

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021418\  
 Data File : BF102996.D  
 Acq On : 14 Feb 2018 18:19  
 Operator : SJ/JU  
 Sample : J1539-17  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Feb 15 00:07:24 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 05 00:38:27 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.87  | 152  | 144786   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 541649   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.92  | 164  | 189042   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.41 | 188  | 250060   | 20.00 | ng    | 0.01     |
| 75) Chrysene-d12          | 14.07 | 240  | 129049   | 20.00 | ng    | 0.04     |
| 86) Perylene-d12          | 15.59 | 264  | 126559   | 20.00 | ng    | 0.08     |

|                             |       |     |         |       |    |      |
|-----------------------------|-------|-----|---------|-------|----|------|
| System Monitoring Compounds |       |     |         |       |    |      |
| 5) 2-Fluorophenol           | 5.49  | 112 | 935842  | 98.16 | ng | 0.00 |
| 7) Phenol-d6                | 6.50  | 99  | 1102000 | 96.00 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.44  | 82  | 658860  | 84.38 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 10.71 | 330 | 141674  | 93.11 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 9.23  | 172 | 906422  | 79.56 | ng | 0.00 |
| 78) Terphenyl-d14           | 13.01 | 244 | 441882  | 81.08 | ng | 0.02 |

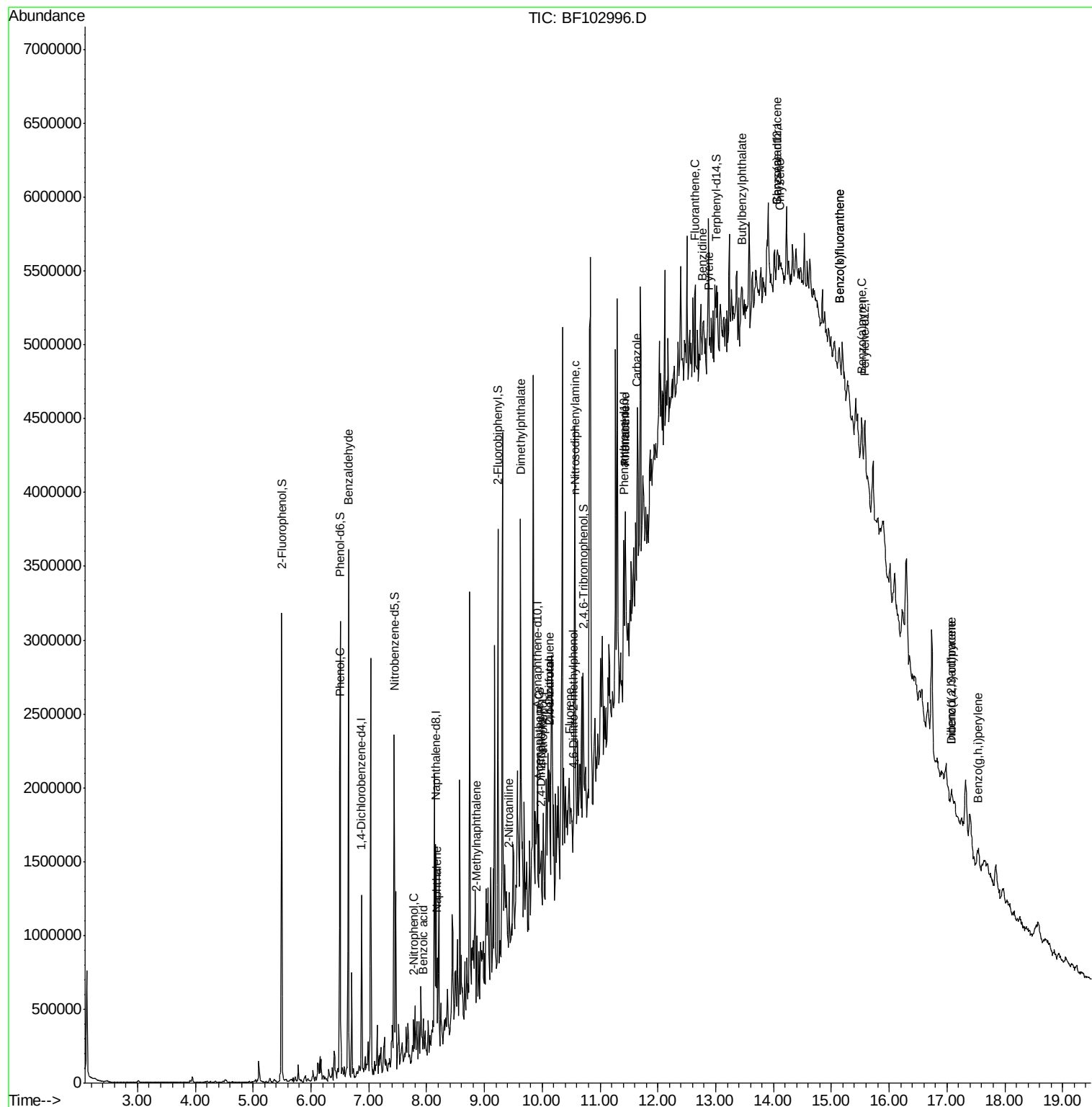
|                                |       |     |        |       |    |        |
|--------------------------------|-------|-----|--------|-------|----|--------|
| Target Compounds               |       |     |        |       |    | Qvalue |
| 9) Benzaldehyde                | 6.65  | 77  | 20222  | 2.37  | ng | 87     |
| 10) Phenol                     | 6.52  | 94  | 33790  | 2.75  | ng | 91     |
| 26) 2-Nitrophenol              | 7.77  | 139 | 3661   | 9.46  | ng | # 1    |
| 31) Naphthalene                | 8.18  | 128 | 137385 | 5.19  | ng | 99     |
| 32) Benzoic acid               | 7.94  | 122 | 6199   | 9.66  | ng | # 35   |
| 37) 2-Methylnaphthalene        | 8.87  | 142 | 121103 | 6.99  | ng | 99     |
| 47) 2-Nitroaniline             | 9.43  | 65  | 1981   | 3.95  | ng | # 44   |
| 49) Dimethylphthalate          | 9.62  | 163 | 125987 | 8.55  | ng | # 94   |
| 51) Acenaphthene               | 9.95  | 154 | 39782  | 3.42  | ng | 92     |
| 53) 2,4-Dinitrophenol          | 9.97  | 184 | 108    | 8.14  | ng | # 1    |
| 54) Dibenzofuran               | 10.12 | 168 | 47065  | 2.87  | ng | # 64   |
| 55) 4-Nitrophenol              | 10.02 | 139 | 11806  | 7.98  | ng | # 25   |
| 56) 2,4-Dinitrotoluene         | 10.12 | 165 | 7464   | 4.93  | ng | # 47   |
| 57) Fluorene                   | 10.46 | 166 | 53747  | 4.50  | ng | # 95   |
| 64) 4,6-Dinitro-2-methylphenol | 10.53 | 198 | 1697   | 10.30 | ng | # 1    |
| 65) n-Nitrosodiphenylamine     | 10.57 | 169 | 81974  | 9.29  | ng | # 42   |
| 70) Phenanthrene               | 11.43 | 178 | 386051 | 27.72 | ng | 98     |
| 71) Anthracene                 | 11.43 | 178 | 386051 | 27.25 | ng | 97     |
| 72) Carbazole                  | 11.64 | 167 | 38834  | 2.80  | ng | # 46   |
| 74) Fluoranthene               | 12.65 | 202 | 340140 | 24.28 | ng | 96     |
| 76) Benzidine                  | 12.77 | 184 | 20295  | 3.42  | ng | # 3    |
| 77) Pyrene                     | 12.87 | 202 | 316702 | 31.30 | ng | 97     |
| 79) Butylbenzylphthalate       | 13.46 | 149 | 5298   | 2.10  | ng | # 22   |
| 80) Benzo(a)anthracene         | 14.07 | 228 | 103057 | 12.70 | ng | # 83   |
| 82) Chrysene                   | 14.10 | 228 | 120740 | 14.76 | ng | # 89   |
| 85) Indeno(1,2,3-cd)pyrene     | 17.09 | 276 | 71461  | 10.53 | ng | 100    |
| 87) Benzo(b)fluoranthene       | 15.14 | 252 | 172358 | 21.01 | ng | # 20   |
| 88) Benzo(k)fluoranthene       | 15.14 | 252 | 172358 | 21.98 | ng | # 24   |
| 89) Benzo(a)pyrene             | 15.52 | 252 | 86945  | 11.77 | ng | # 28   |
| 90) Dibenzo(a,h)anthracene     | 17.09 | 278 | 17999  | 3.00  | ng | # 1    |
| 91) Benzo(g,h,i)perylene       | 17.54 | 276 | 72741  | 12.40 | ng | # 84   |

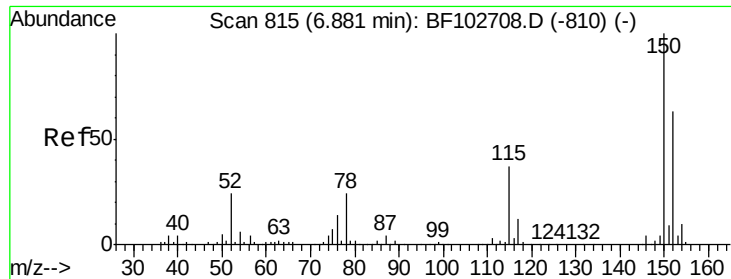
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021418\  
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Sample : J1539-17  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :

Quant Time: Feb 15 00:07:24 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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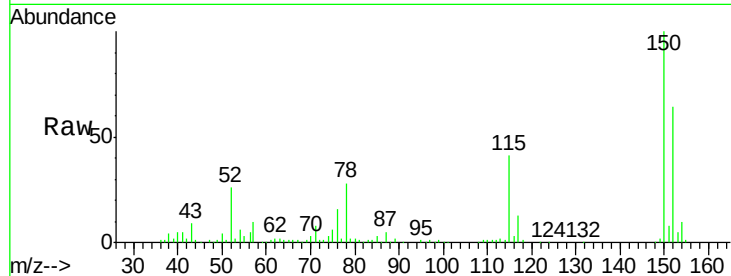


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.87 min Scan# 814  
Delta R.T. -0.01 min  
Lab File: BF102996.D  
Acq: 14 Feb 2018 18:19

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.1 | 124.6 | 186.8 |
| 115     | 63.8  | 50.1  | 75.1  |

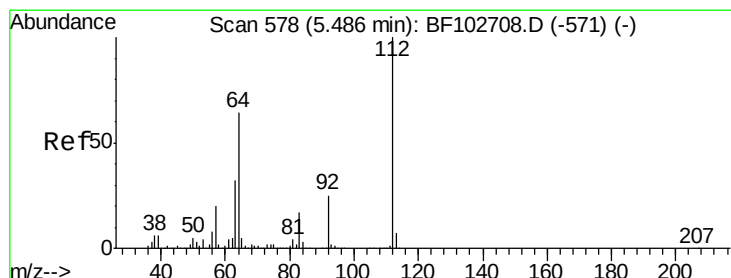
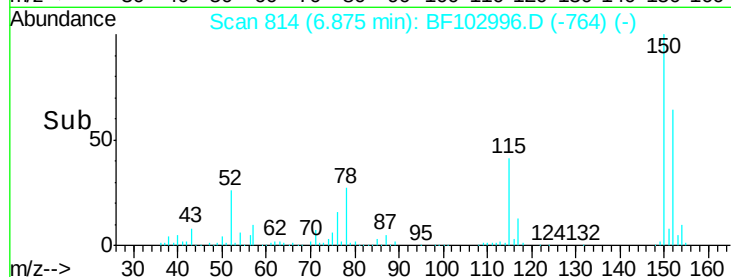
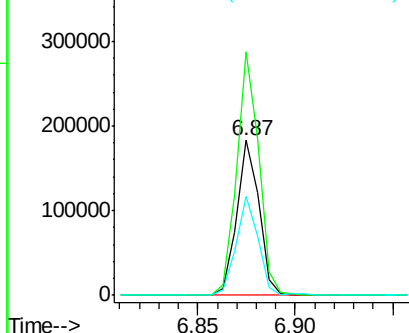


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

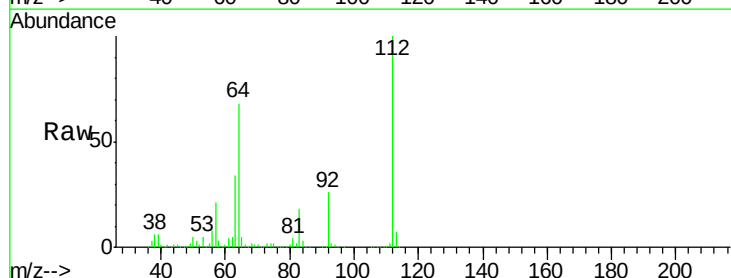
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 98.16 ng  
RT: 5.49 min Scan# 579  
Delta R.T. 0.01 min  
Lab File: BF102996.D  
Acq: 14 Feb 2018 18:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.5  | 47.9  | 71.9  |
| 63      | 33.7  | 23.7  | 35.5  |

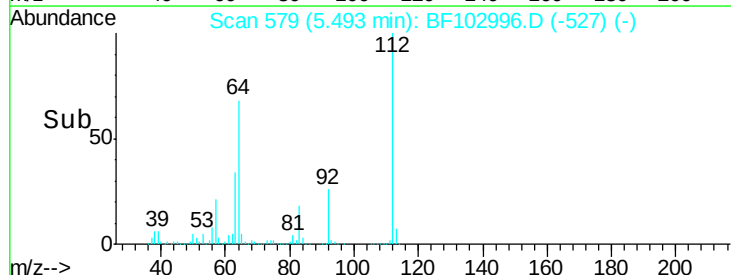
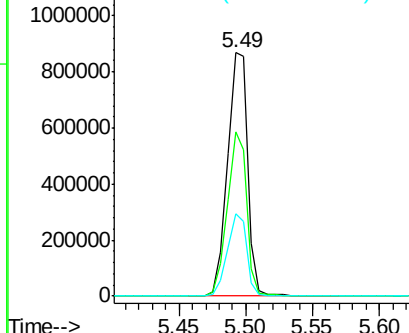


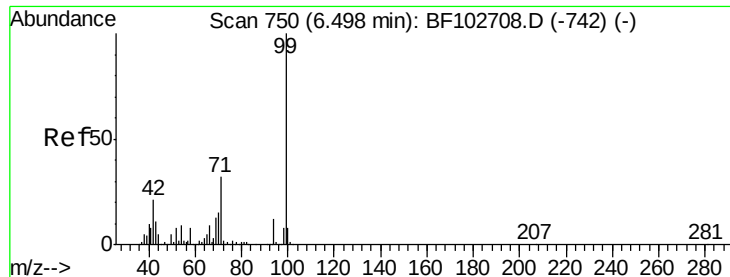
Abundance

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: 96.00 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

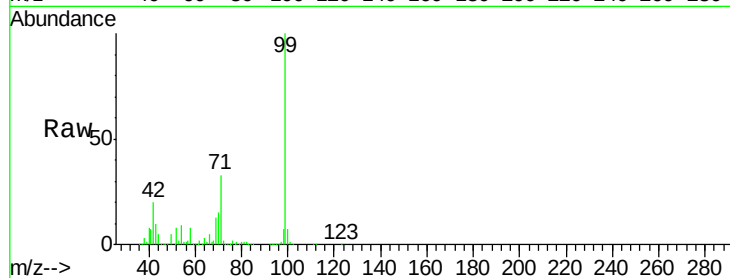
Instrument :

BNA\_F

ClientSampled :

Tot Ion: 99 Resp: 1102000

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 20.0  | 14.5  | 21.7  |
| 71  | 33.0  | 25.4  | 38.0  |

