

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\  
 Data File : BF112688.D  
 Acq On : 25 Feb 2019 13:20  
 Operator : JU/SJ  
 Sample : K1595-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-CBF-B10

Quant Time: Feb 25 14:10:54 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 25 14:05:25 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.82  | 152  | 67682    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.09  | 136  | 266408   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.85  | 164  | 117840   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.34 | 188  | 189965   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.98 | 240  | 174248   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.46 | 264  | 173607   | 20.00 | ng    | 0.00     |

|                             |       |     |        |        |    |       |
|-----------------------------|-------|-----|--------|--------|----|-------|
| System Monitoring Compounds |       |     |        |        |    |       |
| 5) 2-Fluorophenol           | 5.46  | 112 | 409743 | 128.59 | ng | 0.00  |
| 7) Phenol-d6                | 6.48  | 99  | 529290 | 119.54 | ng | -0.01 |
| 23) Nitrobenzene-d5         | 7.38  | 82  | 322746 | 69.80  | ng | -0.01 |
| 42) 2,4,6-Tribromophenol    | 10.65 | 330 | 124042 | 90.43  | ng | 0.00  |
| 45) 2-Fluorobiphenyl        | 9.17  | 172 | 496716 | 59.62  | ng | 0.00  |
| 79) Terphenyl-d14           | 12.91 | 244 | 370266 | 40.02  | ng | -0.01 |

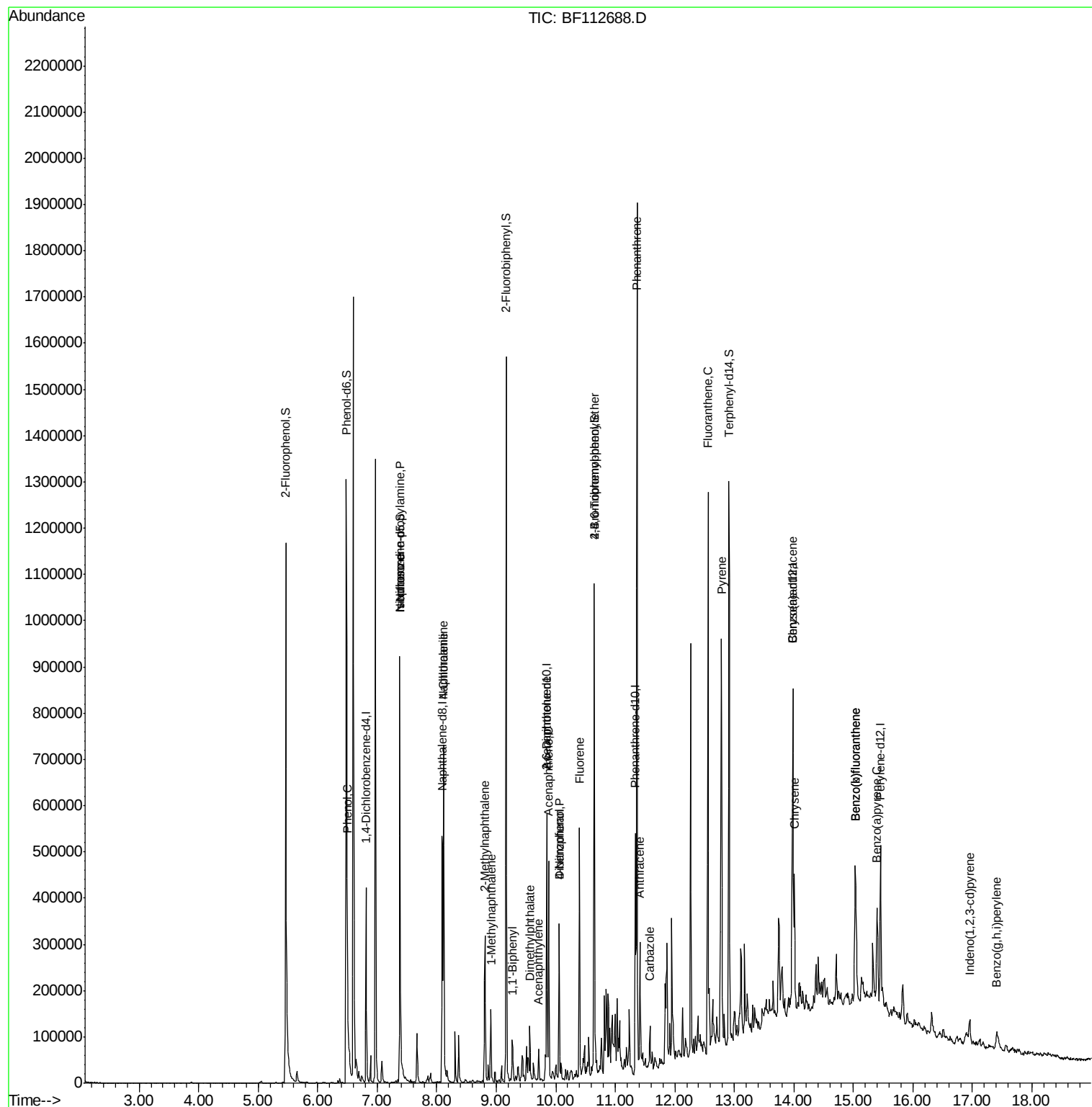
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 10) Phenol                     | 6.50  | 94  | 16257  | 3.347  | ng | # 77 |
| 19) n-Nitroso-di-n-propylamine | 7.38  | 70  | 44518  | 14.581 | ng | # 73 |
| 25) Isophorone                 | 7.38  | 82  | 322743 | 44.496 | ng | # 63 |
| 31) Naphthalene                | 8.12  | 128 | 341627 | 27.421 | ng | # 99 |
| 33) 4-Chloroaniline            | 8.12  | 127 | 45967  | 8.474  | ng | # 35 |
| 37) 2-Methylnaphthalene        | 8.81  | 142 | 80423  | 9.430  | ng | # 94 |
| 38) 1-Methylnaphthalene        | 8.91  | 142 | 41181  | 5.038  | ng | # 92 |
| 46) 1,1'-Biphenyl              | 9.27  | 154 | 26347  | 2.557  | ng | # 97 |
| 49) Acenaphthylene             | 9.72  | 152 | 25890  | 2.211  | ng | # 96 |
| 50) Dimethylphthalate          | 9.56  | 163 | 44143  | 4.821  | ng | # 99 |
| 51) 2,6-Dinitrotoluene         | 9.85  | 165 | 18317  | 8.933  | ng | # 36 |
| 52) Acenaphthene               | 9.88  | 154 | 96223  | 13.756 | ng | # 98 |
| 55) Dibenzofuran               | 10.06 | 168 | 124045 | 11.605 | ng | # 94 |
| 56) 4-Nitrophenol              | 10.06 | 139 | 51035  | 43.454 | ng | # 13 |
| 58) Fluorene                   | 10.40 | 166 | 145388 | 18.176 | ng | # 95 |
| 67) 4-Bromophenyl-phenylether  | 10.65 | 248 | 7361   | 3.295  | ng | # 1  |
| 71) Phenanthrene               | 11.36 | 178 | 662189 | 67.050 | ng | # 97 |
| 72) Anthracene                 | 11.42 | 178 | 105502 | 10.724 | ng | # 98 |
| 73) Carbazole                  | 11.58 | 167 | 34241  | 3.528  | ng | # 98 |
| 75) Fluoranthene               | 12.56 | 202 | 494772 | 46.709 | ng | # 96 |
| 78) Pyrene                     | 12.79 | 202 | 376222 | 31.186 | ng | # 97 |
| 81) Benzo(a)anthracene         | 13.97 | 228 | 169485 | 16.546 | ng | # 97 |
| 83) Chrysene                   | 14.01 | 228 | 105589 | 10.799 | ng | # 96 |
| 86) Indeno(1,2,3-cd)pyrene     | 16.96 | 276 | 33801  | 4.363  | ng | # 95 |
| 88) Benzo(b)fluoranthene       | 15.03 | 252 | 179335 | 17.273 | ng | # 97 |
| 89) Benzo(k)fluoranthene       | 15.03 | 252 | 179335 | 18.033 | ng | # 98 |
| 90) Benzo(a)pyrene             | 15.40 | 252 | 83320  | 8.919  | ng | # 98 |
| 92) Benzo(g,h,i)perylene       | 17.40 | 276 | 30424  | 4.283  | ng | # 95 |

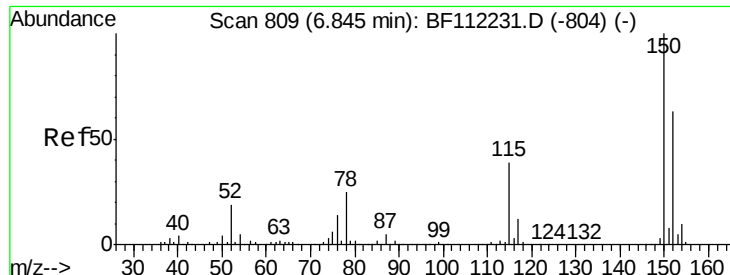
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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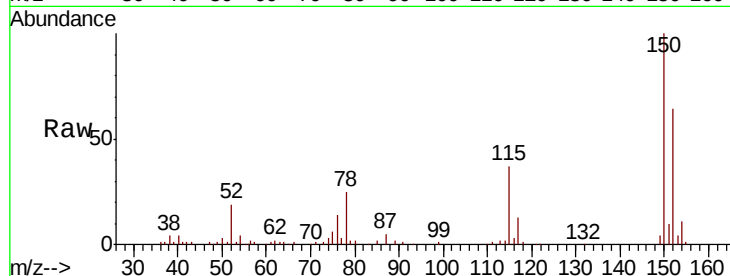


#1

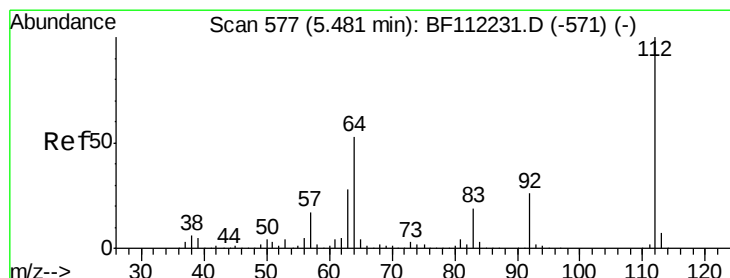
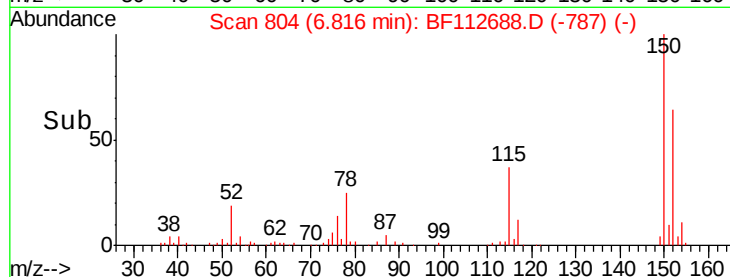
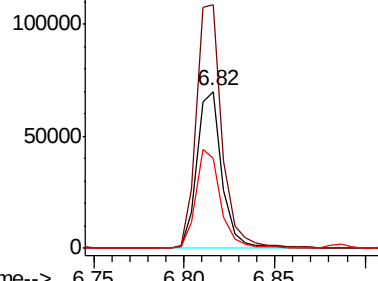
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.82 min Scan# 804  
Delta R.T. -0.00 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Instrument :  
BNA\_F  
ClientSampleId :  
TP-CBF-B10

Tot Ion:152 Resp: 67682  
Ion Ratio Lower Upper  
152 100  
150 155.3 127.4 191.0  
115 57.8 45.5 68.3



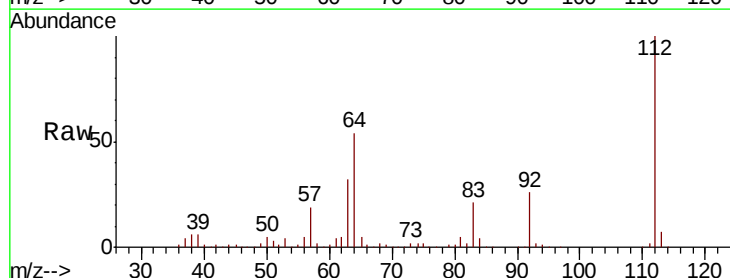
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



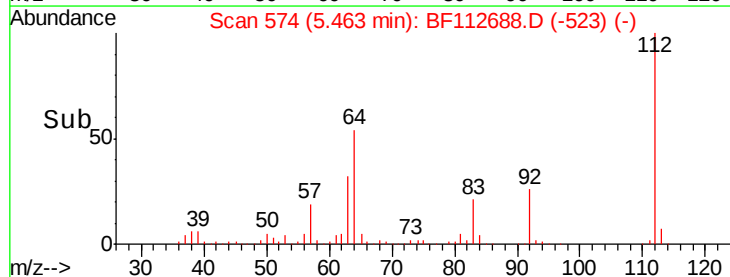
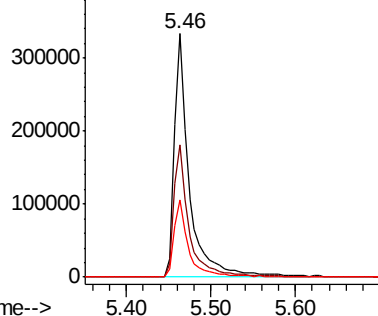
#5

