

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF062118\  
 Data File : BF106664.D  
 Acq On : 21 Jun 2018 16:20  
 Operator : JU/SJ  
 Sample : J3524-03 5X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 AREA-3(D)

Quant Time: Jun 21 16:55:31 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 19 14:32:09 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.96  | 152  | 92902    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.24  | 136  | 359591   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.00 | 164  | 168059   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.50 | 188  | 282338   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.15 | 240  | 231809   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.71 | 264  | 186053   | 20.00 | ng    | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 5) 2-Fluorophenol           | 5.60  | 112  | 51671    | 9.42 | ng    | 0.00     |
| 7) Phenol-d6                | 6.60  | 99   | 66038    | 9.64 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.52  | 82   | 39006    | 6.03 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330  | 14034    | 7.20 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 75946    | 6.90 | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.08 | 244  | 71412    | 7.46 | ng    | 0.00     |

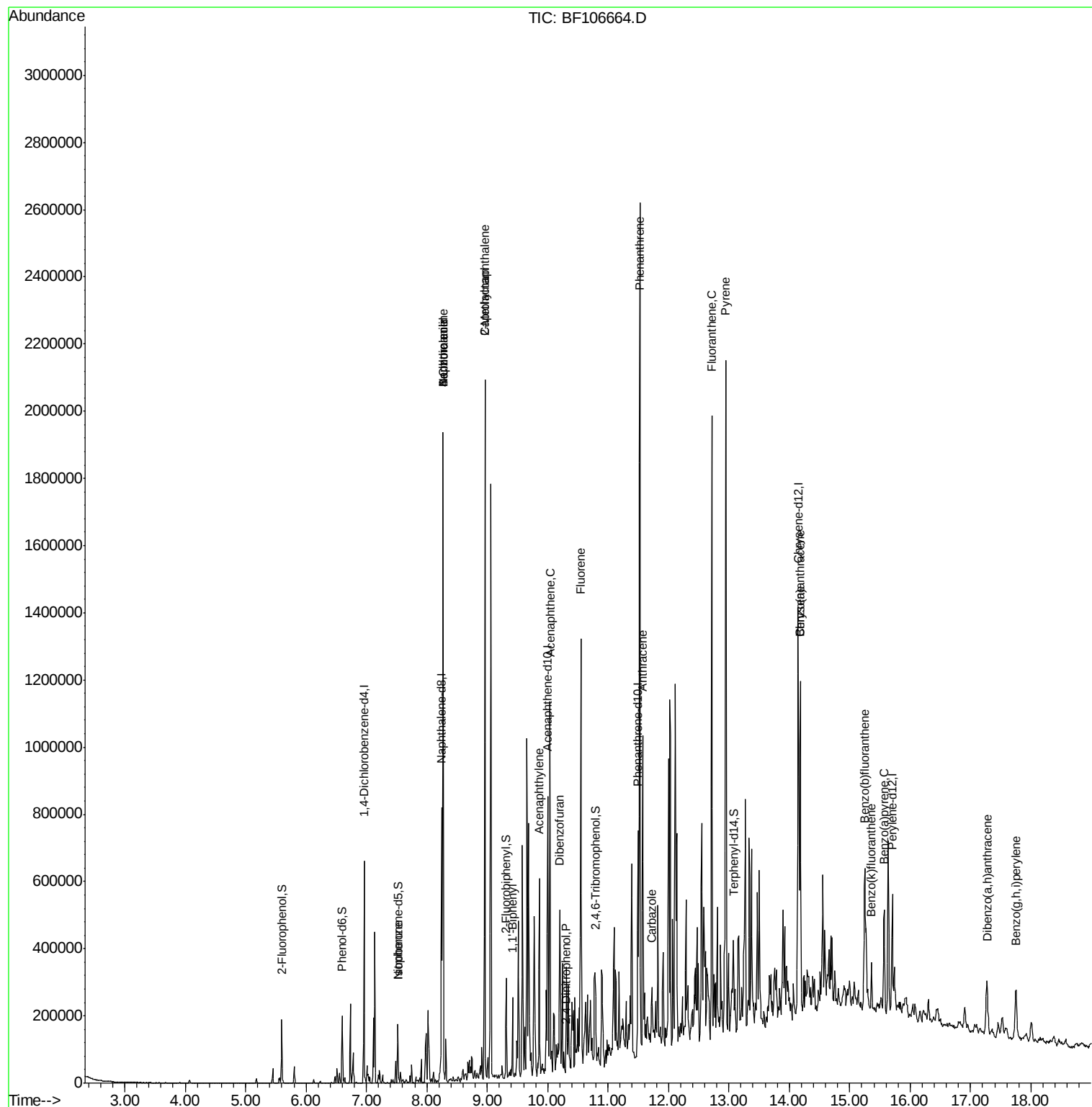
| Target Compounds           | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|----------------------------|-------|------|----------|-----------|-------|--------|
| 20) 3+4-Methylphenols      | 7.37  | 107  | 311      | Below Cal |       | # 76   |
| 25) Isophorone             | 7.52  | 82   | 39006    | 3.421     | ng    | # 64   |
| 31) Naphthalene            | 8.27  | 128  | 914361   | 54.388    | ng    | # 99   |
| 32) Benzoic acid           | 8.27  | 122  | 2334     | 6.317     | ng    | # 1    |
| 33) 4-Chloroaniline        | 8.27  | 127  | 124782   | 17.689    | ng    | # 34   |
| 35) Caprolactam            | 8.96  | 113  | 11521    | 7.004     | ng    | # 1    |
| 37) 2-Methylnaphthalene    | 8.96  | 142  | 549640   | 49.324    | ng    | # 96   |
| 45) 1,1'-Biphenyl          | 9.42  | 154  | 68124    | 5.086     | ng    | # 97   |
| 48) Acenaphthylene         | 9.87  | 152  | 116252   | 6.984     | ng    | # 95   |
| 51) Acenaphthene           | 10.04 | 154  | 200207   | 19.101    | ng    | # 98   |
| 53) 2,4-Dinitrophenol      | 10.29 | 184  | 286      | 5.545     | ng    | # 1    |
| 54) Dibenzofuran           | 10.21 | 168  | 121511   | 8.466     | ng    | # 95   |
| 57) Fluorene               | 10.55 | 166  | 338904   | 29.757    | ng    | # 99   |
| 70) Phenanthrene           | 11.52 | 178  | 1145007  | 84.082    | ng    | # 98   |
| 71) Anthracene             | 11.57 | 178  | 334527   | 24.067    | ng    | # 99   |
| 72) Carbazole              | 11.72 | 167  | 39384    | 3.026     | ng    | # 97   |
| 74) Fluoranthene           | 12.72 | 202  | 782258   | 52.118    | ng    | # 96   |
| 77) Pyrene                 | 12.95 | 202  | 979405   | 64.071    | ng    | # 99   |
| 80) Benzo(a)anthracene     | 14.18 | 228  | 399305   | 28.263    | ng    | # 94   |
| 82) Chrysene               | 14.18 | 228  | 399305   | 30.721    | ng    | # 98   |
| 87) Benzo(b)fluoranthene   | 15.25 | 252  | 381678   | 33.024    | ng    | # 96   |
| 88) Benzo(k)fluoranthene   | 15.36 | 252  | 70474    | 6.403     | ng    | # 95   |
| 89) Benzo(a)pyrene         | 15.57 | 252  | 158958   | 15.471    | ng    | # 97   |
| 90) Dibenzo(a,h)anthracene | 17.28 | 278  | 34548    | 3.968     | ng    | # 89   |
| 91) Benzo(g,h,i)perylene   | 17.75 | 276  | 120901   | 14.206    | ng    | # 91   |

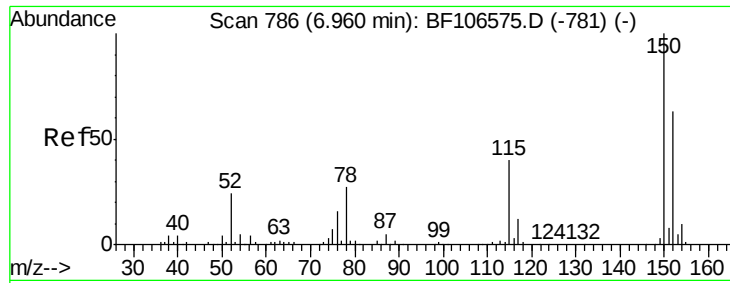
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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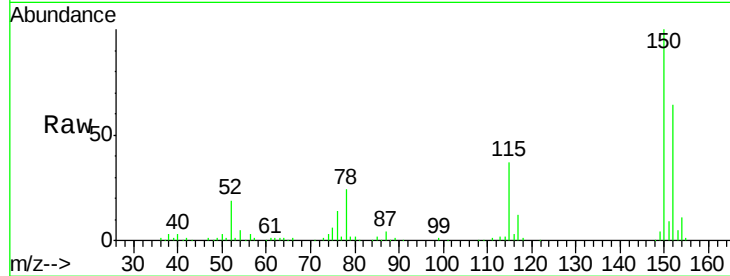


#1

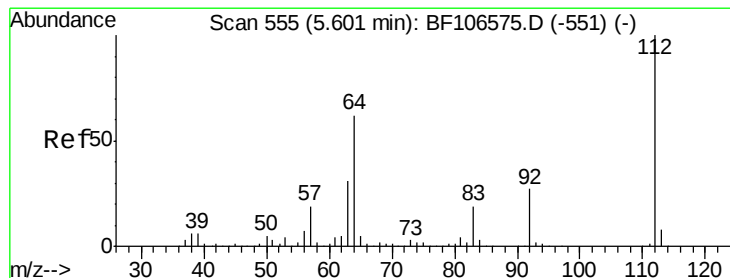
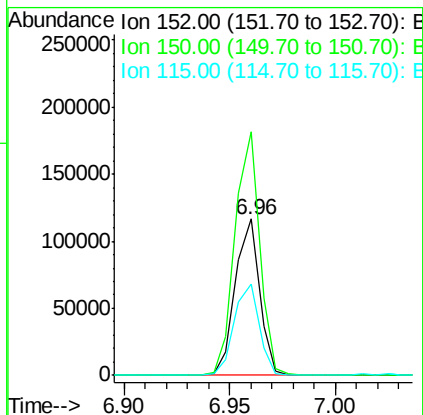
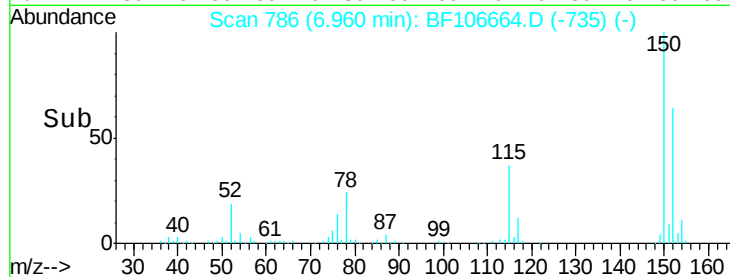
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.96 min Scan# 786  
Delta R.T. 0.00 min  
Lab File: BF106664.D  
Acq: 21 Jun 2018 16:20

Instrument :  
BNA\_F  
ClientSampleId :  
AREA-3(D)

Tgt Ion:152 Resp: 92902  
Ion Ratio Lower Upper  
152 100  
150 155.7 124.6 186.8  
115 58.3 50.1 75.1



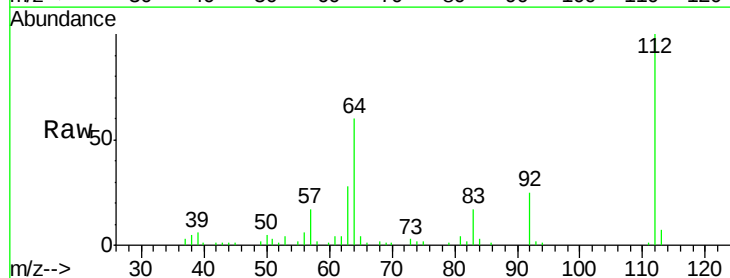
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



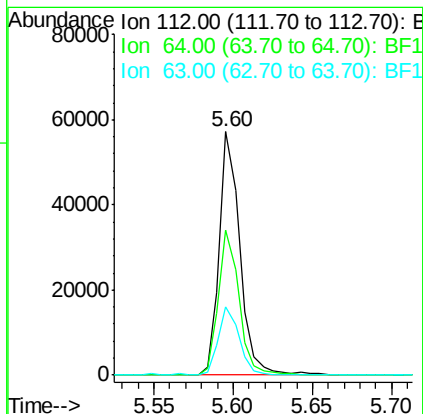
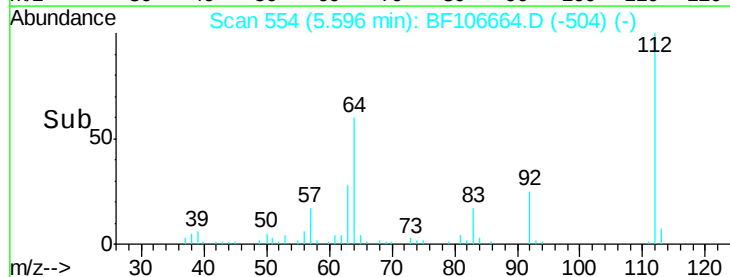
#5

2-Fluorophenol  
Concen: 9.418 ng  
RT: 5.60 min Scan# 554  
Delta R.T. -0.01 min  
Lab File: BF106664.D  
Acq: 21 Jun 2018 16:20

