

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF112018\  
 Data File : BF110912.D  
 Acq On : 21 Nov 2018 00:46  
 Operator : JU/SJ  
 Sample : J5981-04DL 100X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DTW-02(11-13)MSDDL

Quant Time: Nov 21 04:19:44 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 13 12:43:10 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.95  | 152  | 50686    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.22  | 136  | 220830   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.99  | 164  | 92628    | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.48 | 188  | 143482   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.13 | 240  | 123947   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.67 | 264  | 88015    | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 5) 2-Fluorophenol           | 5.62  | 112  | 1281     | 0.41 | ng    | 0.05     |
| 7) Phenol-d6                | 6.61  | 99   | 4912     | 1.23 | ng    | 0.04     |
| 23) Nitrobenzene-d5         | 7.53  | 82   | 3467     | 0.90 | ng    | 0.02     |
| 42) 2,4,6-Tribromophenol    | 10.80 | 330  | 848      | 0.91 | ng    | 0.01     |
| 45) 2-Fluorobiphenyl        | 9.30  | 172  | 7051     | 1.09 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.06 | 244  | 6587     | 1.00 | ng    | 0.00     |

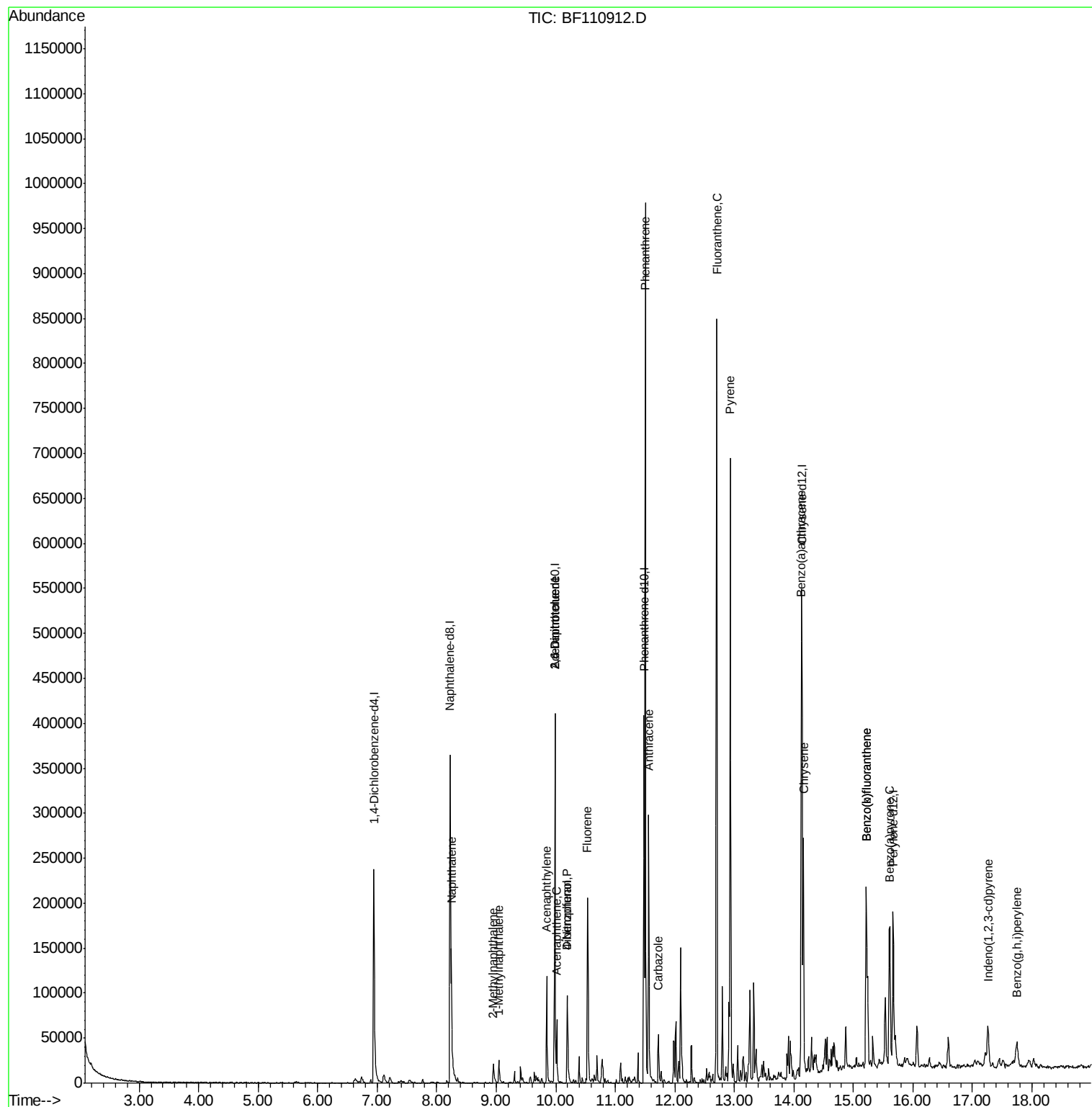
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|----------------------------|-------|------|----------|--------|-------|--------|
| 31) Naphthalene            | 8.25  | 128  | 67884    | 6.548  | ng    | 99     |
| 37) 2-Methylnaphthalene    | 8.95  | 142  | 13780    | 2.028  | ng    | 99     |
| 38) 1-Methylnaphthalene    | 9.05  | 142  | 13569    | 2.076  | ng    | 99     |
| 49) Acenaphthylene         | 9.85  | 152  | 59719    | 6.661  | ng    | 100    |
| 51) 2,6-Dinitrotoluene     | 9.99  | 165  | 11978    | 7.878  | ng    | # 21   |
| 52) Acenaphthene           | 10.02 | 154  | 15098    | 2.665  | ng    | 97     |
| 55) Dibenzofuran           | 10.19 | 168  | 50478    | 6.090  | ng    | 98     |
| 56) 4-Nitrophenol          | 10.19 | 139  | 19893    | 17.023 | ng    | # 6    |
| 57) 2,4-Dinitrotoluene     | 9.99  | 165  | 11978    | 6.059  | ng    | # 17   |
| 58) Fluorene               | 10.54 | 166  | 74181    | 11.651 | ng    | 99     |
| 71) Phenanthrene           | 11.50 | 178  | 368672   | 47.960 | ng    | 99     |
| 72) Anthracene             | 11.56 | 178  | 145779   | 18.800 | ng    | 99     |
| 73) Carbazole              | 11.72 | 167  | 25178    | 3.381  | ng    | 100    |
| 75) Fluoranthene           | 12.70 | 202  | 363015   | 47.103 | ng    | 98     |
| 78) Pyrene                 | 12.93 | 202  | 274941   | 28.809 | ng    | 98     |
| 81) Benzo(a)anthracene     | 14.12 | 228  | 133895   | 18.073 | ng    | 98     |
| 83) Chrysene               | 14.16 | 228  | 106555   | 15.097 | ng    | 97     |
| 86) Indeno(1,2,3-cd)pyrene | 17.26 | 276  | 32811    | 6.478  | ng    | 100    |
| 88) Benzo(b)fluoranthene   | 15.21 | 252  | 135373   | 25.710 | ng    | 97     |
| 89) Benzo(k)fluoranthene   | 15.21 | 252  | 135373   | 26.019 | ng    | # 97   |
| 90) Benzo(a)pyrene         | 15.60 | 252  | 68969    | 14.417 | ng    | 100    |
| 92) Benzo(g,h,i)perylene   | 17.74 | 276  | 26706    | 6.649  | ng    | 95     |

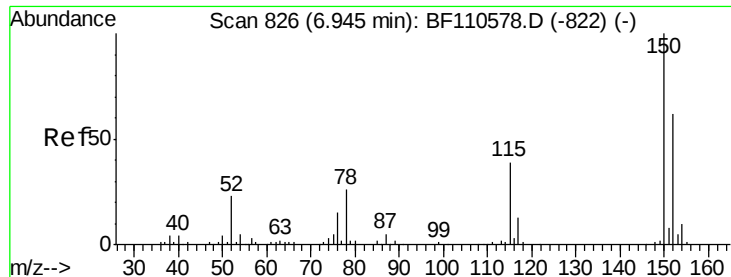
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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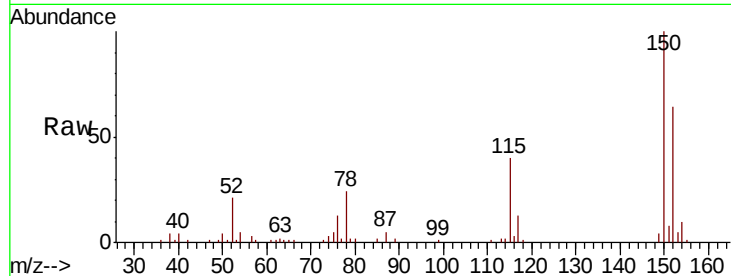




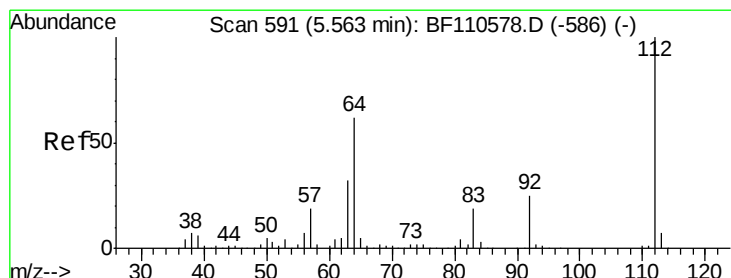
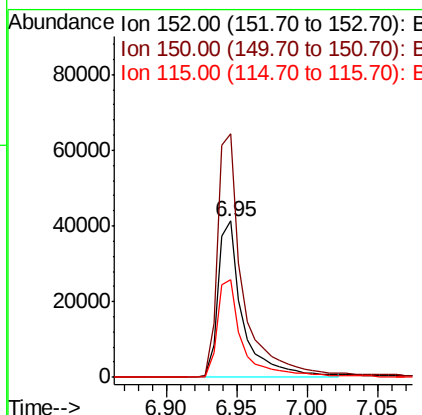
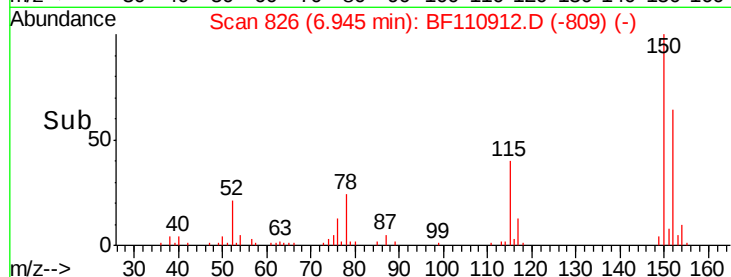
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.95 min Scan# 826  
 Delta R.T. 0.00 min  
 Lab File: BF110912.D  
 Acq: 21 Nov 2018 00:46

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DTW-02(11-13)MSDDL

Tgt Ion:152 Resp: 50686  
 Ion Ratio Lower Upper  
 152 100  
 150 155.8 122.7 184.1  
 115 62.5 49.1 73.7

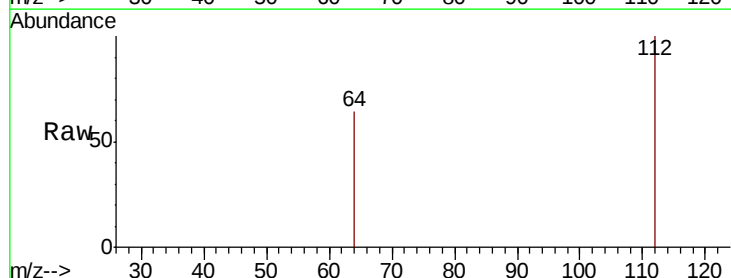


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

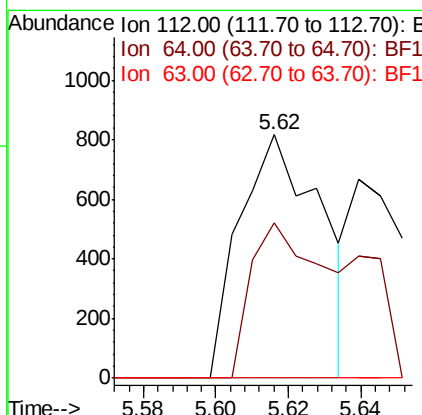
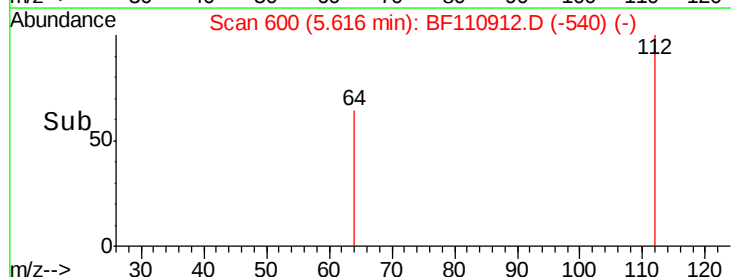