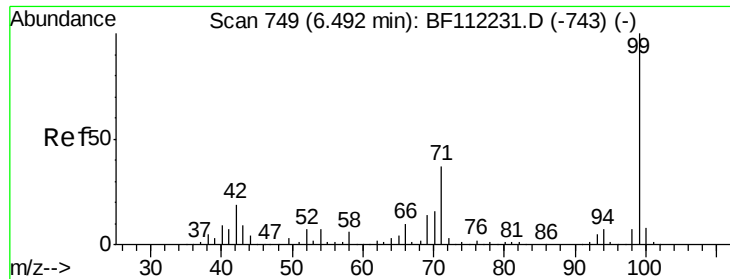
2-Fluorophenol  
Concen: 128.590 ng  
RT: 5.46 min Scan# 574  
Delta R.T. -0.00 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Tgt Ion:112 Resp: 409743  
Ion Ratio Lower Upper  
112 100  
64 54.4 45.7 68.5  
63 31.5 23.6 35.4



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: 119.540 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF112688.D

Acq: 25 Feb 2019 13:20

Instrument :

BNA\_F

ClientSampleId :

TP-CBF-B10

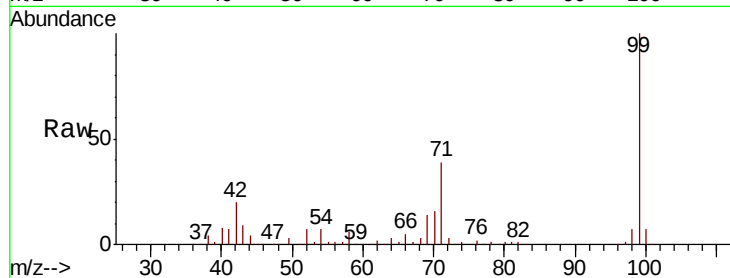
Tot Ion: 99 Resp: 529290

Ion Ratio Lower Upper

99 100

42 20.0 15.1 22.7

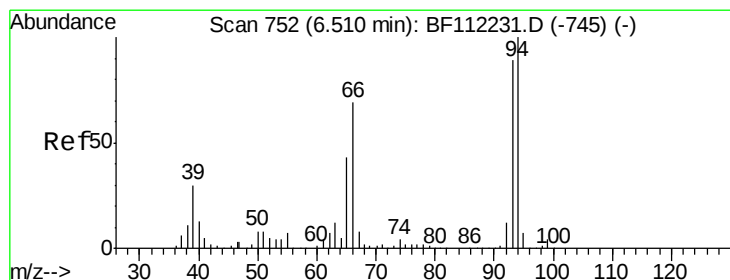
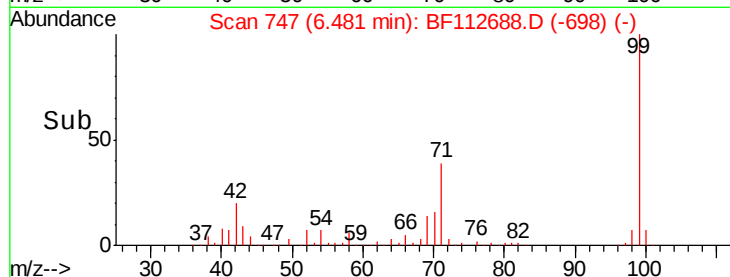
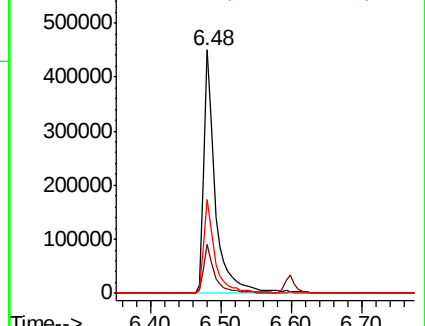
71 38.8 26.9 40.3



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 3.347 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF112688.D

Acq: 25 Feb 2019 13:20

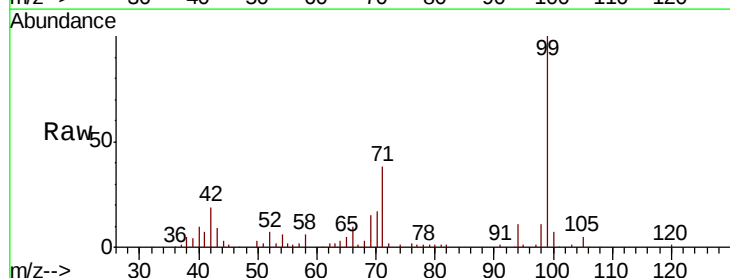
Tgt Ion: 94 Resp: 16257

Ion Ratio Lower Upper

94 100

65 46.7 20.3 60.3

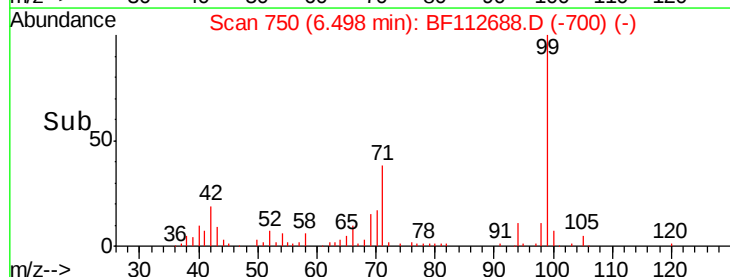
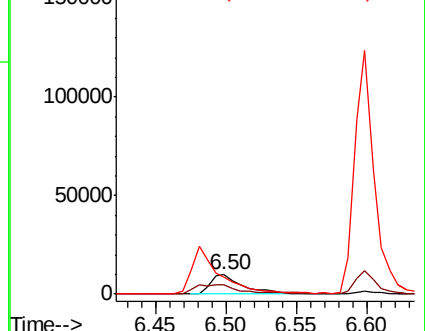
66 86.8 42.4 82.4#

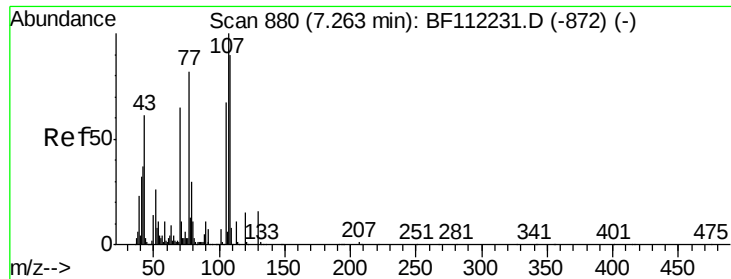


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

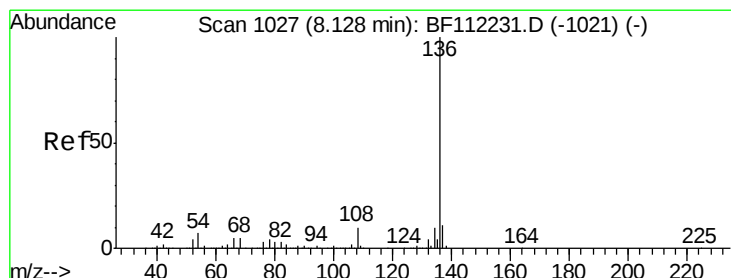
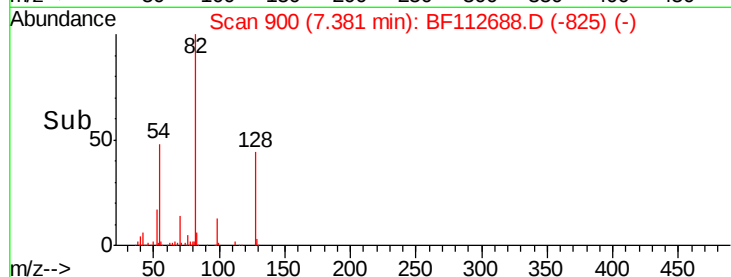
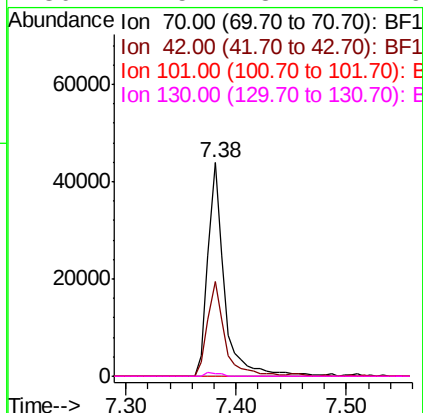
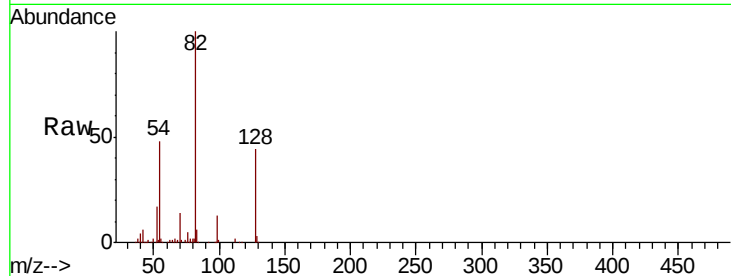




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.581 ng  
RT: 7.38 min Scan# 900  
Delta R.T. 0.14 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

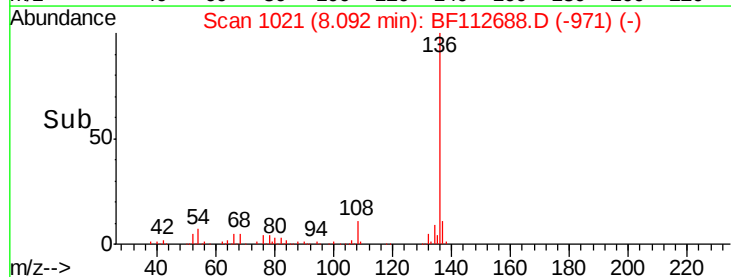
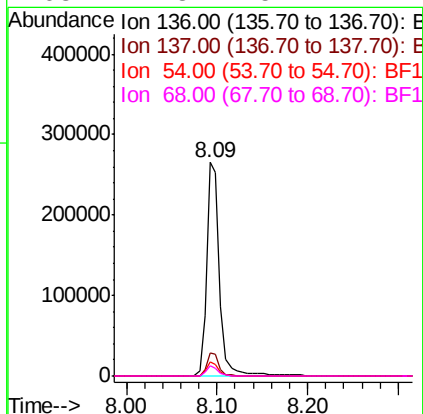
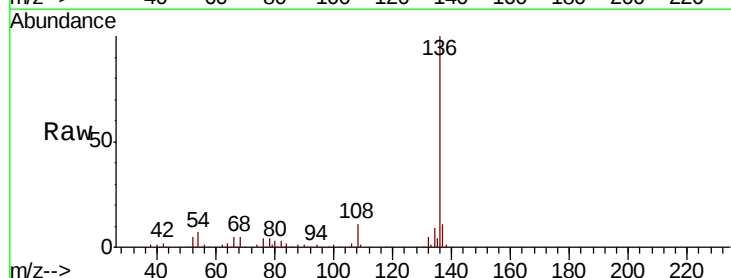
Instrument :  
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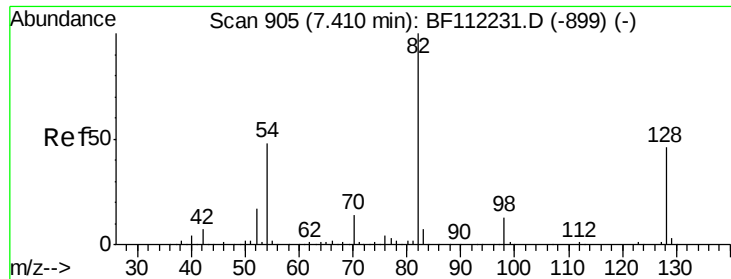
Tot Ion: 70 Resp: 44518  
Ion Ratio Lower Upper  
70 100  
42 44.3 47.6 71.4#  
101 0.0 7.9 11.9#  
130 1.5 18.4 27.6#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.09 min Scan# 1021  
Delta R.T. -0.01 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Tgt Ion: 136 Resp: 266408  
Ion Ratio Lower Upper  
136 100  
137 10.6 9.1 13.7  
54 6.8 5.9 8.9  
68 4.8 5.1 7.7#

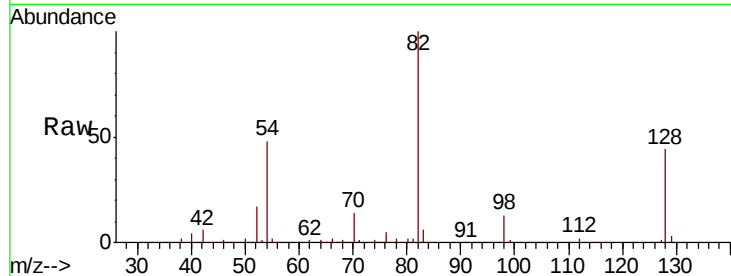




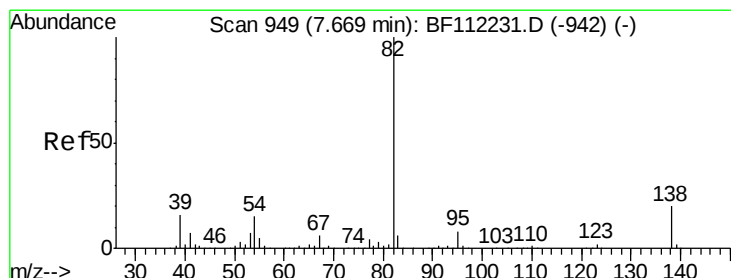
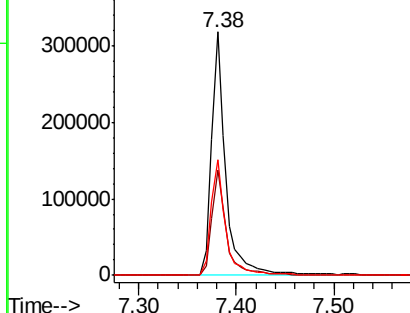
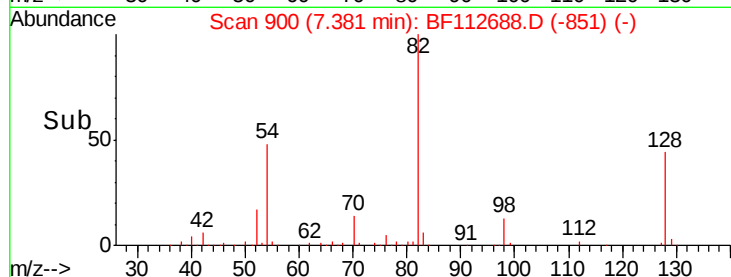
#23  
Nitrobenzene-d5  
Concen: 69.805 ng  
RT: 7.38 min Scan# 900  
Delta R.T. -0.01 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Instrument :  
BNA\_F  
ClientSampleId :  
TP-CBF-B10