Tgt Ion:112 Resp: 51671  
Ion Ratio Lower Upper  
112 100  
64 59.8 47.9 71.9  
63 27.9 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: 9.639 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Instrument :

BNA\_F

ClientSampleId :

AREA-3(D)

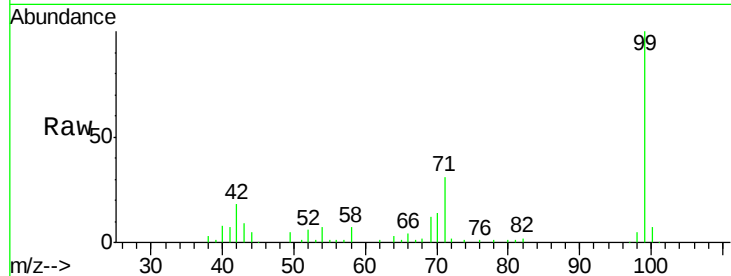
Tgt Ion: 99 Resp: 66038

Ion Ratio Lower Upper

99 100

42 18.3 14.5 21.7

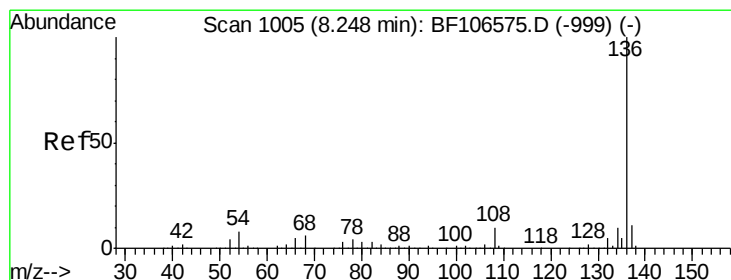
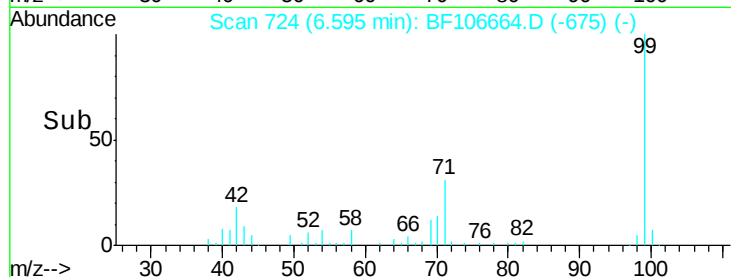
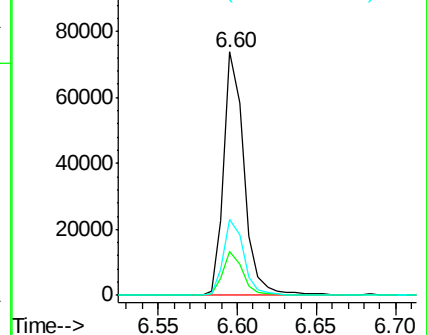
71 31.3 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Tgt Ion: 136 Resp: 359591

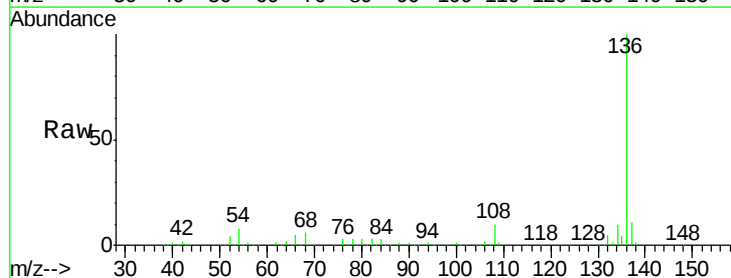
Ion Ratio Lower Upper

136 100

137 11.3 8.9 13.3

54 8.4 6.6 9.8

68 6.4 5.0 7.4

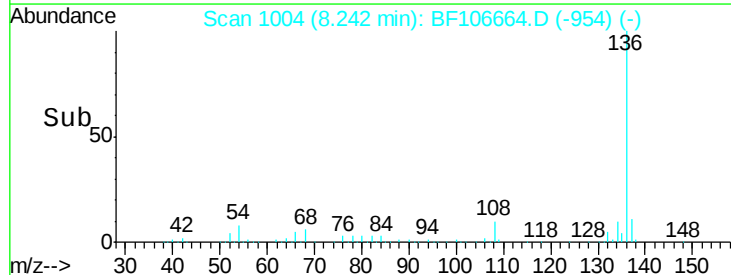
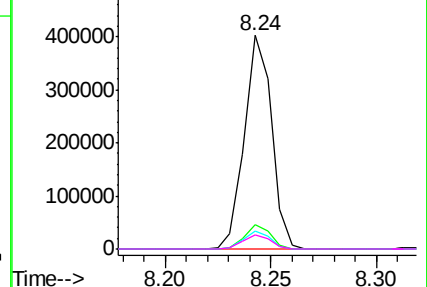


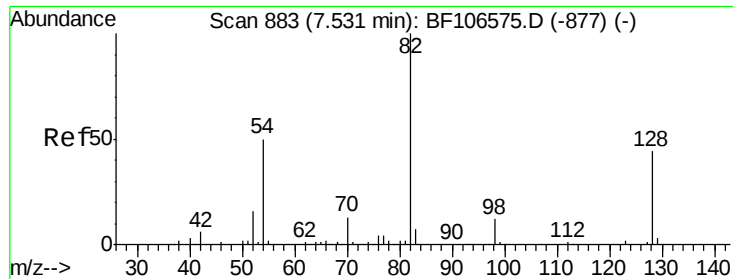
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

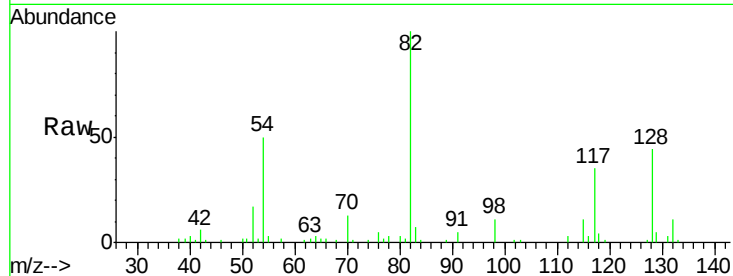




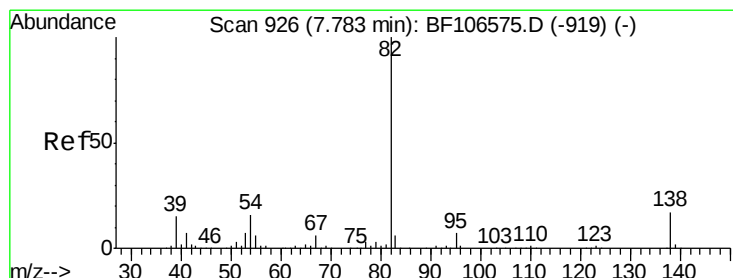
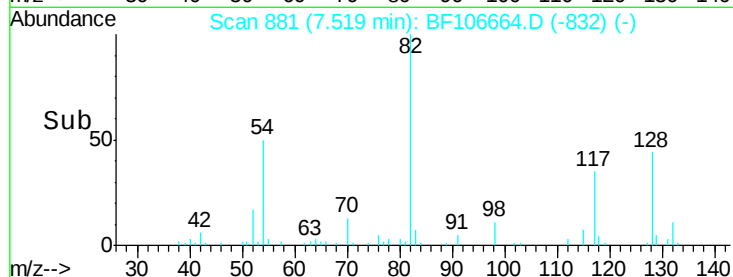
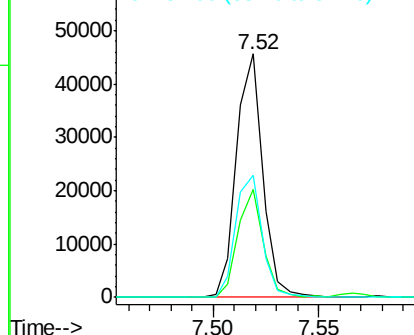
#23  
 Nitrobenzene-d5  
 Concen: 6.028 ng  
 RT: 7.52 min Scan# 881  
 Delta R.T. -0.01 min  
 Lab File: BF106664.D  
 Acq: 21 Jun 2018 16:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 AREA-3(D)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 44.4  | 36.1  | 54.1  |
| 54      | 50.2  | 41.4  | 62.2  |

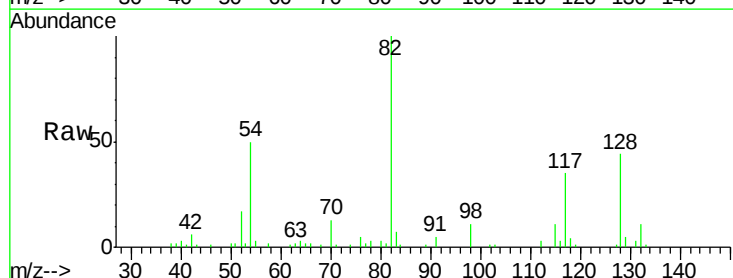


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

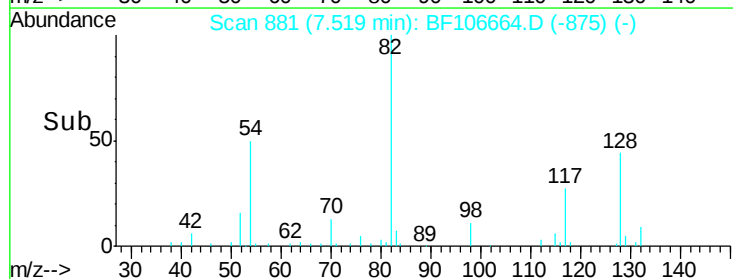
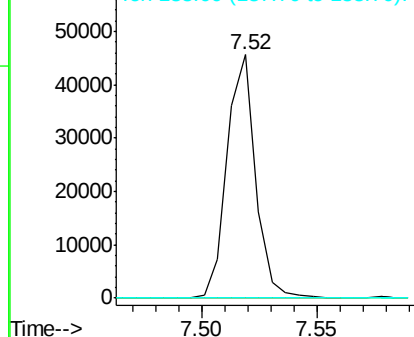


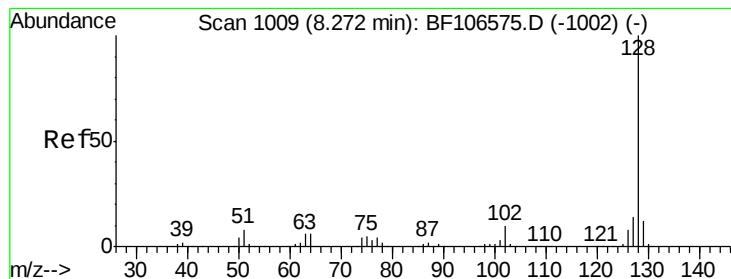
#25  
 Isophorone  
 Concen: 3.421 ng  
 RT: 7.52 min Scan# 881  
 Delta R.T. -0.26 min  
 Lab File: BF106664.D  
 Acq: 21 Jun 2018 16:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 0.0   | 5.2   | 7.8#  |
| 138     | 0.0   | 14.9  | 22.3# |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 95.00 (94.70 to 95.70): BF1  
 Ion 138.00 (137.70 to 138.70): BF1





#31

Naphthalene

Concen: 54.388 ng

RT: 8.27 min Scan# 1009

Delta R.T. 0.00 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Instrument :

BNA\_F

ClientSampleId :

AREA-3(D)

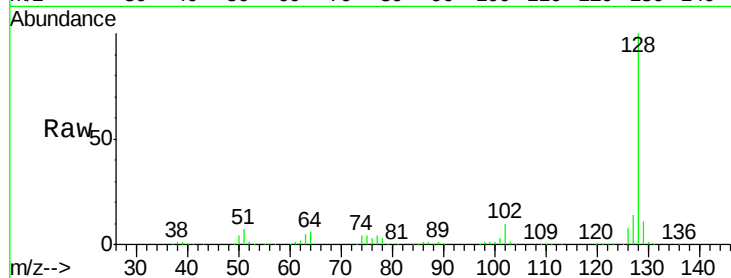
Tgt Ion:128 Resp: 914361

Ion Ratio Lower Upper

128 100

129 11.4 8.8 13.2

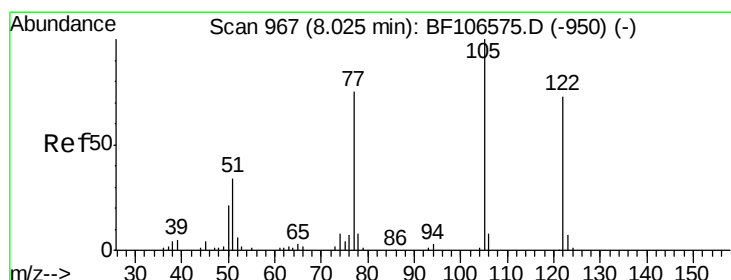
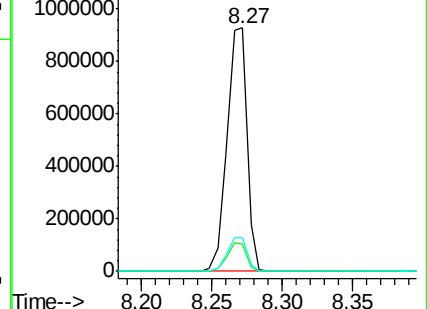
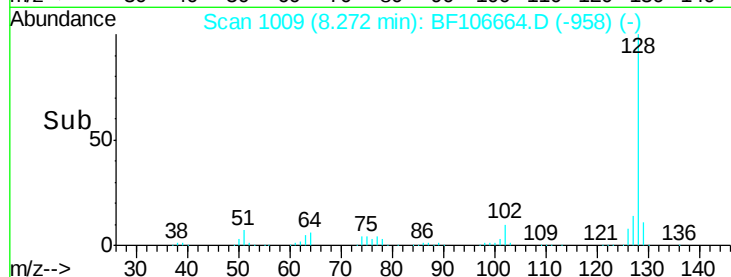
127 13.9 10.9 16.3