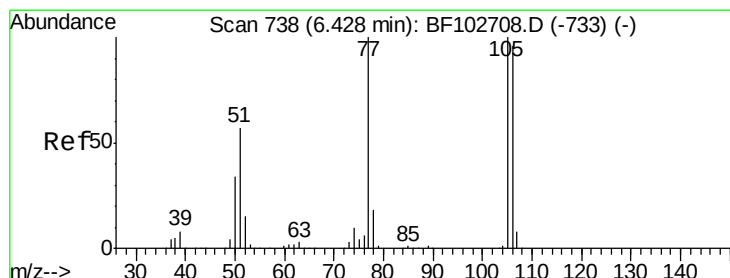
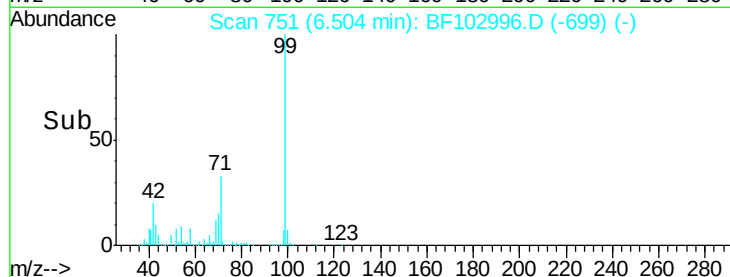


Abundance

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



#9

Benzaldehyde

Concen: 2.37 ng

RT: 6.65 min Scan# 775

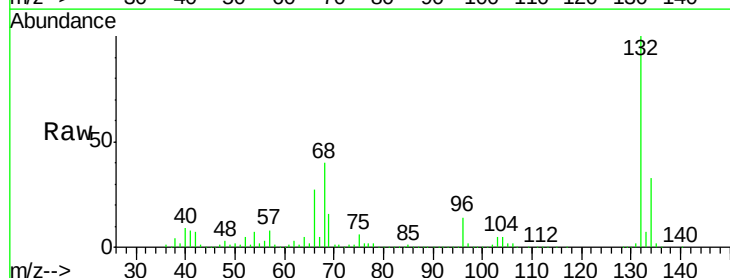
Delta R.T. 0.22 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Tgt Ion: 77 Resp: 20222

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 77  | 100   |       |       |
| 105 | 90.0  | 81.1  | 121.1 |
| 106 | 80.6  | 74.5  | 114.5 |

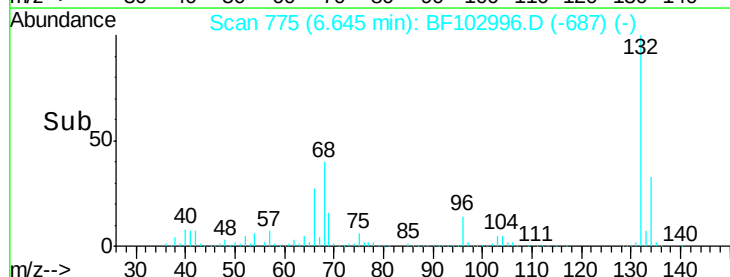


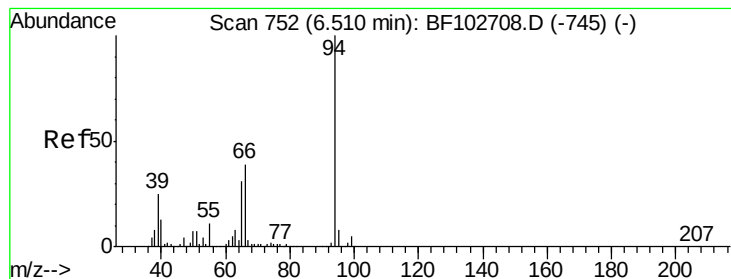
Abundance

Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1





#10

Phenol

Concen: 2.75 ng

RT: 6.52 min Scan# 753

Delta R.T. 0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA\_F

ClientSampleId :

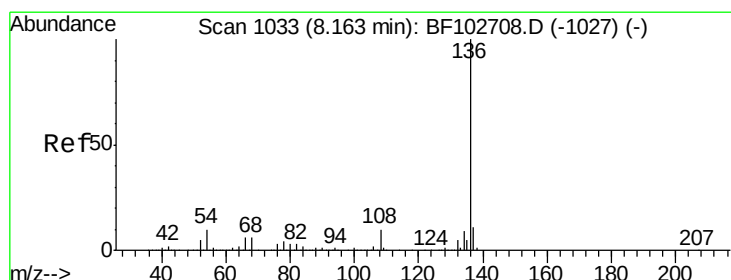
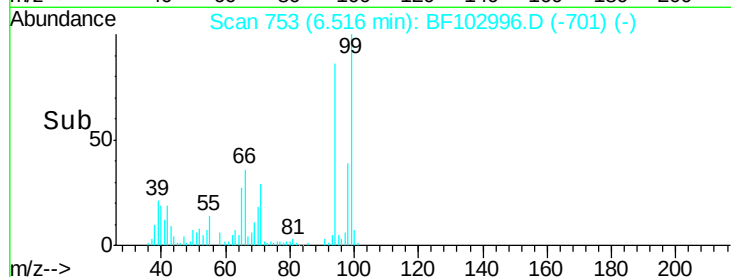
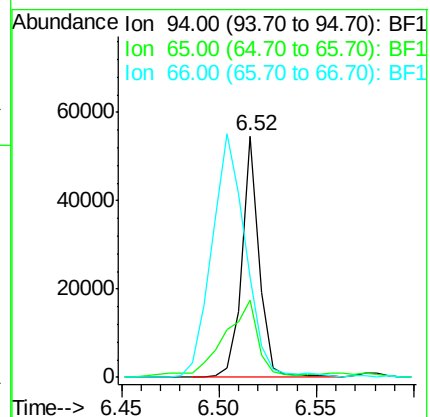
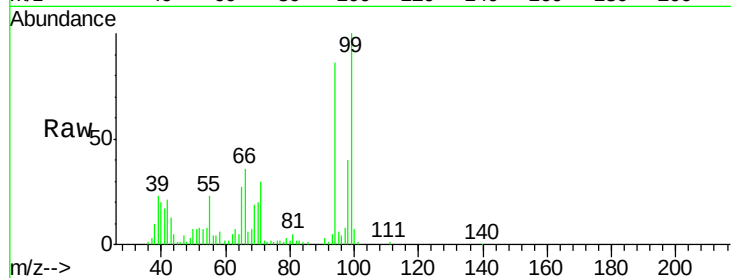
Tot Ion: 94 Resp: 33790

Ion Ratio Lower Upper

94 100

65 32.0 7.9 47.9

66 41.7 16.2 56.2



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Tgt Ion: 136 Resp: 541649

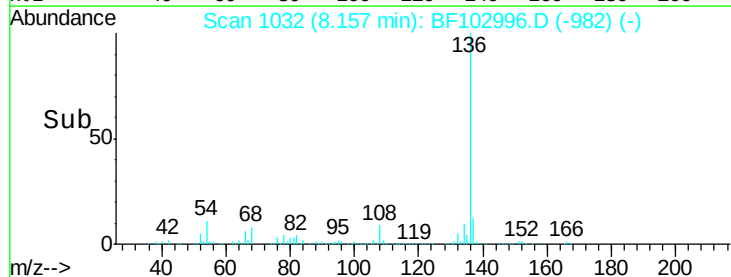
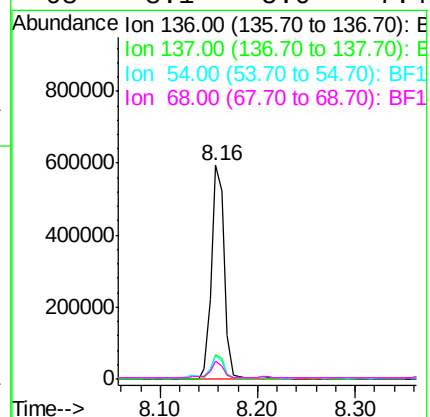
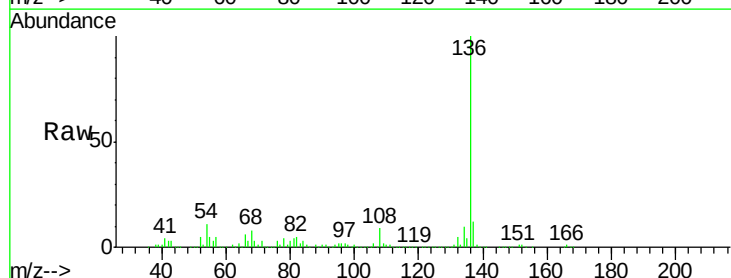
Ion Ratio Lower Upper

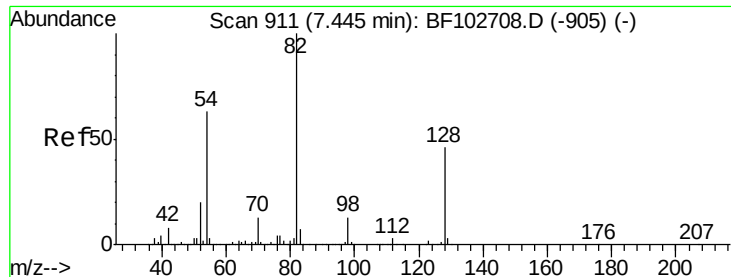
136 100

137 11.7 8.9 13.3

54 11.0 6.6 9.8#

68 8.1 5.0 7.4#

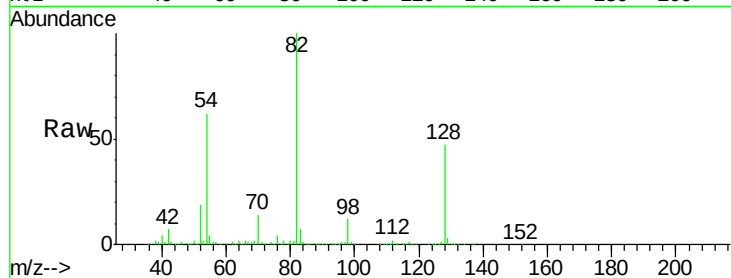




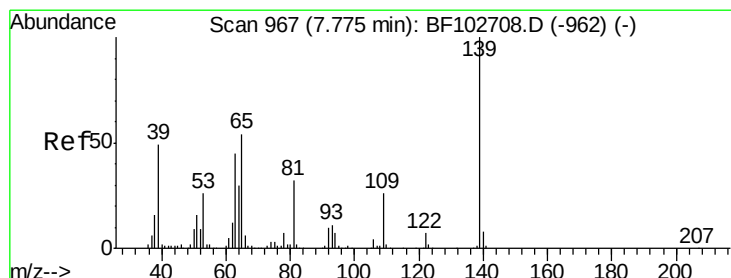
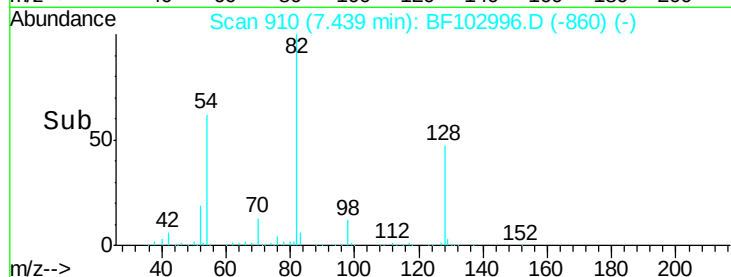
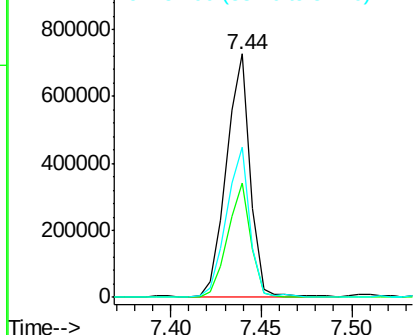
#23  
Nitrobenzene-d5  
Concen: 84.38 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.01 min  
Lab File: BF102996.D  
Acq: 14 Feb 2018 18:19

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion   | 82   | Resp  | 658860 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 46.7 | 36.1  | 54.1   |
| 54        | 61.6 | 41.4  | 62.2   |

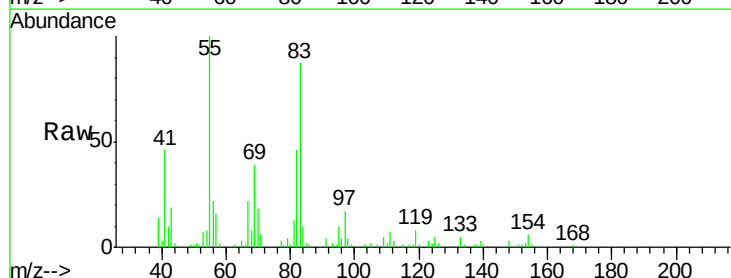


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

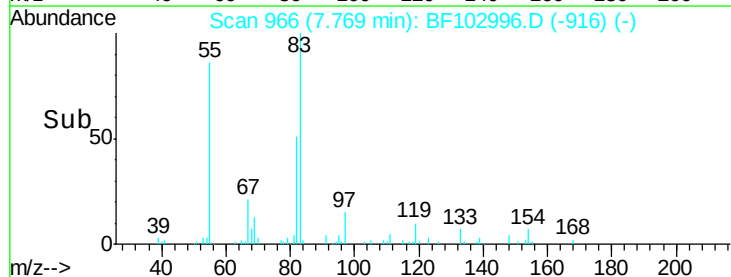
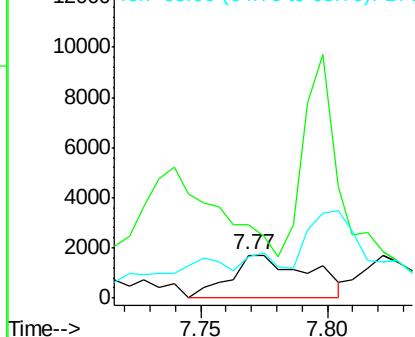


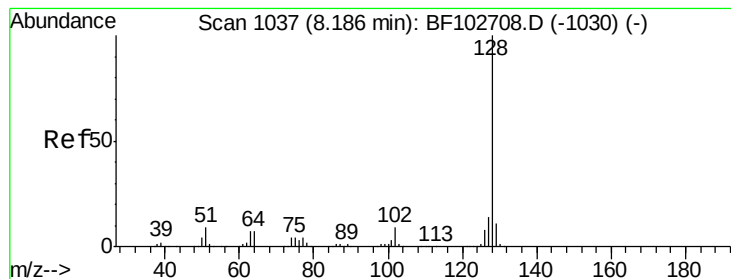
#26  
2-Nitrophenol  
Concen: 9.46 ng  
RT: 7.77 min Scan# 966  
Delta R.T. -0.01 min  
Lab File: BF102996.D  
Acq: 14 Feb 2018 18:19

| Tgt Ion   | 139   | Resp  | 3661  |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 109       | 172.6 | 22.7  | 34.1# |
| 65        | 98.3  | 40.5  | 60.7# |



Abundance Ion 139.00 (138.70 to 139.70): BF1  
Ion 109.00 (108.70 to 109.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1





#31

Naphthalene

Concen: 5.19 ng

RT: 8.18 min Scan# 1036

Delta R.T. -0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA\_F

ClientSampleId :