Tot Ion: 82 Resp: 322746  
Ion Ratio Lower Upper  
82 100  
128 43.5 37.8 56.8  
54 47.6 39.7 59.5

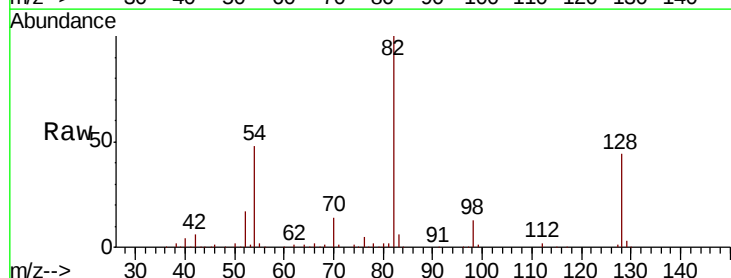


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

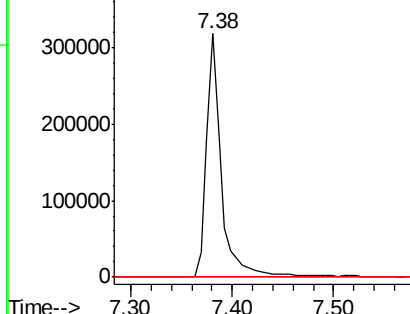
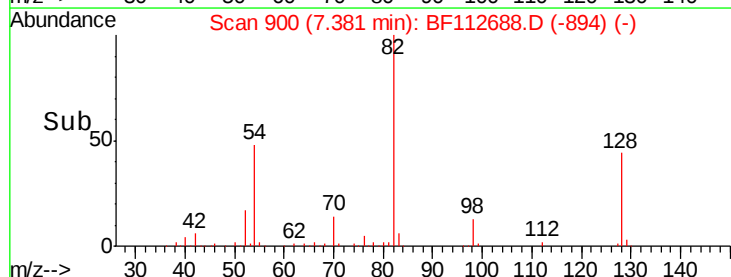


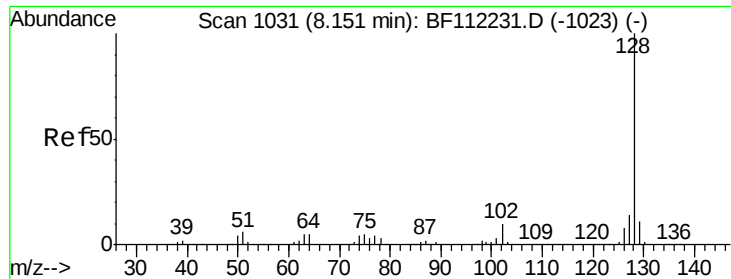
#25  
Isophorone  
Concen: 44.496 ng  
RT: 7.38 min Scan# 900  
Delta R.T. -0.26 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Tgt Ion: 82 Resp: 322743  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.7 8.5#  
138 0.0 15.4 23.0#



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

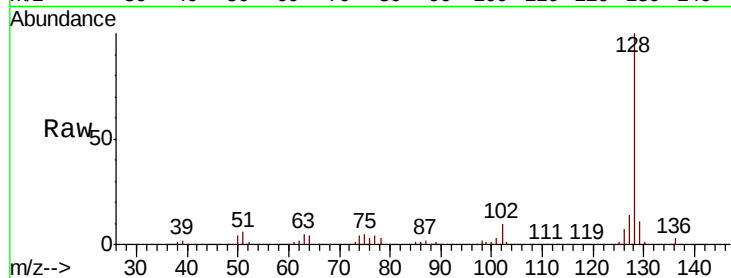




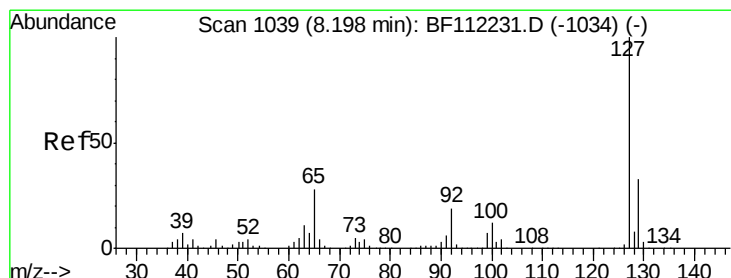
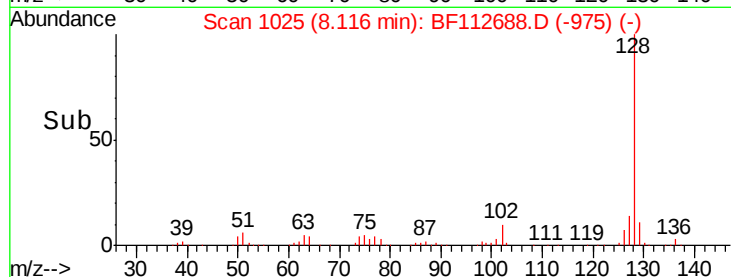
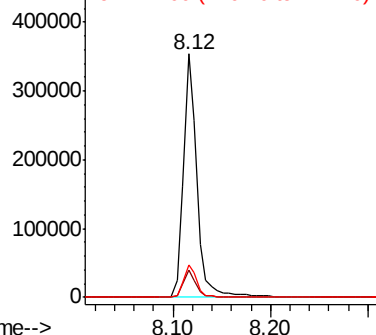
#31  
Naphthalene  
Concen: 27.421 ng  
RT: 8.12 min Scan# 1025  
Delta R.T. -0.01 min  
Lab File: BF112688.D  
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Instrument :  
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TP-CBF-B10

Tot Ion:128 Resp: 341627  
Ion Ratio Lower Upper  
128 100  
129 11.3 9.6 14.4  
127 13.5 11.1 16.7

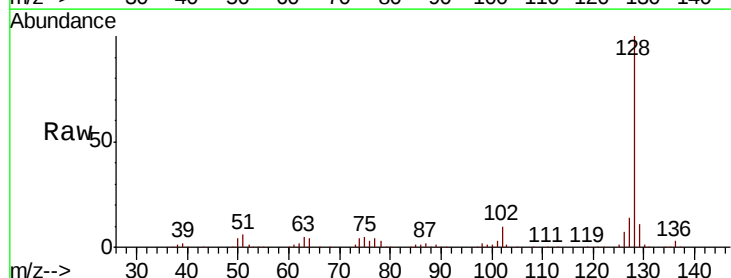


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

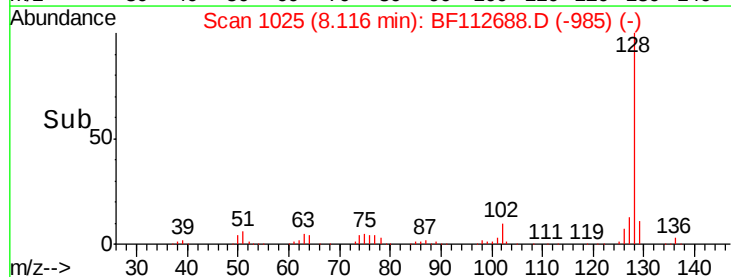
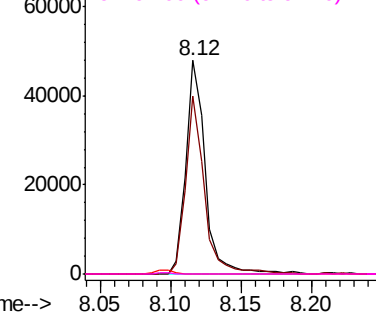


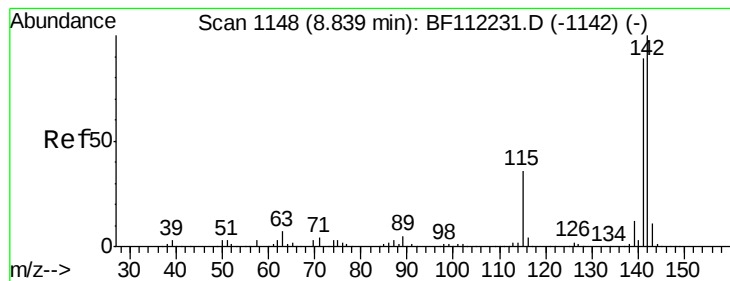
#33  
4-Chloroaniline  
Concen: 8.474 ng  
RT: 8.12 min Scan# 1025  
Delta R.T. -0.06 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Tgt Ion:127 Resp: 45967  
Ion Ratio Lower Upper  
127 100  
129 83.1 26.6 39.8#  
65 0.0 21.4 32.2#  
92 0.0 14.2 21.2#



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





#37

2-Methylnaphthalene

Concen: 9.430 ng

RT: 8.81 min Scan# 1143

Delta R.T. -0.01 min

Lab File: BF112688.D

Acq: 25 Feb 2019 13:20

Instrument :

BNA\_F

ClientSampleId :

TP-CBF-B10

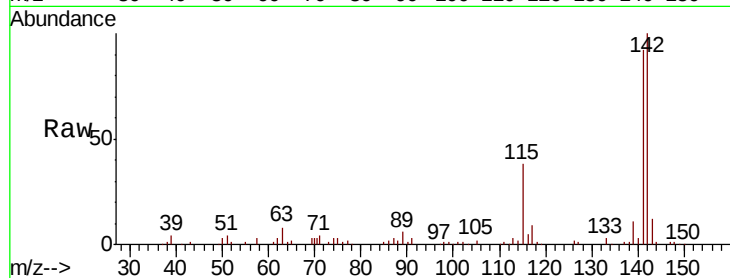
Tot Ion:142 Resp: 80423

Ion Ratio Lower Upper

142 100

141 92.1 70.9 106.3

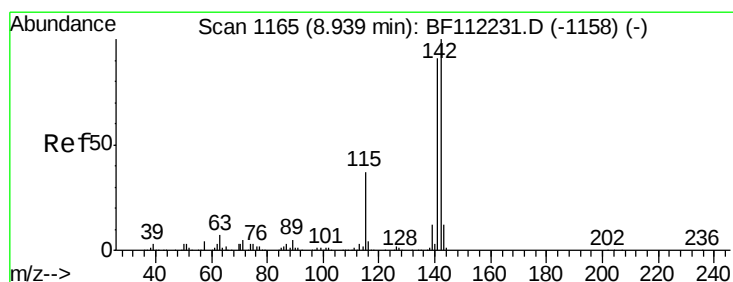
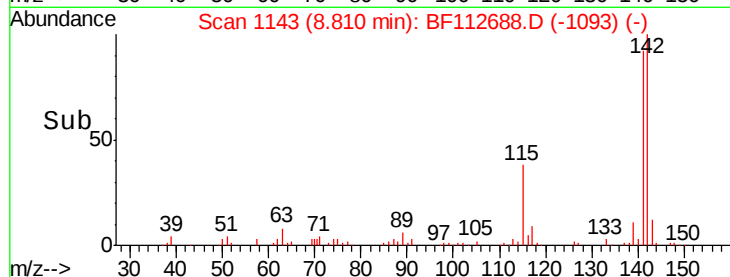
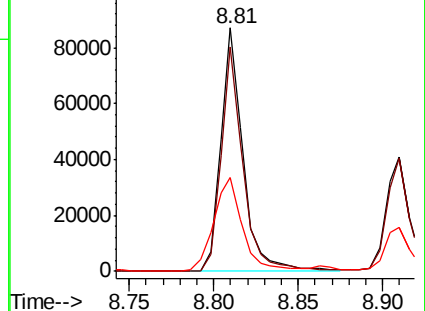
115 38.4 24.9 37.3#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

1-Methylnaphthalene

Concen: 5.038 ng

RT: 8.91 min Scan# 1160

Delta R.T. -0.00 min

Lab File: BF112688.D

Acq: 25 Feb 2019 13:20

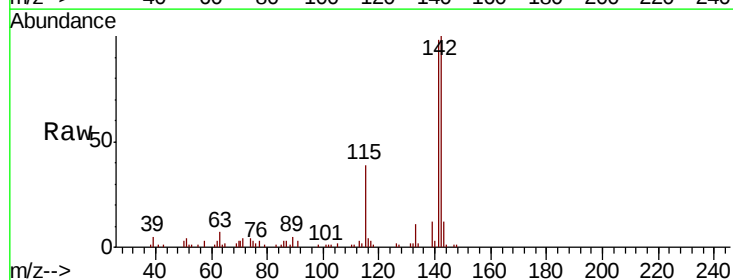
Tgt Ion:142 Resp: 41181

Ion Ratio Lower Upper

142 100

141 98.1 72.6 108.8

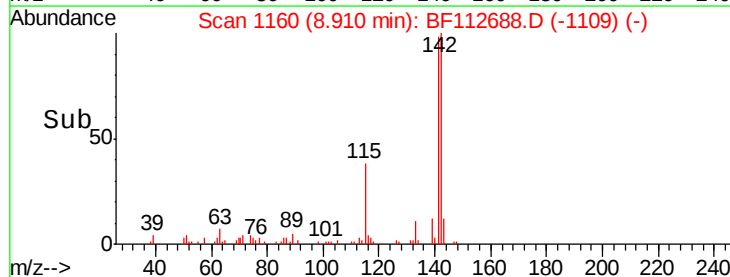
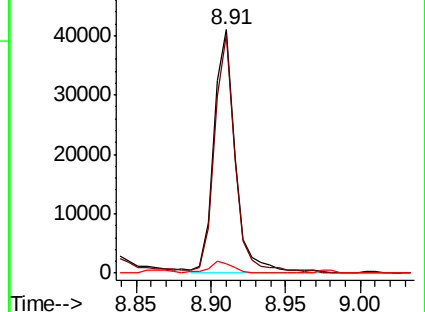
116 4.0 2.8 4.2