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



#32

Benzoic acid

Concen: 6.317 ng

RT: 8.27 min Scan# 1008

Delta R.T. 0.24 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

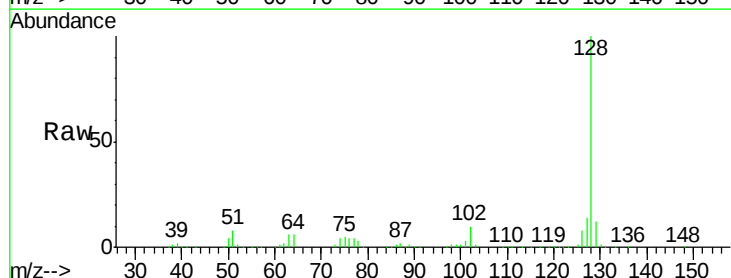
Tgt Ion:122 Resp: 2334

Ion Ratio Lower Upper

122 100

105 0.0 101.1 141.1#

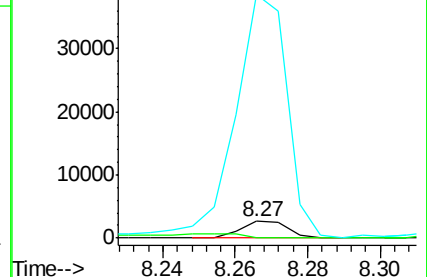
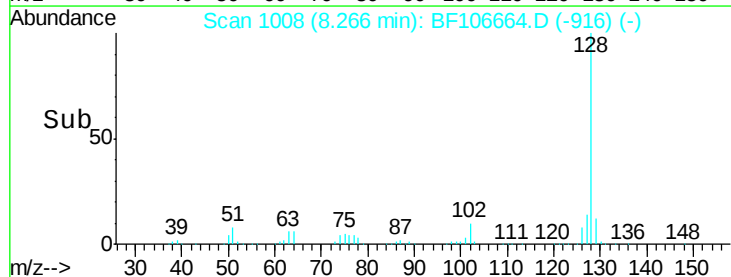
77 1480.1 70.7 110.7#

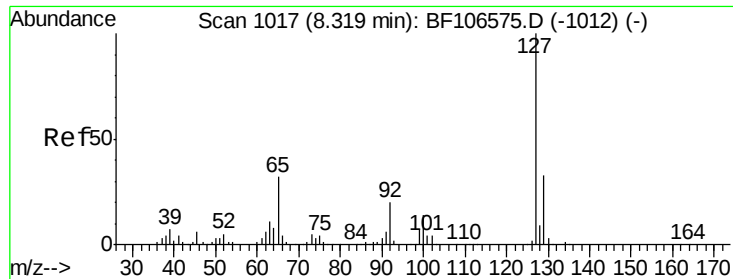


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

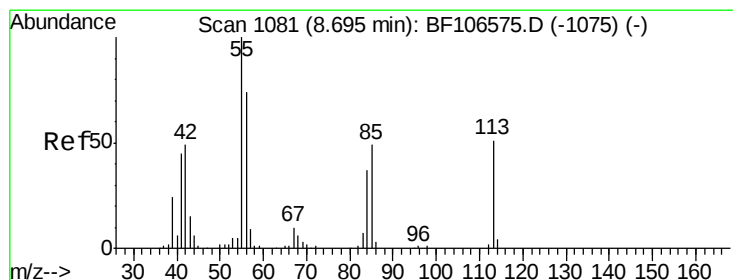
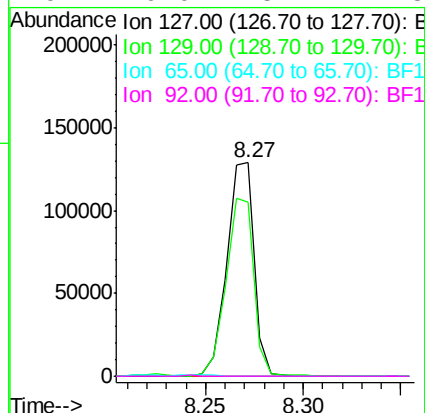
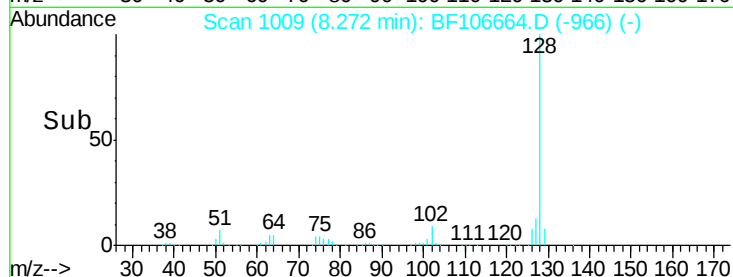
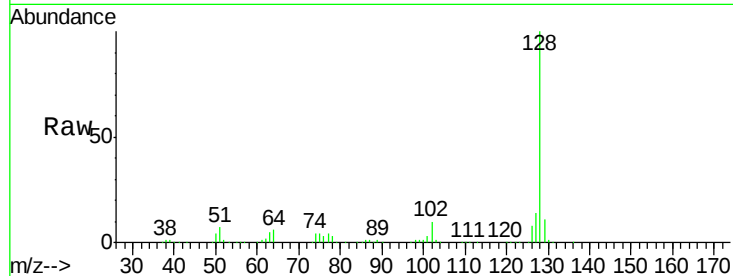




#33  
4-Chloroaniline  
Concen: 17.689 ng  
RT: 8.27 min Scan# 1009  
Delta R.T. -0.05 min  
Lab File: BF106664.D  
Acq: 21 Jun 2018 16:20

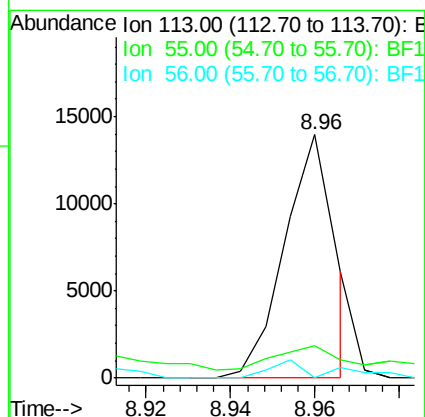
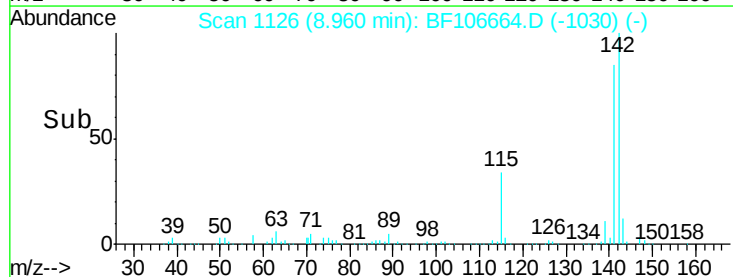
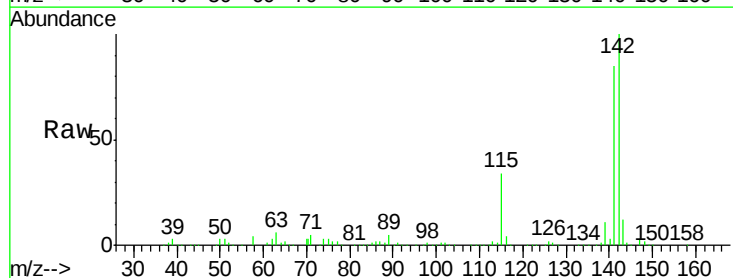
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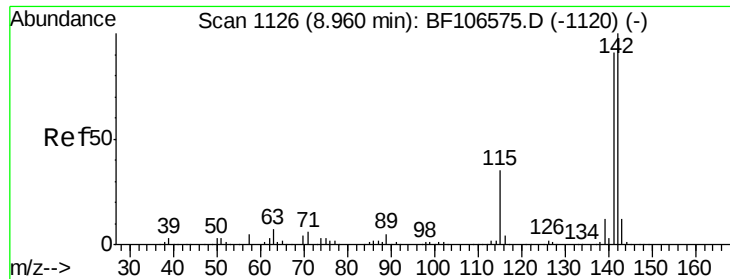
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 127   | Resp: | 124782 |
| Ion      | Ratio | Lower | Upper  |
| 127      | 100   |       |        |
| 129      | 81.8  | 25.9  | 38.9#  |
| 65       | 0.0   | 25.0  | 37.4#  |
| 92       | 0.0   | 15.2  | 22.8#  |



#35  
Caprolactam  
Concen: 7.004 ng  
RT: 8.96 min Scan# 1126  
Delta R.T. 0.26 min  
Lab File: BF106664.D  
Acq: 21 Jun 2018 16:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 11521  |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 55       | 13.5  | 163.3 | 203.3# |
| 56       | 0.0   | 115.7 | 155.7# |

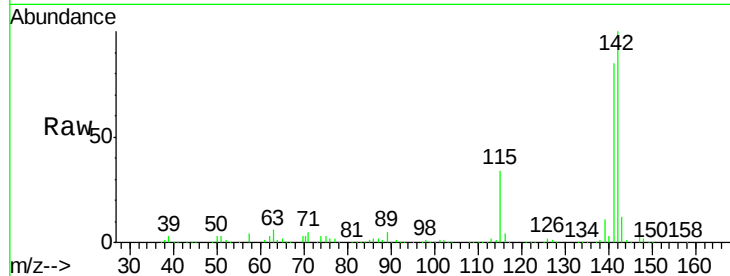




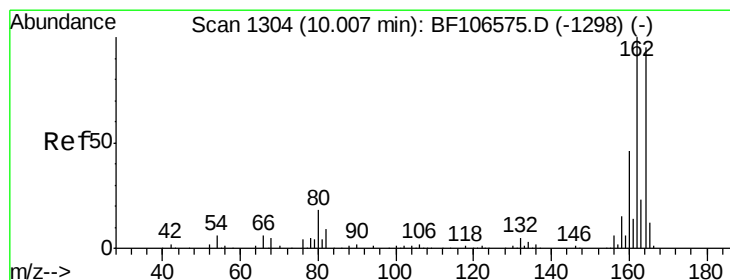
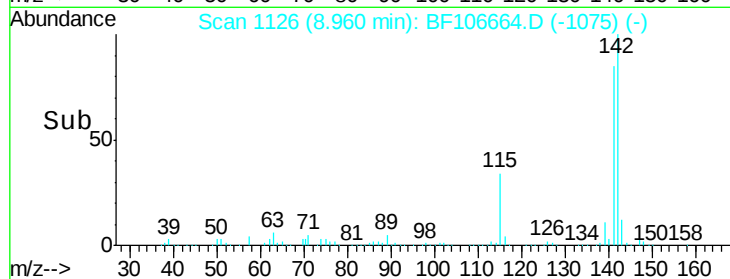
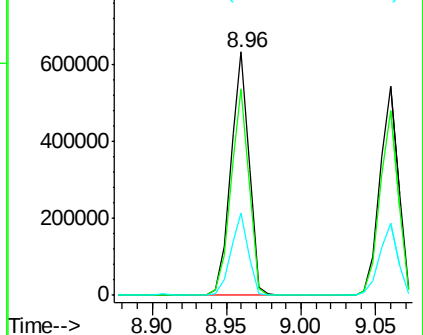
#37  
2-Methylnaphthalene  
Concen: 49.324 ng  
RT: 8.96 min Scan# 1126  
Delta R.T. 0.00 min  
Lab File: BF106664.D  
Acq: 21 Jun 2018 16:20

Instrument :  
BNA\_F  
ClientSampleId :  
AREA-3(D)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 84.8  | 70.8  | 106.2 |
| 115     | 34.0  | 26.1  | 39.1  |

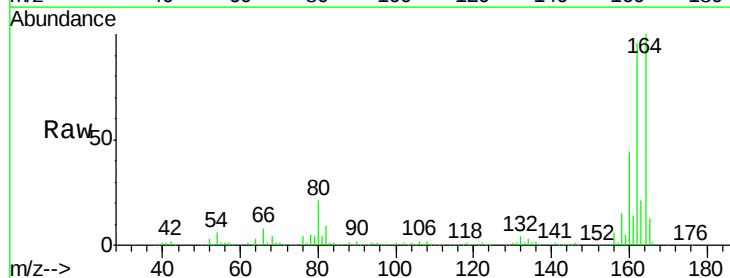


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

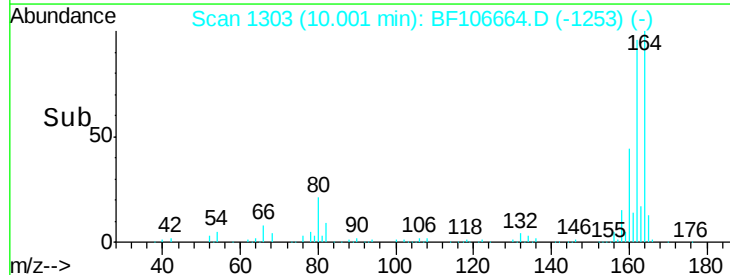
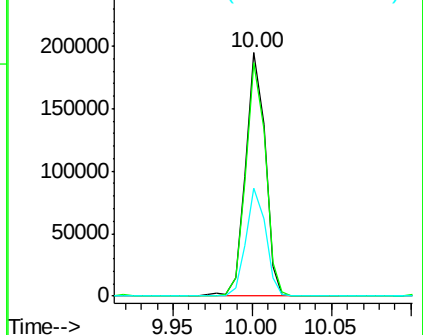