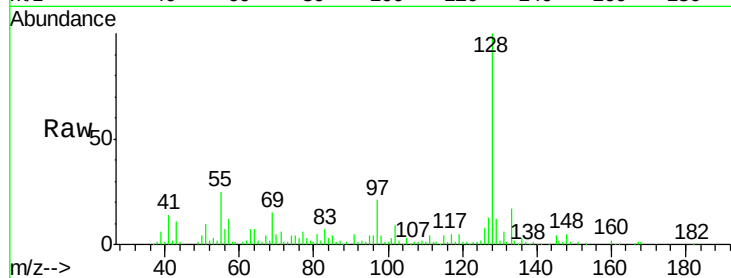
Tot Ion:128 Resp: 137385

Ion Ratio Lower Upper

128 100

129 11.7 8.8 13.2

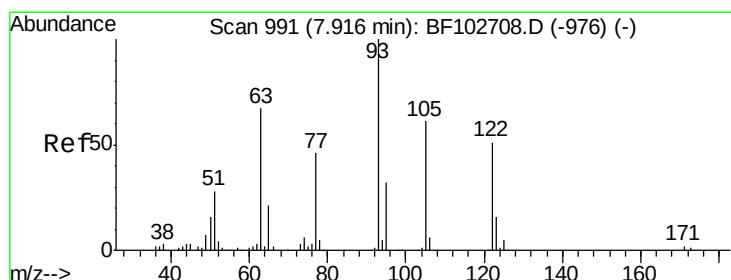
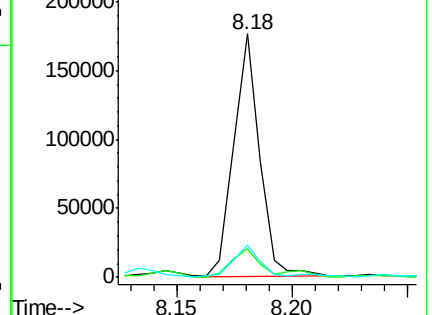
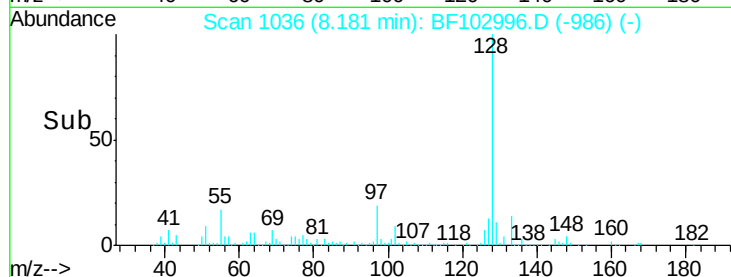
127 13.3 10.9 16.3



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: 9.66 ng

RT: 7.94 min Scan# 995

Delta R.T. 0.02 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

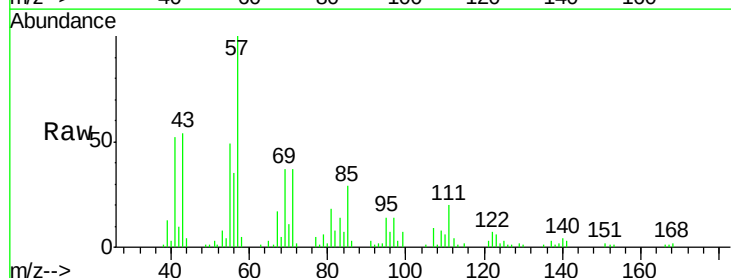
Tgt Ion:122 Resp: 6199

Ion Ratio Lower Upper

122 100

105 11.7 101.1 141.1#

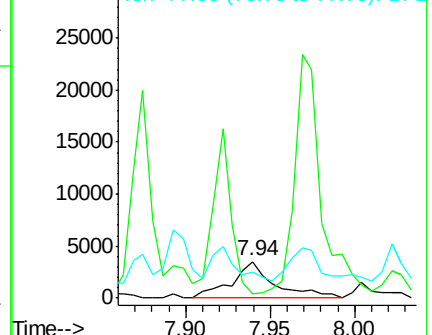
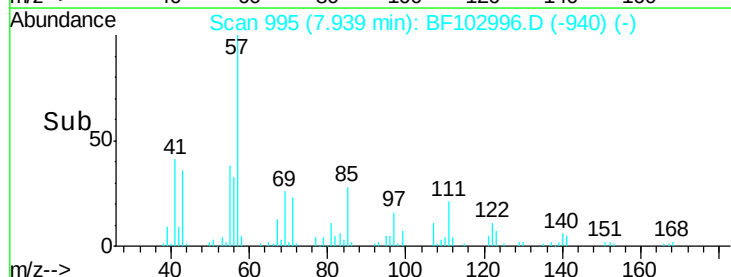
77 71.8 70.7 110.7

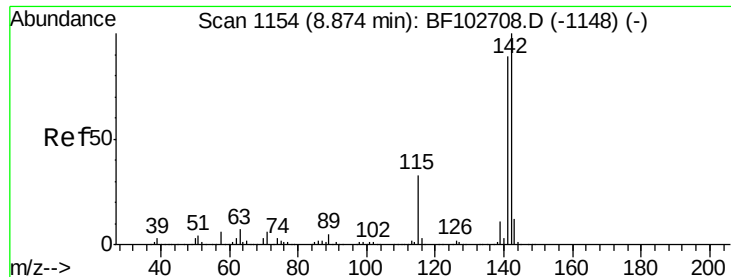


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

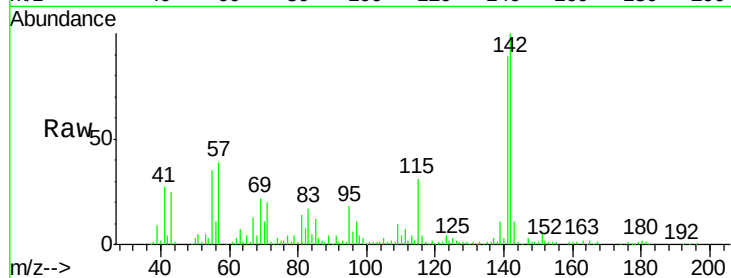




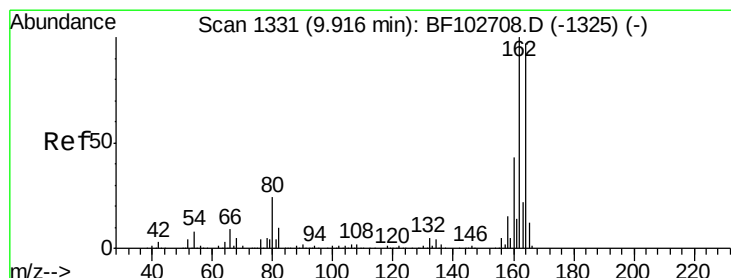
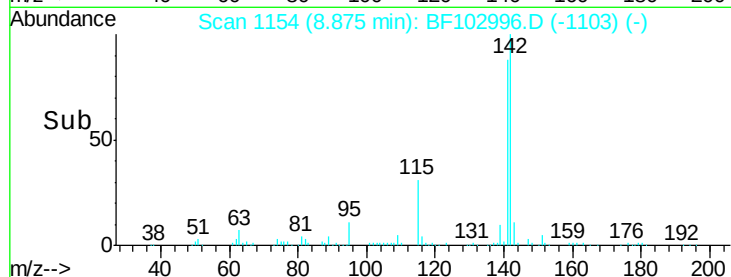
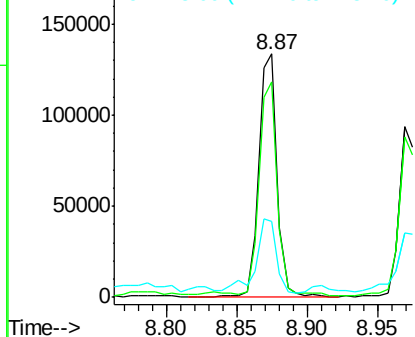
#37  
2-Methylnaphthalene  
Concen: 6.99 ng  
RT: 8.87 min Scan# 1154  
Delta R.T. 0.00 min  
Lab File: BF102996.D  
Acq: 14 Feb 2018 18:19

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:142 Resp: 121103  
Ion Ratio Lower Upper  
142 100  
141 88.6 70.8 106.2  
115 31.3 26.1 39.1

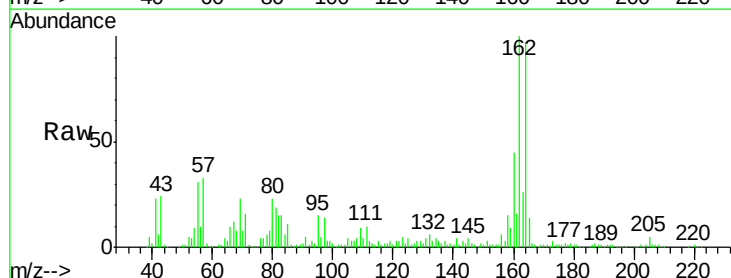


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

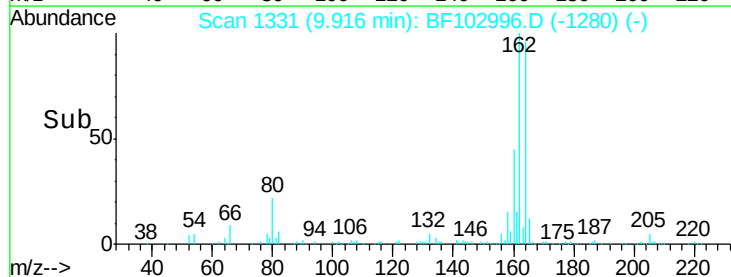
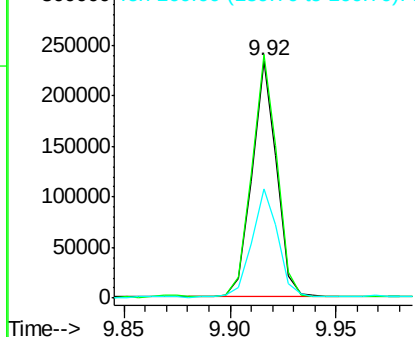


#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.92 min Scan# 1331  
Delta R.T. 0.00 min  
Lab File: BF102996.D  
Acq: 14 Feb 2018 18:19

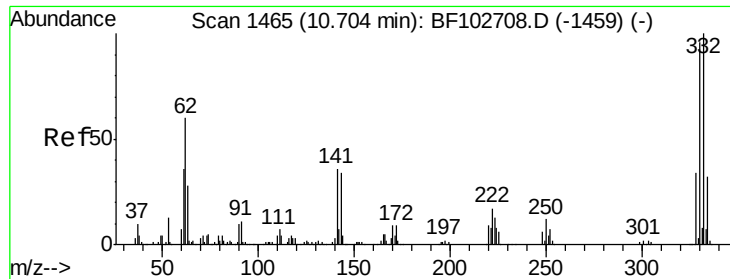
Tgt Ion:164 Resp: 189042  
Ion Ratio Lower Upper  
164 100  
162 102.6 86.1 129.1  
160 46.3 38.3 57.5



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: 93.11 ng

RT: 10.71 min Scan# 1466

Delta R.T. 0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA\_F

ClientSampleId :

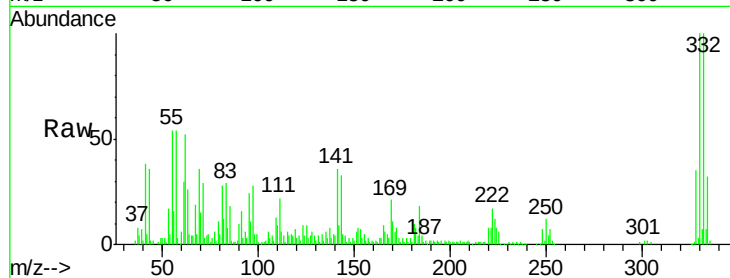
Tot Ion:330 Resp: 141674

Ion Ratio Lower Upper

330 100

332 102.9 77.0 115.6

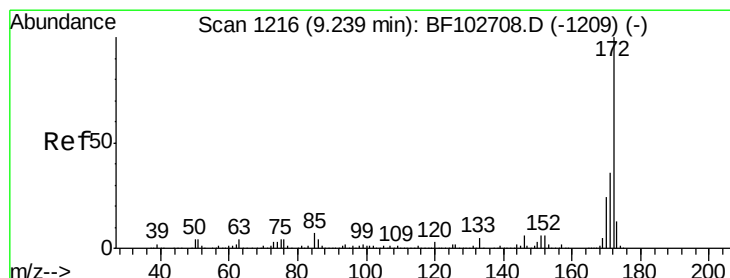
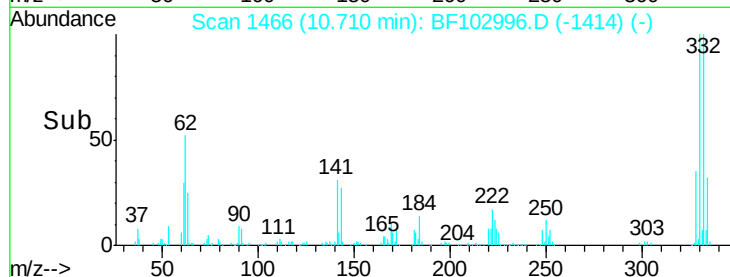
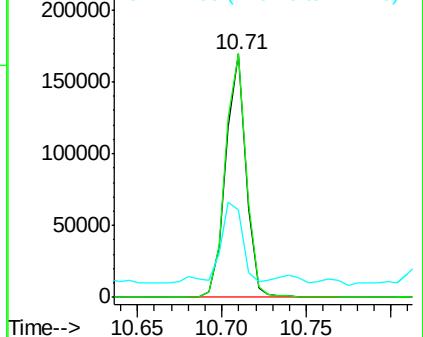
141 37.3 29.9 44.9



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 79.56 ng

RT: 9.23 min Scan# 1215

Delta R.T. -0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

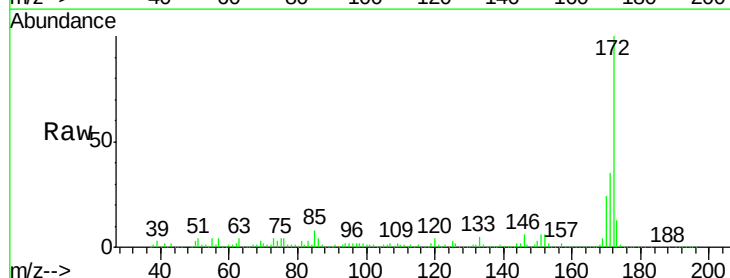
Tgt Ion:172 Resp: 906422

Ion Ratio Lower Upper

172 100

171 35.3 29.7 44.5

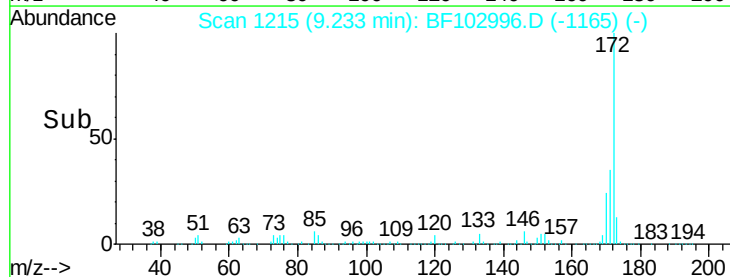
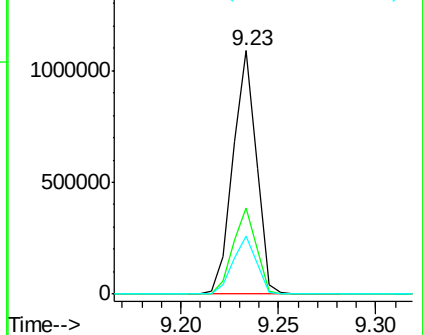
170 23.9 19.6 29.4

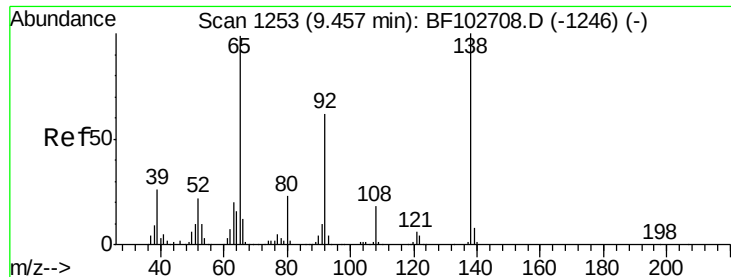


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#47

2-Nitroaniline

Concen: 3.95 ng

RT: 9.43 min Scan# 1248

Delta R.T. -0.03 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA\_F

ClientSampleId :