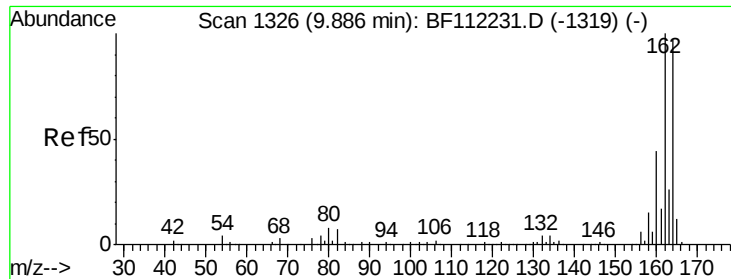


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

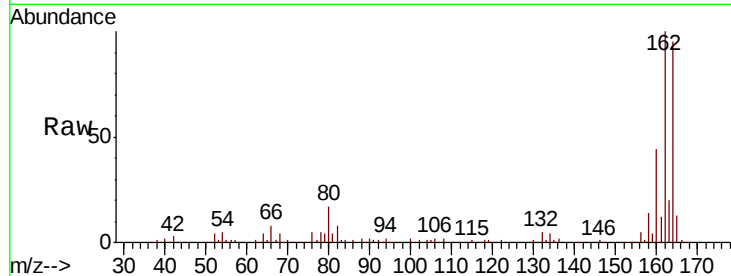




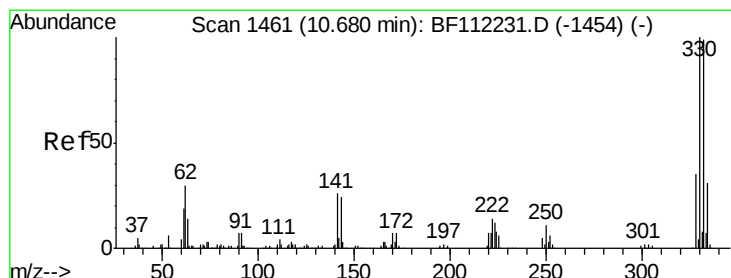
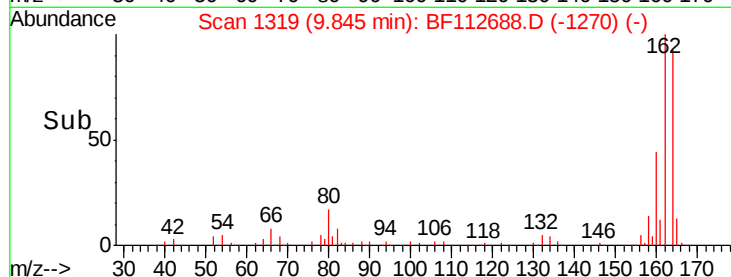
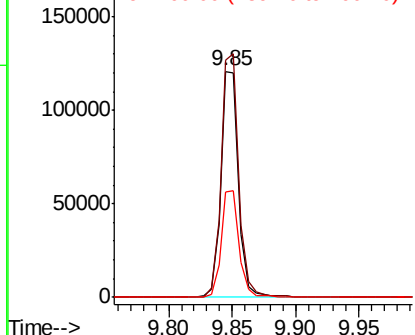
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.85 min Scan# 1319  
Delta R.T. -0.01 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Instrument :  
BNA\_F  
ClientSampleId :  
TP-CBF-B10

Tot Ion:164 Resp: 117840  
Ion Ratio Lower Upper  
164 100  
162 105.1 82.2 123.4  
160 46.5 36.2 54.4

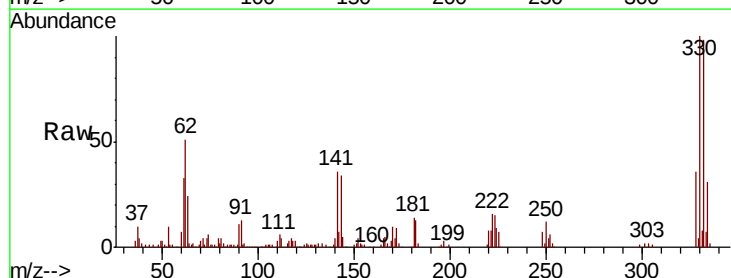


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

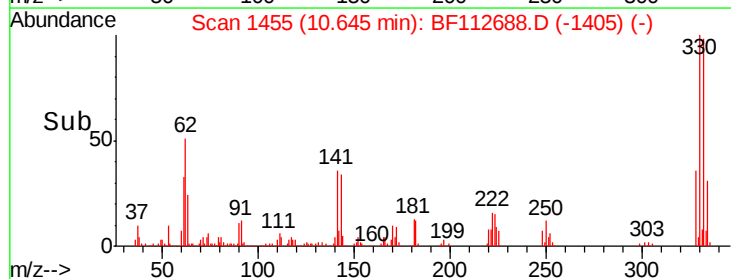
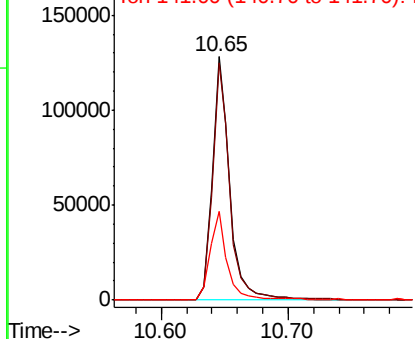


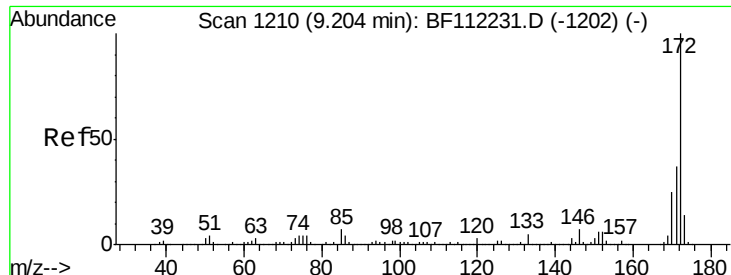
#42  
2,4,6-Tribromophenol  
Concen: 90.434 ng  
RT: 10.65 min Scan# 1455  
Delta R.T. -0.01 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Tgt Ion:330 Resp: 124042  
Ion Ratio Lower Upper  
330 100  
332 97.9 76.6 114.8  
141 35.4 24.3 36.5



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

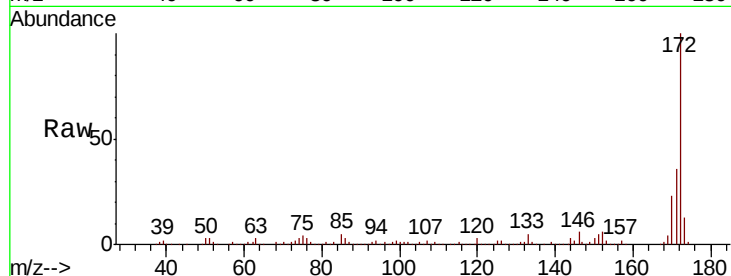




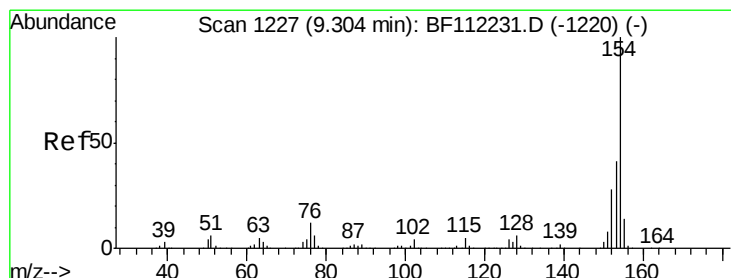
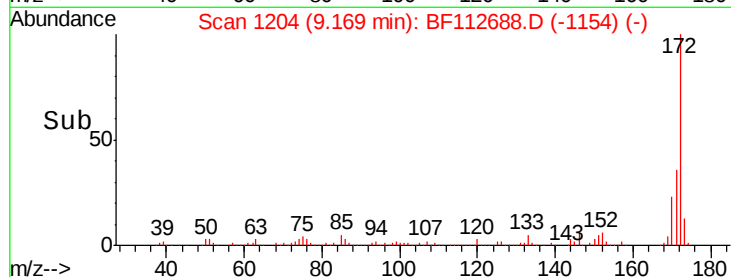
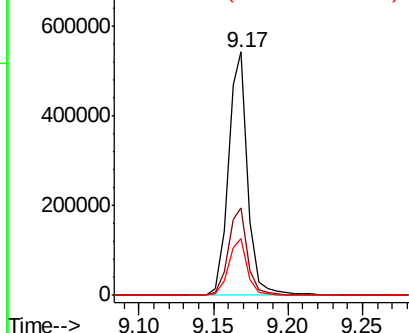
#45  
2-Fluorobiphenyl  
Concen: 59.617 ng  
RT: 9.17 min Scan# 1204  
Delta R.T. -0.01 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Instrument :  
BNA\_F  
ClientSampleId :  
TP-CBF-B10

Tot Ion:172 Resp: 496716  
Ion Ratio Lower Upper  
172 100  
171 35.8 30.5 45.7  
170 23.5 20.2 30.4

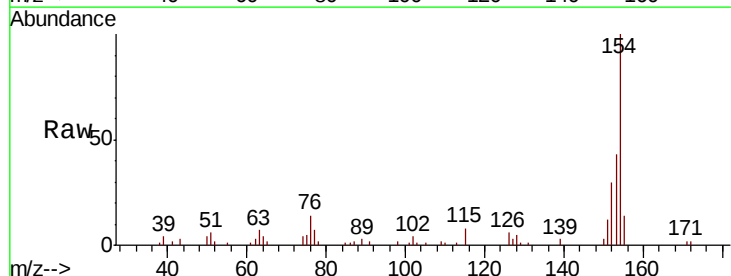


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

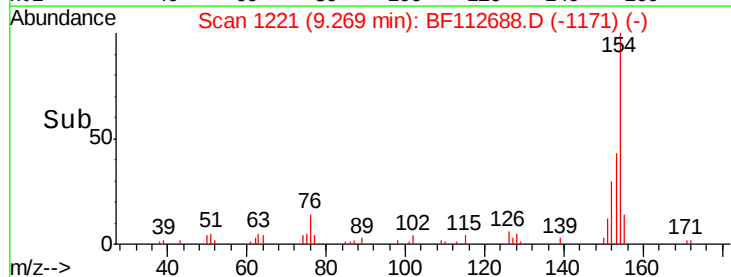
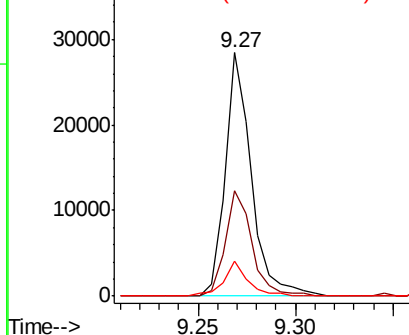


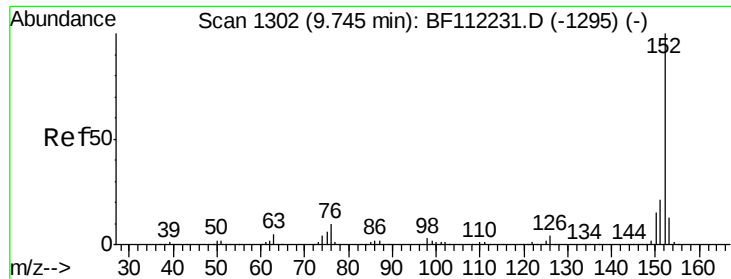
#46  
1,1'-Biphenyl  
Concen: 2.557 ng  
RT: 9.27 min Scan# 1221  
Delta R.T. -0.01 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Tgt Ion:154 Resp: 26347  
Ion Ratio Lower Upper  
154 100  
153 43.4 21.5 61.5  
76 14.4 0.0 33.1



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





#49

Acenaphthylene

Concen: 2.211 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.00 min

Lab File: BF112688.D

Acq: 25 Feb 2019 13:20

Instrument :

BNA\_F

ClientSampleId :