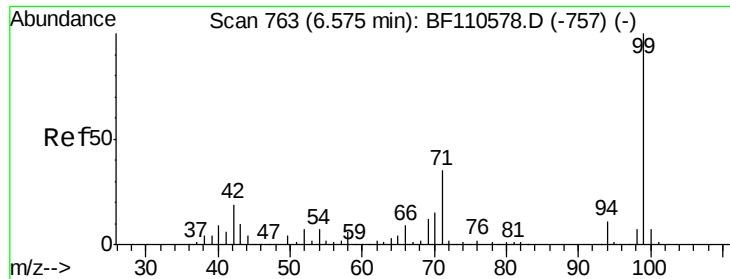
#5  
 2-Fluorophenol  
 Concen: 0.411 ng  
 RT: 5.62 min Scan# 600  
 Delta R.T. 0.05 min  
 Lab File: BF110912.D  
 Acq: 21 Nov 2018 00:46

Tgt Ion:112 Resp: 1281  
 Ion Ratio Lower Upper  
 112 100  
 64 63.6 44.1 66.1  
 63 0.0 23.7 35.5#



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BF1  
 Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 1.231 ng

RT: 6.61 min Scan# 769

Delta R.T. 0.04 min

Lab File: BF110912.D

Acq: 21 Nov 2018 00:46

Instrument :

BNA\_F

ClientSampleId :

DTW-02(11-13)MSDDL

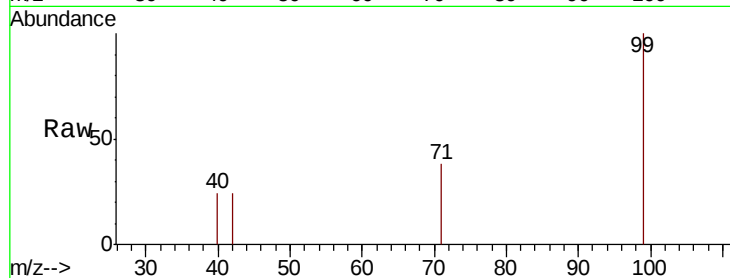
Tgt Ion: 99 Resp: 4912

Ion Ratio Lower Upper

99 100

42 24.1 15.8 23.6#

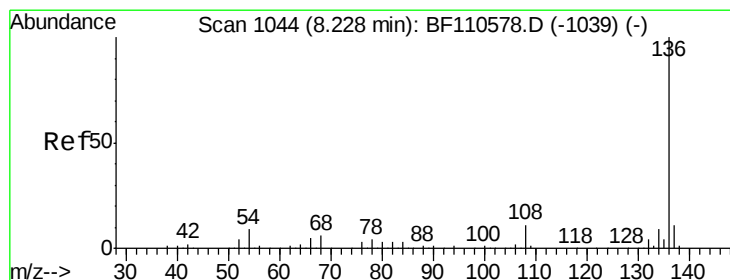
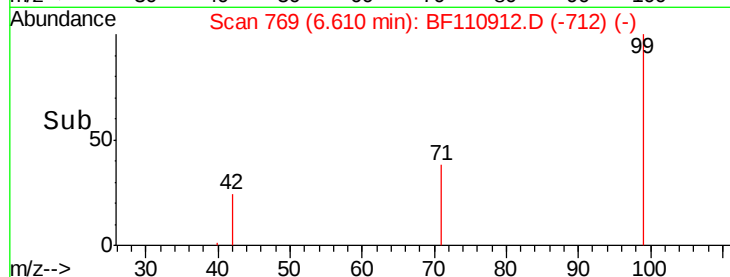
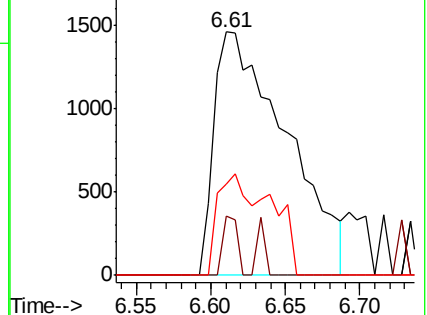
71 37.6 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.22 min Scan# 1043

Delta R.T. -0.01 min

Lab File: BF110912.D

Acq: 21 Nov 2018 00:46

Tgt Ion: 136 Resp: 220830

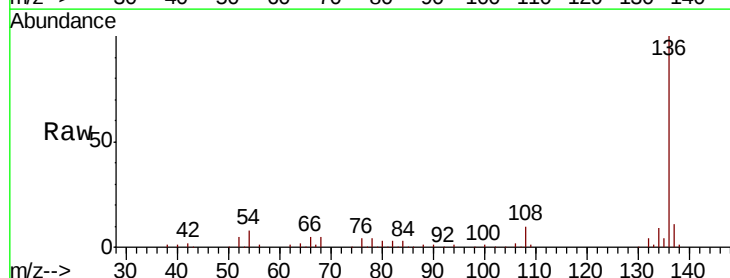
Ion Ratio Lower Upper

136 100

137 11.4 8.8 13.2

54 8.3 5.4 8.2#

68 5.3 4.2 6.2

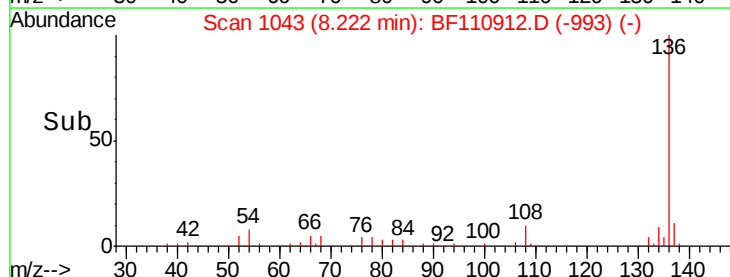
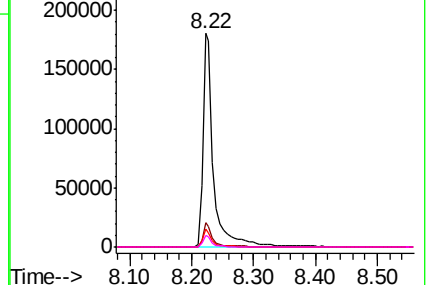


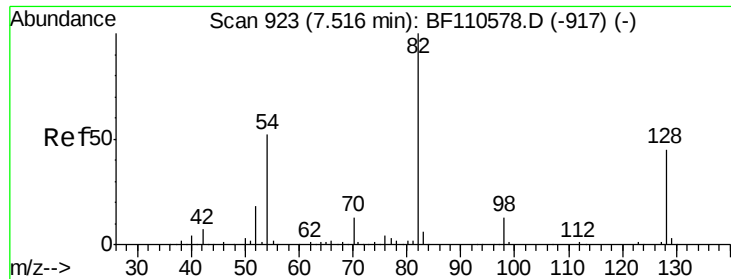
Abundance Ion 136.00 (135.70 to 136.70): E

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

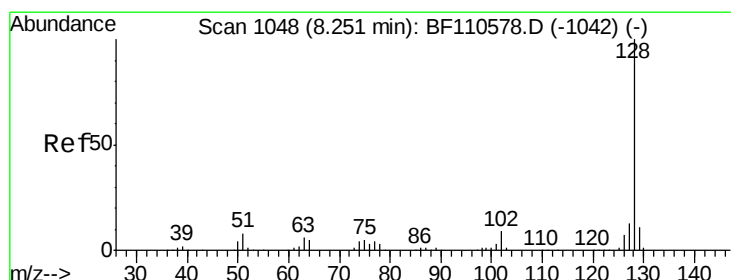
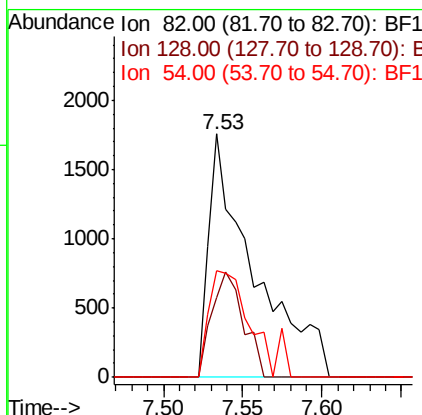
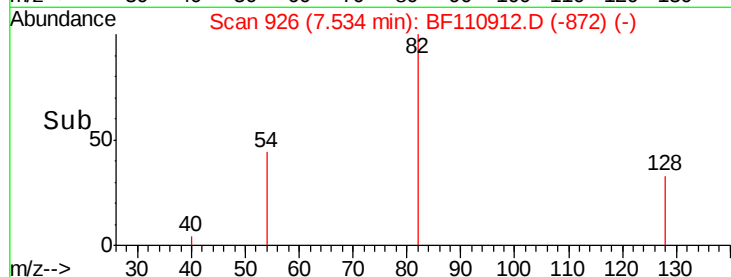
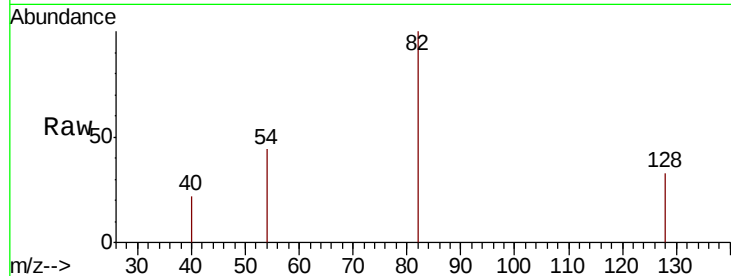




#23  
 Nitrobenzene-d5  
 Concen: 0.904 ng  
 RT: 7.53 min Scan# 926  
 Delta R.T. 0.02 min  
 Lab File: BF110912.D  
 Acq: 21 Nov 2018 00:46

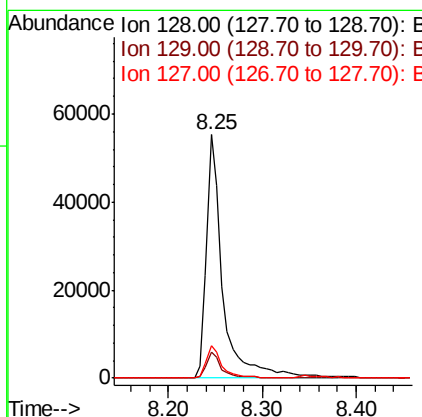
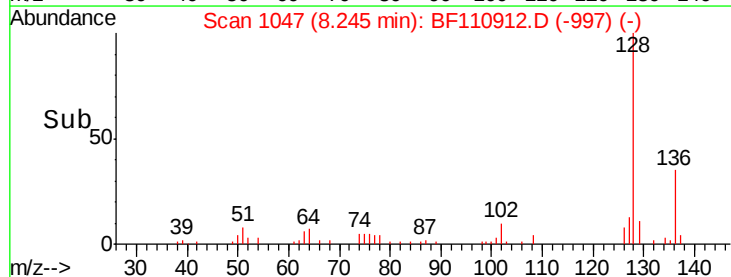
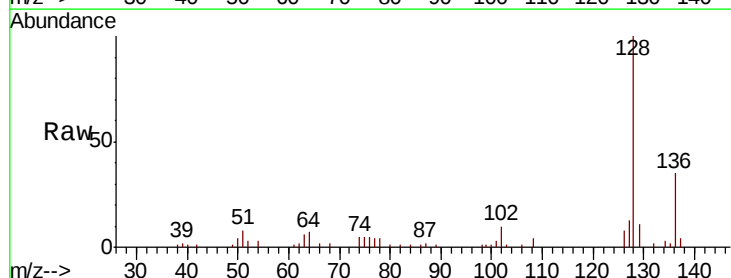
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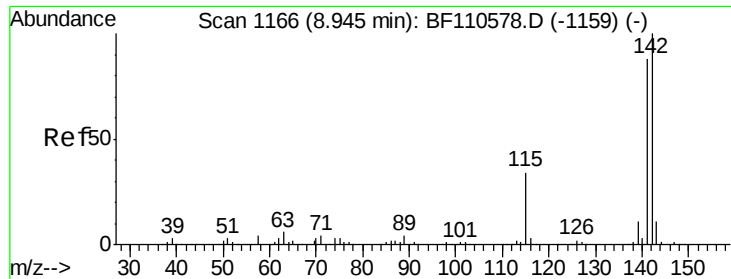
Tgt Ion: 82 Resp: 3467  
 Ion Ratio Lower Upper  
 82 100  
 128 32.6 34.2 51.2#  
 54 44.0 38.6 58.0



#31  
 Naphthalene  
 Concen: 6.548 ng  
 RT: 8.25 min Scan# 1047  
 Delta R.T. -0.01 min  
 Lab File: BF110912.D  
 Acq: 21 Nov 2018 00:46

Tgt Ion: 128 Resp: 67884  
 Ion Ratio Lower Upper  
 128 100  
 129 10.6 8.8 13.2  
 127 13.4 10.8 16.2