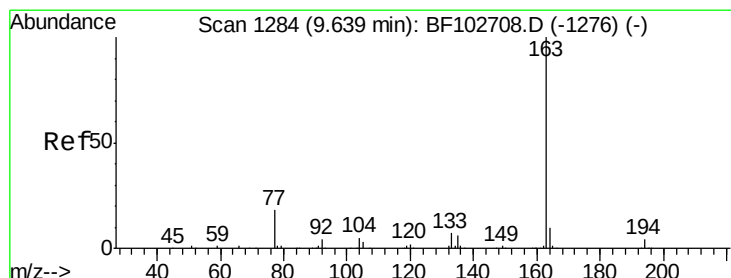
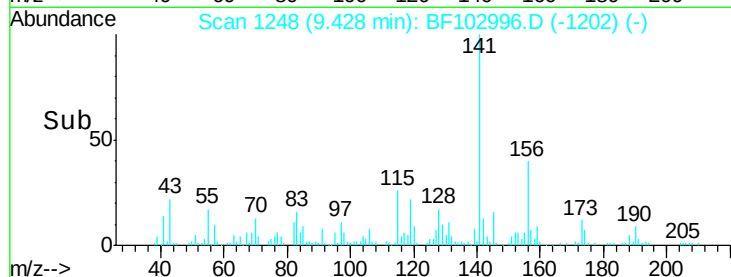
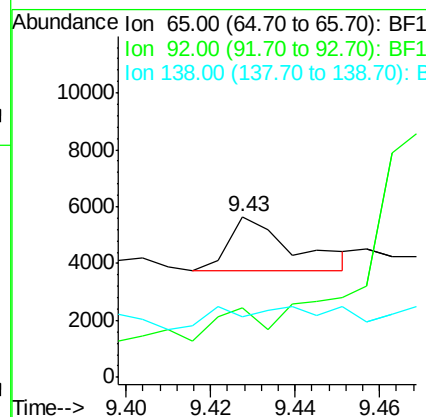
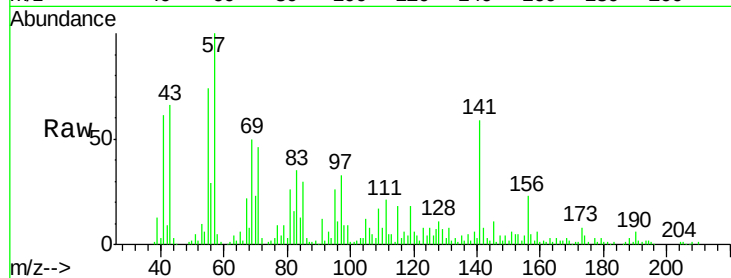
Tot Ion: 65 Resp: 1981

Ion Ratio Lower Upper

65 100

92 43.2 55.8 83.6#

138 37.7 91.2 136.8#



#49

Dimethylphthalate

Concen: 8.55 ng

RT: 9.62 min Scan# 1281

Delta R.T. -0.02 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

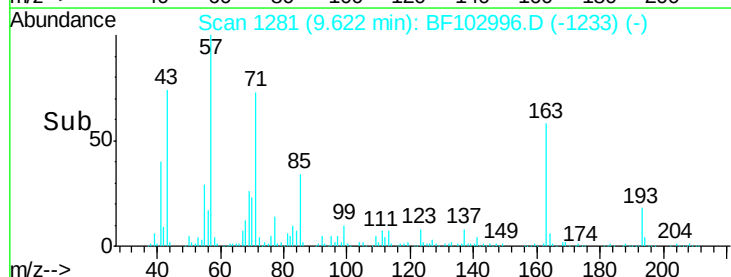
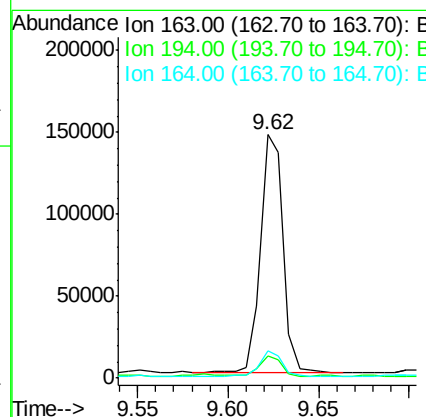
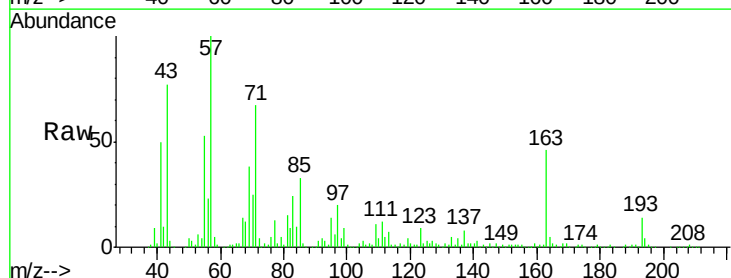
Tgt Ion: 163 Resp: 125987

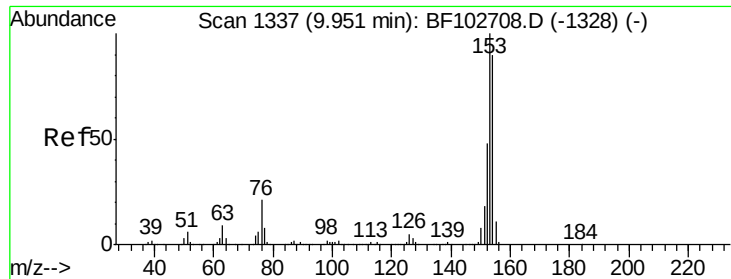
Ion Ratio Lower Upper

163 100

194 9.3 2.7 4.1#

164 11.2 8.2 12.2





#51

Acenaphthene

Concen: 3.42 ng

RT: 9.95 min Scan# 1337

Delta R.T. 0.00 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA\_F

ClientSampleId :

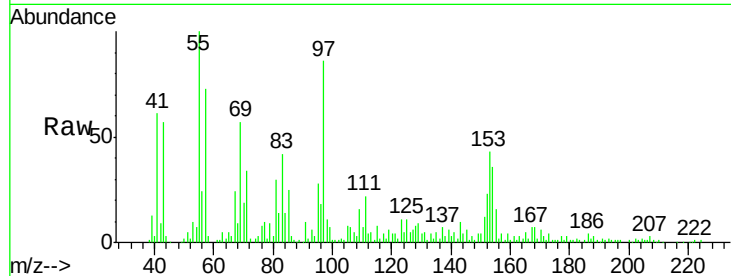
Tot Ion:154 Resp: 39782

Ion Ratio Lower Upper

154 100

153 120.7 91.2 136.8

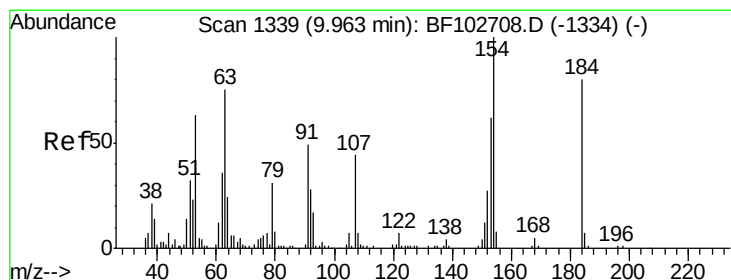
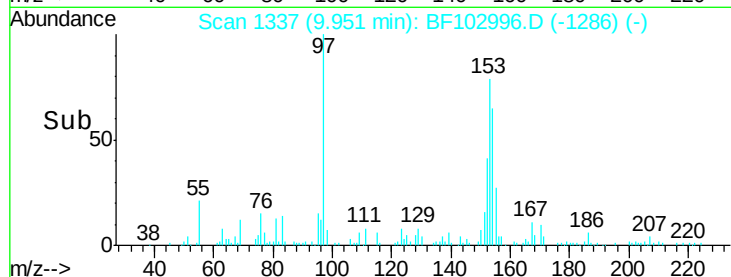
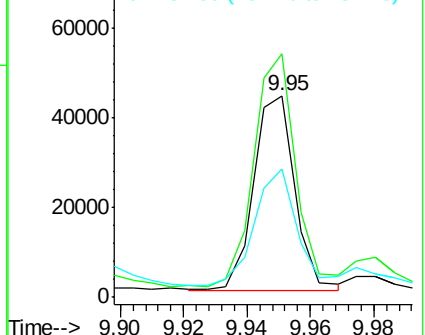
152 63.9 43.8 65.8



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: 8.14 ng

RT: 9.97 min Scan# 1341

Delta R.T. 0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

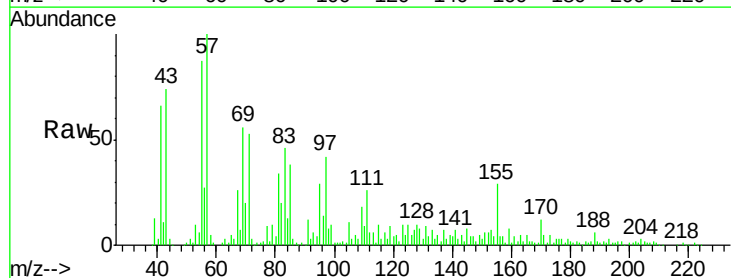
Tgt Ion:184 Resp: 108

Ion Ratio Lower Upper

184 100

63 1081.7 54.2 81.2#

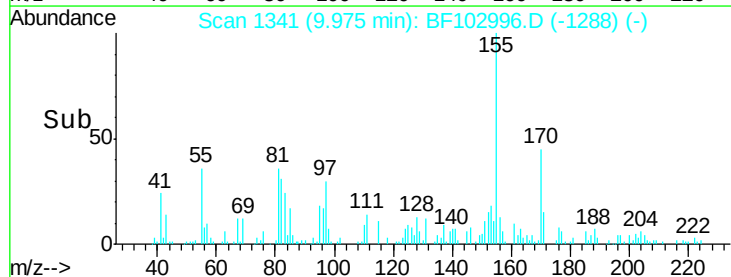
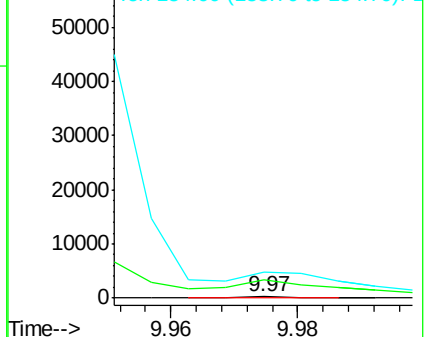
154 1553.6 184.0 276.0#

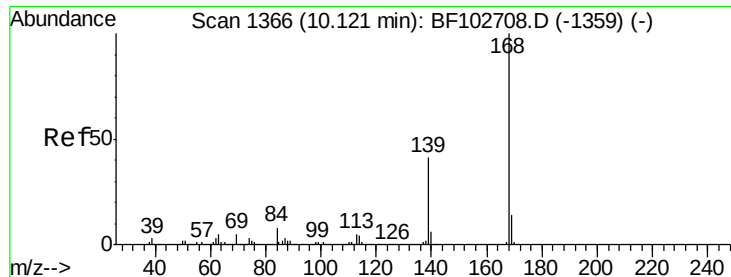


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzofuran

Concen: 2.87 ng

RT: 10.12 min Scan# 1366

Delta R.T. 0.00 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA\_F

ClientSampled :

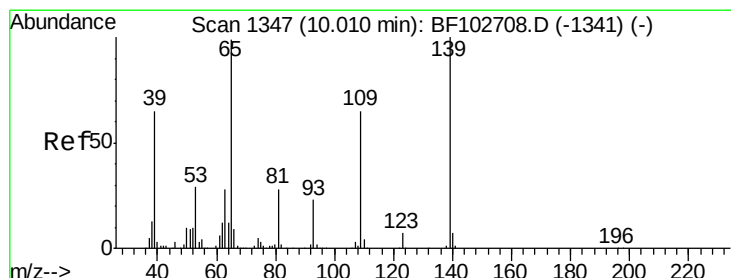
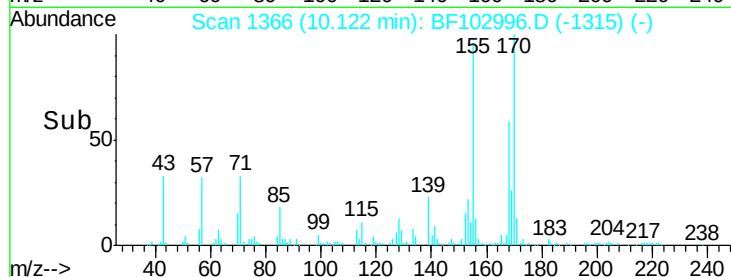
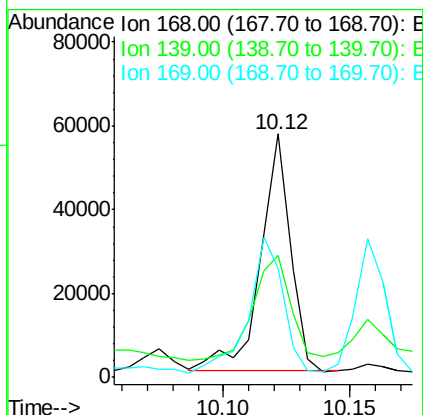
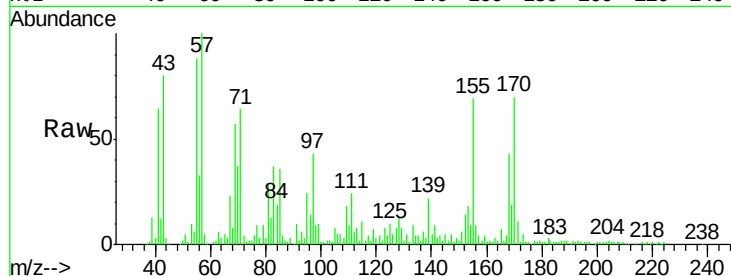
Tot Ion:168 Resp: 47065

Ion Ratio Lower Upper

168 100

139 50.1 30.1 45.1#

169 44.9 10.9 16.3#



#55

4-Nitrophenol

Concen: 7.98 ng

RT: 10.02 min Scan# 1348

Delta R.T. 0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

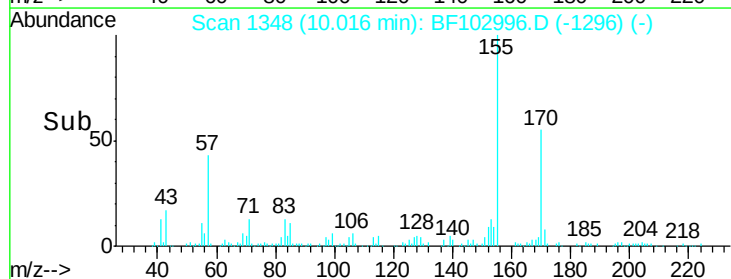
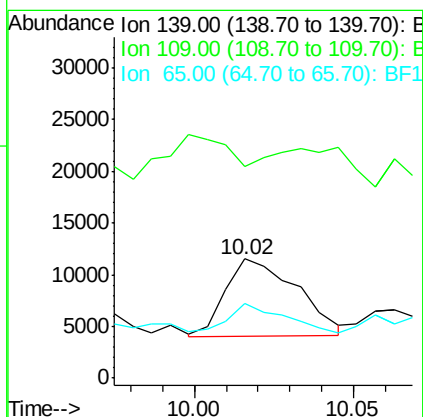
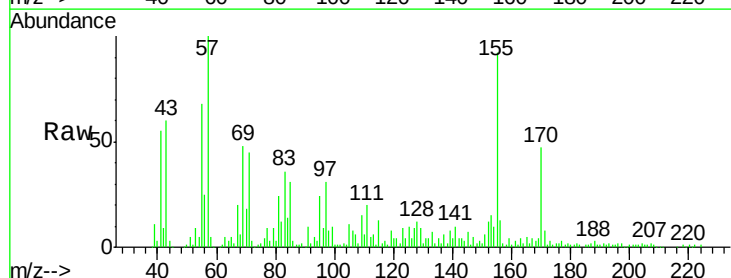
Tgt Ion:139 Resp: 11806