TP-CBF-B10

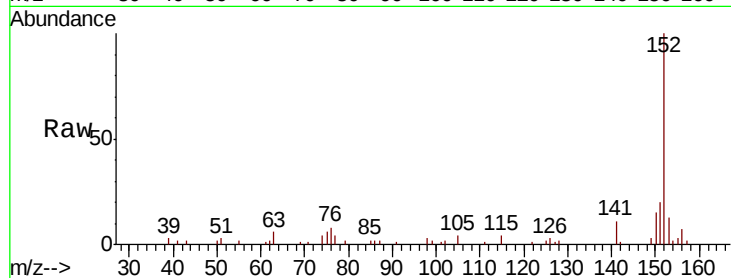
Tot Ion:152 Resp: 25890

Ion Ratio Lower Upper

152 100

151 19.6 17.0 25.6

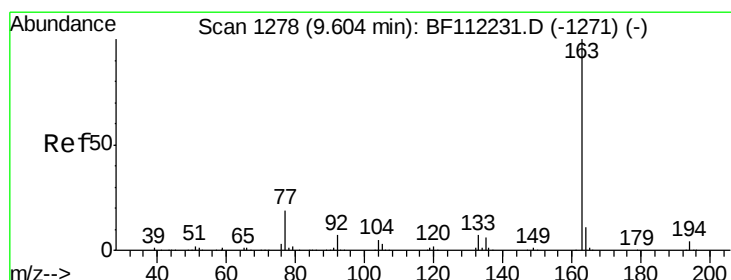
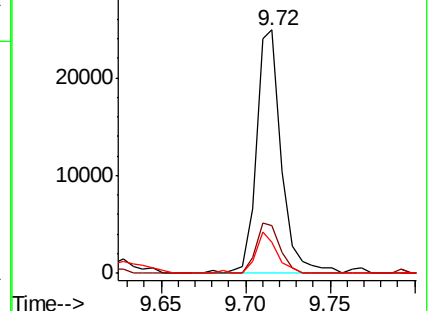
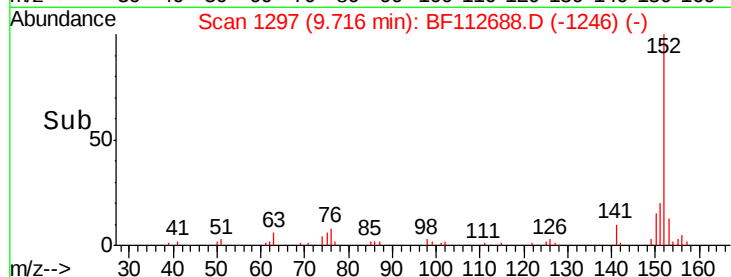
153 12.6 11.2 16.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 4.821 ng

RT: 9.56 min Scan# 1271

Delta R.T. -0.02 min

Lab File: BF112688.D

Acq: 25 Feb 2019 13:20

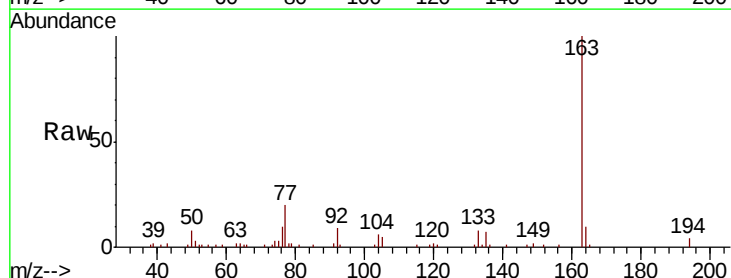
Tgt Ion:163 Resp: 44143

Ion Ratio Lower Upper

163 100

194 3.8 3.3 4.9

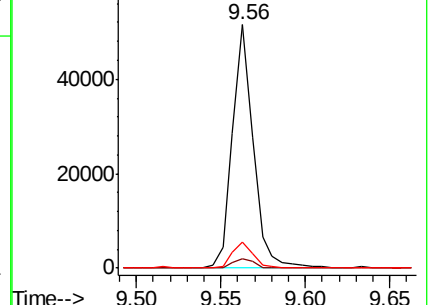
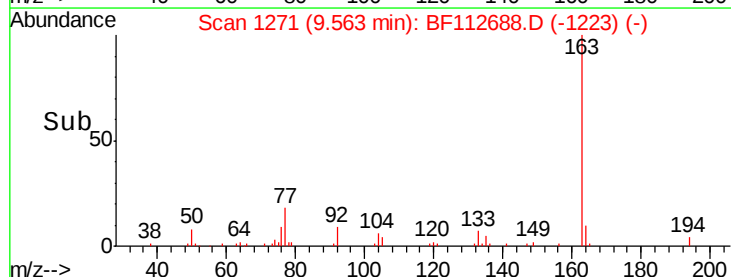
164 10.4 8.5 12.7

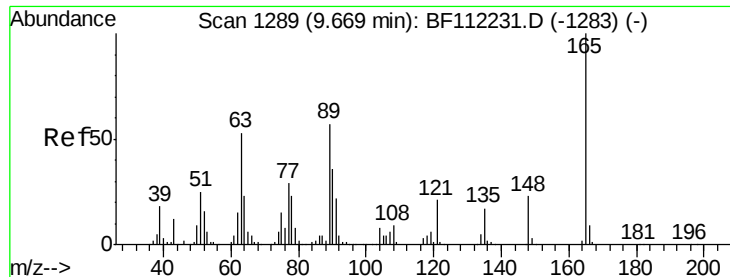


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

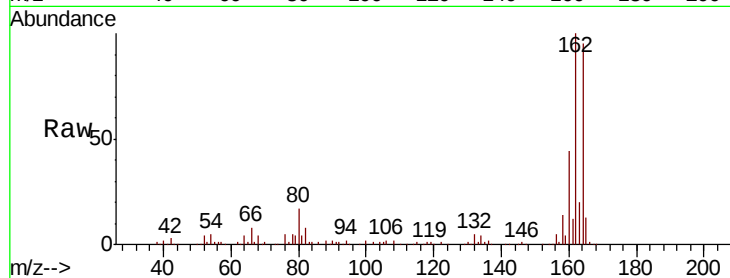




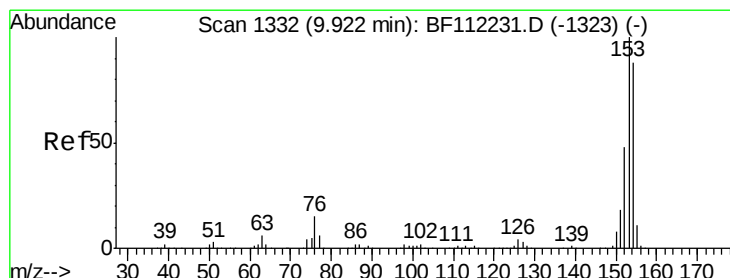
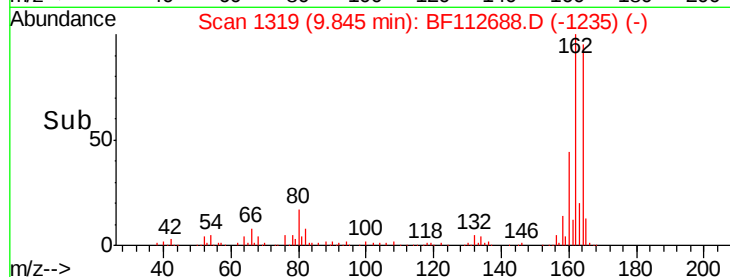
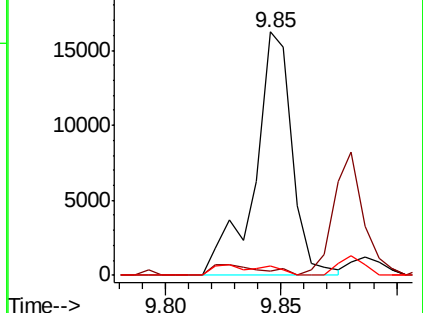
#51  
 2,6-Dinitrotoluene  
 Concen: 8.933 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. 0.19 min  
 Lab File: BF112688.D  
 Acq: 25 Feb 2019 13:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-CBF-B10

Tot Ion:165 Resp: 18317  
 Ion Ratio Lower Upper  
 165 100  
 63 1.9 33.8 50.8#  
 89 3.7 36.9 55.3#

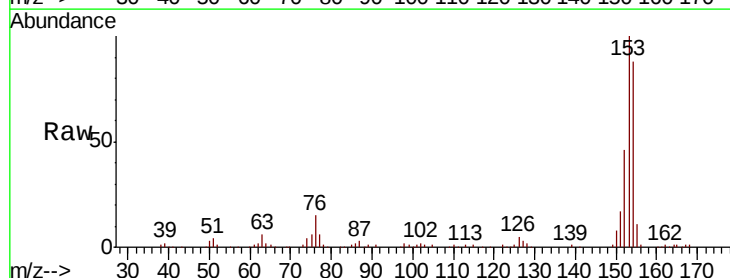


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

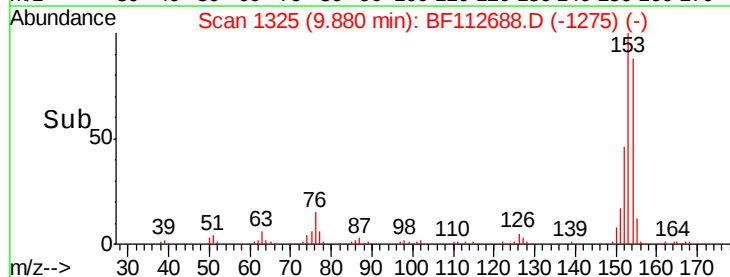
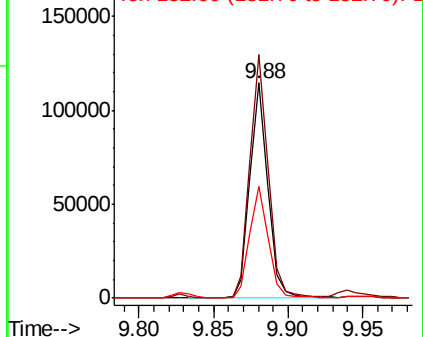


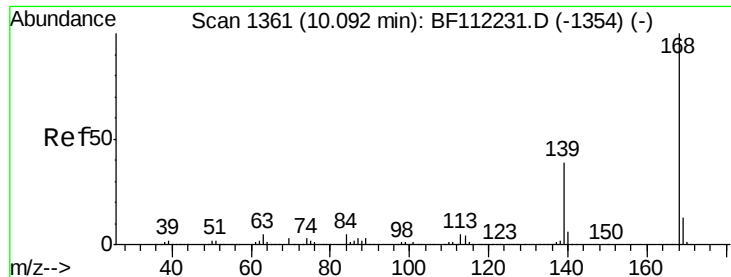
#52  
 Acenaphthene  
 Concen: 13.756 ng  
 RT: 9.88 min Scan# 1325  
 Delta R.T. -0.01 min  
 Lab File: BF112688.D  
 Acq: 25 Feb 2019 13:20

Tgt Ion:154 Resp: 96223  
 Ion Ratio Lower Upper  
 154 100  
 153 113.1 89.8 134.6  
 152 51.8 43.5 65.3



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

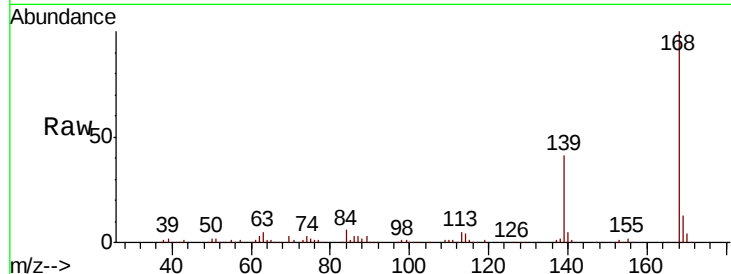




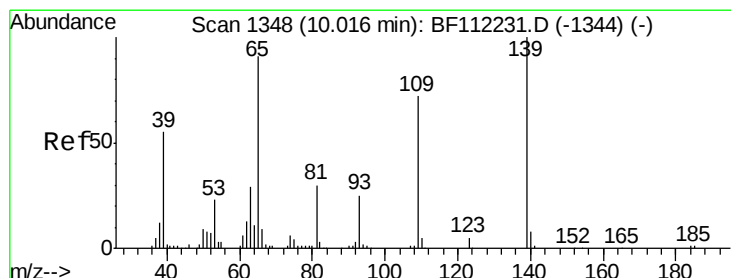
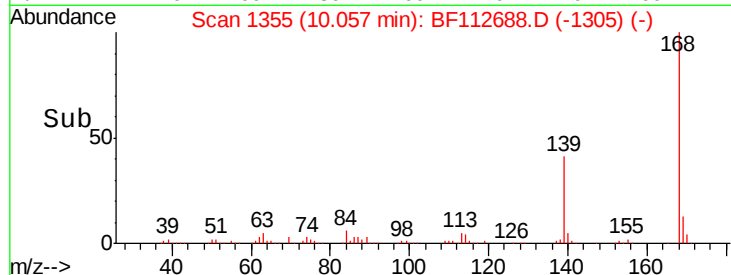
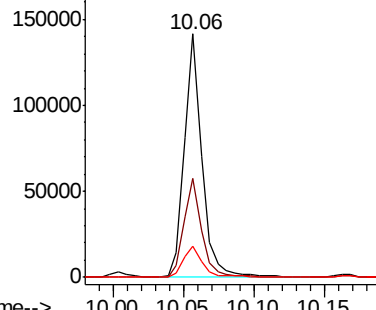
#55  
Dibenzenofuran  
Concen: 11.605 ng  
RT: 10.06 min Scan# 1355  
Delta R.T. -0.01 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Instrument :  
BNA\_F  
ClientSampleId :  
TP-CBF-B10

Tot Ion:168 Resp: 124045  
Ion Ratio Lower Upper  
168 100  
139 40.6 29.2 43.8  
169 12.7 11.4 17.0

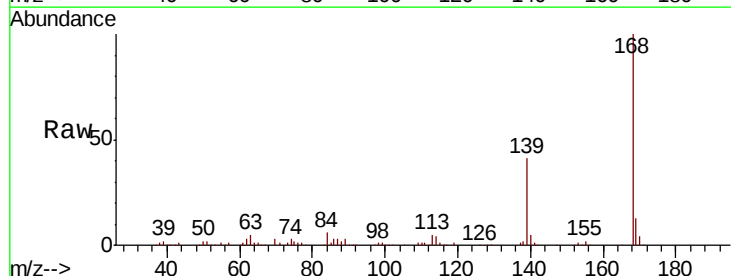


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

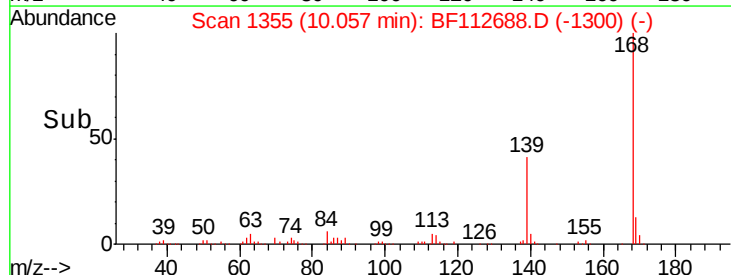
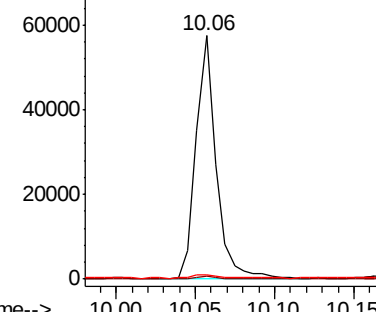