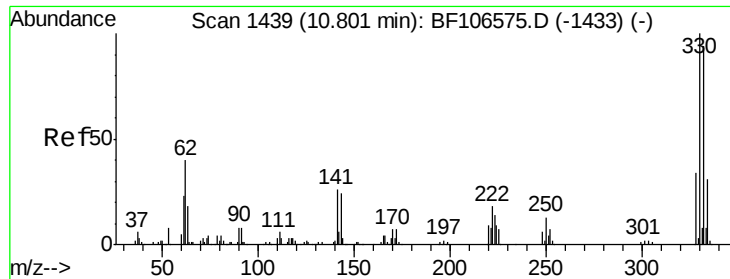
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.00 min Scan# 1303  
Delta R.T. -0.01 min  
Lab File: BF106664.D  
Acq: 21 Jun 2018 16:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 95.9  | 86.1  | 129.1 |
| 160     | 44.2  | 38.3  | 57.5  |



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

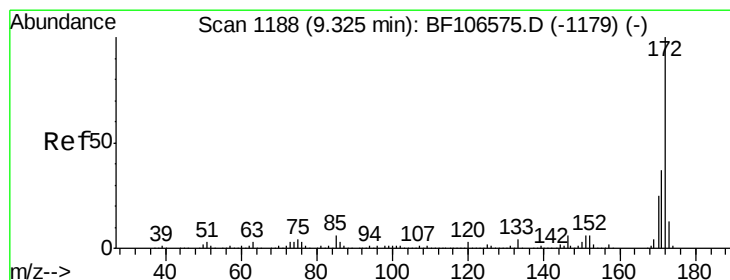
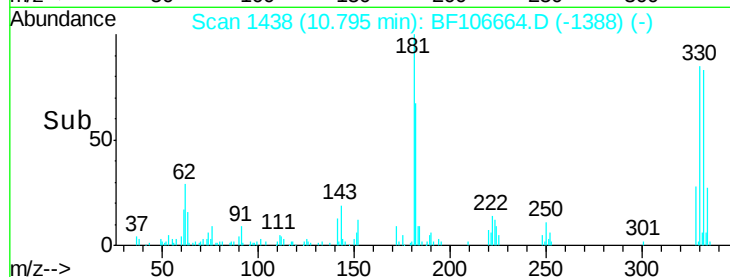
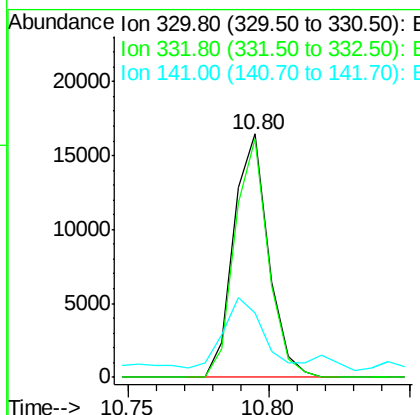
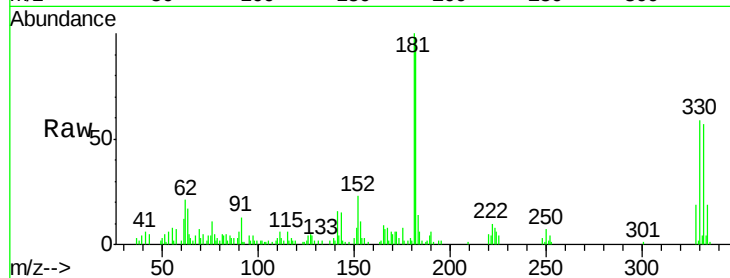




#41  
 2,4,6-Tribromophenol  
 Concen: 7.205 ng  
 RT: 10.80 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF106664.D  
 Acq: 21 Jun 2018 16:20

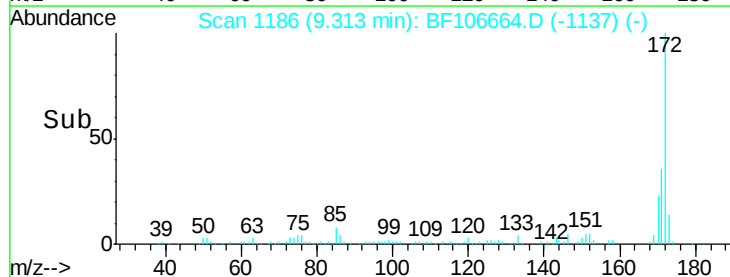
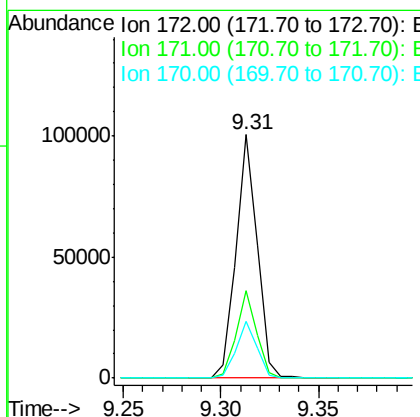
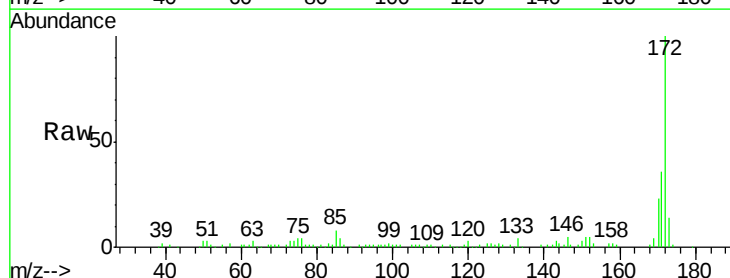
Instrument :  
 BNA\_F  
 ClientSampleId :  
 AREA-3(D)

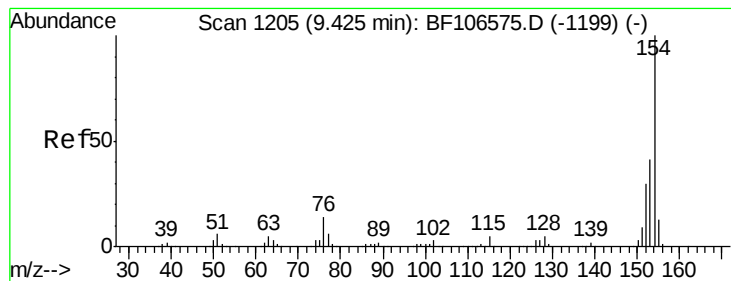
Tgt Ion:330 Resp: 14034  
 Ion Ratio Lower Upper  
 330 100  
 332 94.6 77.0 115.6  
 141 32.6 29.9 44.9



#44  
 2-Fluorobiphenyl  
 Concen: 6.903 ng  
 RT: 9.31 min Scan# 1186  
 Delta R.T. -0.01 min  
 Lab File: BF106664.D  
 Acq: 21 Jun 2018 16:20

Tgt Ion:172 Resp: 75946  
 Ion Ratio Lower Upper  
 172 100  
 171 35.7 29.7 44.5  
 170 23.3 19.6 29.4





#45

1,1'-Biphenyl

Concen: 5.086 ng

RT: 9.42 min Scan# 1204

Delta R.T. -0.01 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Instrument :

BNA\_F

ClientSampleId :

AREA-3(D)

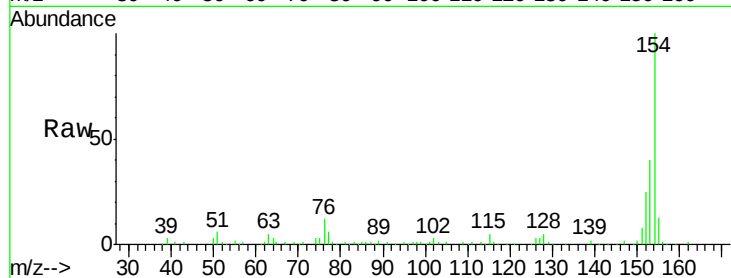
Tgt Ion:154 Resp: 68124

Ion Ratio Lower Upper

154 100

153 40.0 21.3 61.3

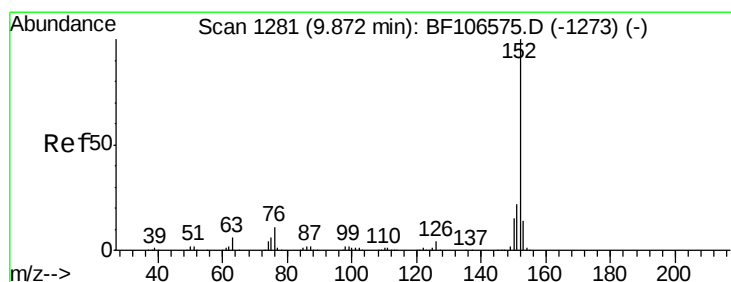
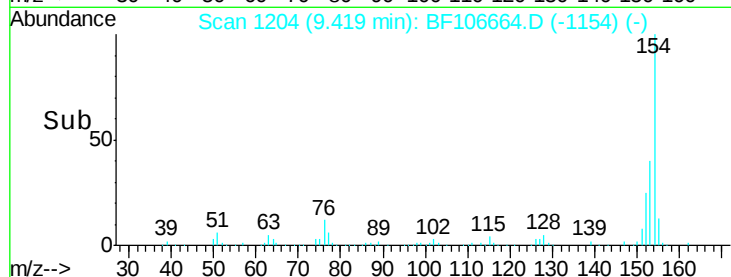
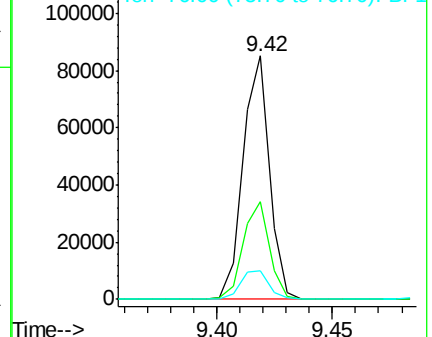
76 12.0 0.0 34.0



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



#48

Acenaphthylene

Concen: 6.984 ng

RT: 9.87 min Scan# 1280

Delta R.T. -0.01 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

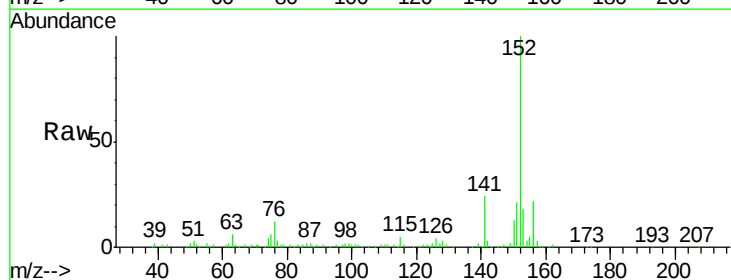
Tgt Ion:152 Resp: 116252

Ion Ratio Lower Upper

152 100

151 20.8 16.3 24.5

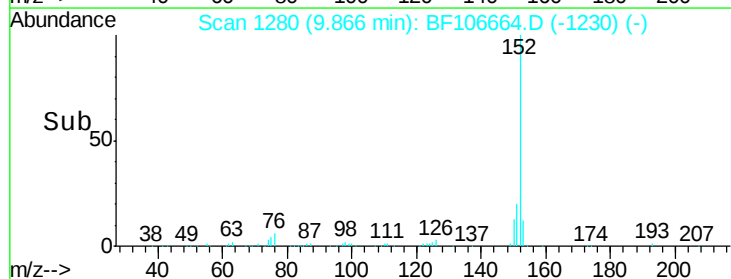
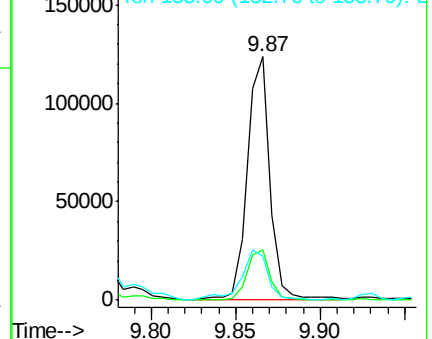
153 18.1 10.7 16.1#

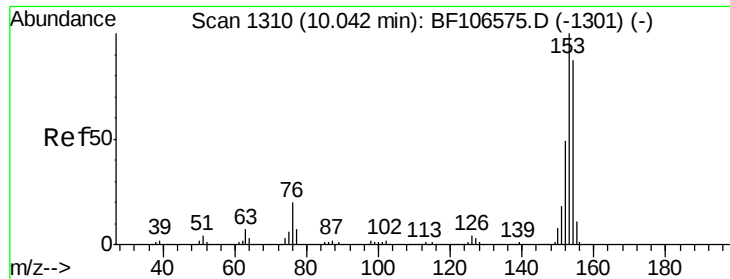


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 19.101 ng

RT: 10.04 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Instrument :