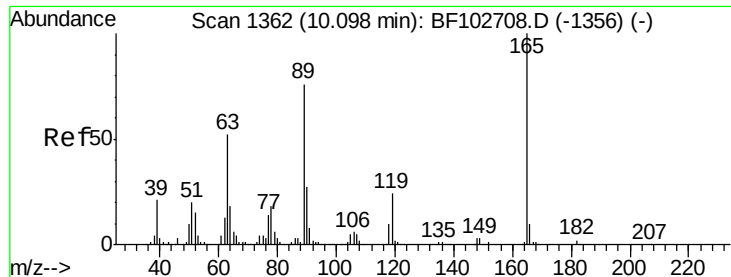
Ion Ratio Lower Upper

139 100

109 177.8 48.4 88.4#

65 62.5 72.6 112.6#





#56

2,4-Dinitrotoluene

Concen: 4.93 ng

RT: 10.12 min Scan# 1365

Delta R.T. 0.02 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:165 Resp: 7464

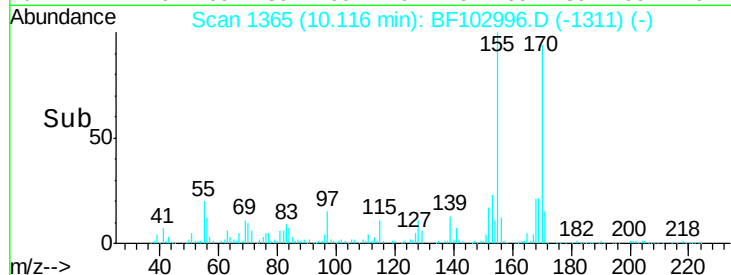
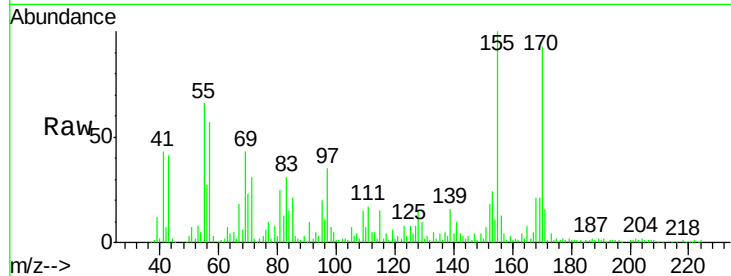
Ion Ratio Lower Upper

165 100

63 91.1 36.4 54.6#

89 36.4 57.8 86.6#

182 15.4 1.6 2.4#

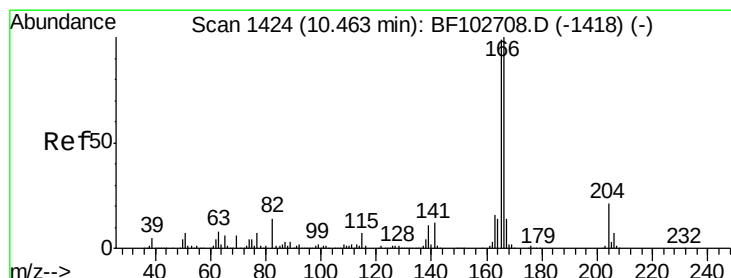
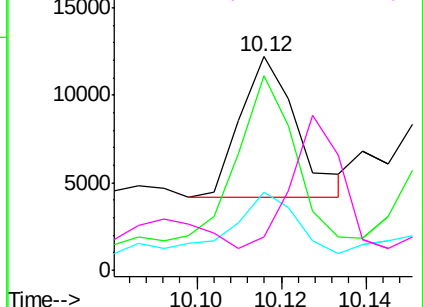


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#57

Fluorene

Concen: 4.50 ng

RT: 10.46 min Scan# 1424

Delta R.T. 0.00 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

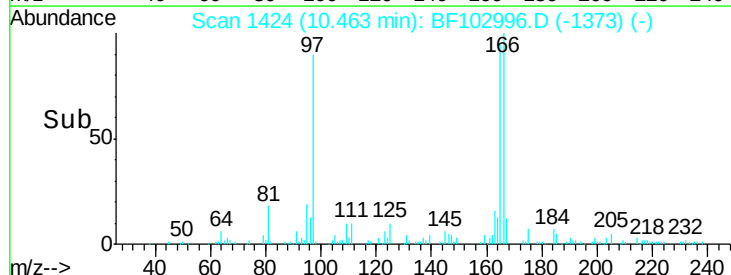
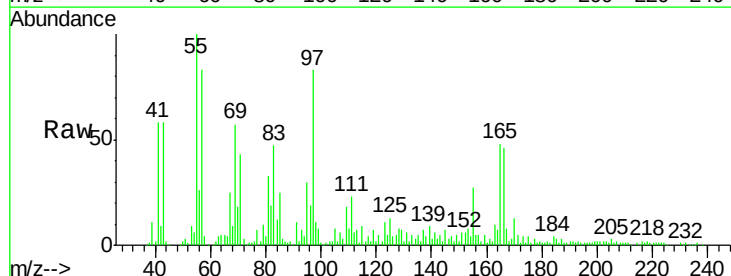
Tgt Ion:166 Resp: 53747

Ion Ratio Lower Upper

166 100

165 104.0 79.8 119.8

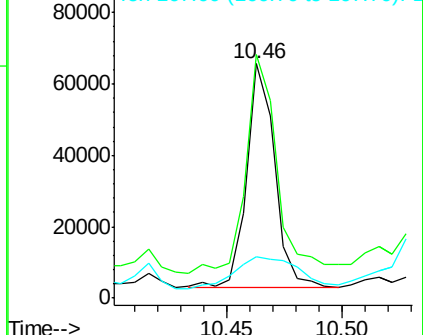
167 17.7 10.6 16.0#

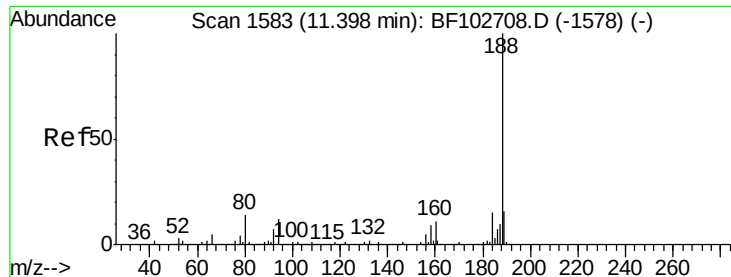


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

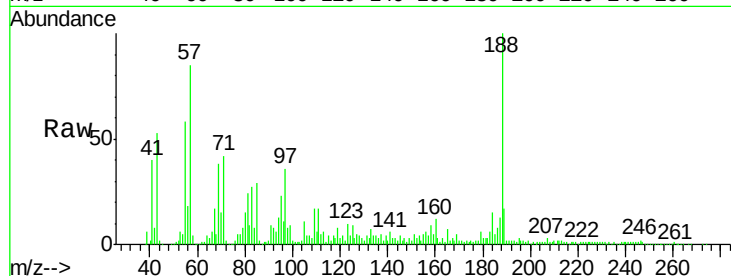




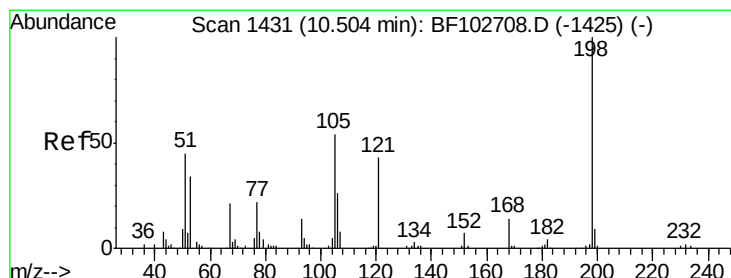
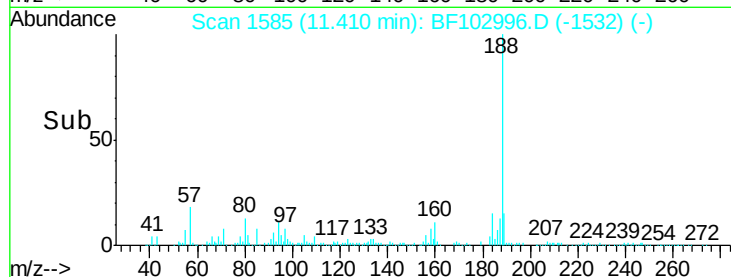
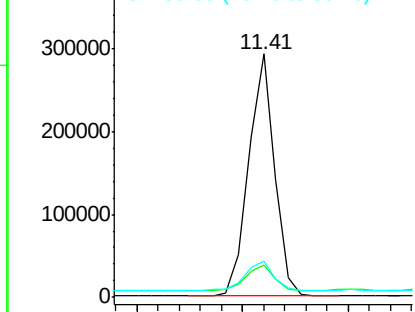
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.41 min Scan# 1585  
Delta R.T. 0.01 min  
Lab File: BF102996.D  
Acq: 14 Feb 2018 18:19

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 250060  
Ion Ratio Lower Upper  
188 100  
94 13.2 8.5 12.7#  
80 14.9 9.2 13.8#

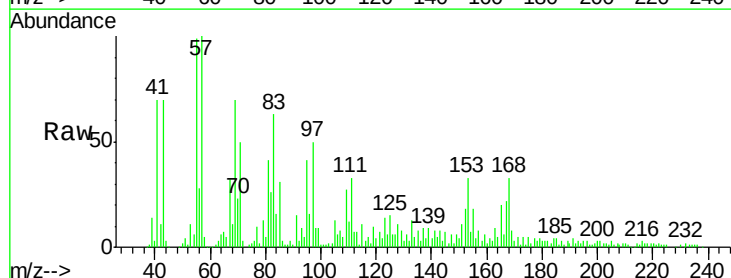


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

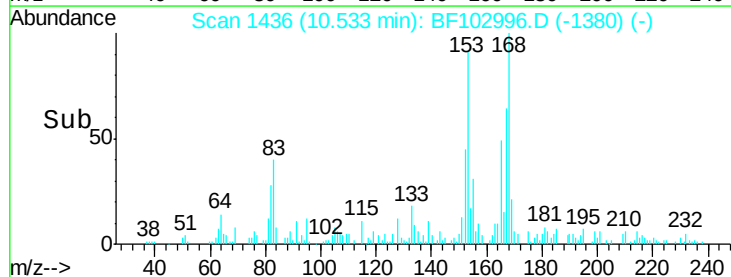
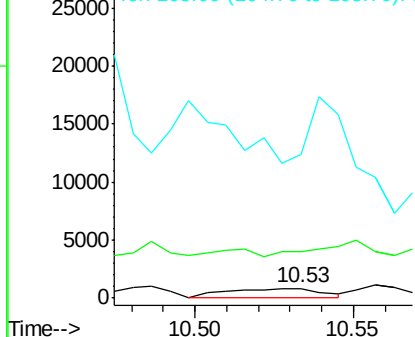


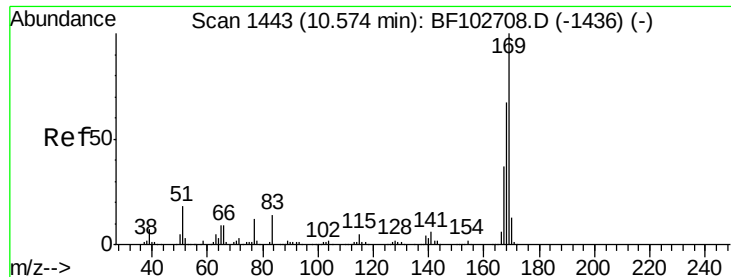
#64  
4,6-Dinitro-2-methylphenol  
Concen: 10.30 ng  
RT: 10.53 min Scan# 1436  
Delta R.T. 0.03 min  
Lab File: BF102996.D  
Acq: 14 Feb 2018 18:19

Tgt Ion:198 Resp: 1697  
Ion Ratio Lower Upper  
198 100  
51 474.1 37.7 77.7#  
105 1466.0 36.3 76.3#



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E





#65

n-Nitrosodiphenylamine

Concen: 9.29 ng

RT: 10.57 min Scan# 1443

Delta R.T. 0.00 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA\_F

ClientSampleId :

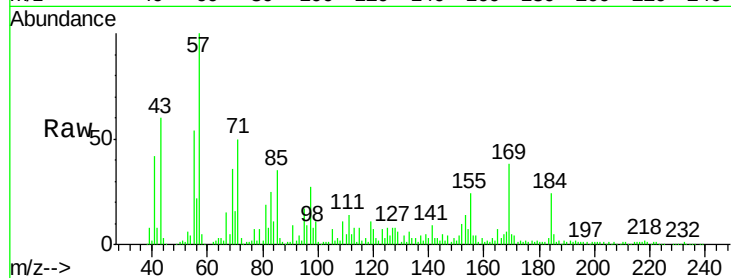
Tot Ion:169 Resp: 81974

Ion Ratio Lower Upper

169 100

168 14.5 54.4 81.6#

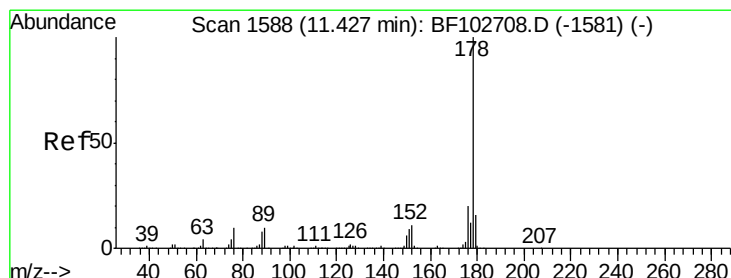
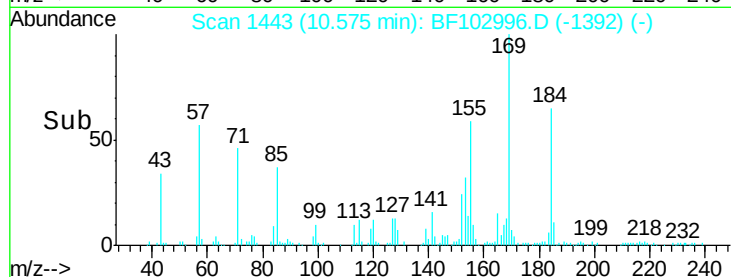
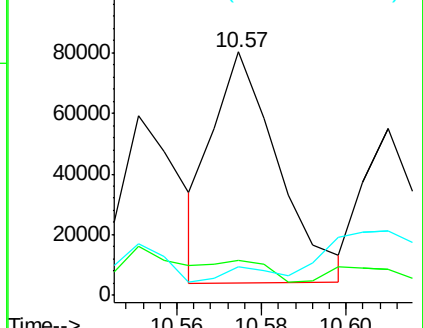
167 11.9 29.8 44.6#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#70

Phenanthrene

Concen: 27.72 ng

RT: 11.43 min Scan# 1589

Delta R.T. 0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

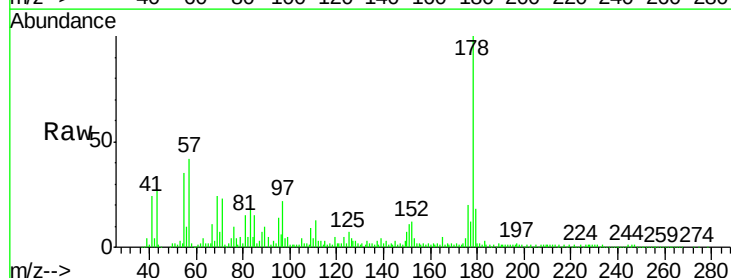
Tgt Ion:178 Resp: 386051

Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.8

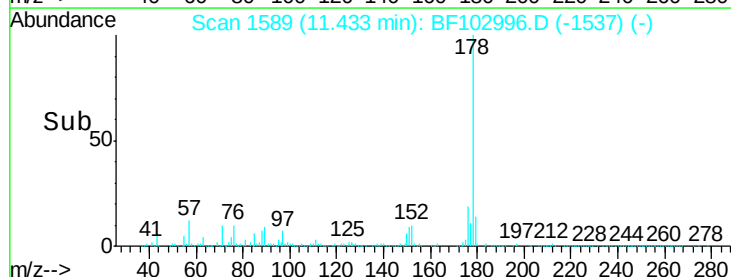
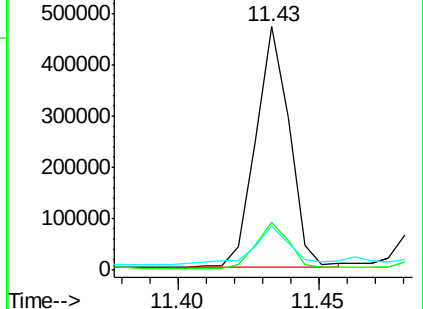
179 17.8 13.0 19.6