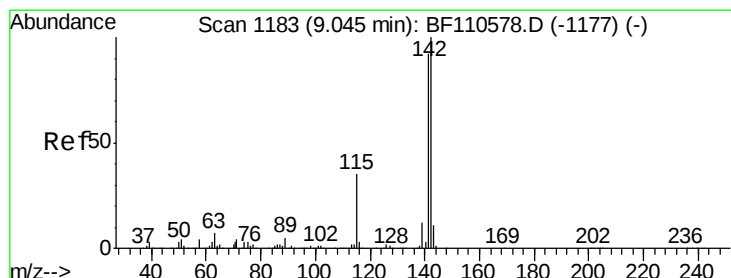
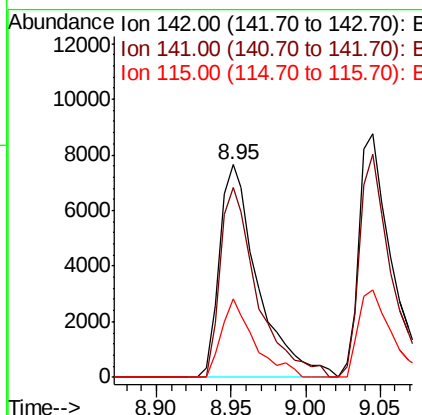
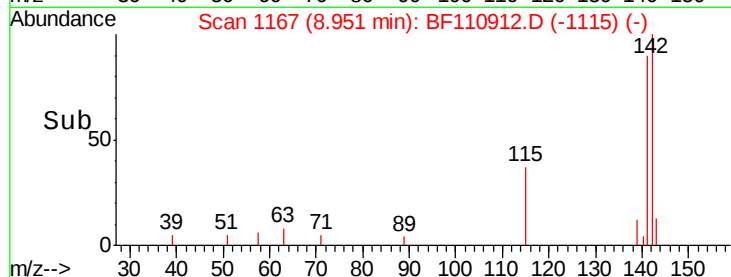
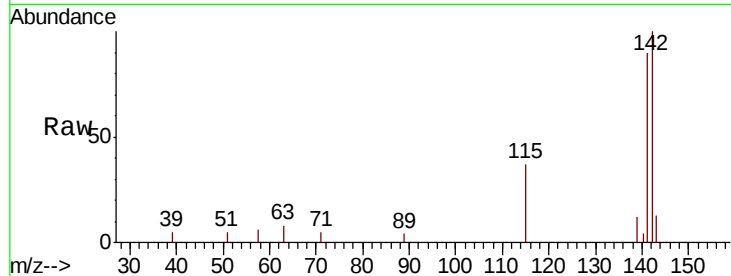




#37  
 2-Methylnaphthalene  
 Concen: 2.028 ng  
 RT: 8.95 min Scan# 1167  
 Delta R.T. 0.01 min  
 Lab File: BF110912.D  
 Acq: 21 Nov 2018 00:46

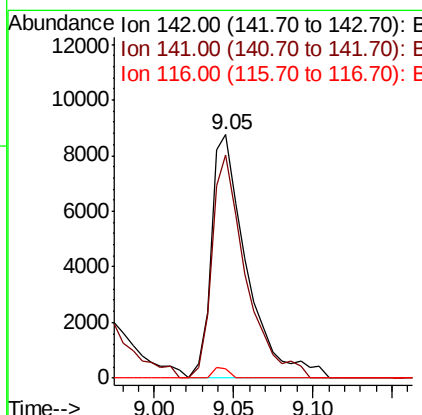
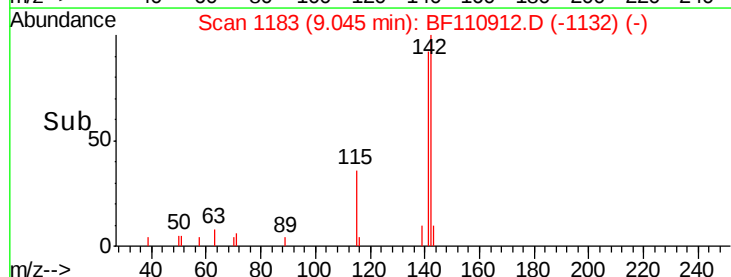
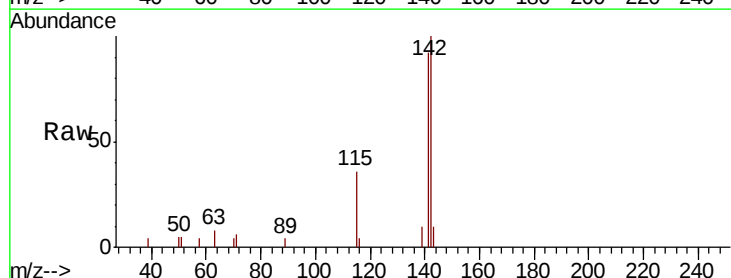
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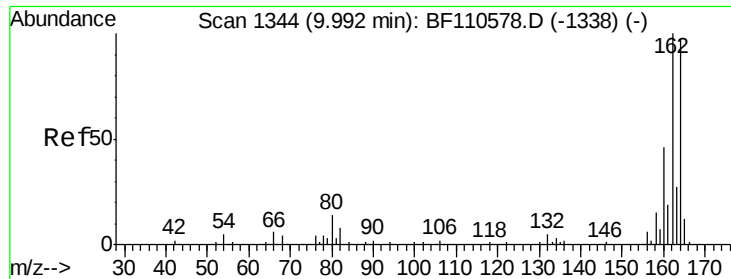
Tgt Ion:142 Resp: 13780  
 Ion Ratio Lower Upper  
 142 100  
 141 89.5 71.4 107.2  
 115 36.8 28.7 43.1



#38  
 1-Methylnaphthalene  
 Concen: 2.076 ng  
 RT: 9.05 min Scan# 1183  
 Delta R.T. 0.00 min  
 Lab File: BF110912.D  
 Acq: 21 Nov 2018 00:46

Tgt Ion:142 Resp: 13569  
 Ion Ratio Lower Upper  
 142 100  
 141 91.8 74.2 111.4  
 116 3.9 2.6 4.0

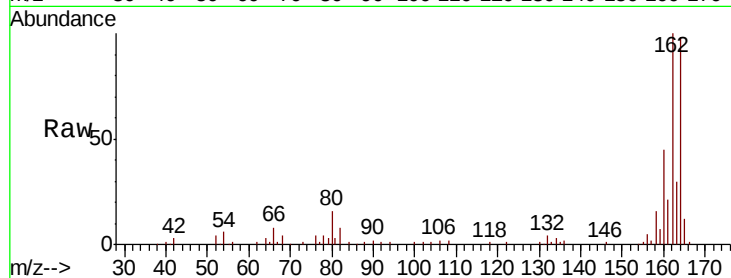




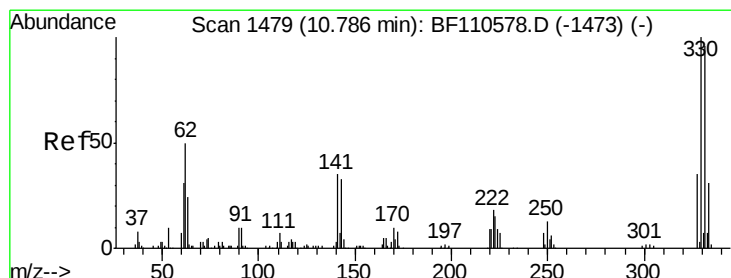
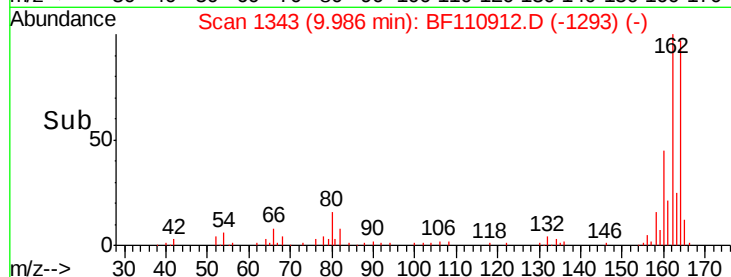
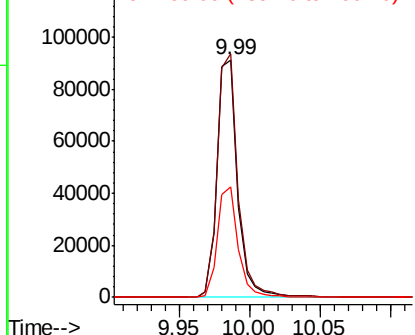
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.99 min Scan# 1343  
 Delta R.T. -0.01 min  
 Lab File: BF110912.D  
 Acq: 21 Nov 2018 00:46

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DTW-02(11-13)MSDDL

Tgt Ion:164 Resp: 92628  
 Ion Ratio Lower Upper  
 164 100  
 162 102.5 83.0 124.6  
 160 46.5 37.0 55.6

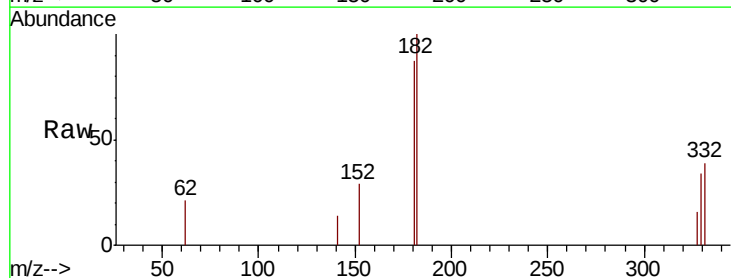


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

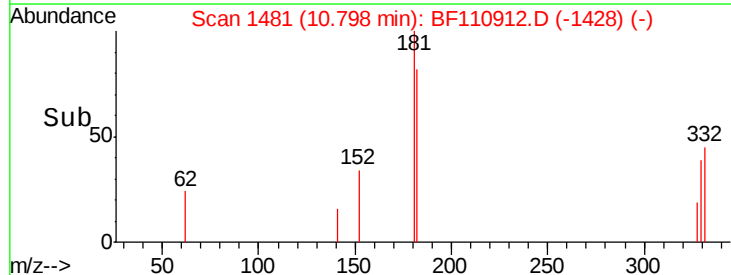
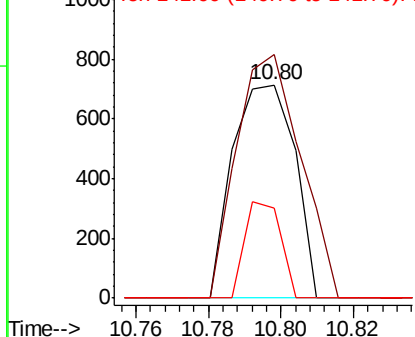


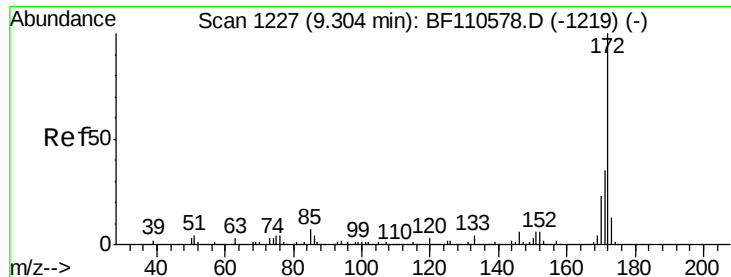
#42  
 2,4,6-Tribromophenol  
 Concen: 0.909 ng  
 RT: 10.80 min Scan# 1481  
 Delta R.T. 0.01 min  
 Lab File: BF110912.D  
 Acq: 21 Nov 2018 00:46

Tgt Ion:330 Resp: 848  
 Ion Ratio Lower Upper  
 330 100  
 332 118.2 77.1 115.7#  
 141 25.9 27.0 40.4#



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

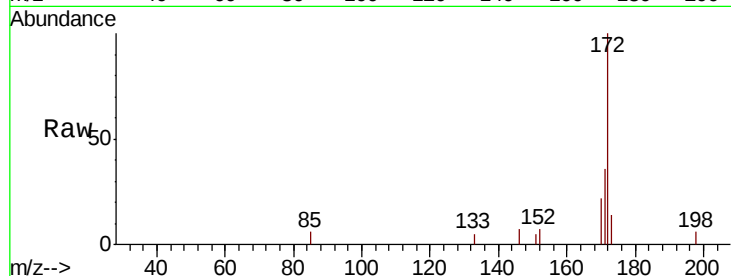




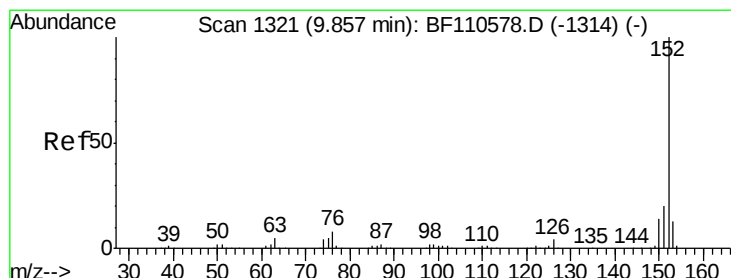
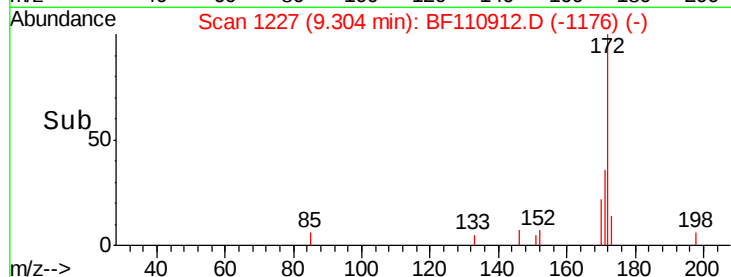
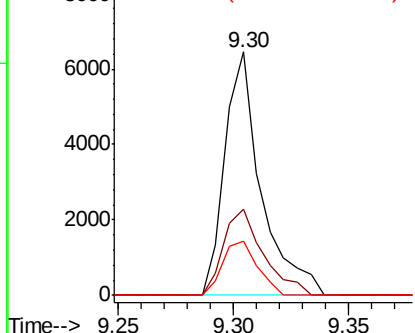
#45  
2-Fluorobiphenyl  
Concen: 1.087 ng  
RT: 9.30 min Scan# 1227  
Delta R.T. 0.00 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