BNA\_F

ClientSampleId :

AREA-3(D)

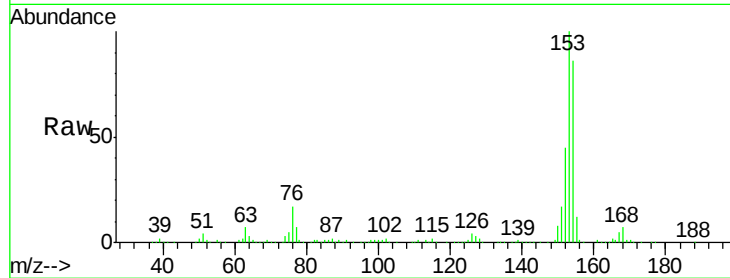
Tgt Ion:154 Resp: 200207

Ion Ratio Lower Upper

154 100

153 116.5 91.2 136.8

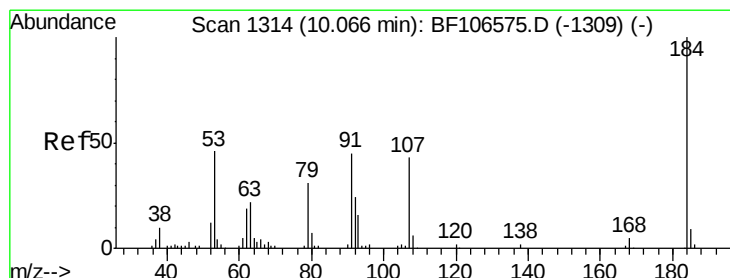
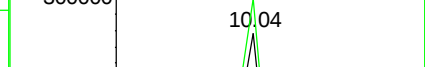
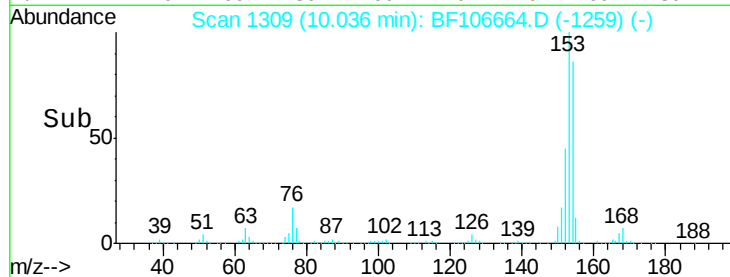
152 52.9 43.8 65.8



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



#53

2,4-Dinitrophenol

Concen: 5.545 ng

RT: 10.29 min Scan# 1352

Delta R.T. 0.22 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

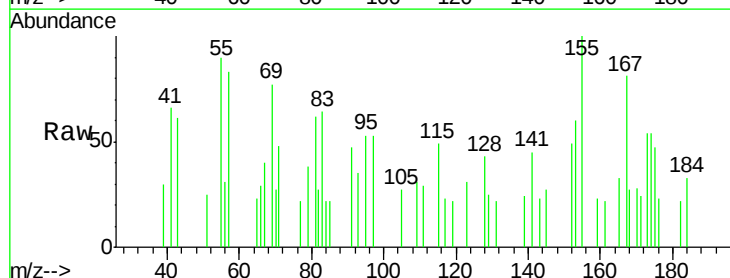
Tgt Ion:184 Resp: 286

Ion Ratio Lower Upper

184 100

63 0.0 54.2 81.2#

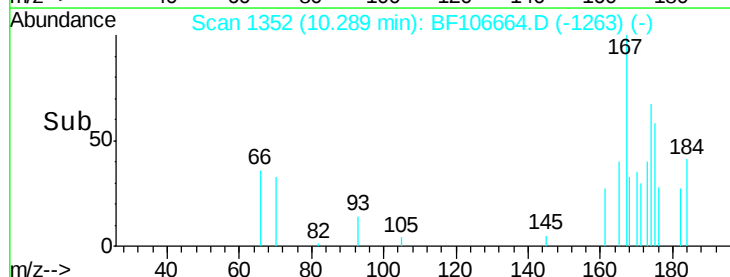
154 0.0 184.0 276.0#

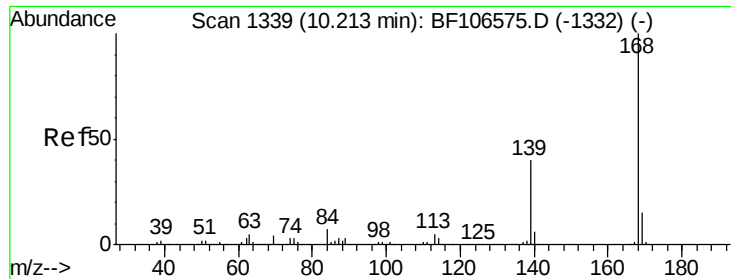


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E

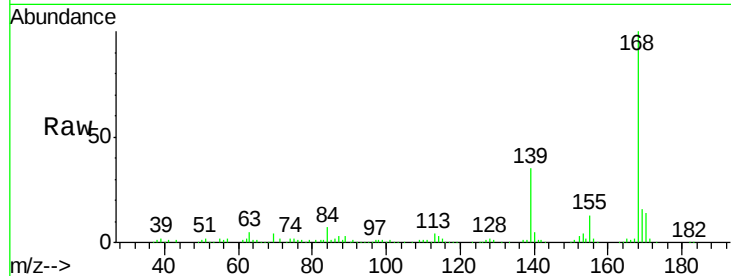




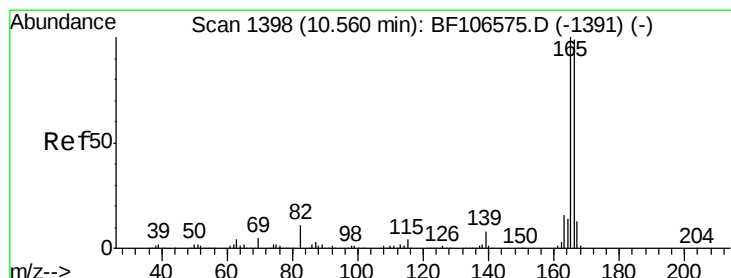
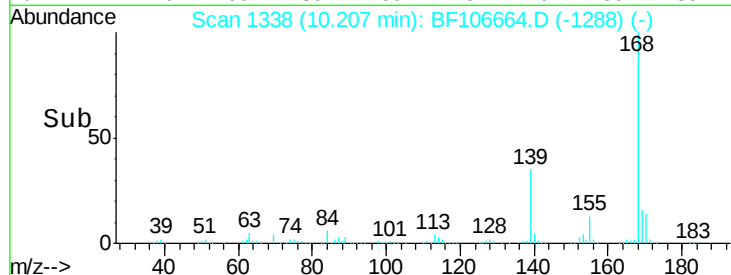
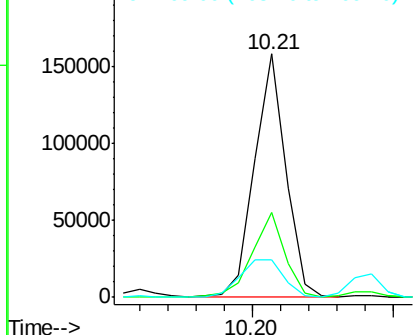
#54  
Dibenzenofuran  
Concen: 8.466 ng  
RT: 10.21 min Scan# 1338  
Delta R.T. -0.01 min  
Lab File: BF106664.D  
Acq: 21 Jun 2018 16:20

Instrument :  
BNA\_F  
ClientSampleId :  
AREA-3(D)

Tgt Ion:168 Resp: 121511  
Ion Ratio Lower Upper  
168 100  
139 34.7 30.1 45.1  
169 15.6 10.9 16.3

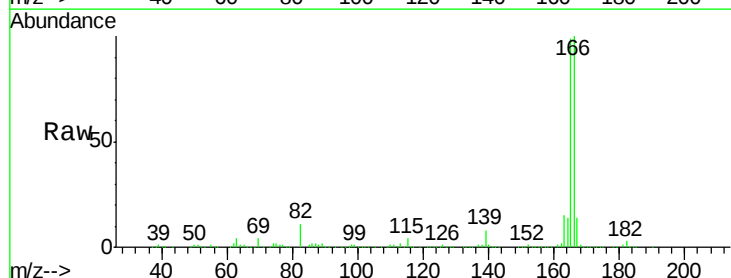


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

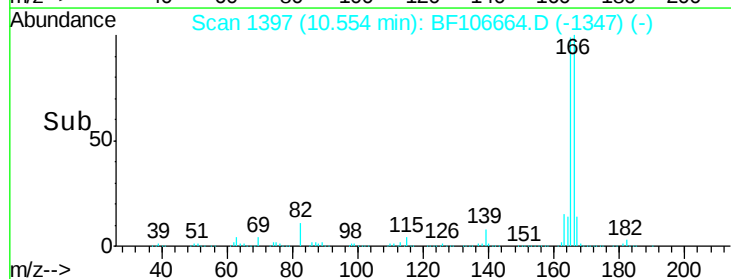
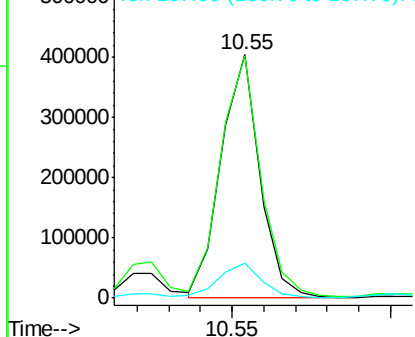


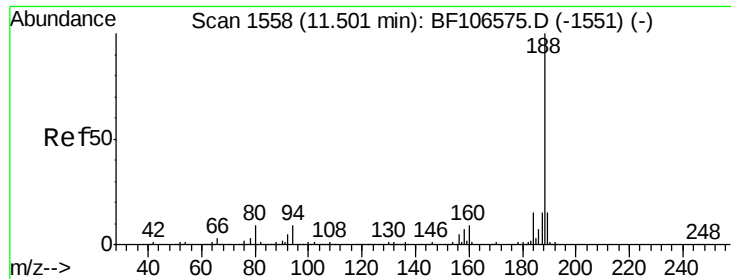
#57  
Fluorene  
Concen: 29.757 ng  
RT: 10.55 min Scan# 1397  
Delta R.T. -0.01 min  
Lab File: BF106664.D  
Acq: 21 Jun 2018 16:20

Tgt Ion:166 Resp: 338904  
Ion Ratio Lower Upper  
166 100  
165 99.4 79.8 119.8  
167 14.3 10.6 16.0



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

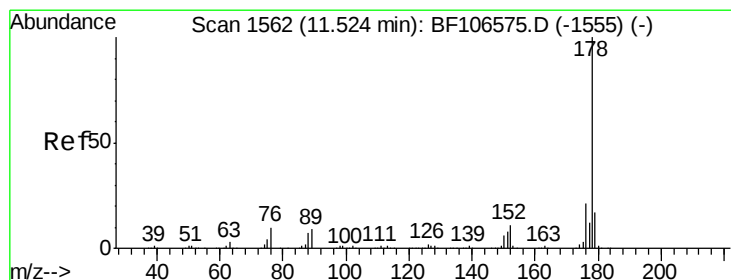
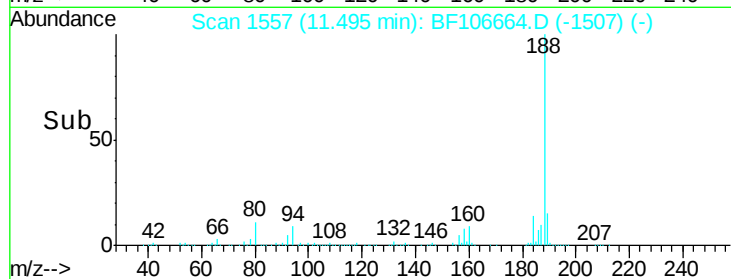
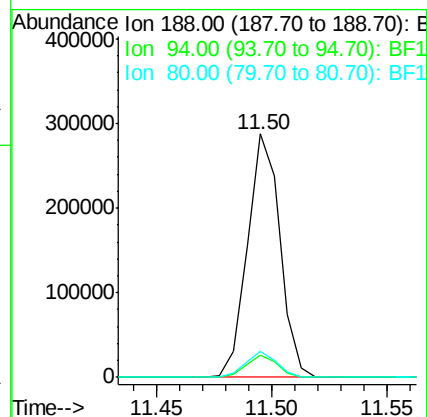
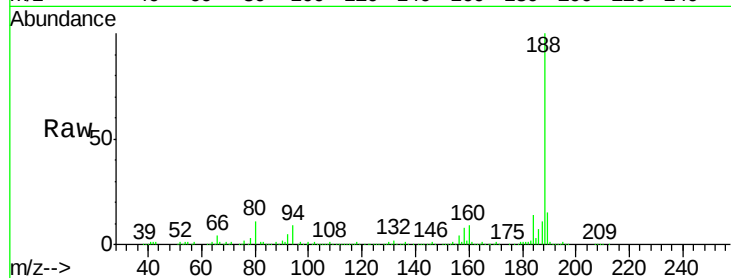