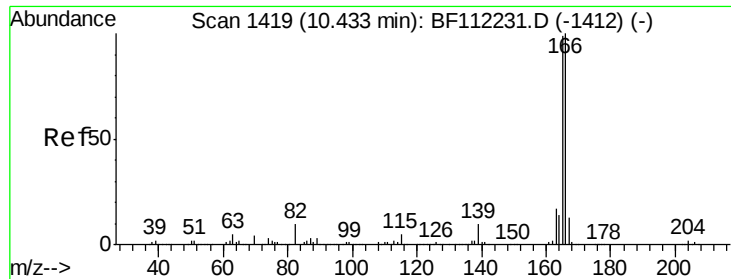
#56  
4-Nitrophenol  
Concen: 43.454 ng  
RT: 10.06 min Scan# 1355  
Delta R.T. 0.02 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Tgt Ion:139 Resp: 51035  
Ion Ratio Lower Upper  
139 100  
109 1.4 42.8 82.8#  
65 1.7 66.1 106.1#



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





#58

Fluorene

Concen: 18.176 ng

RT: 10.40 min Scan# 1413

Delta R.T. -0.01 min

Lab File: BF112688.D

Acq: 25 Feb 2019 13:20

Instrument :

BNA\_F

ClientSampleId :

TP-CBF-B10

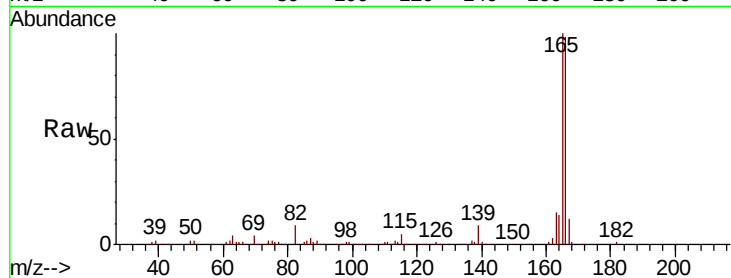
Tot Ion:166 Resp: 145388

Ion Ratio Lower Upper

166 100

165 101.7 77.1 115.7

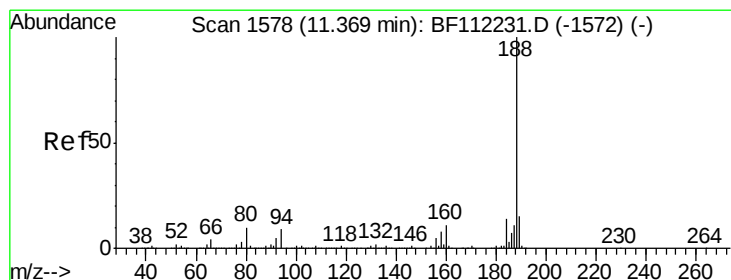
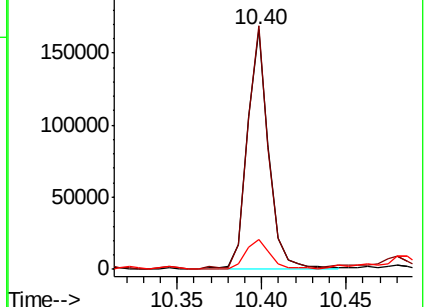
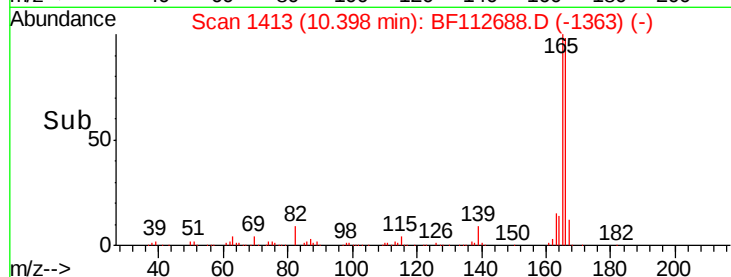
167 12.7 11.3 16.9



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.01 min

Lab File: BF112688.D

Acq: 25 Feb 2019 13:20

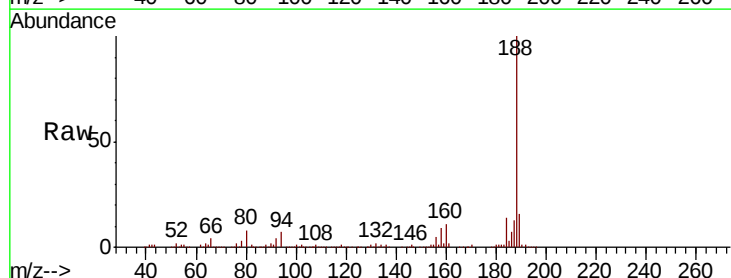
Tgt Ion:188 Resp: 189965

Ion Ratio Lower Upper

188 100

94 7.4 8.2 12.2#

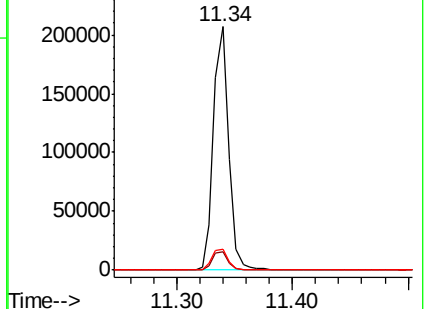
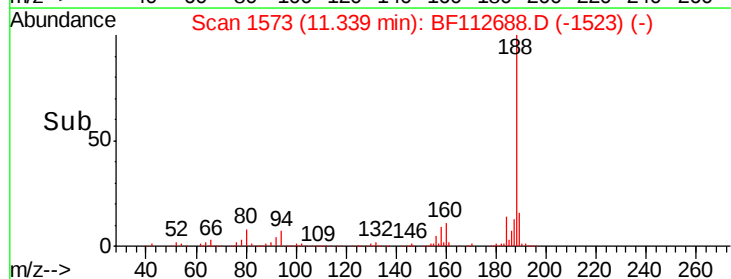
80 8.5 8.9 13.3#

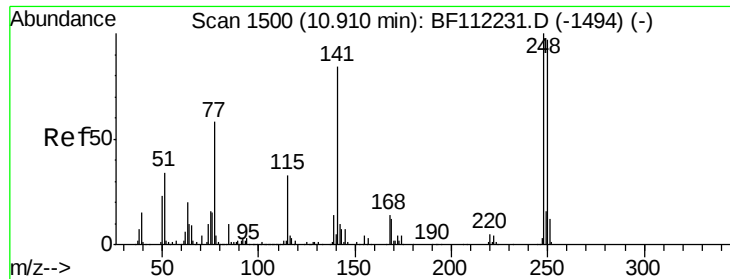


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

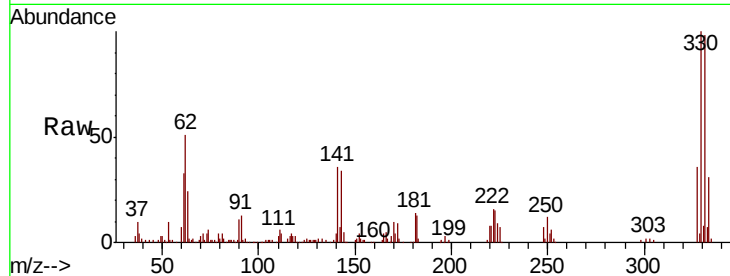




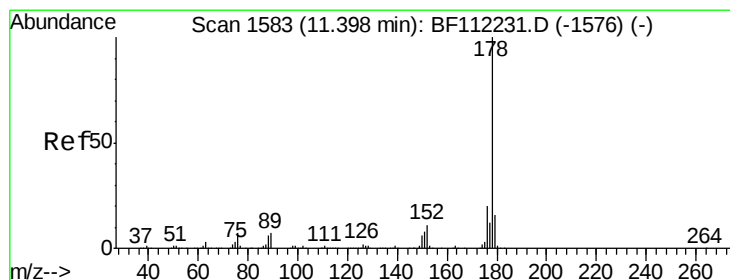
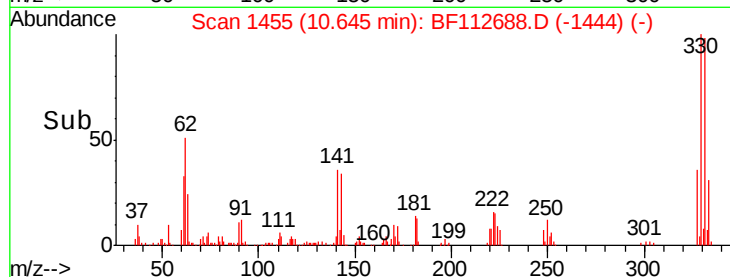
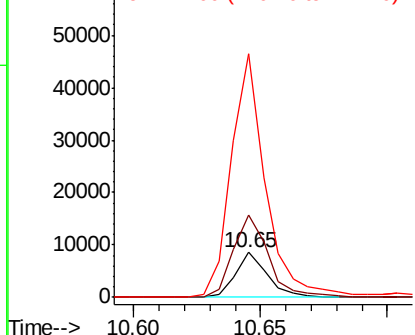
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.295 ng  
 RT: 10.65 min Scan# 1455  
 Delta R.T. -0.24 min  
 Lab File: BF112688.D  
 Acq: 25 Feb 2019 13:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-CBF-B10

Tot Ion:248 Resp: 7361  
 Ion Ratio Lower Upper  
 248 100  
 250 184.4 79.7 119.5#  
 141 545.6 60.3 90.5#

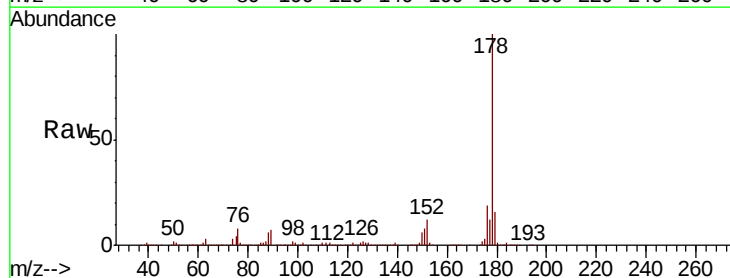


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

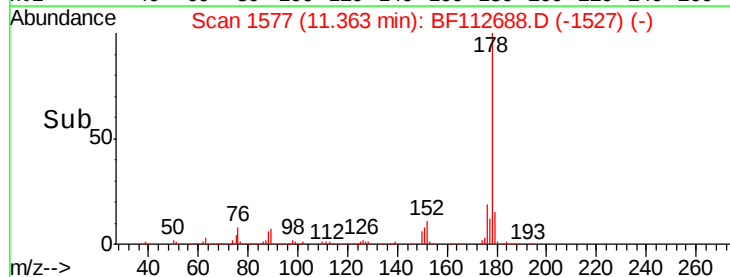
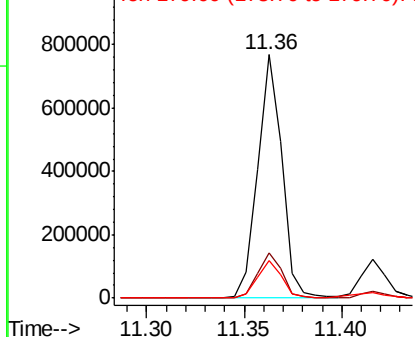


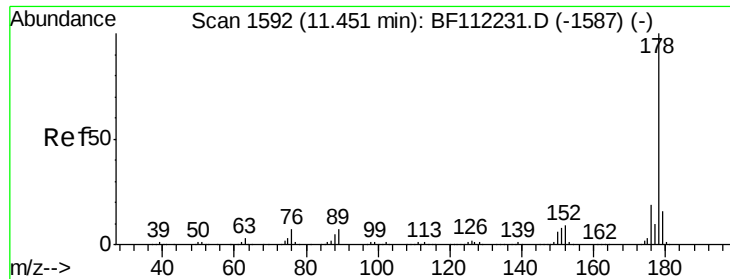
#71  
 Phenanthrene  
 Concen: 67.050 ng  
 RT: 11.36 min Scan# 1577  
 Delta R.T. -0.01 min  
 Lab File: BF112688.D  
 Acq: 25 Feb 2019 13:20

Tgt Ion:178 Resp: 662189  
 Ion Ratio Lower Upper  
 178 100  
 176 18.7 16.3 24.5  
 179 15.5 13.0 19.4