Instrument :  
BNA\_F  
ClientSampleId :  
DTW-02(11-13)MSDDL

Tgt Ion:172 Resp: 7051  
Ion Ratio Lower Upper  
172 100  
171 35.5 28.6 43.0  
170 22.4 19.7 29.5

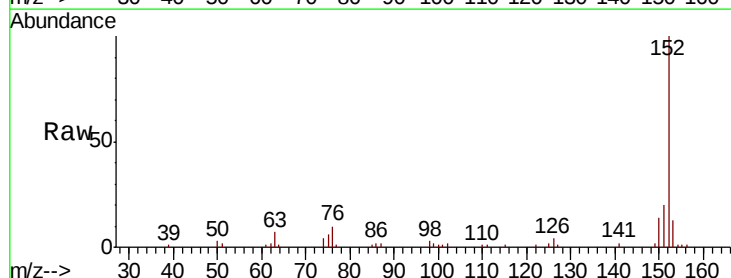


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

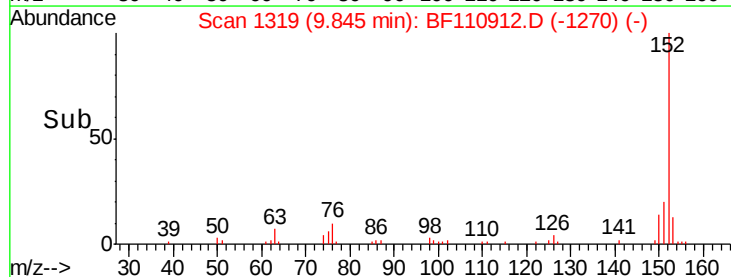
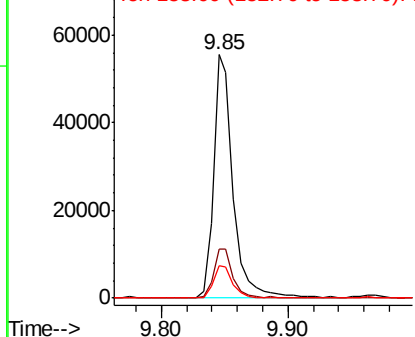


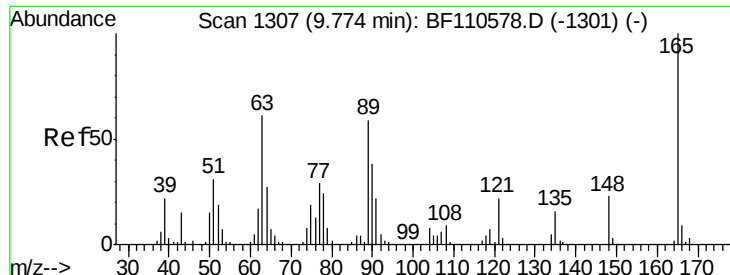
#49  
Acenaphthylene  
Concen: 6.661 ng  
RT: 9.85 min Scan# 1319  
Delta R.T. -0.01 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

Tgt Ion:152 Resp: 59719  
Ion Ratio Lower Upper  
152 100  
151 20.0 15.8 23.8  
153 13.2 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E

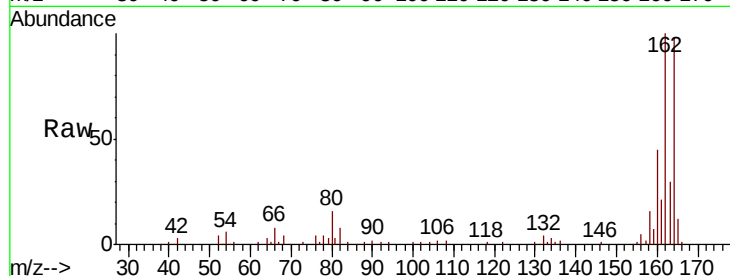




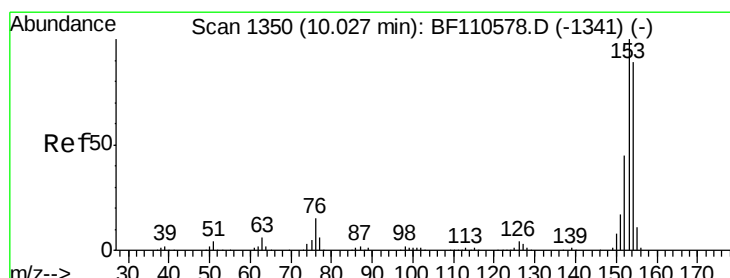
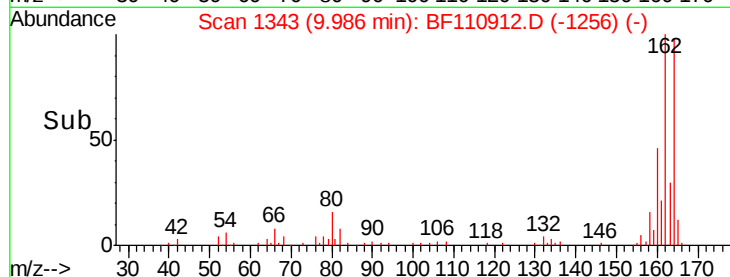
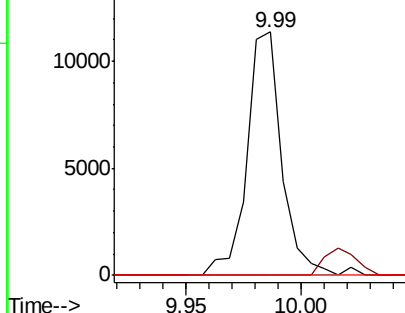
#51  
2,6-Dinitrotoluene  
Concen: 7.878 ng  
RT: 9.99 min Scan# 1343  
Delta R.T. 0.21 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

Instrument :  
BNA\_F  
ClientSampleId :  
DTW-02(11-13)MSDDL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 48.9  | 73.3# |
| 89      | 0.0   | 46.6  | 69.8# |

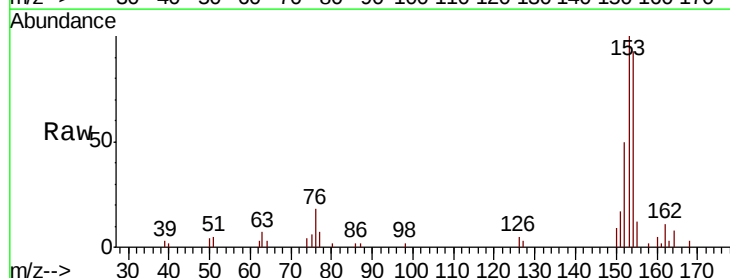


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1

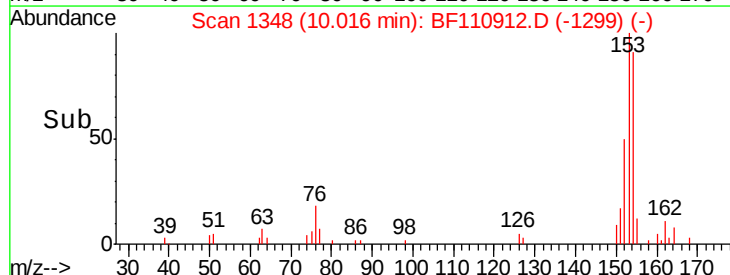
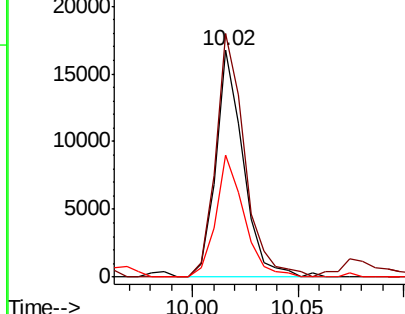


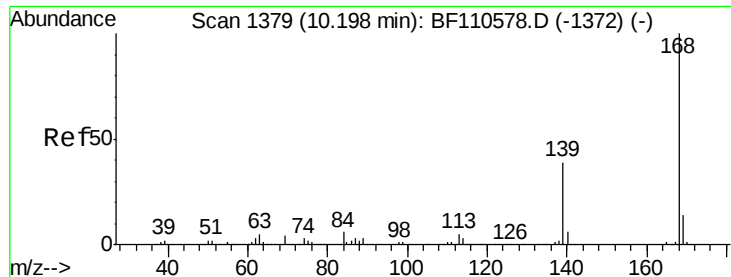
#52  
Acenaphthene  
Concen: 2.665 ng  
RT: 10.02 min Scan# 1348  
Delta R.T. -0.01 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 107.5 | 90.1  | 135.1 |
| 152     | 53.8  | 43.4  | 65.2  |



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E





#55

Dibenzenofuran

Concen: 6.090 ng

RT: 10.19 min Scan# 1378

Delta R.T. -0.01 min

Lab File: BF110912.D

Acq: 21 Nov 2018 00:46

Instrument :

BNA\_F

ClientSampleId :

DTW-02(11-13)MSDDL

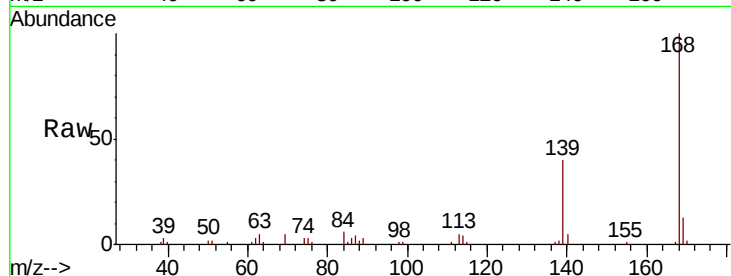
Tgt Ion:168 Resp: 50478

Ion Ratio Lower Upper

168 100

139 40.4 33.0 49.6

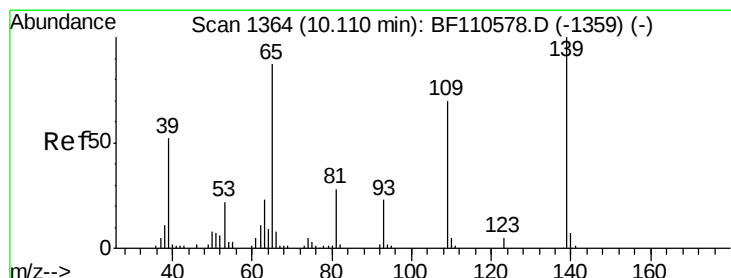
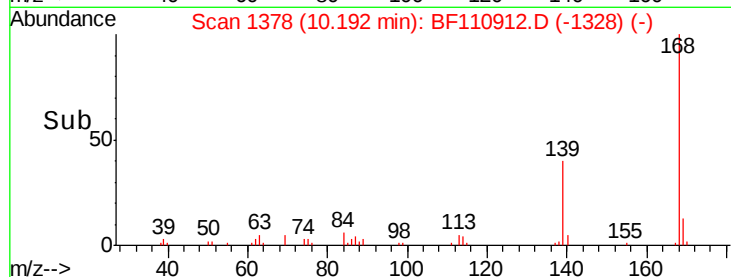
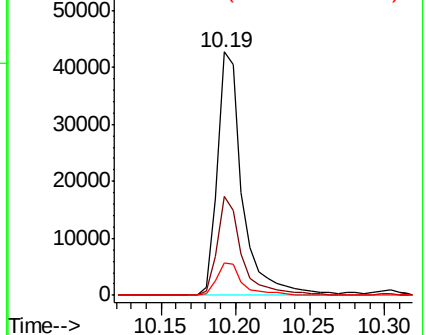
169 13.1 11.3 16.9