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.50 min Scan# 1557  
Delta R.T. -0.01 min  
Lab File: BF106664.D  
Acq: 21 Jun 2018 16:20

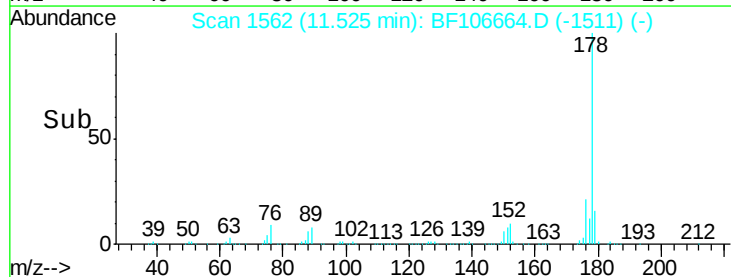
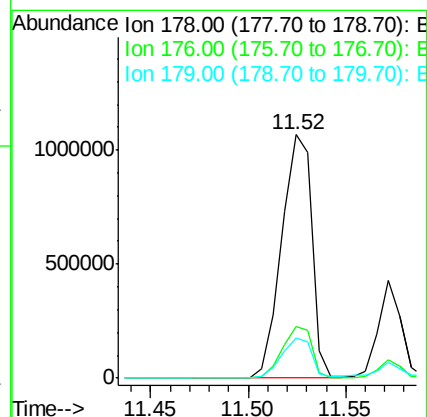
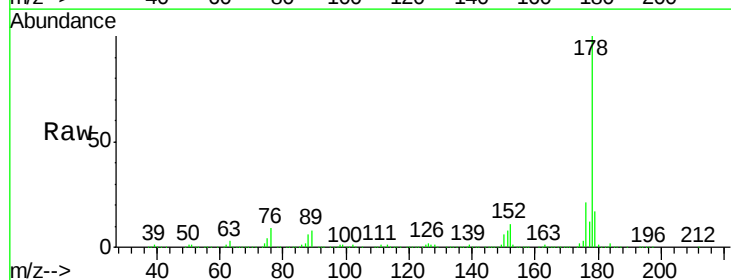
Instrument :  
BNA\_F  
ClientSampleId :  
AREA-3(D)

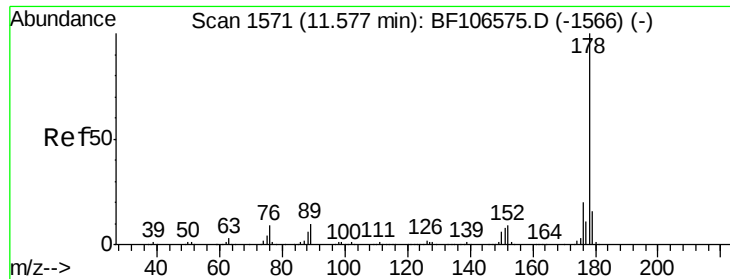
Tgt Ion:188 Resp: 282338  
Ion Ratio Lower Upper  
188 100  
94 9.4 8.5 12.7  
80 10.6 9.2 13.8



#70  
Phenanthrene  
Concen: 84.082 ng  
RT: 11.52 min Scan# 1562  
Delta R.T. 0.00 min  
Lab File: BF106664.D  
Acq: 21 Jun 2018 16:20

Tgt Ion:178 Resp: 1145007  
Ion Ratio Lower Upper  
178 100  
176 21.0 15.8 23.8  
179 16.5 13.0 19.6

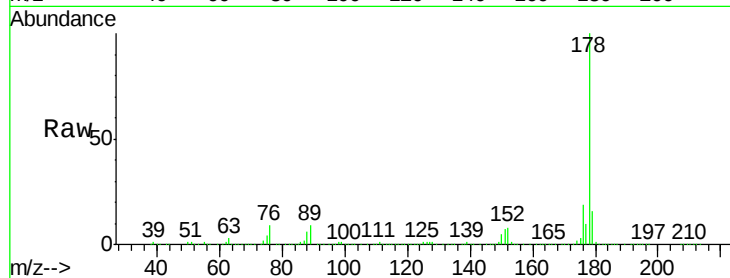




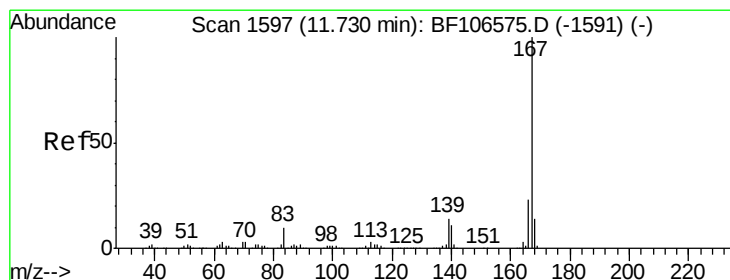
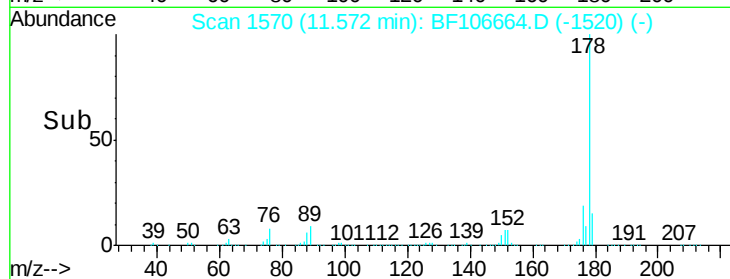
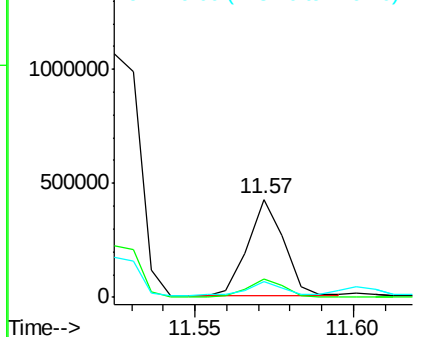
#71  
 Anthracene  
 Concen: 24.067 ng  
 RT: 11.57 min Scan# 1570  
 Delta R.T. -0.01 min  
 Lab File: BF106664.D  
 Acq: 21 Jun 2018 16:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 AREA-3(D)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.3  | 15.4  | 23.2  |
| 179     | 16.3  | 12.6  | 19.0  |

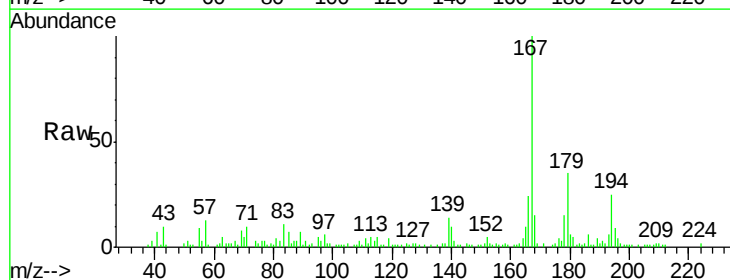


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

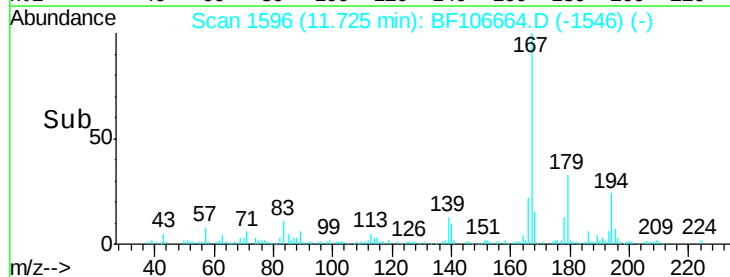
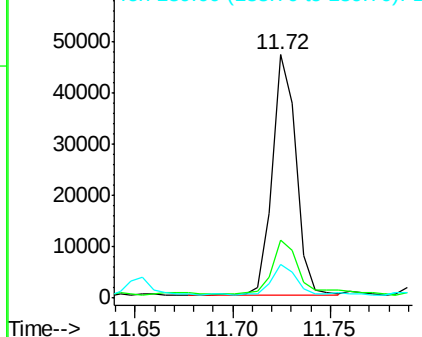


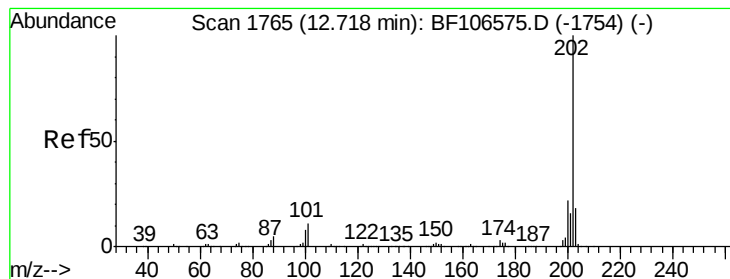
#72  
 Carbazole  
 Concen: 3.026 ng  
 RT: 11.72 min Scan# 1596  
 Delta R.T. -0.01 min  
 Lab File: BF106664.D  
 Acq: 21 Jun 2018 16:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 23.7  | 17.6  | 26.4  |
| 139     | 13.9  | 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





#74

Fluoranthene

Concen: 52.118 ng

RT: 12.72 min Scan# 1765

Delta R.T. 0.00 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Instrument :

BNA\_F

ClientSampleId :

AREA-3(D)

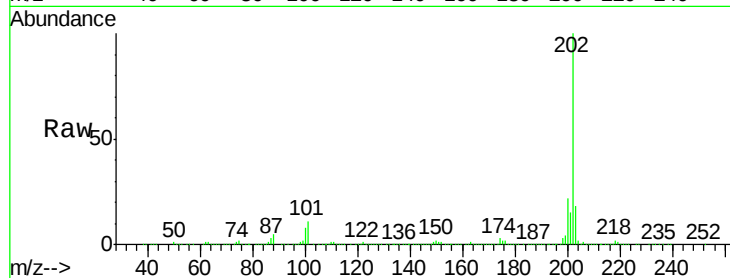
Tgt Ion:202 Resp: 782258

Ion Ratio Lower Upper

202 100

101 10.5 0.0 34.1

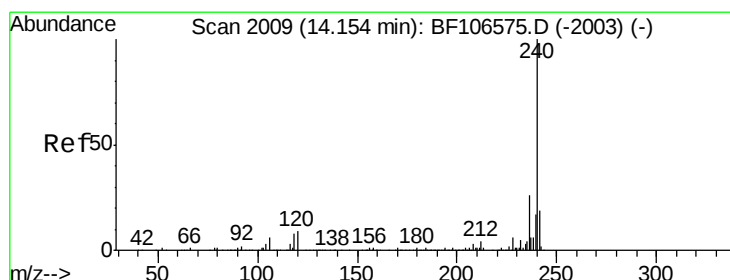
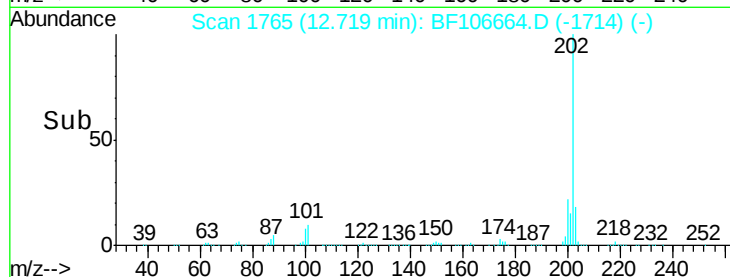
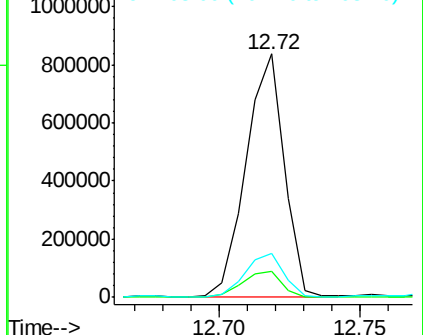
203 18.2 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2009

Delta R.T. 0.00 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

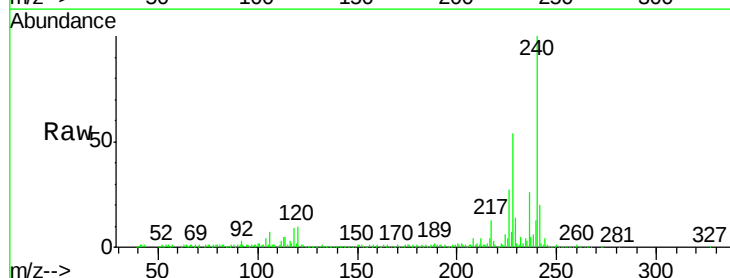
Tgt Ion:240 Resp: 231809

Ion Ratio Lower Upper

240 100

120 10.2 9.5 14.3

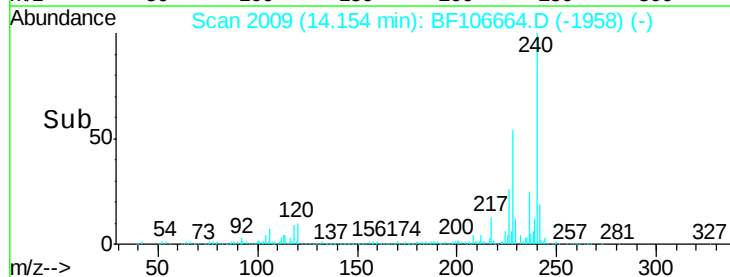
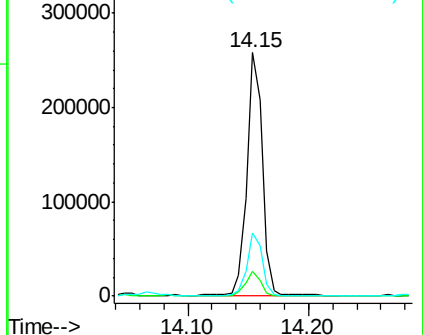
236 25.7 20.7 31.1