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

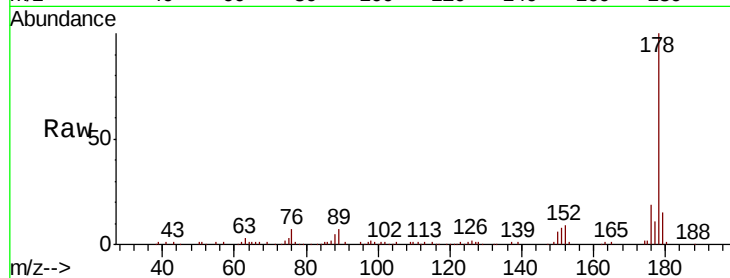




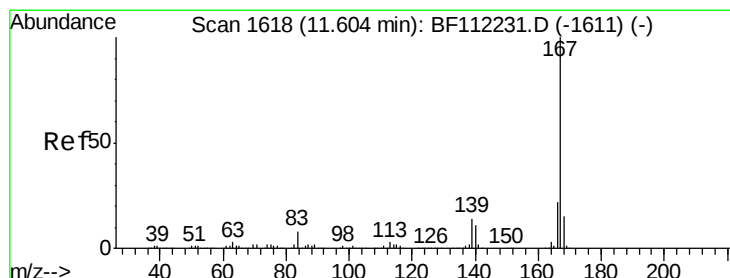
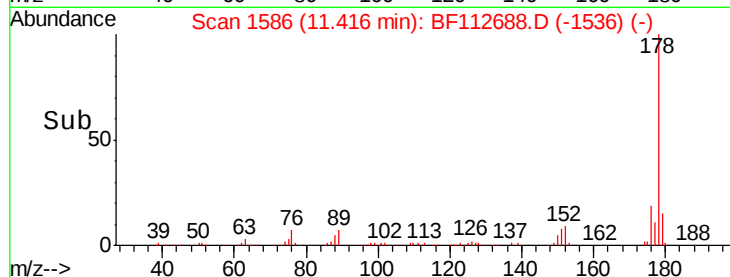
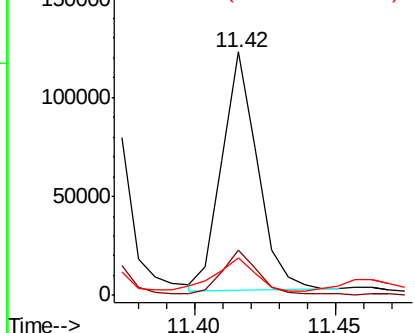
#72  
 Anthracene  
 Concen: 10.724 ng  
 RT: 11.42 min Scan# 1586  
 Delta R.T. -0.01 min  
 Lab File: BF112688.D  
 Acq: 25 Feb 2019 13:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-CBF-B10

Tot Ion:178 Resp: 105502  
 Ion Ratio Lower Upper  
 178 100  
 176 18.5 15.5 23.3  
 179 15.4 12.8 19.2

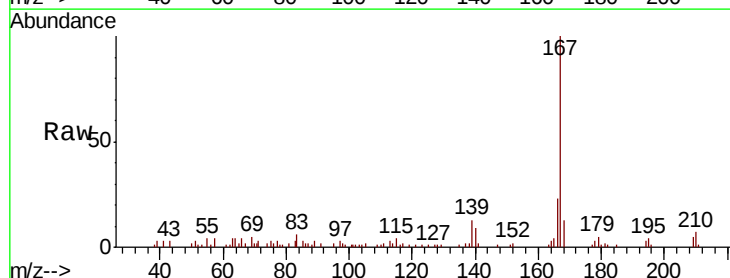


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

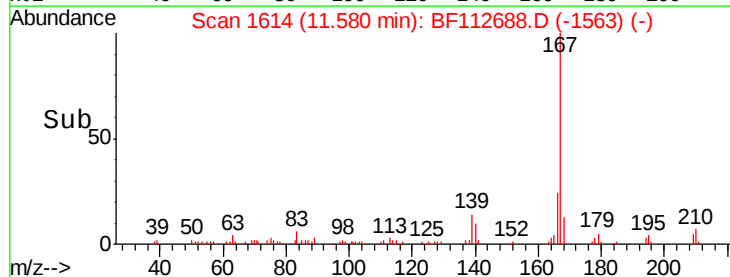
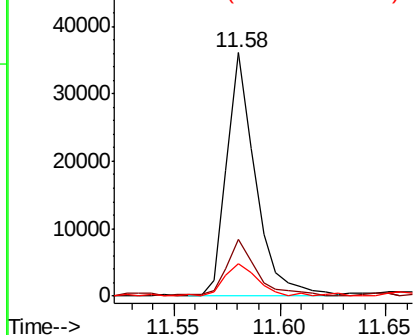


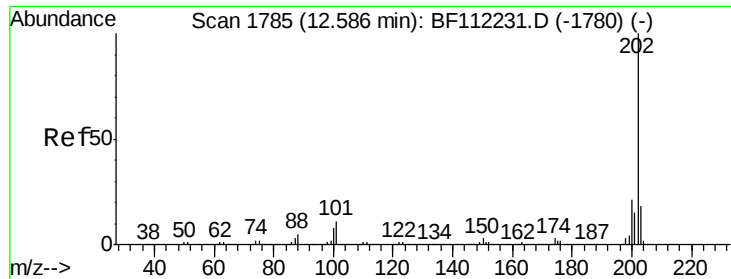
#73  
 Carbazole  
 Concen: 3.528 ng  
 RT: 11.58 min Scan# 1614  
 Delta R.T. -0.00 min  
 Lab File: BF112688.D  
 Acq: 25 Feb 2019 13:20

Tgt Ion:167 Resp: 34241  
 Ion Ratio Lower Upper  
 167 100  
 166 23.4 17.9 26.9  
 139 13.4 10.2 15.2



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: 46.709 ng

RT: 12.56 min Scan# 1780

Delta R.T. -0.00 min

Lab File: BF112688.D

Acq: 25 Feb 2019 13:20

Instrument :

BNA\_F

ClientSampleId :

TP-CBF-B10

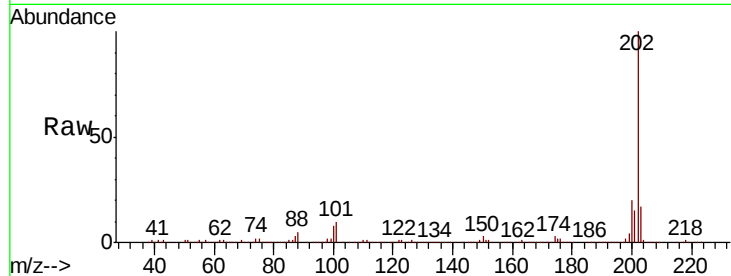
Tot Ion:202 Resp: 494772

Ion Ratio Lower Upper

202 100

101 10.0 0.0 31.8

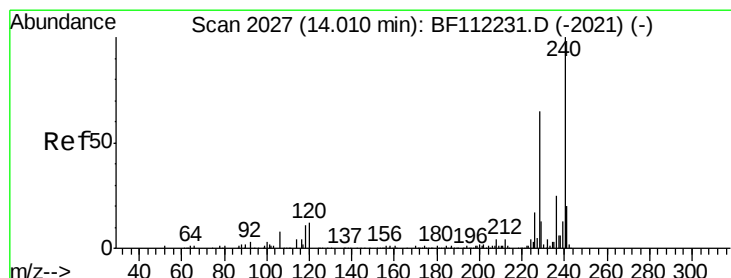
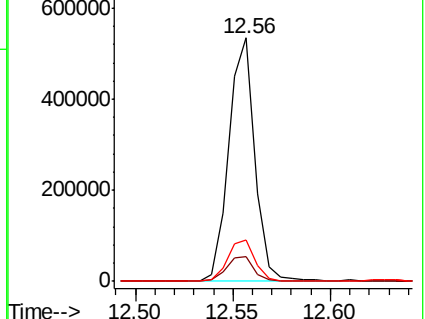
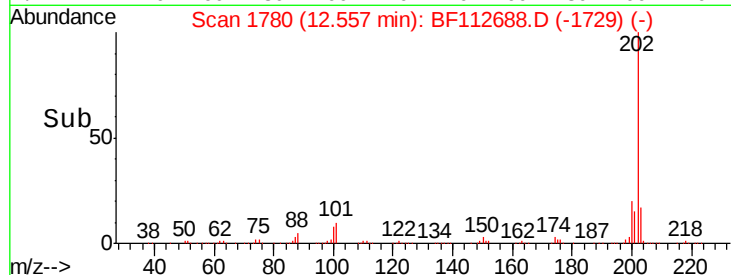
203 16.9 0.0 38.4



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: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF112688.D

Acq: 25 Feb 2019 13:20

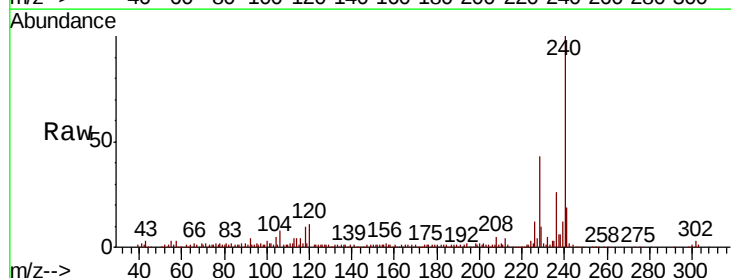
Tgt Ion:240 Resp: 174248

Ion Ratio Lower Upper

240 100

120 11.3 9.0 13.6

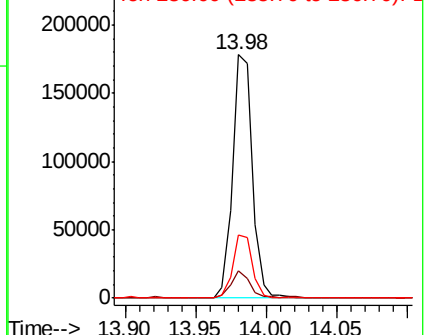
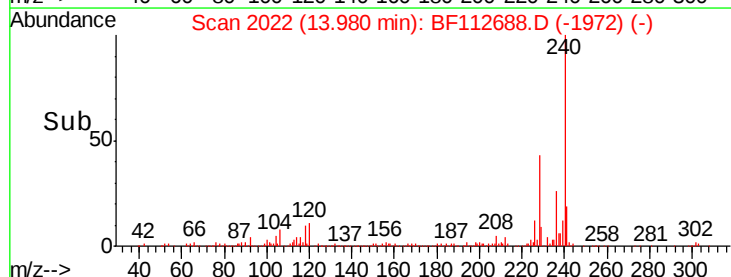
236 25.8 20.7 31.1

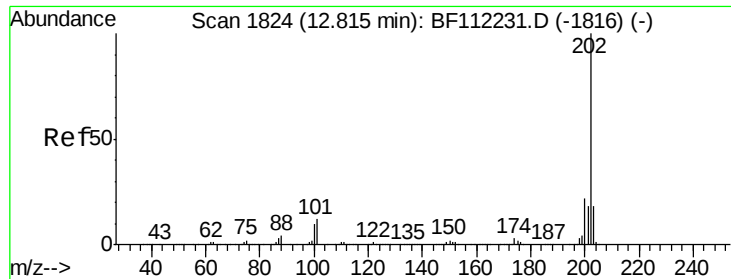


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

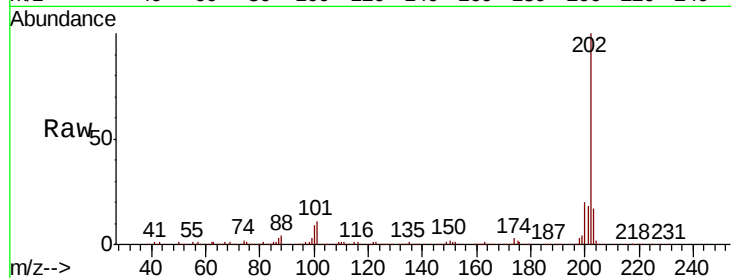




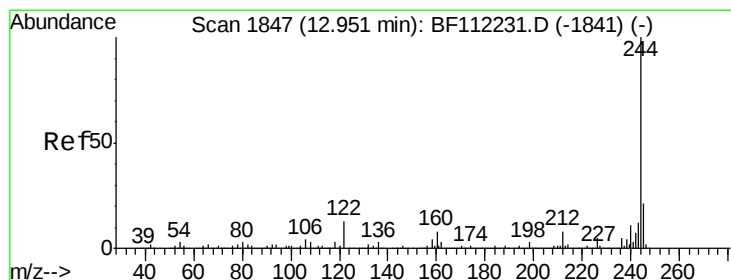
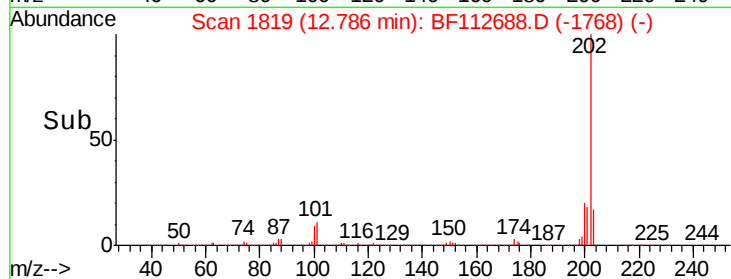
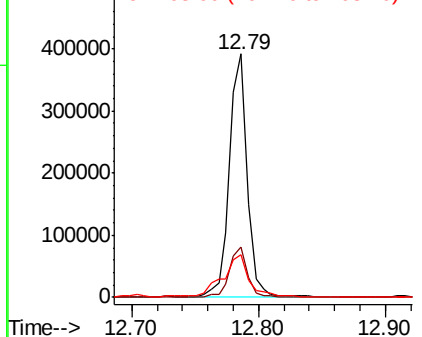
#78  
Pvrene  
Concen: 31.186 ng  
RT: 12.79 min Scan# 1819  
Delta R.T. -0.00 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Instrument :  
BNA\_F  
ClientSampleId :  
TP-CBF-B10

Tot Ion:202 Resp: 376222  
Ion Ratio Lower Upper  
202 100  
200 20.4 17.7 26.5  
203 17.3 14.6 22.0