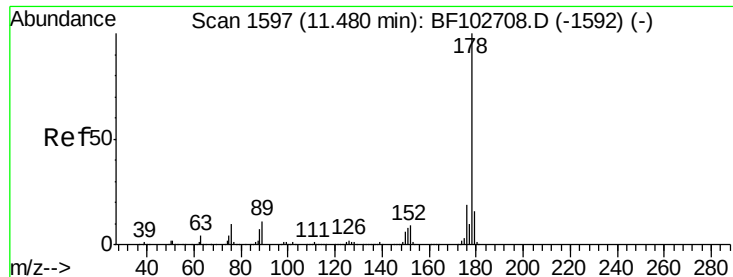


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 27.25 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.05 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA\_F

ClientSampleId :

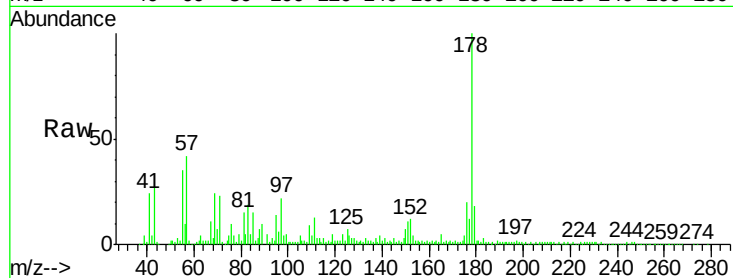
Tot Ion:178 Resp: 386051

Ion Ratio Lower Upper

178 100

176 19.7 15.4 23.2

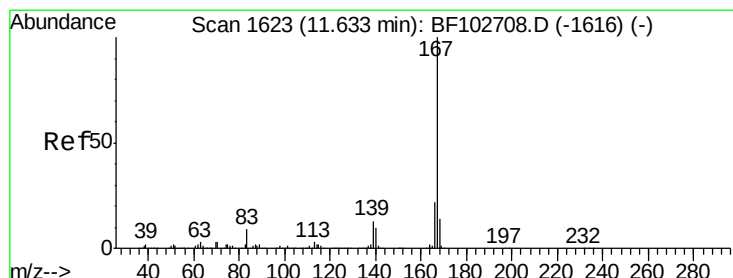
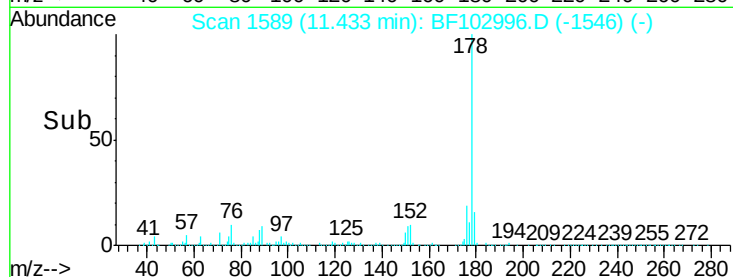
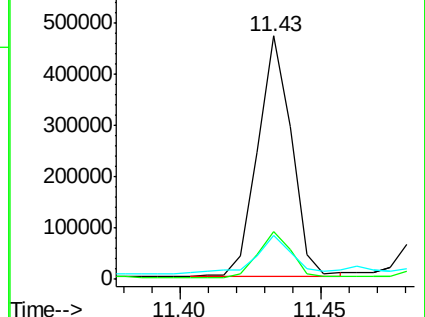
179 17.8 12.6 19.0



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: 2.80 ng

RT: 11.64 min Scan# 1624

Delta R.T. 0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

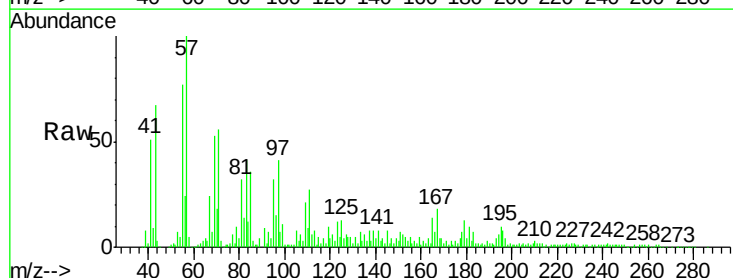
Tgt Ion:167 Resp: 38834

Ion Ratio Lower Upper

167 100

166 42.2 17.6 26.4#

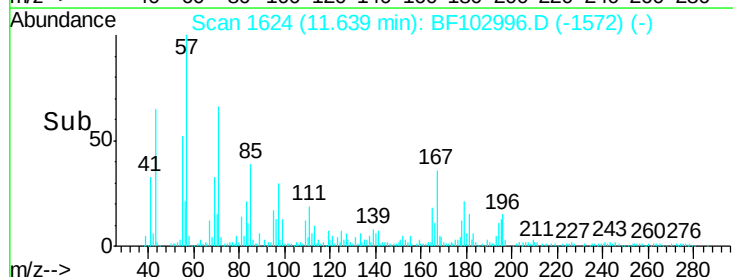
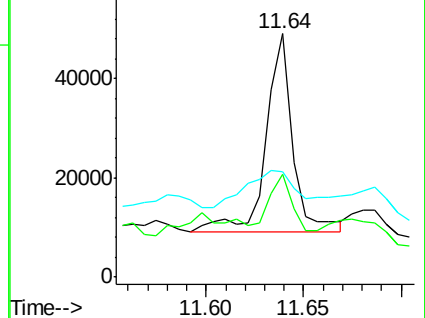
139 43.3 10.9 16.3#



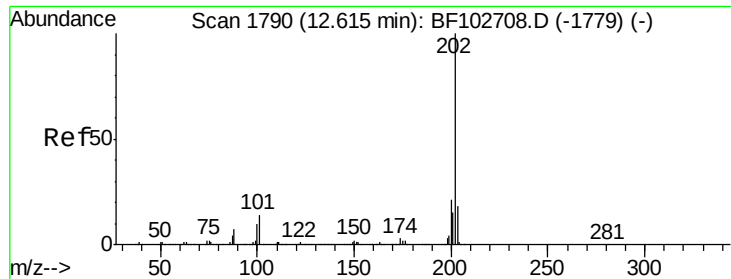
Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



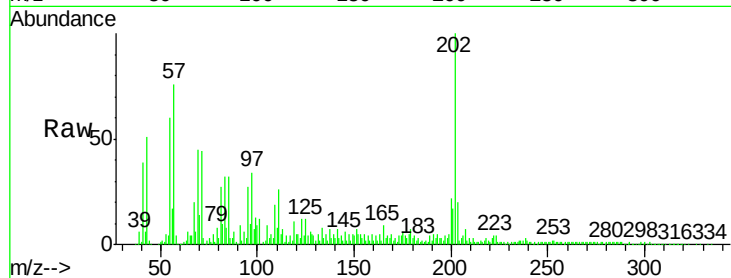




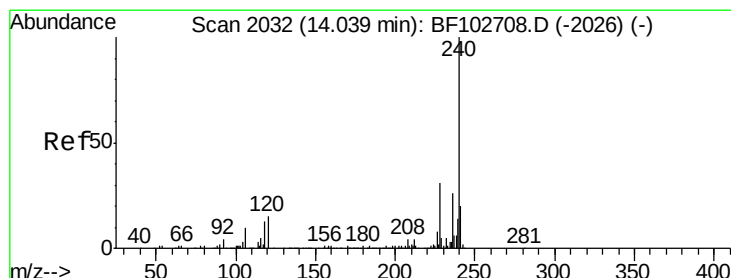
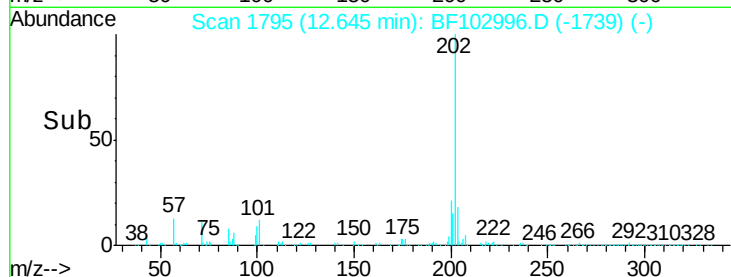
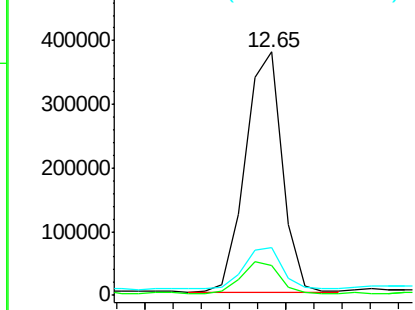
#74  
Fluoranthene  
Concen: 24.28 ng  
RT: 12.65 min Scan# 1795  
Delta R.T. 0.03 min  
Lab File: BF102996.D  
Acq: 14 Feb 2018 18:19

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.5  | 0.0   | 34.1  |
| 203     | 19.8  | 0.0   | 38.1  |

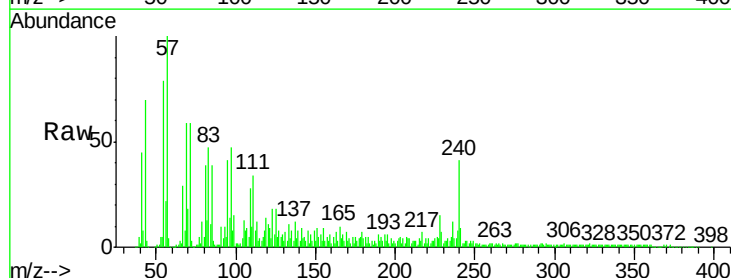


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E

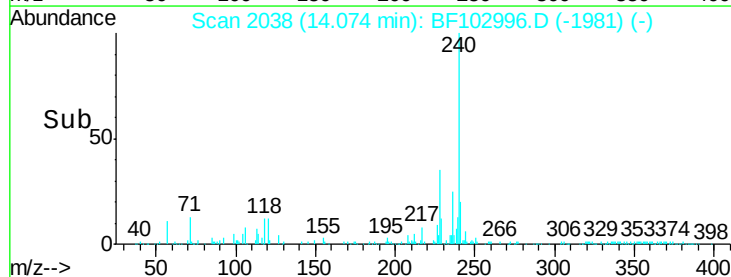
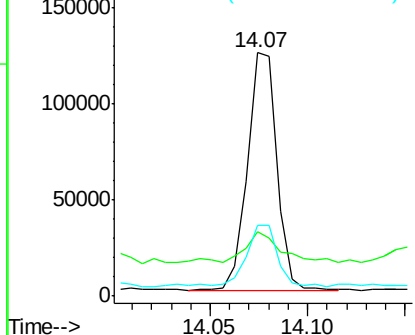


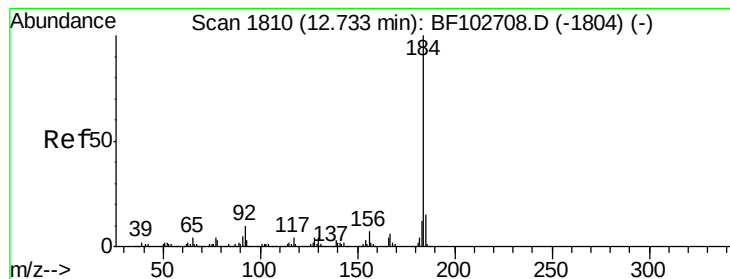
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.07 min Scan# 2038  
Delta R.T. 0.04 min  
Lab File: BF102996.D  
Acq: 14 Feb 2018 18:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 26.6  | 9.5   | 14.3# |
| 236     | 29.2  | 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





#76

Benzidine

Concen: 3.42 ng

RT: 12.77 min Scan# 1816

Delta R.T. 0.04 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA\_F

ClientSampleId :

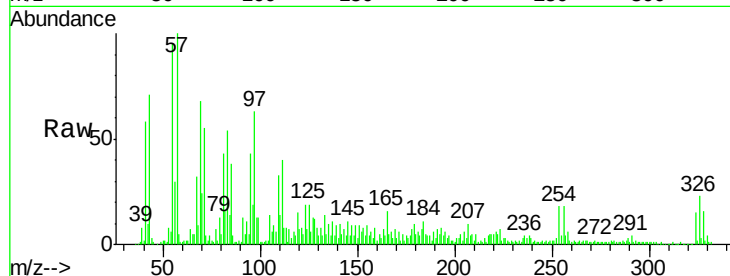
Tot Ion:184 Resp: 20295

Ion Ratio Lower Upper

184 100

185 43.5 12.6 18.8#

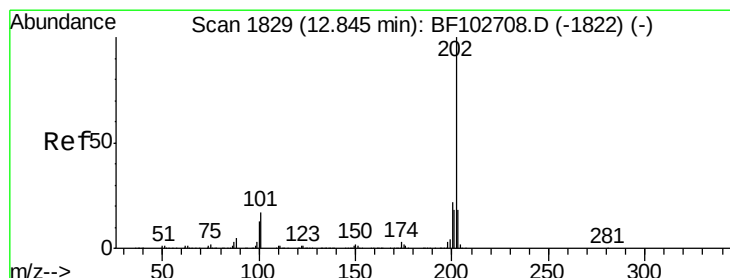
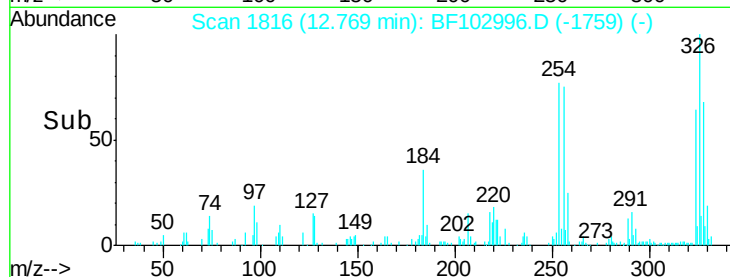
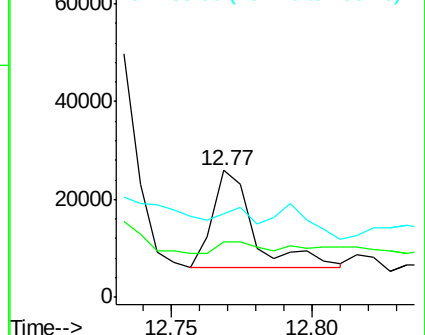
183 65.5 9.3 13.9#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 31.30 ng