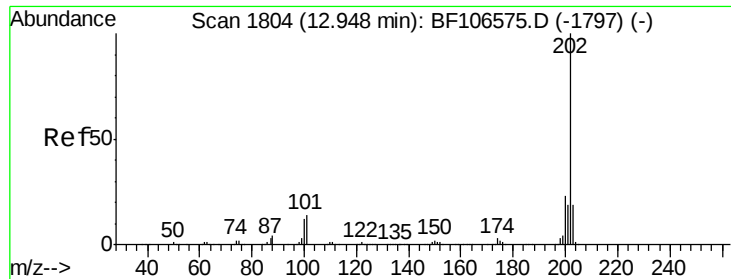


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

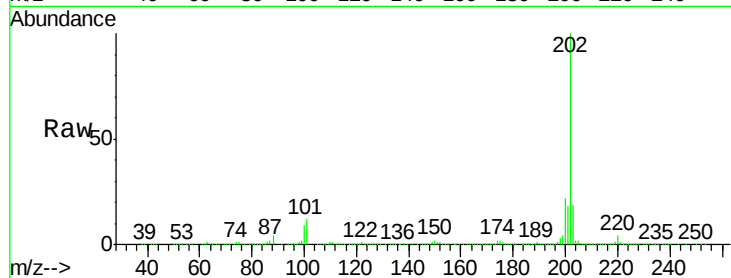




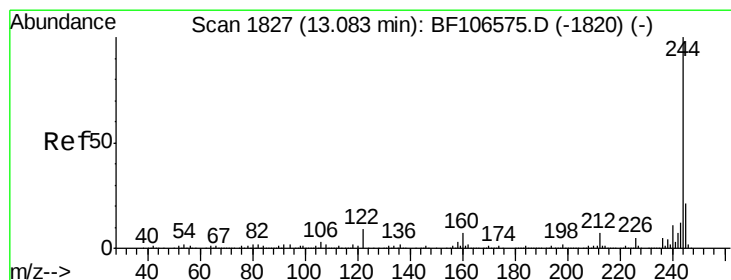
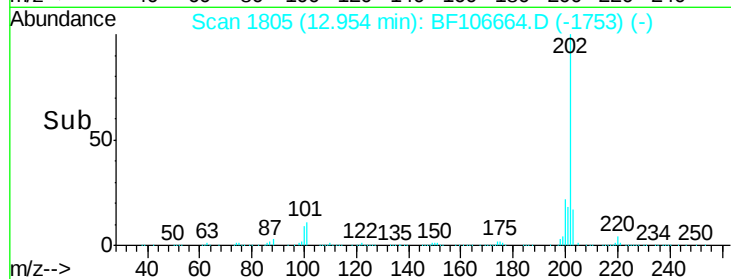
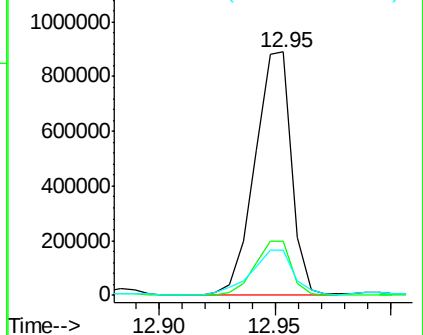
#77  
 Pyrene  
 Concen: 64.071 ng  
 RT: 12.95 min Scan# 1805  
 Delta R.T. 0.01 min  
 Lab File: BF106664.D  
 Acq: 21 Jun 2018 16:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 AREA-3(D)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.2  | 17.4  | 26.2  |
| 203     | 18.7  | 14.3  | 21.5  |

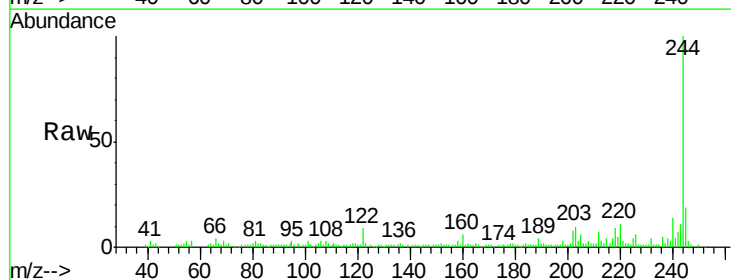


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E

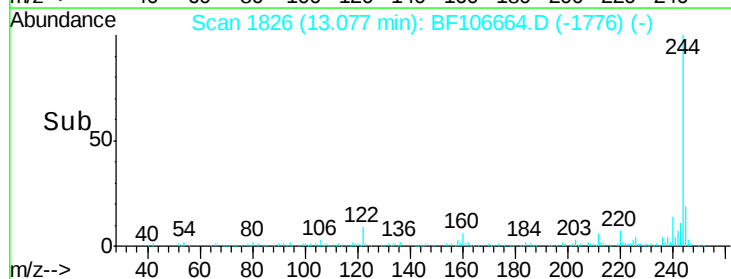
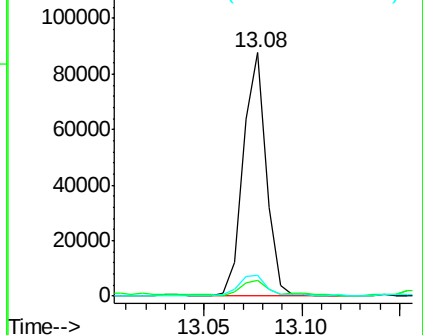


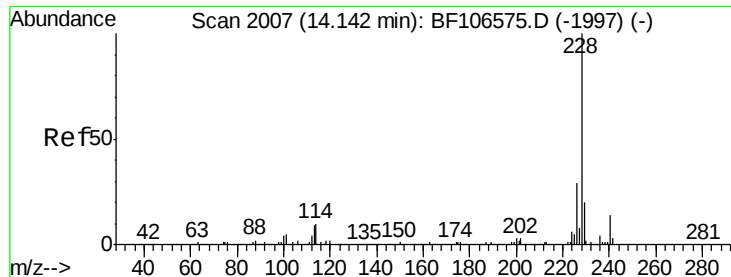
#78  
 Terphenyl-d14  
 Concen: 7.462 ng  
 RT: 13.08 min Scan# 1826  
 Delta R.T. -0.01 min  
 Lab File: BF106664.D  
 Acq: 21 Jun 2018 16:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.5   | 5.4   | 8.0   |
| 122     | 8.6   | 11.0  | 16.4  |



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





#80

Benzo(a)anthracene

Concen: 28.263 ng

RT: 14.18 min Scan# 2014

Delta R.T. 0.04 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

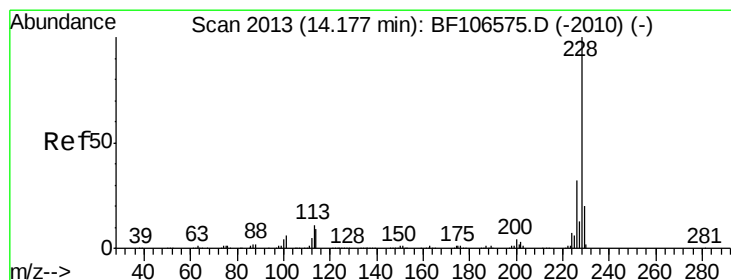
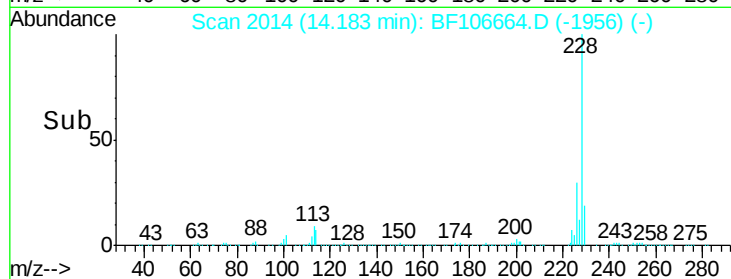
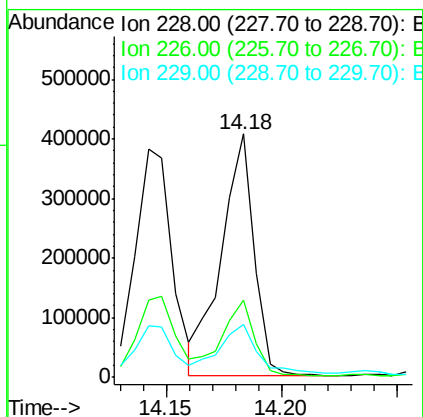
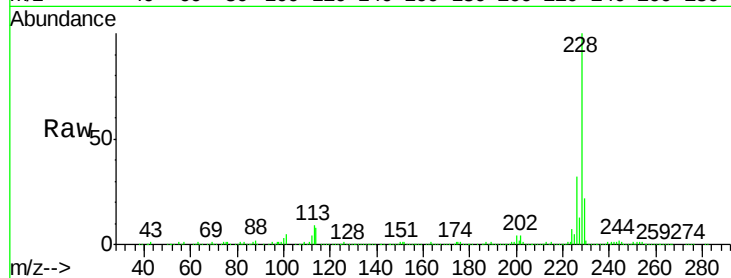
Instrument :

BNA\_F

ClientSampleId :

AREA-3(D)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 228   | Resp: | 399305 |
| Ion      | Ratio | Lower | Upper  |
| 228      | 100   |       |        |
| 226      | 31.6  | 22.6  | 33.8   |
| 229      | 22.0  | 15.8  | 23.6   |



#82

Chrysene

Concen: 30.721 ng

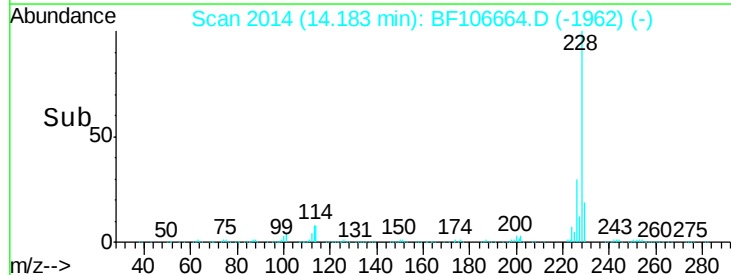
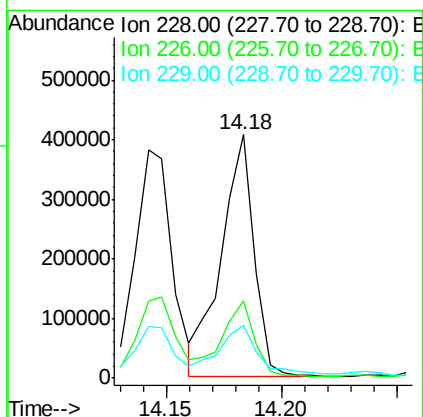
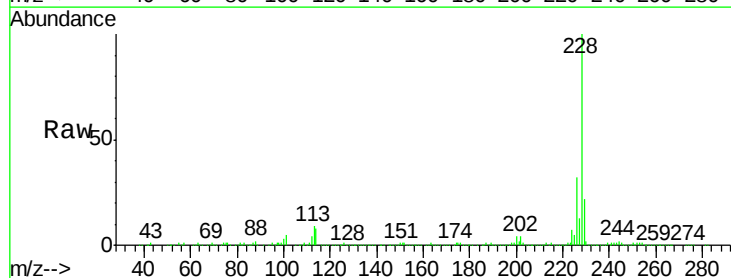
RT: 14.18 min Scan# 2014

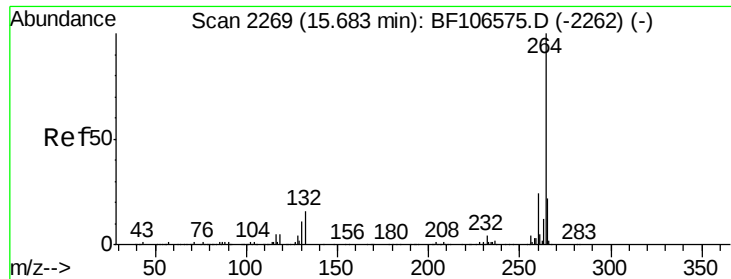
Delta R.T. 0.01 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 228   | Resp: | 399305 |
| Ion      | Ratio | Lower | Upper  |
| 228      | 100   |       |        |
| 226      | 31.6  | 25.0  | 37.6   |
| 229      | 22.0  | 16.2  | 24.4   |