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#56

4-Nitrophenol

Concen: 17.023 ng

RT: 10.19 min Scan# 1378

Delta R.T. 0.08 min

Lab File: BF110912.D

Acq: 21 Nov 2018 00:46

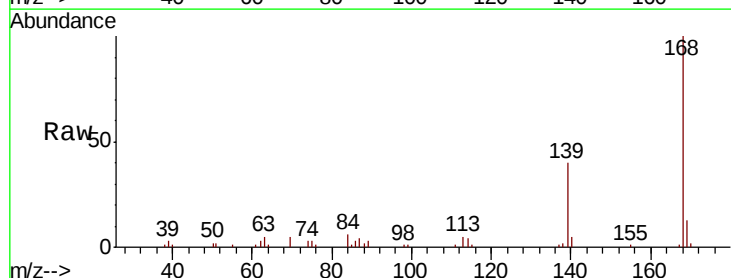
Tgt Ion:139 Resp: 19893

Ion Ratio Lower Upper

139 100

109 0.0 55.8 95.8#

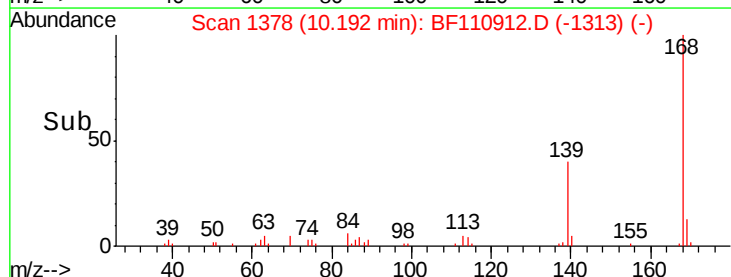
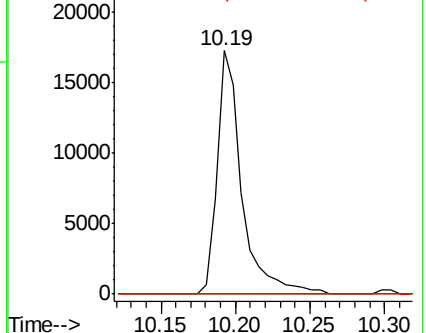
65 0.0 77.9 117.9#

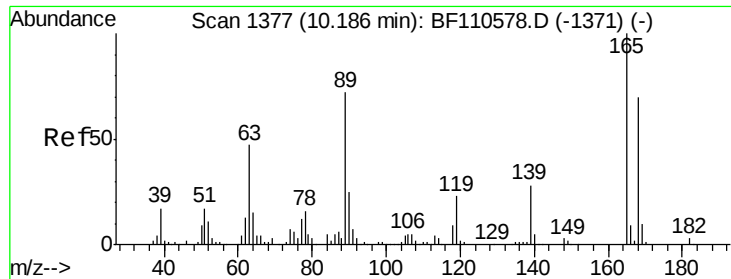


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

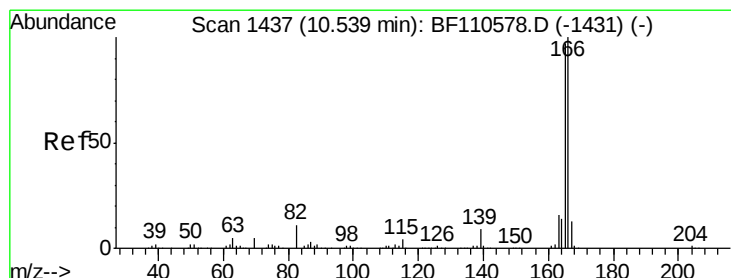
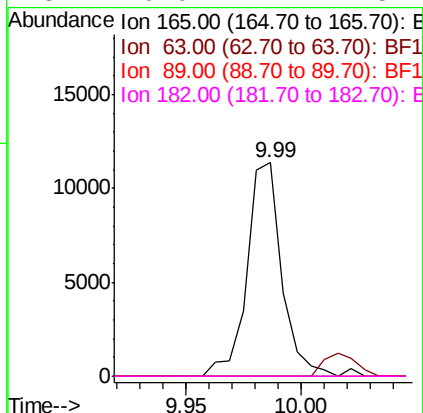
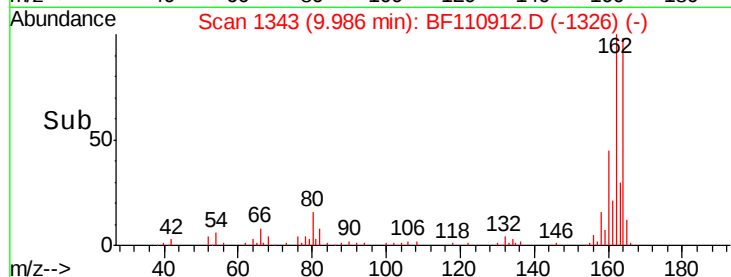
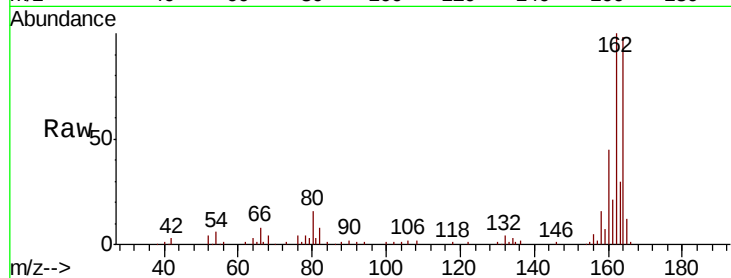




#57  
2,4-Dinitrotoluene  
Concen: 6.059 ng  
RT: 9.99 min Scan# 1343  
Delta R.T. -0.20 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

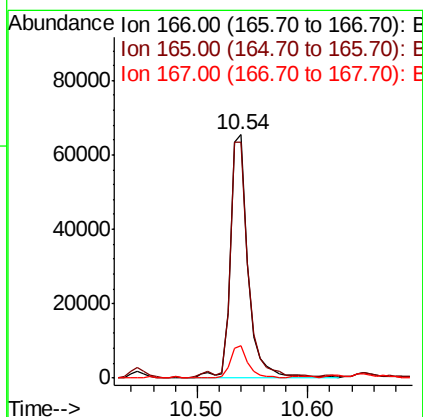
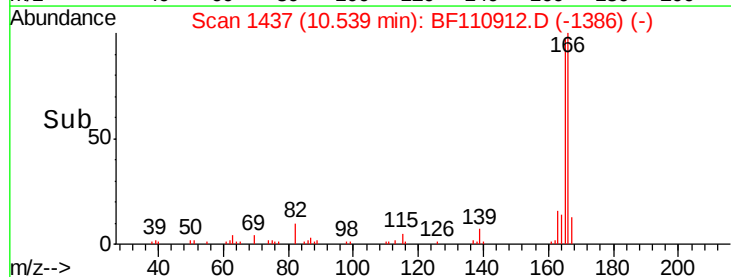
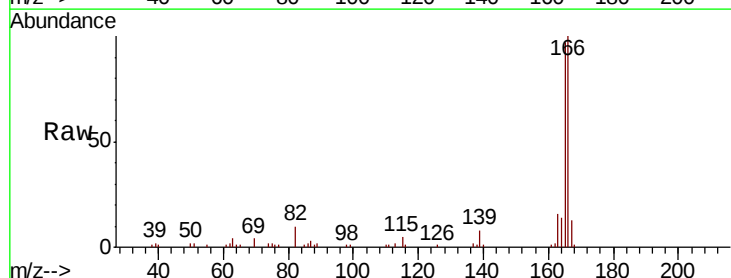
Instrument :  
BNA\_F  
ClientSampleId :  
DTW-02(11-13)MSDDL

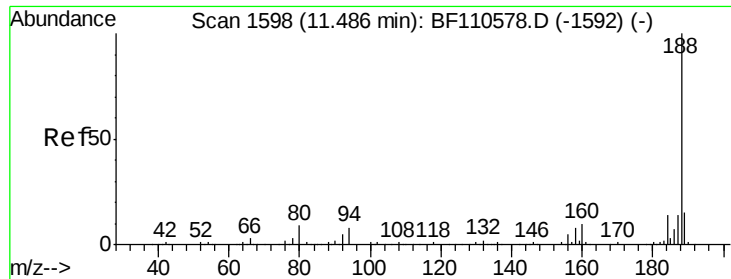
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.8  | 67.2# |
| 89      | 0.0   | 62.2  | 93.4# |
| 182     | 0.0   | 2.1   | 3.1#  |



#58  
Fluorene  
Concen: 11.651 ng  
RT: 10.54 min Scan# 1437  
Delta R.T. 0.00 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.1  | 78.6  | 117.8 |
| 167     | 13.3  | 10.8  | 16.2  |

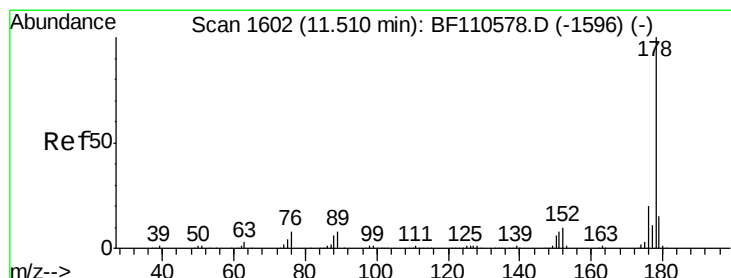
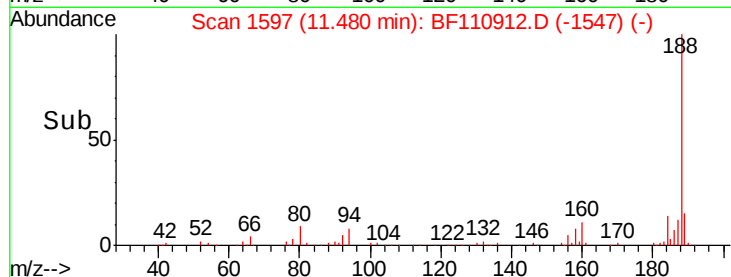
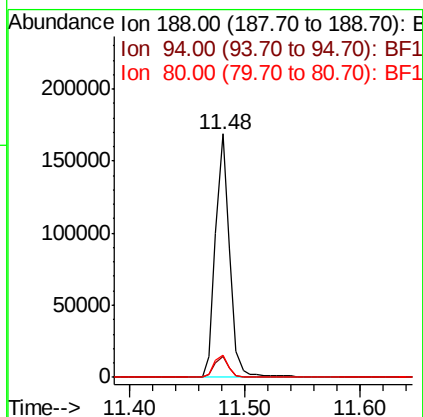
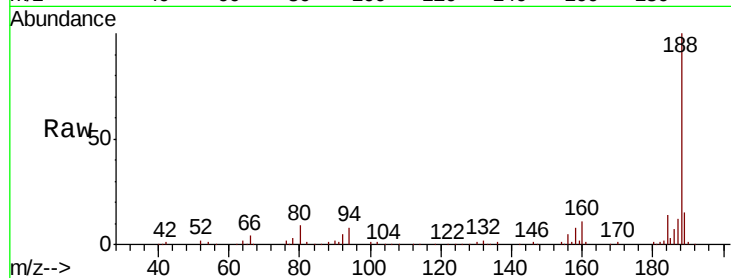




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.48 min Scan# 1597  
Delta R.T. -0.01 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

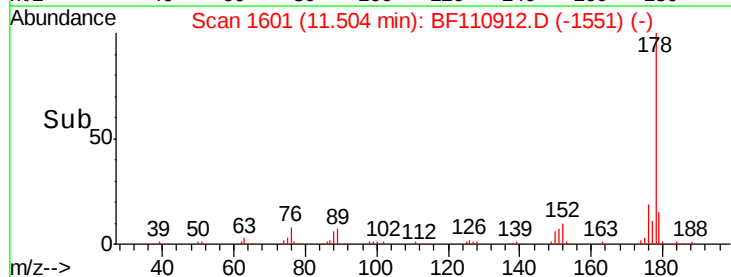
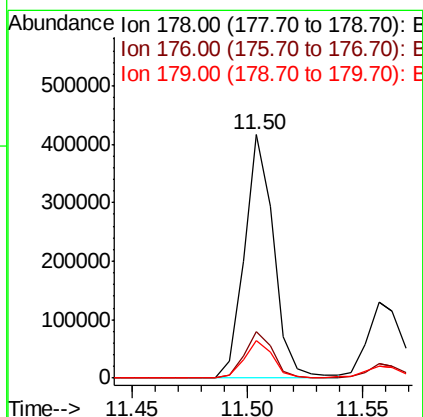
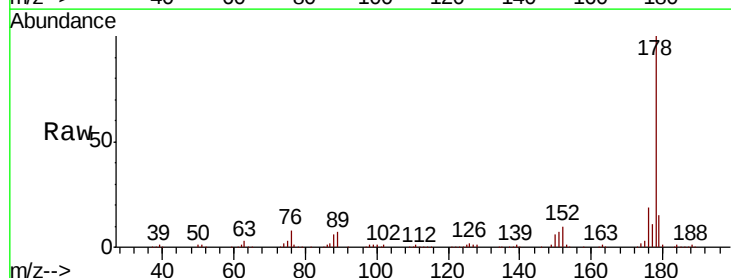
Instrument :  
BNA\_F  
ClientSampleId :  
DTW-02(11-13)MSDDL