RT: 12.87 min Scan# 1834

Delta R.T. 0.03 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

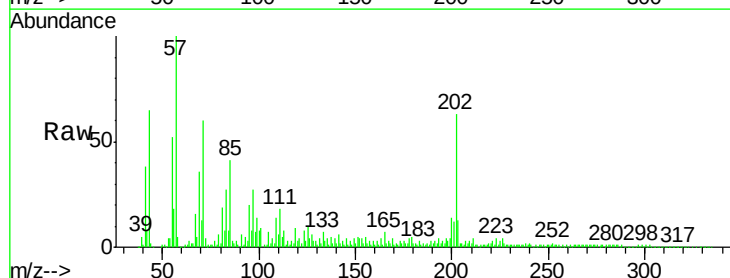
Tgt Ion:202 Resp: 316702

Ion Ratio Lower Upper

202 100

200 21.7 17.4 26.2

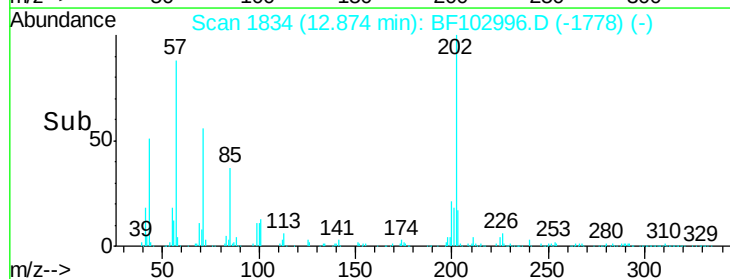
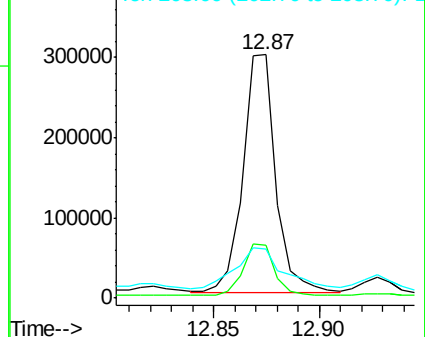
203 20.3 14.3 21.5

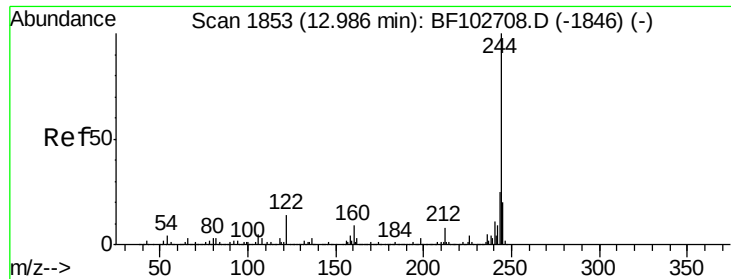


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 81.08 ng

RT: 13.01 min Scan# 1857

Delta R.T. 0.02 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA\_F

ClientSampled :

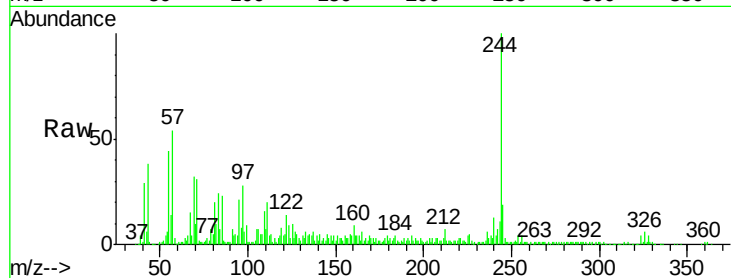
Tot Ion:244 Resp: 441882

Ion Ratio Lower Upper

244 100

212 7.3 5.4 8.0

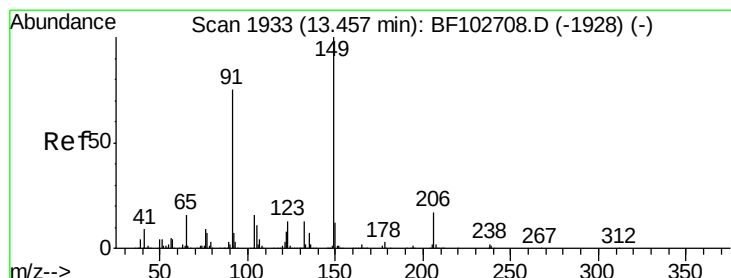
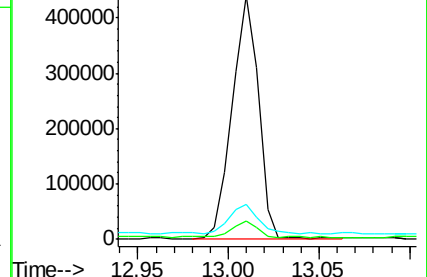
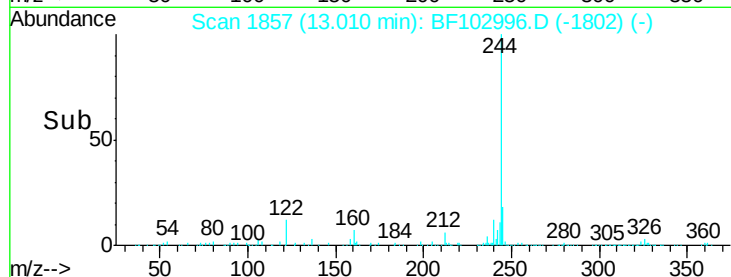
122 14.2 11.0 16.4



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



#79

Butylbenzylphthalate

Concen: 2.10 ng

RT: 13.46 min Scan# 1934

Delta R.T. 0.01 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

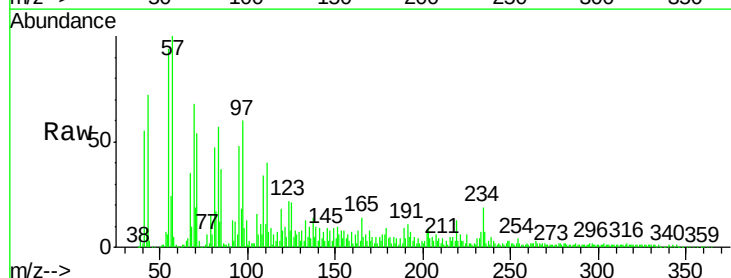
Tgt Ion:149 Resp: 5298

Ion Ratio Lower Upper

149 100

91 146.0 56.8 85.2#

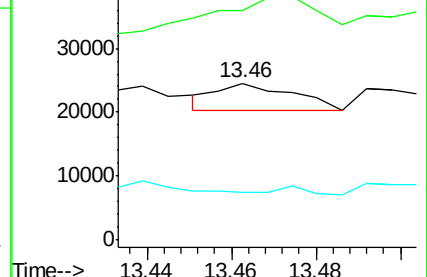
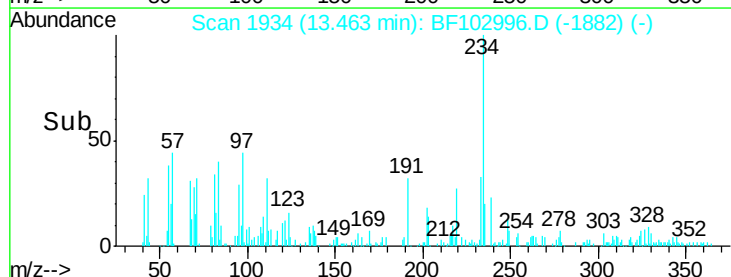
206 30.2 14.1 21.1#

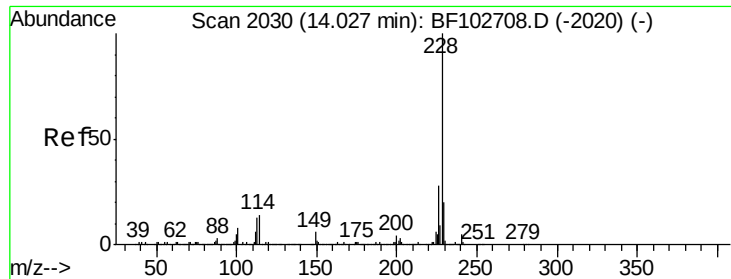


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E





#80

Benzo(a)anthracene

Concen: 12.70 ng

RT: 14.07 min Scan# 2037

Delta R.T. 0.04 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA\_F

ClientSampled :

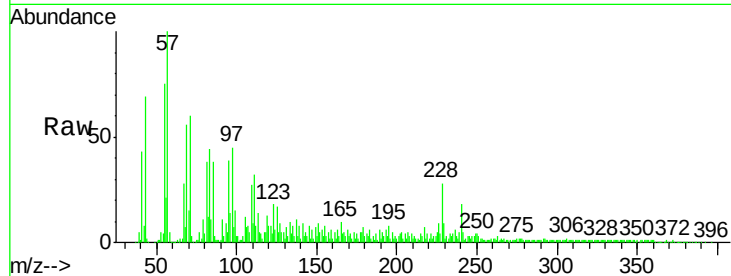
Tot Ion:228 Resp: 103057

Ion Ratio Lower Upper

228 100

226 32.9 22.6 33.8

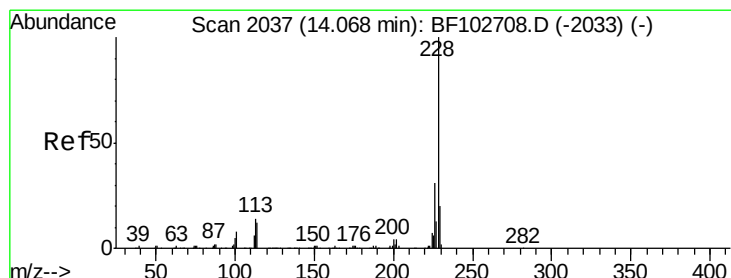
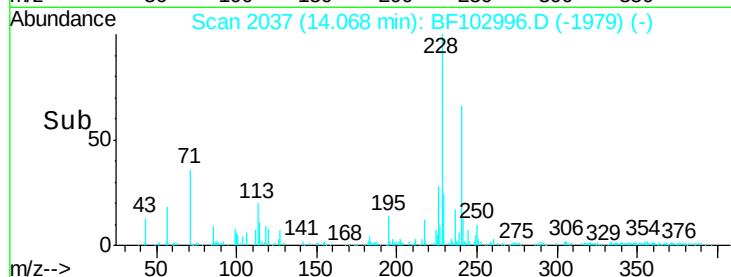
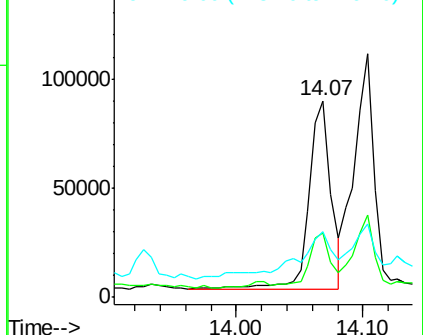
229 33.1 15.8 23.6#



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



#82

Chrysene

Concen: 14.76 ng

RT: 14.10 min Scan# 2043

Delta R.T. 0.04 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

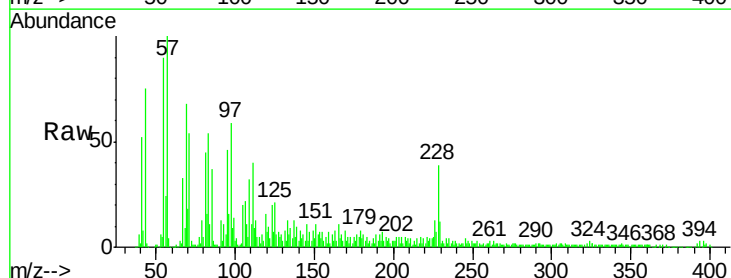
Tgt Ion:228 Resp: 120740

Ion Ratio Lower Upper

228 100

226 33.9 25.0 37.6

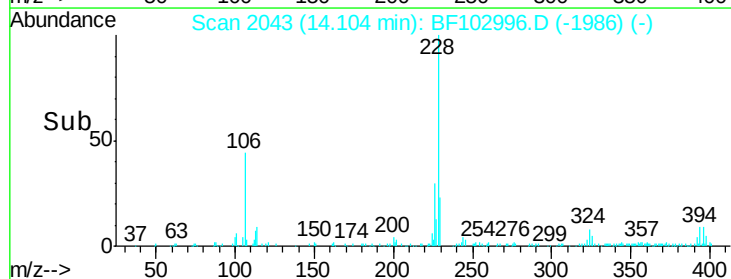
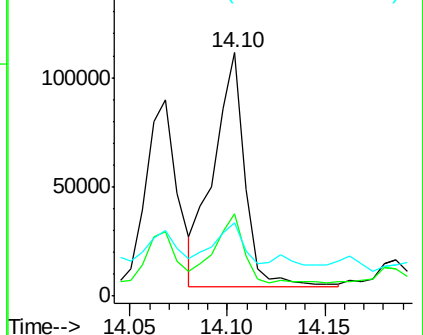
229 30.2 16.2 24.4#

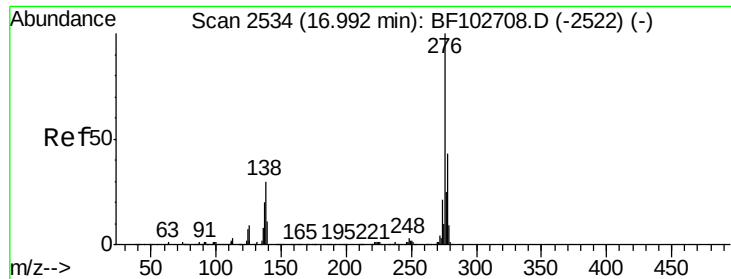


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

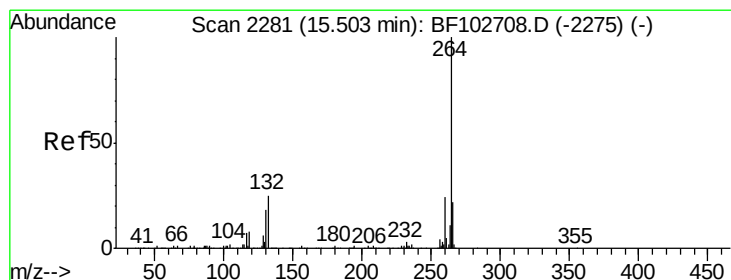
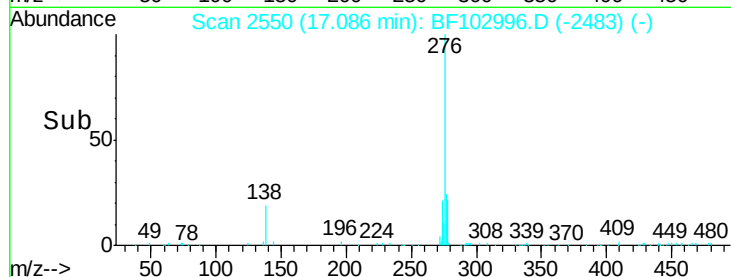
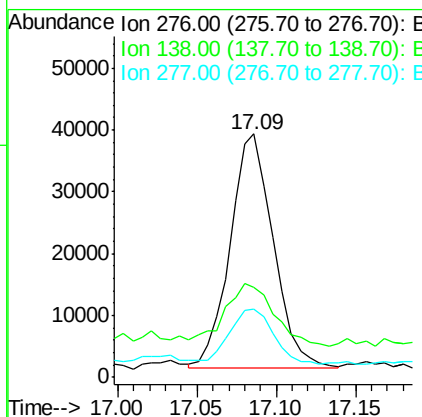
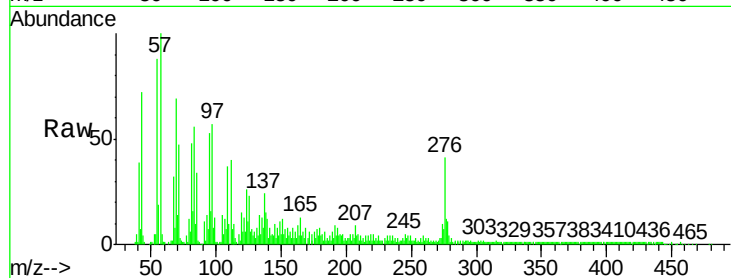




#85  
Indeno(1,2,3-cd)pyrene  
Concen: 10.53 ng  
RT: 17.09 min Scan# 2550  
Delta R.T. 0.09 min  
Lab File: BF102996.D  
Acq: 14 Feb 2018 18:19