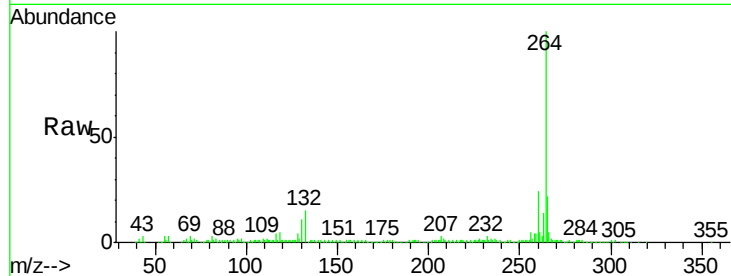




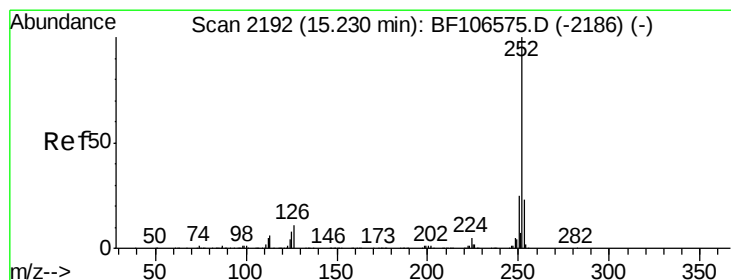
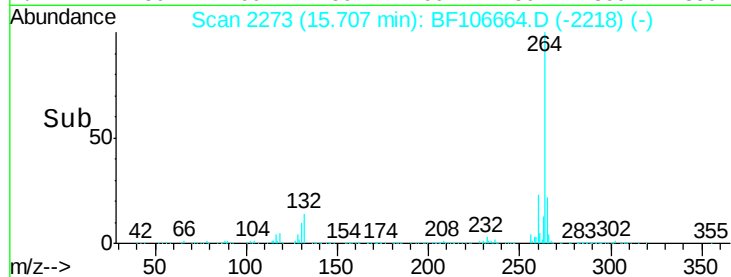
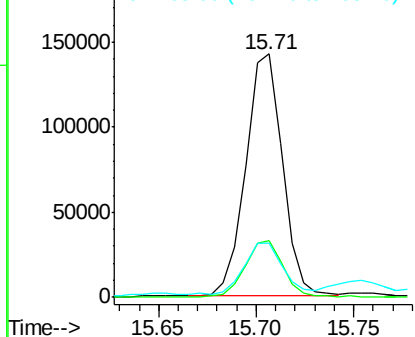
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.71 min Scan# 2273  
Delta R.T. 0.02 min  
Lab File: BF106664.D  
Acq: 21 Jun 2018 16:20

Instrument :  
BNA\_F  
ClientSampleId :  
AREA-3(D)

Tgt Ion:264 Resp: 186053  
Ion Ratio Lower Upper  
264 100  
260 23.5 19.2 28.8  
265 22.5 17.5 26.3

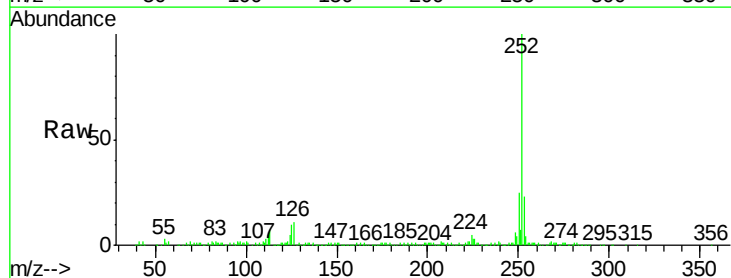


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

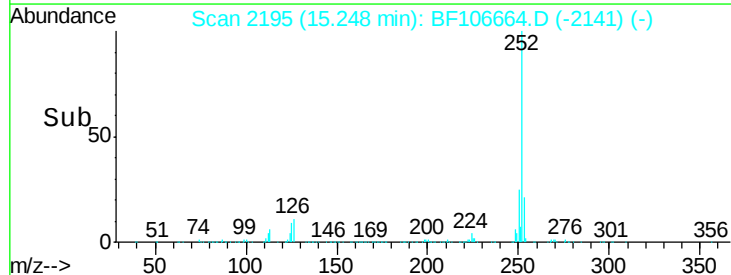
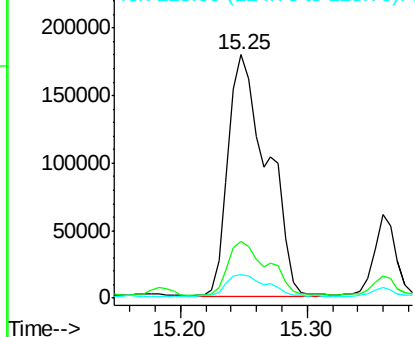


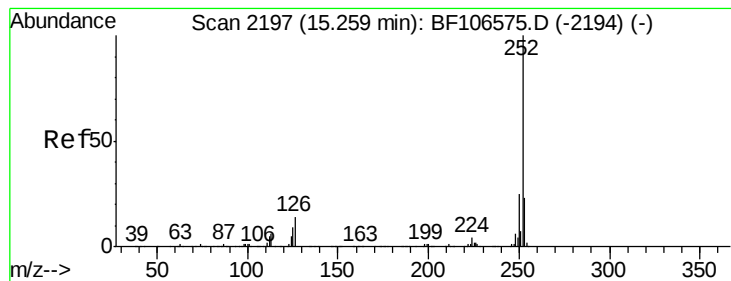
#87  
Benzo(b)fluoranthene  
Concen: 33.024 ng  
RT: 15.25 min Scan# 2195  
Delta R.T. 0.02 min  
Lab File: BF106664.D  
Acq: 21 Jun 2018 16:20

Tgt Ion:252 Resp: 381678  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.0 25.6  
125 9.9 9.0 13.6



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: 6.403 ng

RT: 15.36 min Scan# 2214

Delta R.T. 0.10 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Instrument :

BNA\_F

ClientSampleId :

AREA-3(D)

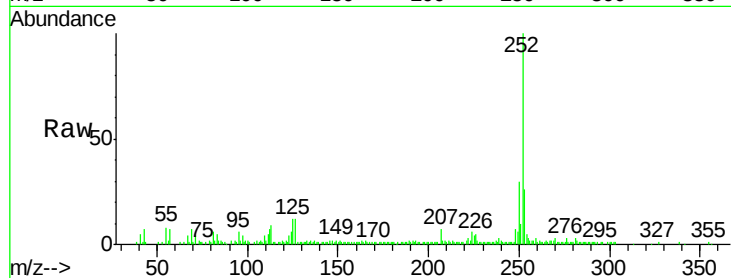
Tgt Ion:252 Resp: 70474

Ion Ratio Lower Upper

252 100

253 25.8 17.9 26.9

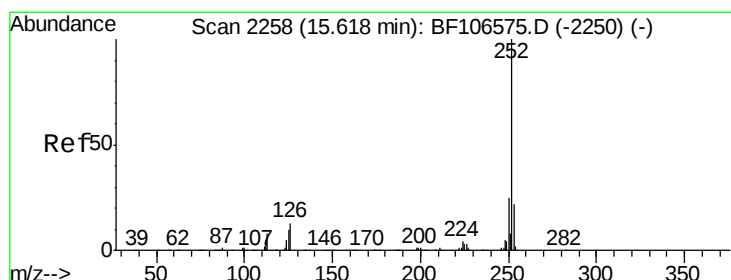
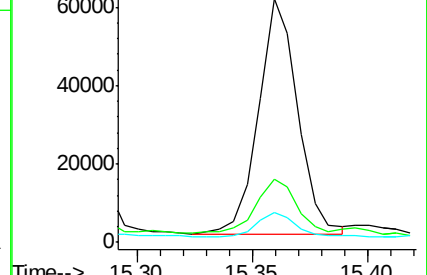
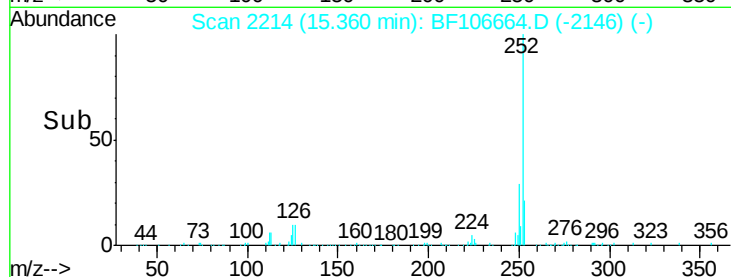
125 12.0 10.2 15.2



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: 15.471 ng

RT: 15.57 min Scan# 2250

Delta R.T. -0.05 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

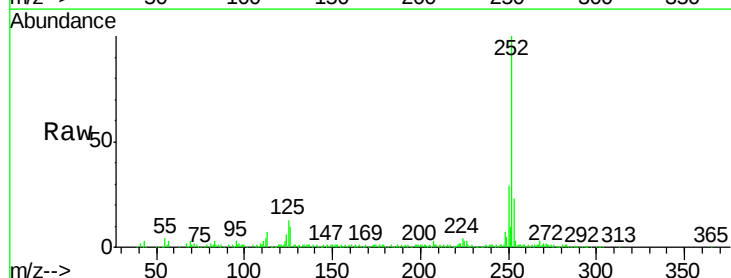
Tgt Ion:252 Resp: 158958

Ion Ratio Lower Upper

252 100

253 23.3 17.1 25.7

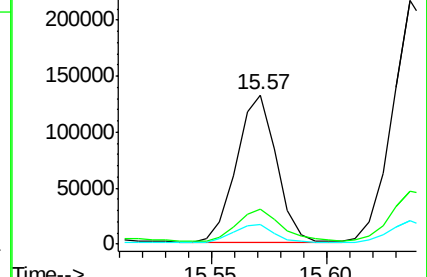
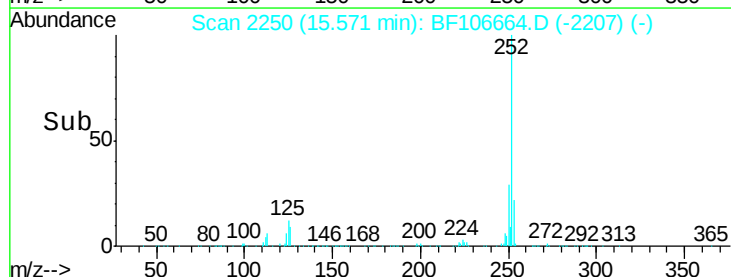
125 13.0 9.8 14.6

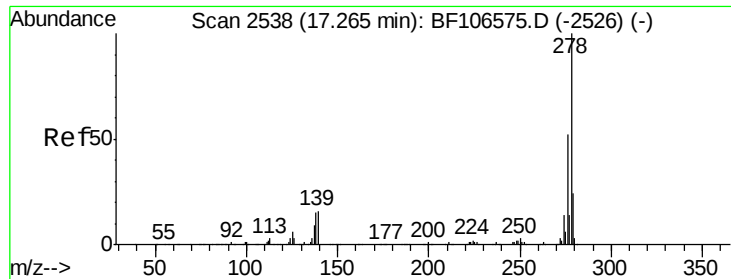


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 3.968 ng

RT: 17.28 min Scan# 2541

Delta R.T. 0.02 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Instrument :

BNA\_F

ClientSampleId :

AREA-3(D)

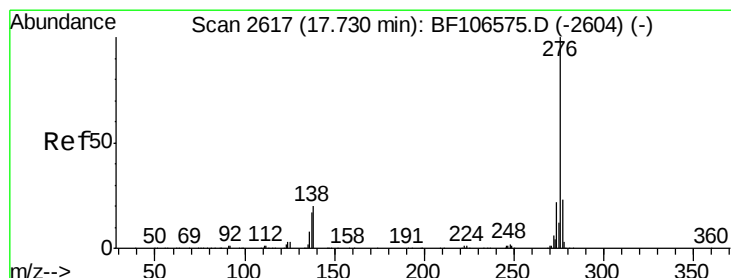
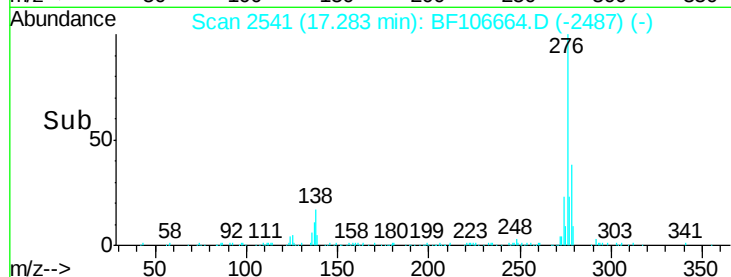
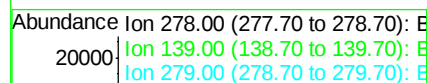
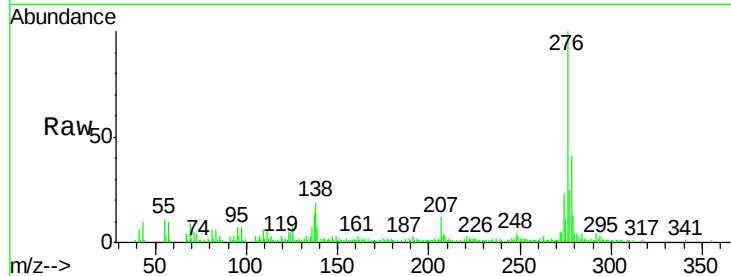
Tgt Ion:278 Resp: 34548

Ion Ratio Lower Upper

278 100

139 17.5 15.9 23.9

279 31.9 19.0 28.4#



#91

Benzo(g,h,i)perylene

Concen: 14.206 ng

RT: 17.75 min Scan# 2621

Delta R.T. 0.02 min

Lab File: BF106664.D

Acq: 21 Jun 2018 16:20

Tgt Ion:276 Resp: 120901

Ion Ratio Lower Upper

276 100

277 25.1 17.9 26.9

138 20.9 21.8 32.8#