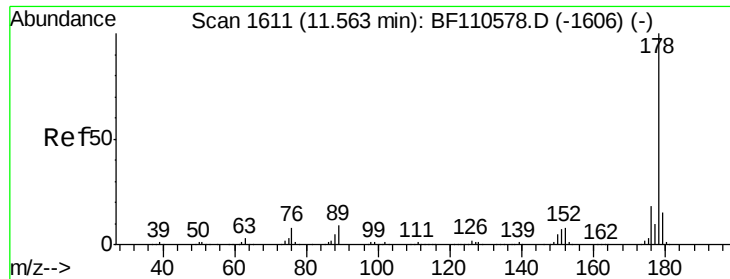
Tgt Ion:188 Resp: 143482  
Ion Ratio Lower Upper  
188 100  
94 8.5 7.2 10.8  
80 8.9 7.9 11.9



#71  
Phenanthrene  
Concen: 47.960 ng  
RT: 11.50 min Scan# 1601  
Delta R.T. -0.01 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

Tgt Ion:178 Resp: 368672  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.5 23.3  
179 15.3 12.5 18.7





#72

Anthracene

Concen: 18.800 ng

RT: 11.56 min Scan# 1610

Delta R.T. -0.01 min

Lab File: BF110912.D

Acq: 21 Nov 2018 00:46

Instrument :

BNA\_F

ClientSampleId :

DTW-02(11-13)MSDDL

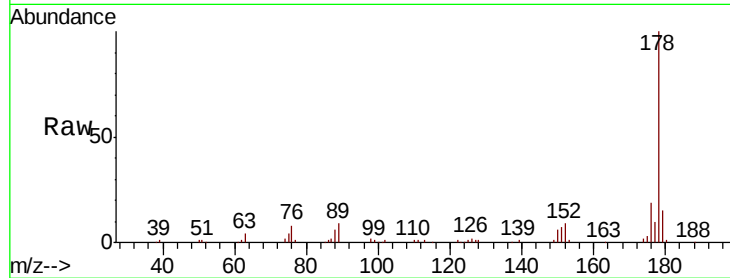
Tgt Ion:178 Resp: 145779

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

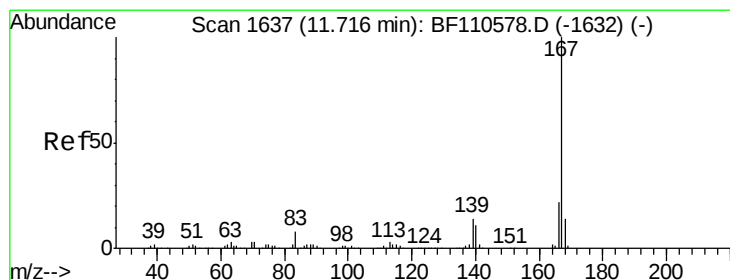
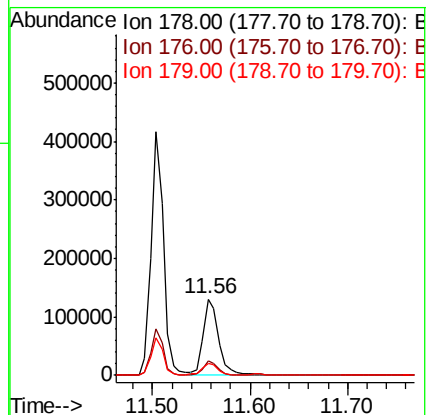
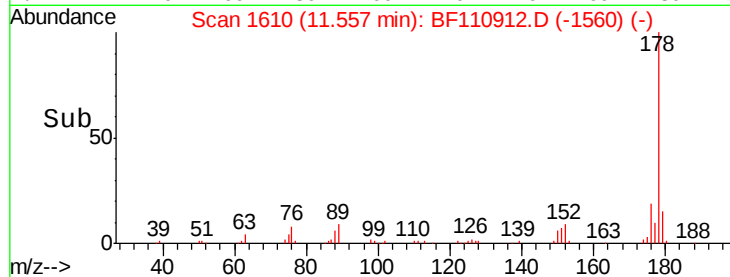
179 15.5 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 3.381 ng

RT: 11.72 min Scan# 1638

Delta R.T. 0.01 min

Lab File: BF110912.D

Acq: 21 Nov 2018 00:46

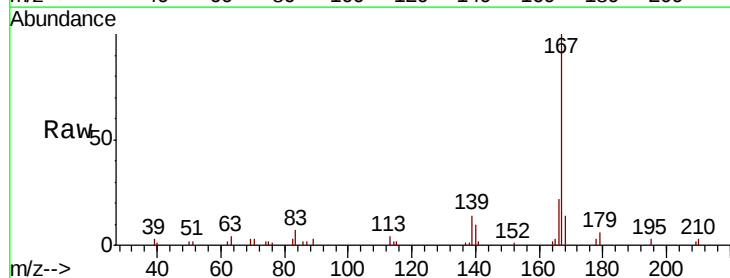
Tgt Ion:167 Resp: 25178

Ion Ratio Lower Upper

167 100

166 21.7 17.4 26.0

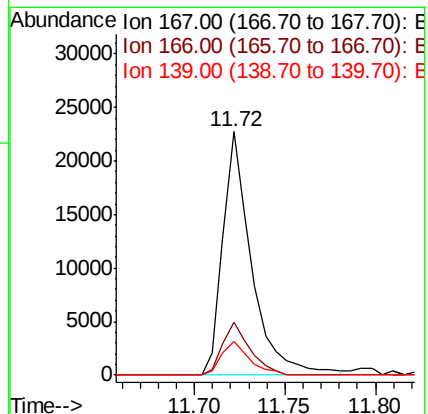
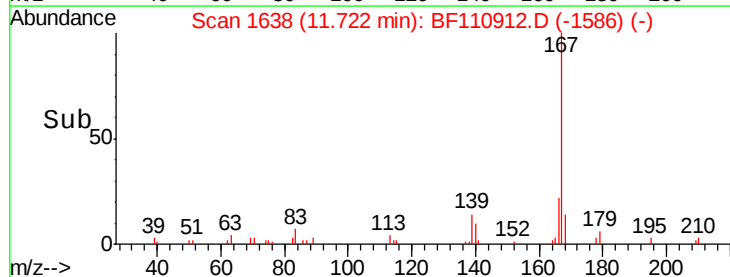
139 13.6 10.9 16.3

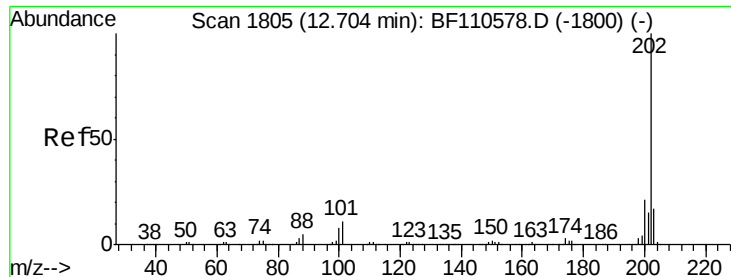


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 47.103 ng

RT: 12.70 min Scan# 1805

Delta R.T. 0.00 min

Lab File: BF110912.D

Acq: 21 Nov 2018 00:46

Instrument :

BNA\_F

ClientSampleId :

DTW-02(11-13)MSDDL

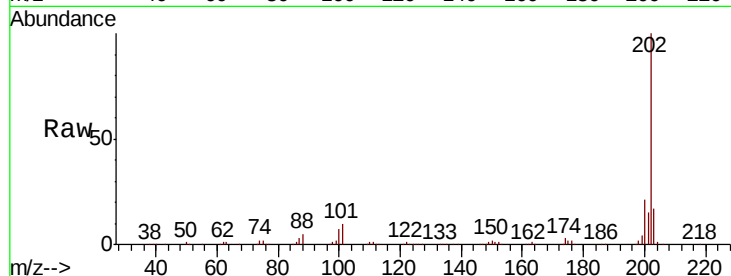
Tgt Ion:202 Resp: 363015

Ion Ratio Lower Upper

202 100

101 9.6 0.0 31.4

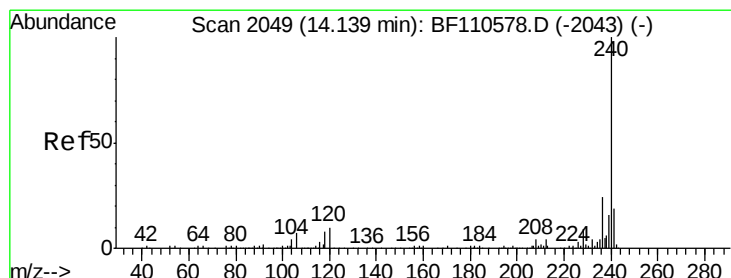
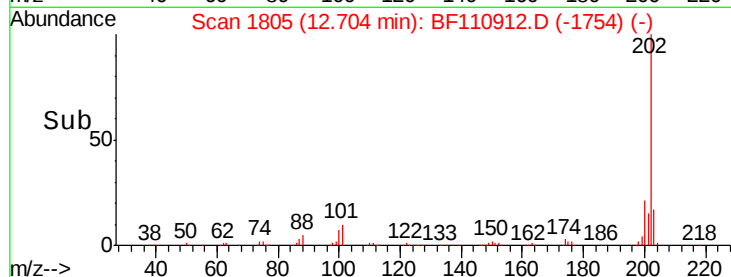
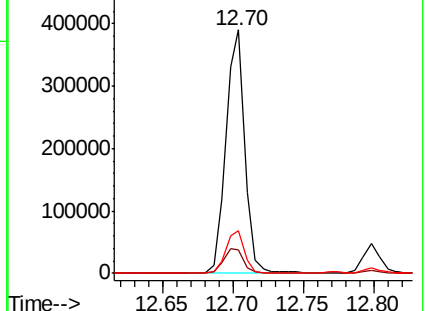
203 17.3 0.0 37.7



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.13 min Scan# 2048

Delta R.T. -0.01 min

Lab File: BF110912.D

Acq: 21 Nov 2018 00:46

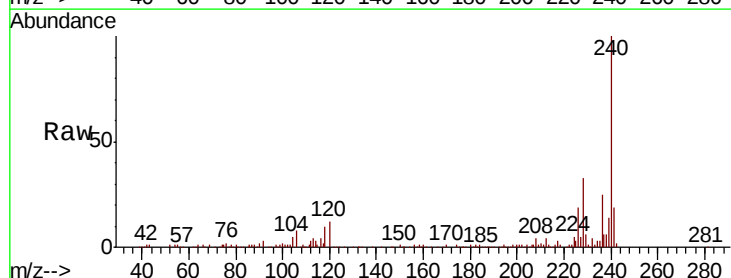
Tgt Ion:240 Resp: 123947

Ion Ratio Lower Upper

240 100

120 11.7 8.3 12.5

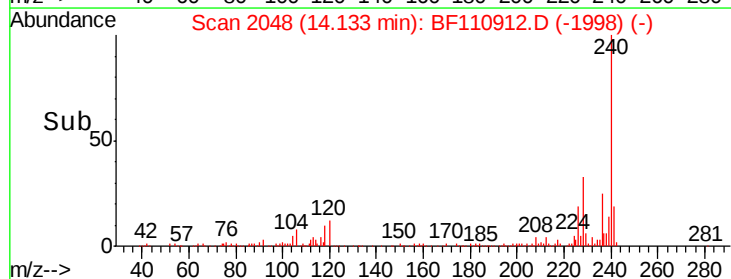
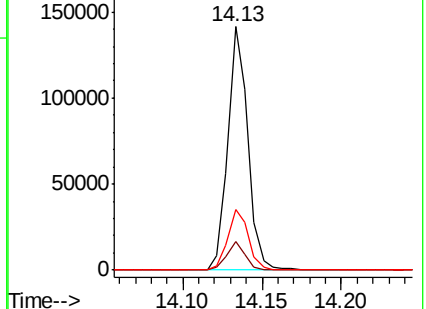
236 24.6 21.2 31.8

