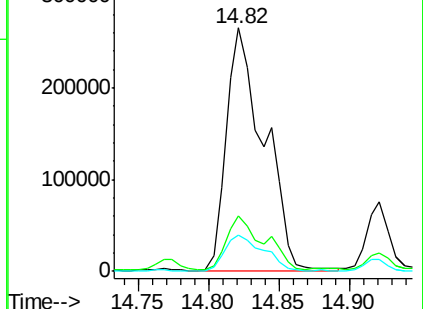
125 14.7 9.8 14.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 21.984 ng

RT: 14.82 min Scan# 2165

Delta R.T. -0.03 min

Lab File: BF098441.D

Acq: 12 Sep 2017 9:46

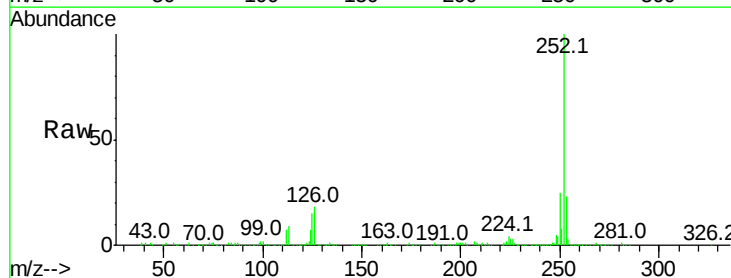
Tgt Ion:252 Resp: 491551

Ion Ratio Lower Upper

252 100

253 22.5 18.4 27.6

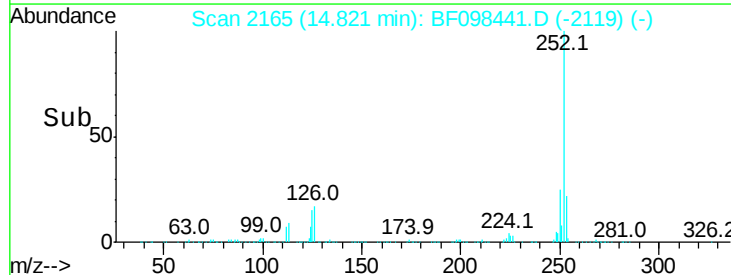
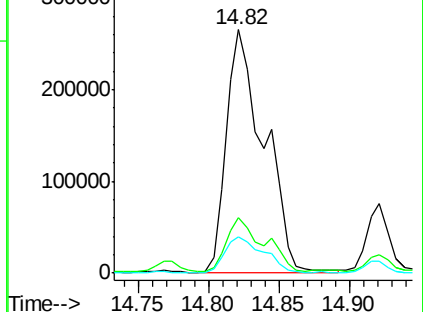
125 14.7 13.1 19.7

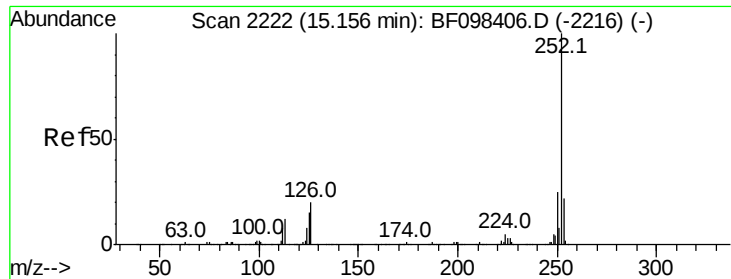


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

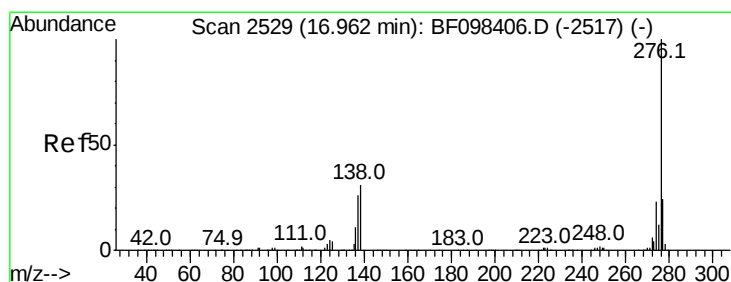
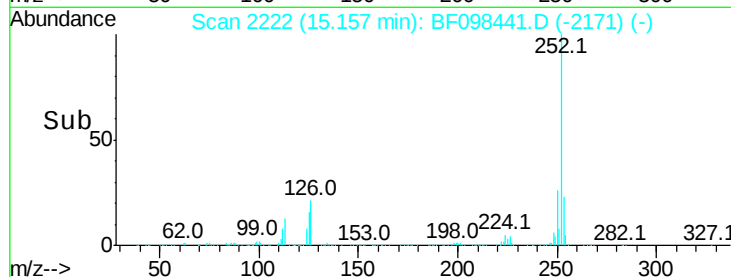
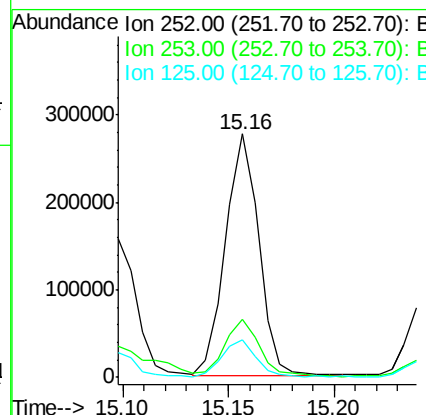
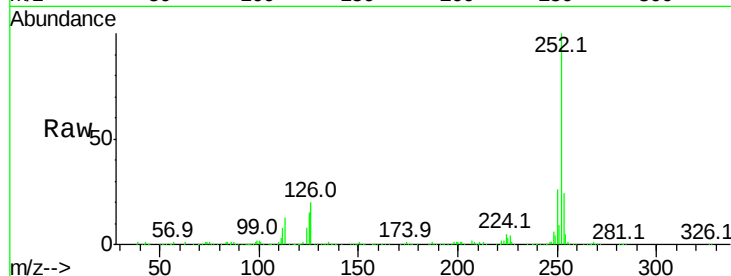




#89  
Benzo(a)pyrene  
Concen: 14.289 ng  
RT: 15.16 min Scan# 2222  
Delta R.T. 0.00 min  
Lab File: BF098441.D  
Acq: 12 Sep 2017 9:46

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 304893  
Ion Ratio Lower Upper  
252 100  
253 23.7 17.5 26.3  
125 15.2 11.0 16.4



#91  
Benzo(g,h,i)perylene  
Concen: 7.798 ng  
RT: 16.96 min Scan# 2528  
Delta R.T. -0.01 min  
Lab File: BF098441.D  
Acq: 12 Sep 2017 9:46

Tgt Ion:276 Resp: 121745  
Ion Ratio Lower Upper  
276 100  
277 23.1 18.6 28.0  
138 31.3 25.4 38.0