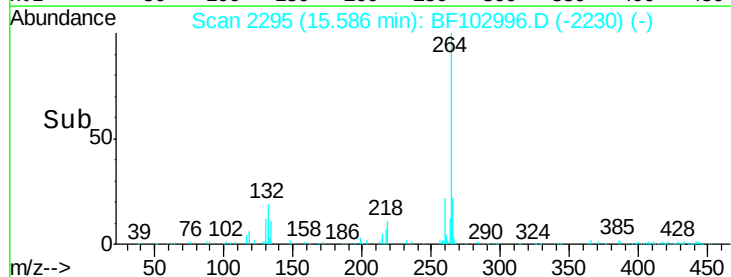
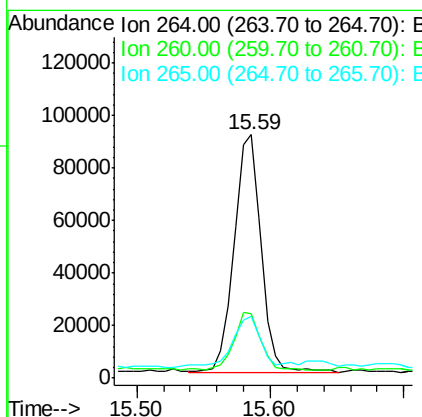
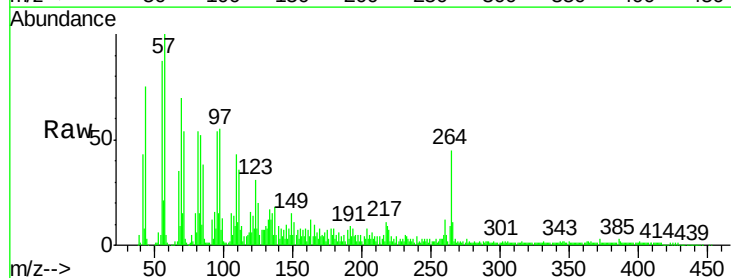
Instrument :  
BNA\_F  
ClientSampleId :

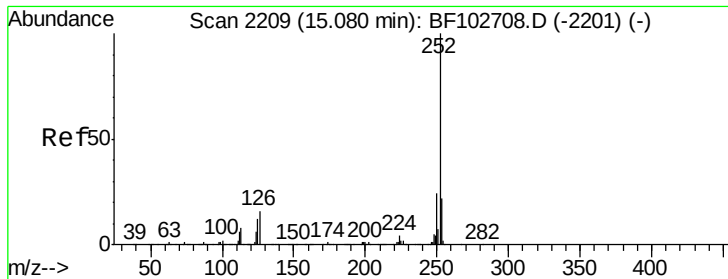
Tot Ion:276 Resp: 71461  
Ion Ratio Lower Upper  
276 100  
138 31.3 25.0 37.6  
277 25.6 20.1 30.1



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.59 min Scan# 2295  
Delta R.T. 0.08 min  
Lab File: BF102996.D  
Acq: 14 Feb 2018 18:19

Tgt Ion:264 Resp: 126559  
Ion Ratio Lower Upper  
264 100  
260 26.3 19.2 28.8  
265 25.4 17.5 26.3





#87

Benzo(b)fluoranthene

Concen: 21.01 ng

RT: 15.14 min Scan# 2219

Delta R.T. 0.06 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA\_F

ClientSampleId :

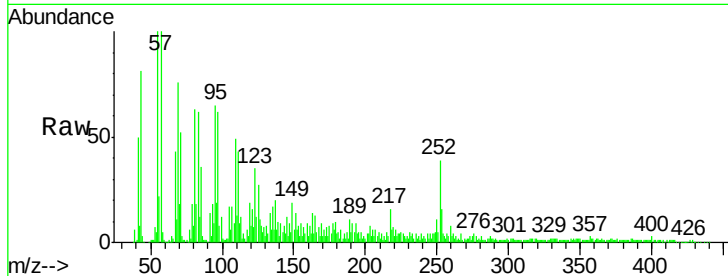
Tot Ion:252 Resp: 172358

Ion Ratio Lower Upper

252 100

253 40.0 17.0 25.6#

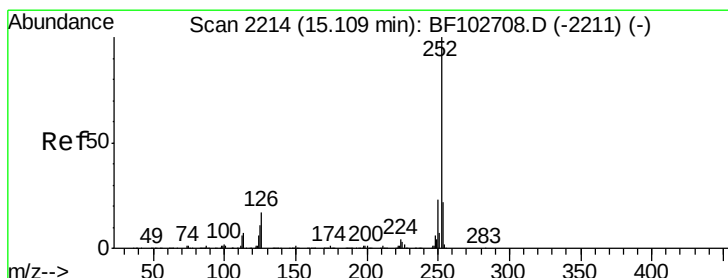
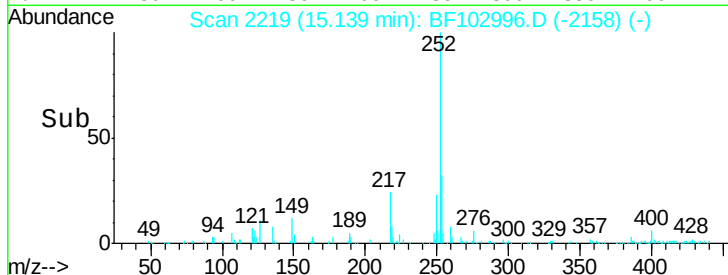
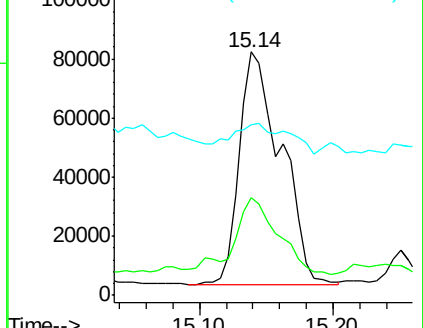
125 70.3 9.0 13.6#



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: 21.98 ng

RT: 15.14 min Scan# 2219

Delta R.T. 0.03 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

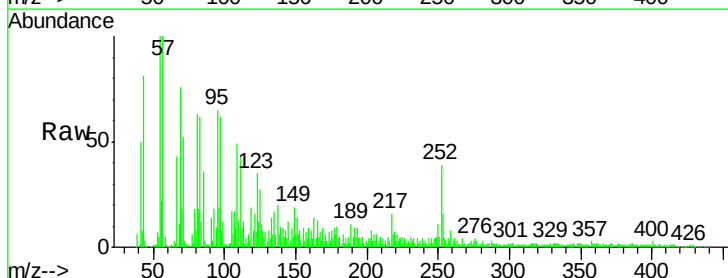
Tgt Ion:252 Resp: 172358

Ion Ratio Lower Upper

252 100

253 40.0 17.9 26.9#

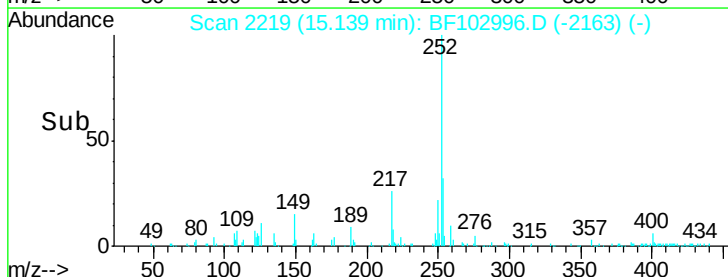
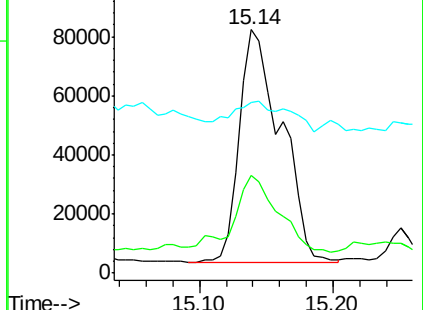
125 70.3 10.2 15.2#

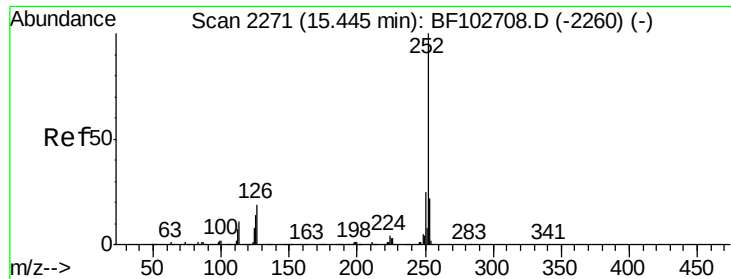


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 11.77 ng

RT: 15.52 min Scan# 2283

Delta R.T. 0.07 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA\_F

ClientSampled :

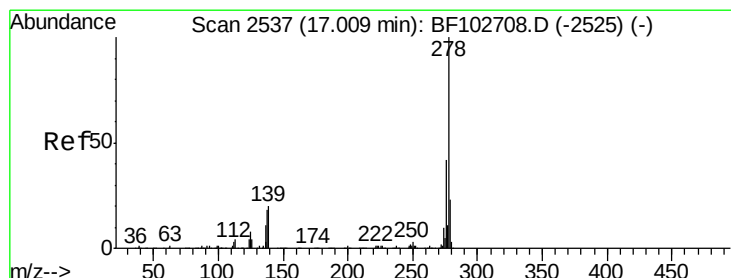
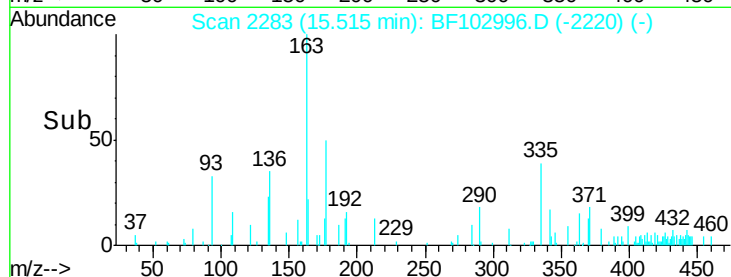
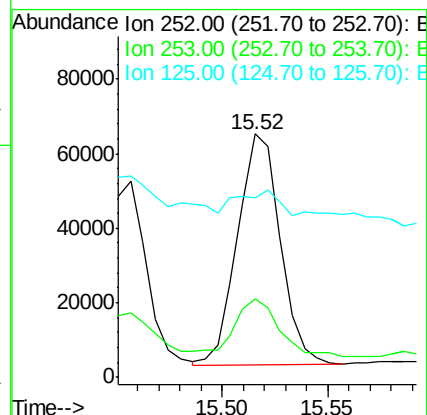
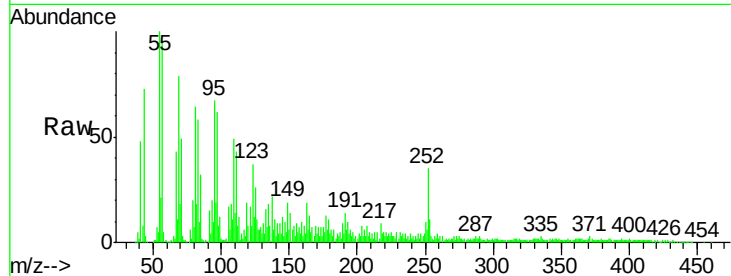
Tot Ion:252 Resp: 86945

Ion Ratio Lower Upper

252 100

253 32.0 17.1 25.7#

125 73.8 9.8 14.6#



#90

Dibenzo(a,h)anthracene

Concen: 3.00 ng

RT: 17.09 min Scan# 2550

Delta R.T. 0.08 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

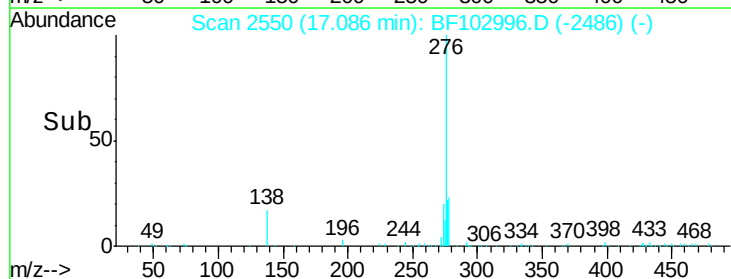
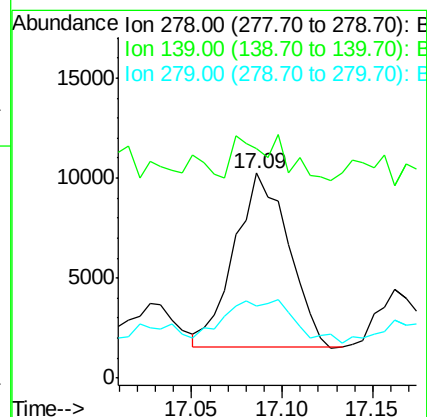
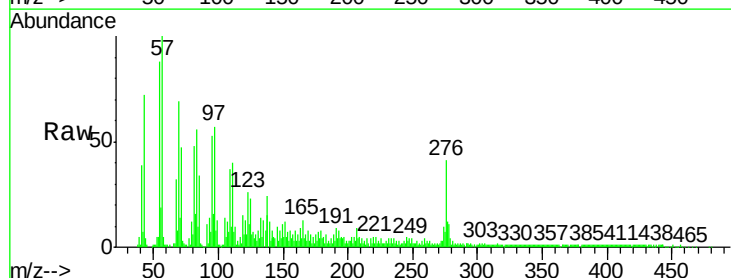
Tgt Ion:278 Resp: 17999

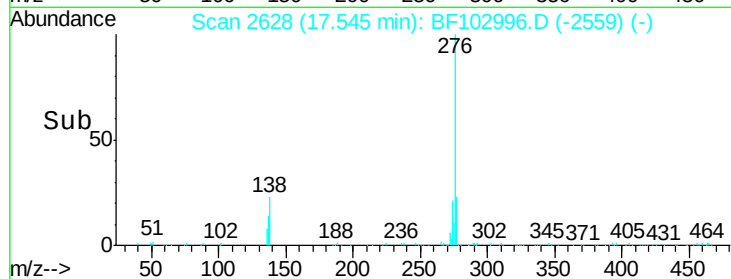
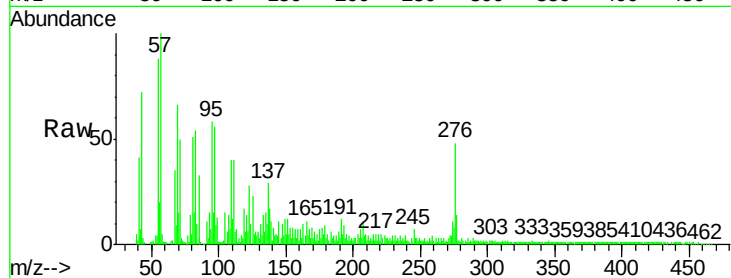
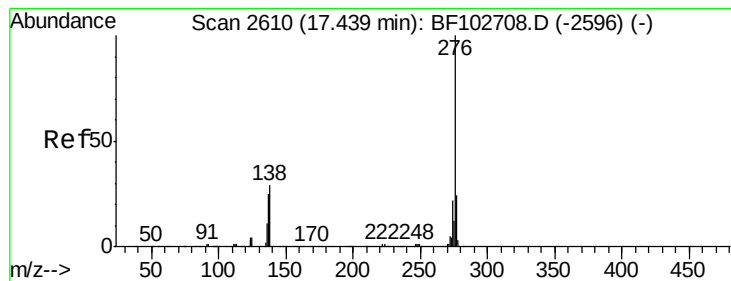
Ion Ratio Lower Upper

278 100

139 112.2 15.9 23.9#

279 35.0 19.0 28.4#





#91

Benzo(a,h,i)perylene

Concen: 12.40 ng

RT: 17.54 min Scan# 2628

Delta R.T. 0.11 min

Lab File: BF102996.D

Acq: 14 Feb 2018 18:19

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 276 Resp: 72741

Ion Ratio Lower Upper

276 100

277 28.5 17.9 26.9#

138 36.7 21.8 32.8#