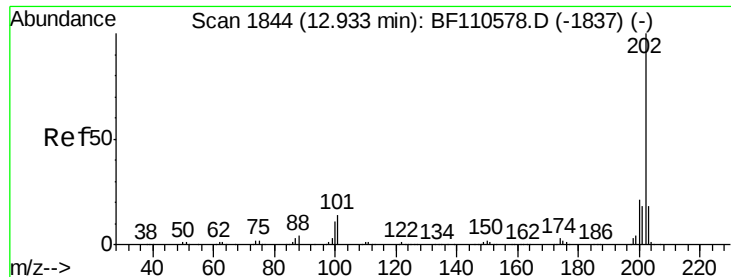


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

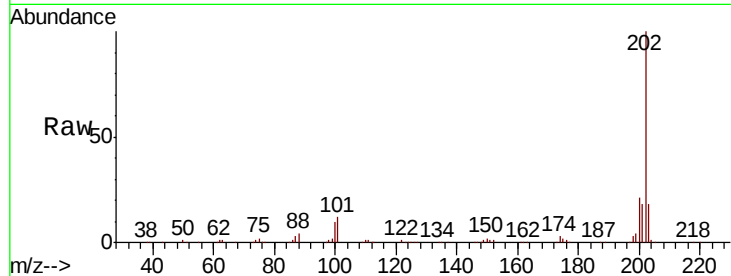




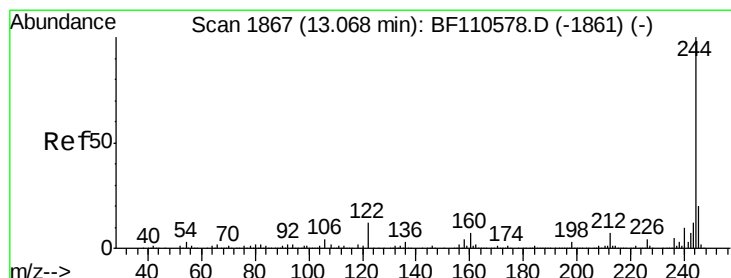
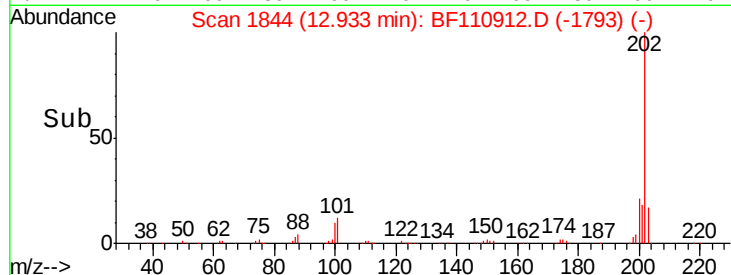
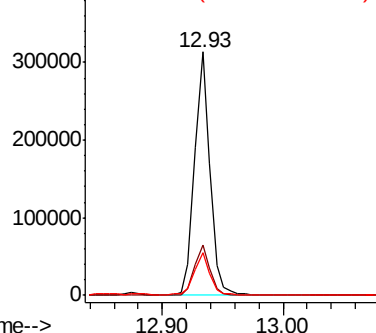
#78  
Pyrene  
Concen: 28.809 ng  
RT: 12.93 min Scan# 1844  
Delta R.T. 0.00 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

Instrument :  
BNA\_F  
ClientSampleId :  
DTW-02(11-13)MSDDL

Tgt Ion: 202 Resp: 274941  
Ion Ratio Lower Upper  
202 100  
200 20.7 17.8 26.6  
203 17.7 14.2 21.4

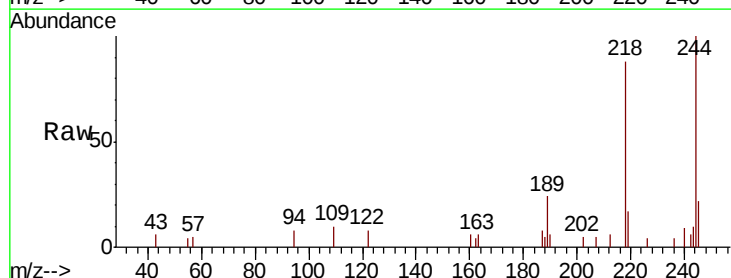


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E

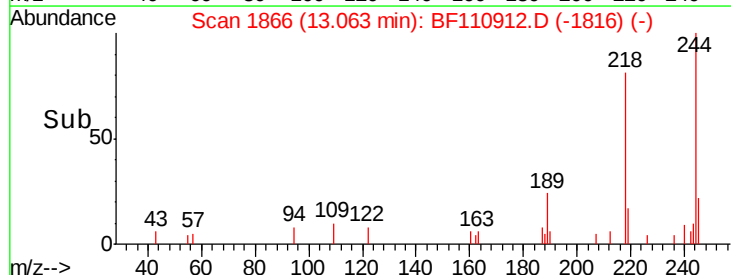
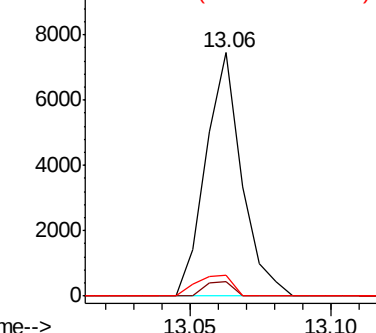


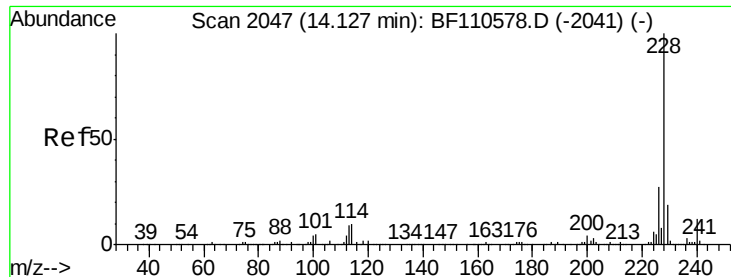
#79  
Terphenyl-d14  
Concen: 0.995 ng  
RT: 13.06 min Scan# 1866  
Delta R.T. -0.01 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

Tgt Ion: 244 Resp: 6587  
Ion Ratio Lower Upper  
244 100  
212 6.1 5.8 8.8  
122 8.4 8.7 13.1#



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

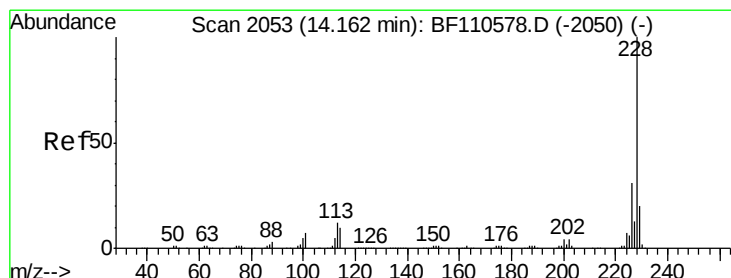
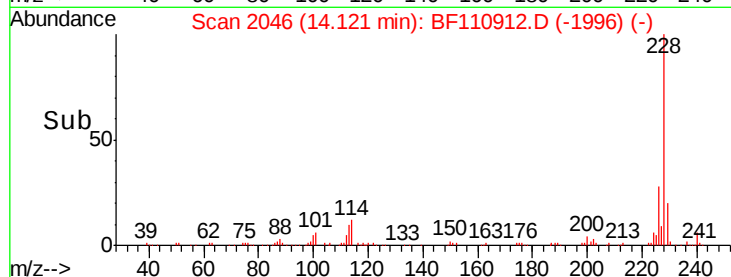
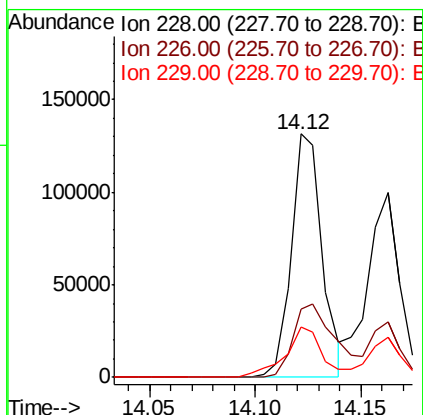
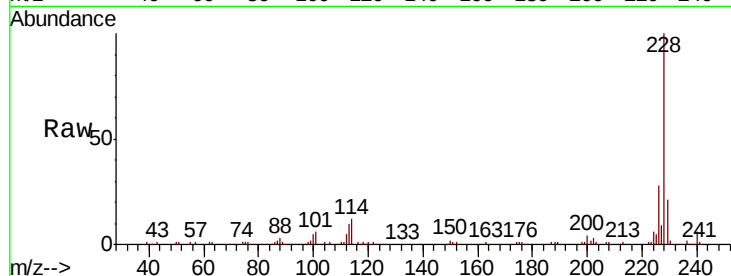




#81  
Benzo(a)anthracene  
Concen: 18.073 ng  
RT: 14.12 min Scan# 2046  
Delta R.T. -0.01 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

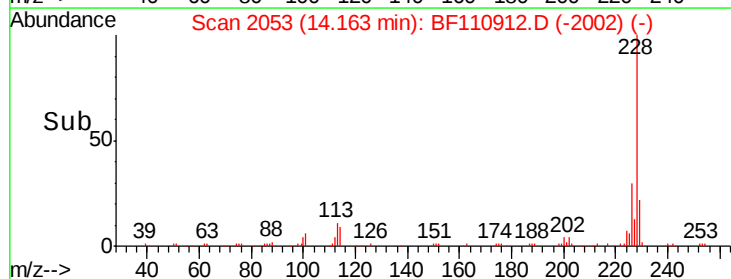
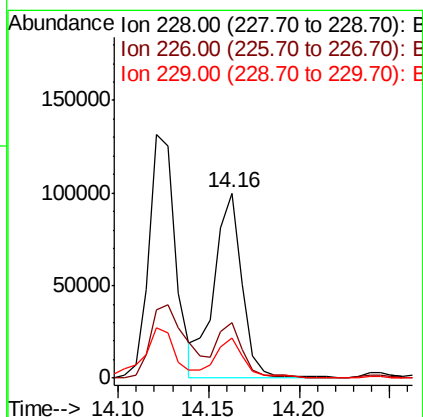
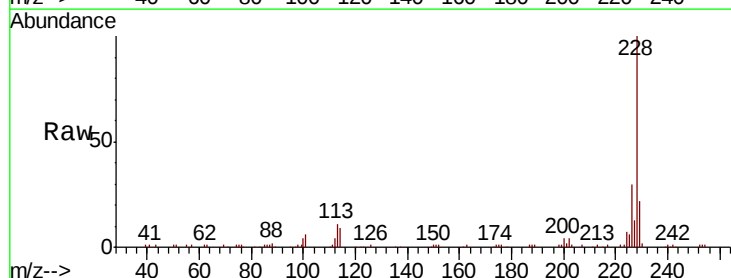
Instrument :  
BNA\_F  
ClientSampleId :  
DTW-02(11-13)MSDDL

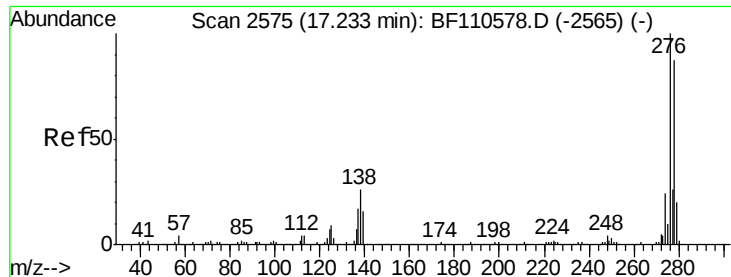
Tgt Ion:228 Resp: 133895  
Ion Ratio Lower Upper  
228 100  
226 28.1 22.1 33.1  
229 20.6 15.6 23.4



#83  
Chrysene  
Concen: 15.097 ng  
RT: 14.16 min Scan# 2053  
Delta R.T. 0.00 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

Tgt Ion:228 Resp: 106555  
Ion Ratio Lower Upper  
228 100  
226 29.7 24.7 37.1  
229 21.8 15.9 23.9

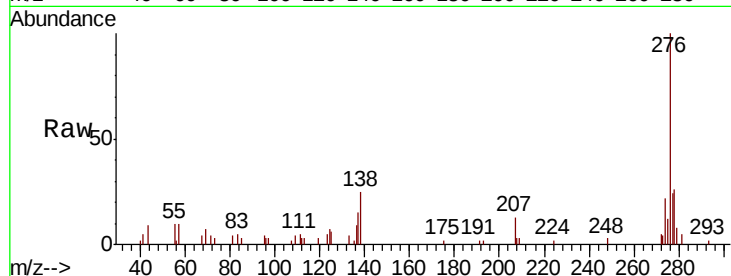




#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 6.478 ng  
 RT: 17.26 min Scan# 2579  
 Delta R.T. 0.02 min  
 Lab File: BF110912.D  
 Acq: 21 Nov 2018 00:46

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DTW-02(11-13)MSDDL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.4  | 18.5  | 27.7  |
| 277     | 24.9  | 20.0  | 30.0  |

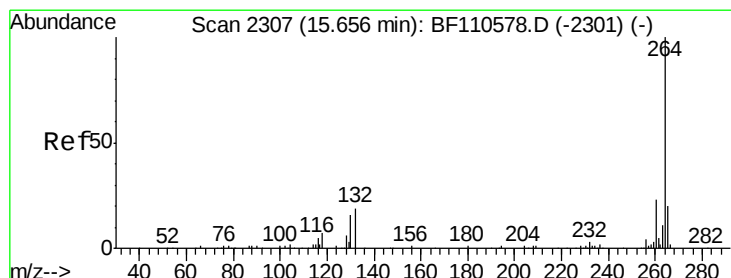
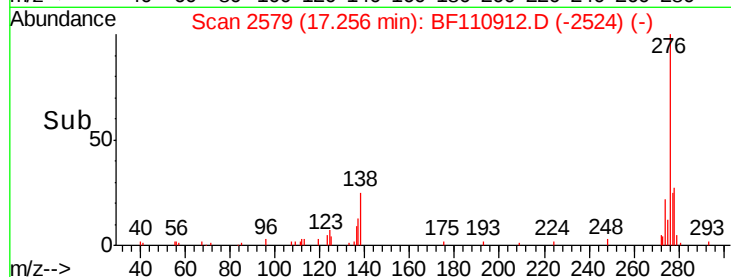
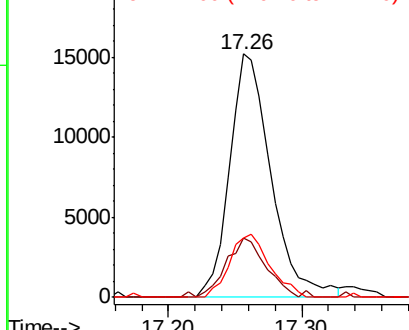


Abundance

Ion 276.00 (275.70 to 276.70): E

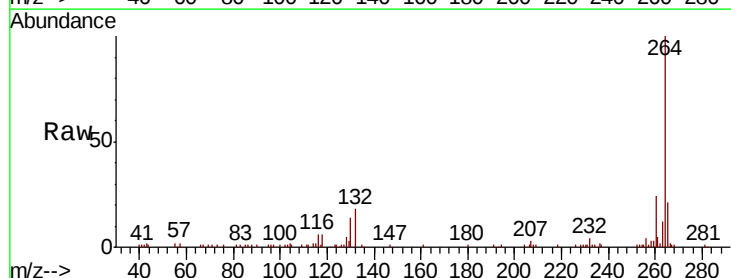
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.67 min Scan# 2309  
 Delta R.T. 0.01 min  
 Lab File: BF110912.D  
 Acq: 21 Nov 2018 00:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 18.7  | 28.1  |
| 265     | 21.3  | 16.7  | 25.1  |

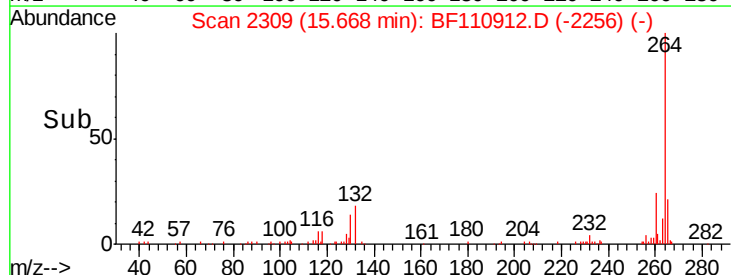
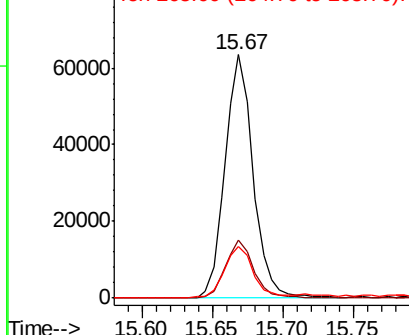


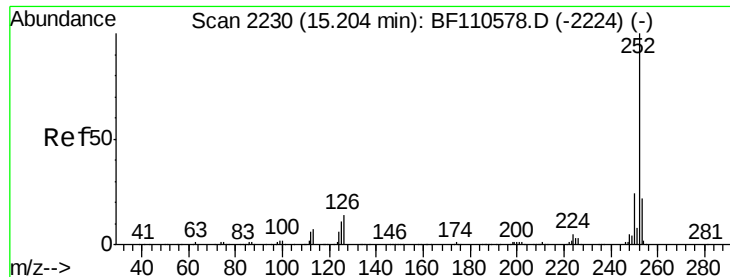
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

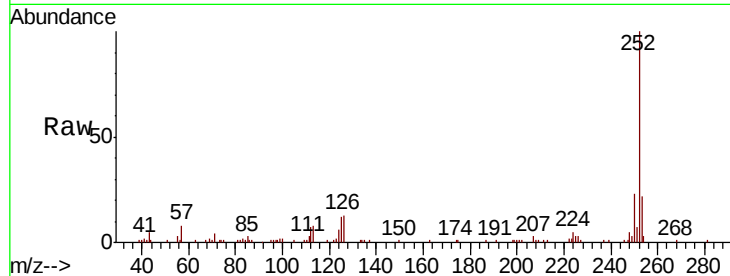




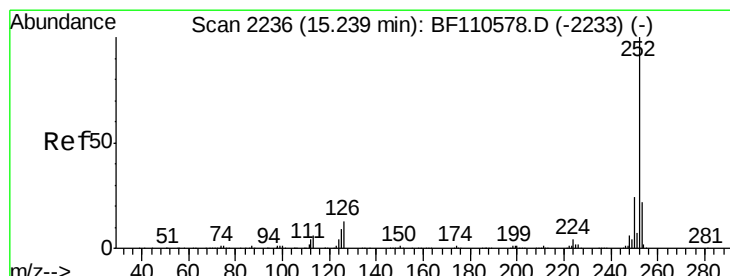
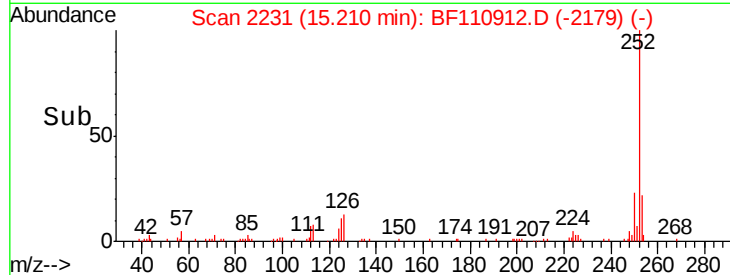
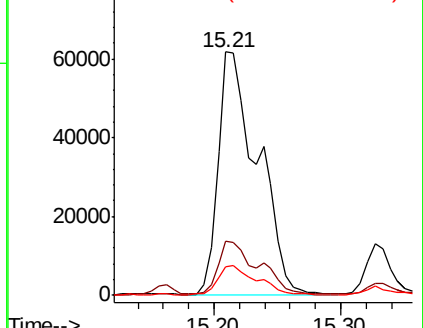
#88  
Benzo(b)fluoranthene  
Concen: 25.710 ng  
RT: 15.21 min Scan# 2231  
Delta R.T. 0.01 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

Instrument :  
BNA\_F  
ClientSampleId :  
DTW-02(11-13)MSDDL

Tgt Ion:252 Resp: 135373  
Ion Ratio Lower Upper  
252 100  
253 22.4 17.2 25.8  
125 11.7 8.2 12.4

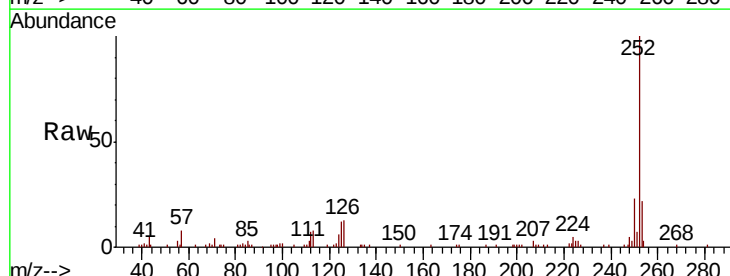


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

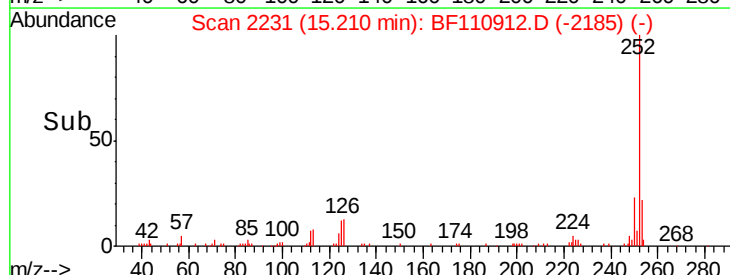
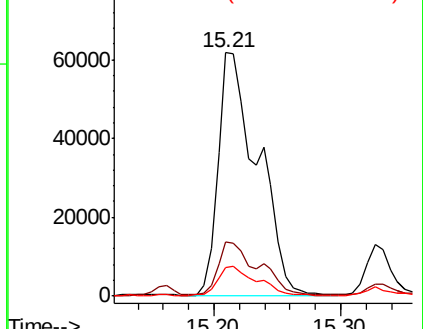


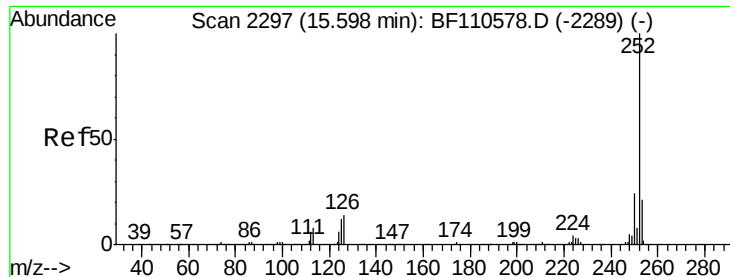
#89  
Benzo(k)fluoranthene  
Concen: 26.019 ng  
RT: 15.21 min Scan# 2231  
Delta R.T. -0.03 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

Tgt Ion:252 Resp: 135373  
Ion Ratio Lower Upper  
252 100  
253 22.4 17.2 25.8  
125 11.7 7.4 11.0#



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

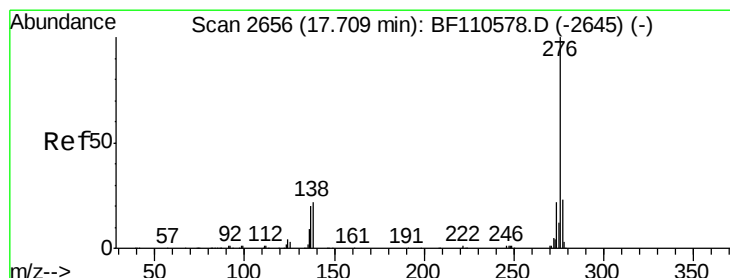
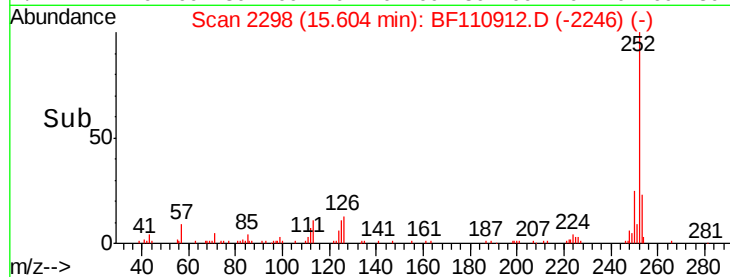
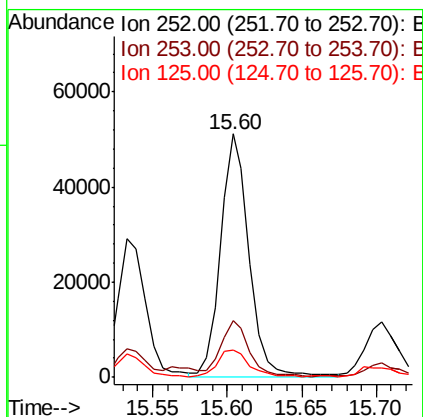
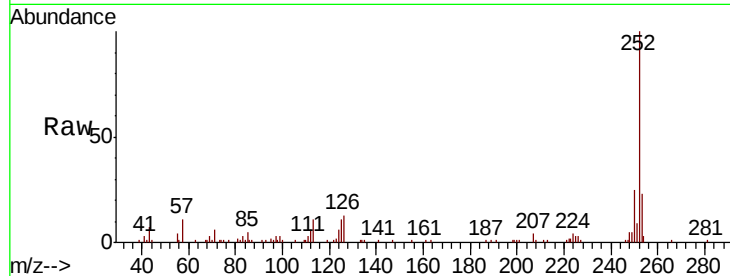




#90  
Benzo(a)pyrene  
Concen: 14.417 ng  
RT: 15.60 min Scan# 2298  
Delta R.T. 0.01 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

Instrument :  
BNA\_F  
ClientSampleId :  
DTW-02(11-13)MSDDL

Tgt Ion:252 Resp: 68969  
Ion Ratio Lower Upper  
252 100  
253 23.0 18.2 27.4  
125 11.1 9.0 13.6



#92  
Benzo(g,h,i)perylene  
Concen: 6.649 ng  
RT: 17.74 min Scan# 2662  
Delta R.T. 0.04 min  
Lab File: BF110912.D  
Acq: 21 Nov 2018 00:46

Tgt Ion:276 Resp: 26706  
Ion Ratio Lower Upper  
276 100  
277 25.6 18.8 28.2  
138 22.5 16.0 24.0