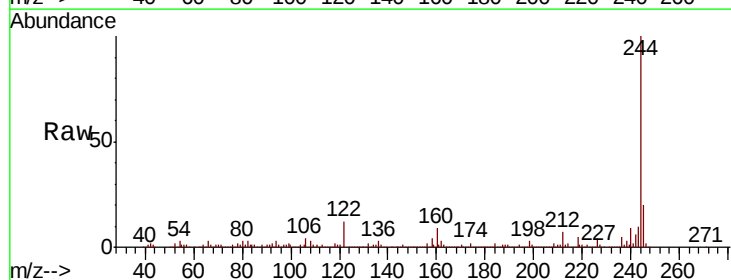


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E

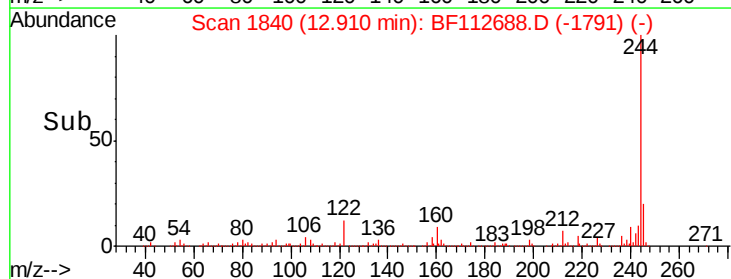
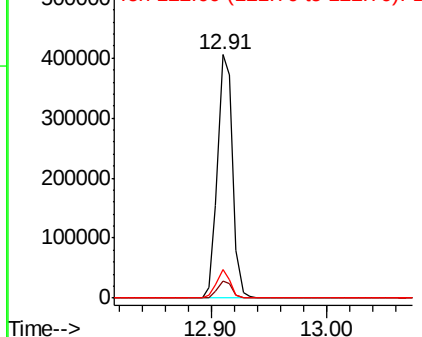


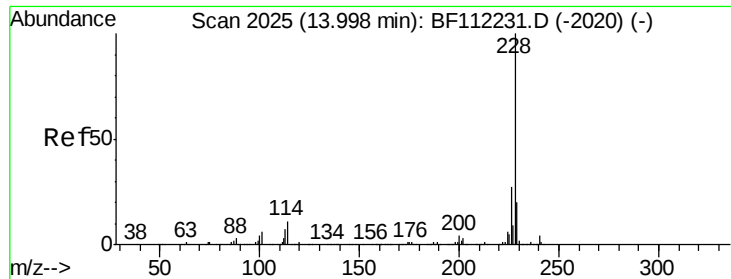
#79  
Terphenyl-d14  
Concen: 40.022 ng  
RT: 12.91 min Scan# 1840  
Delta R.T. -0.01 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Tgt Ion:244 Resp: 370266  
Ion Ratio Lower Upper  
244 100  
212 7.1 5.9 8.9  
122 11.7 9.8 14.6



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

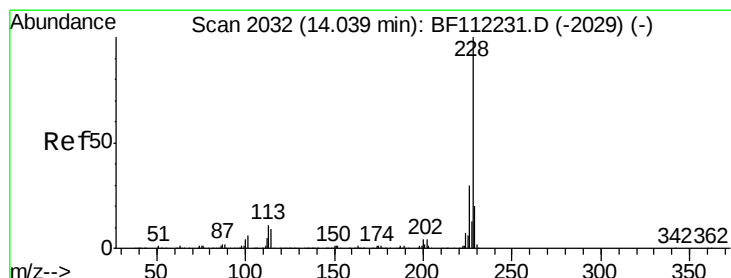
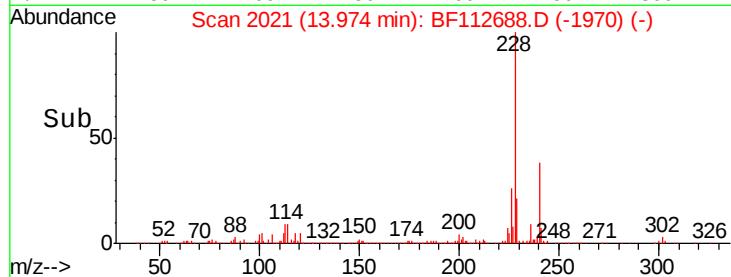
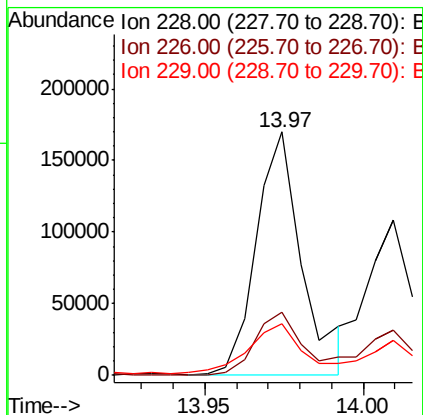
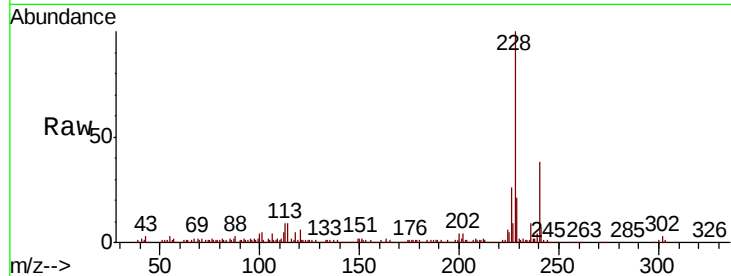




#81  
Benzo(a)anthracene  
Concen: 16.546 ng  
RT: 13.97 min Scan# 2021  
Delta R.T. -0.00 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

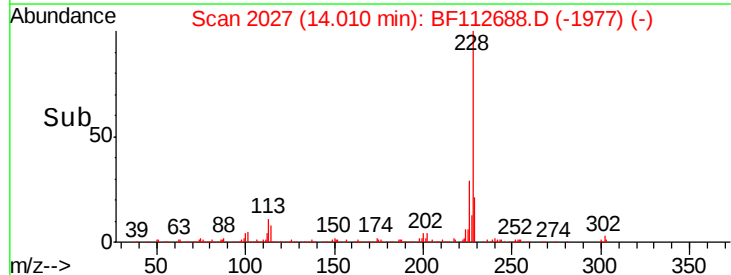
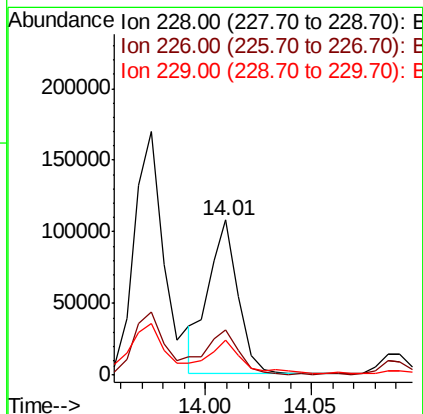
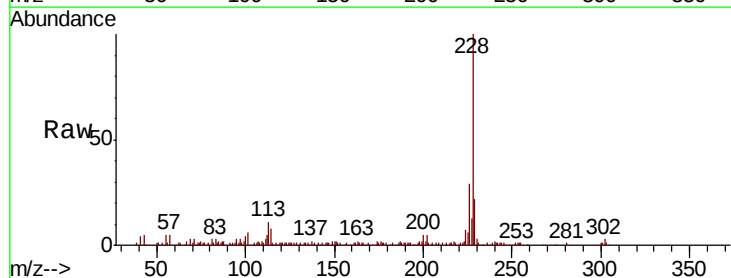
Instrument :  
BNA\_F  
ClientSampleId :  
TP-CBF-B10

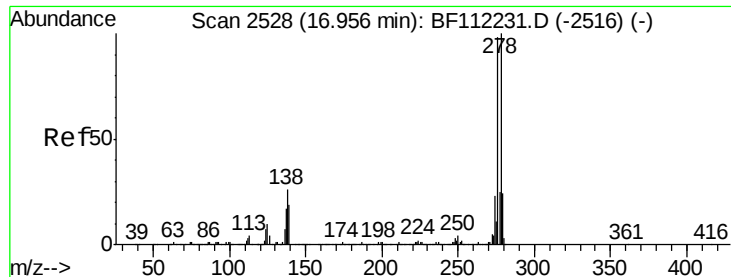
Tot Ion:228 Resp: 169485  
Ion Ratio Lower Upper  
228 100  
226 26.2 22.6 34.0  
229 21.2 16.5 24.7



#83  
Chrysene  
Concen: 10.799 ng  
RT: 14.01 min Scan# 2027  
Delta R.T. -0.01 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Tgt Ion:228 Resp: 105589  
Ion Ratio Lower Upper  
228 100  
226 29.0 25.0 37.6  
229 22.4 16.6 24.8

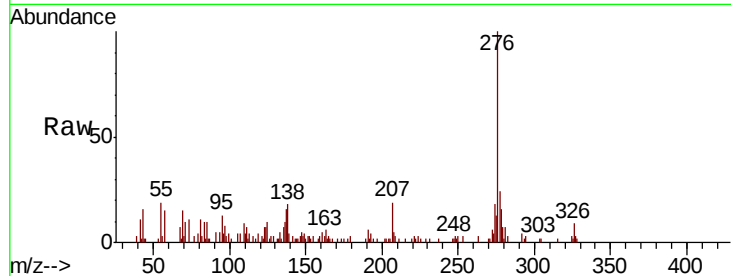




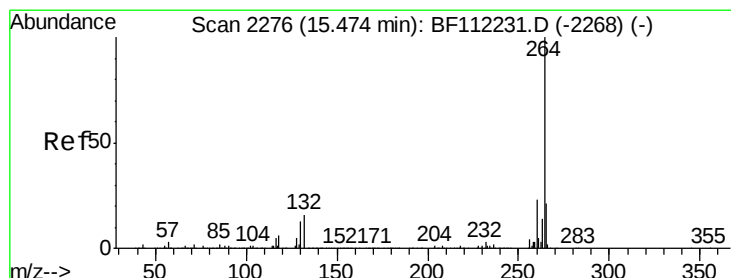
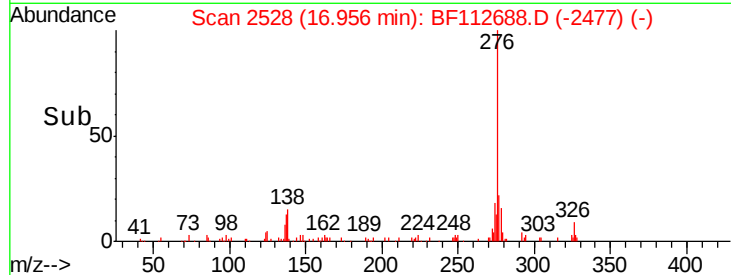
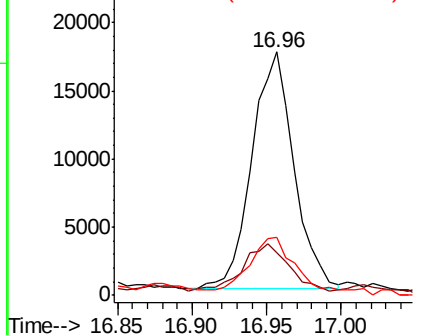
#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 4.363 ng  
 RT: 16.96 min Scan# 2528  
 Delta R.T. -0.00 min  
 Lab File: BF112688.D  
 Acq: 25 Feb 2019 13:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-CBF-B10

Tot Ion:276 Resp: 33801  
 Ion Ratio Lower Upper  
 276 100  
 138 27.0 22.6 34.0  
 277 29.2 20.3 30.5

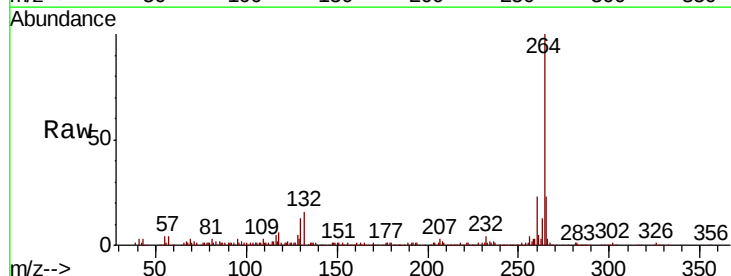


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

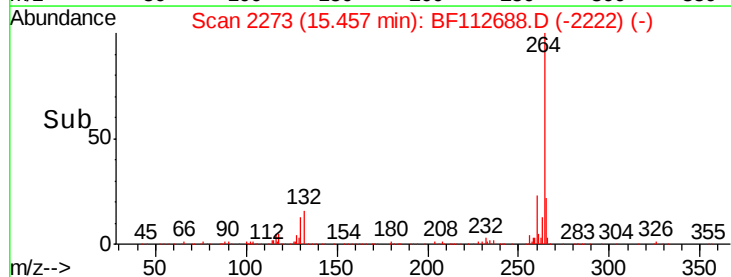
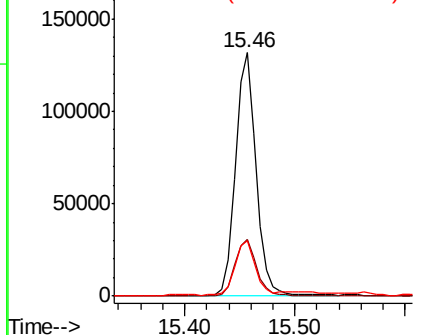


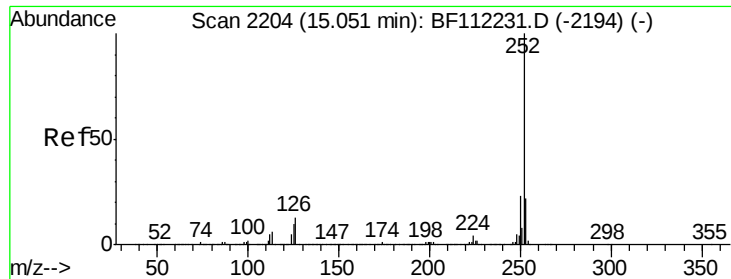
#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.46 min Scan# 2273  
 Delta R.T. -0.00 min  
 Lab File: BF112688.D  
 Acq: 25 Feb 2019 13:20

Tgt Ion:264 Resp: 173607  
 Ion Ratio Lower Upper  
 264 100  
 260 23.2 18.2 27.2  
 265 22.6 17.0 25.4



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

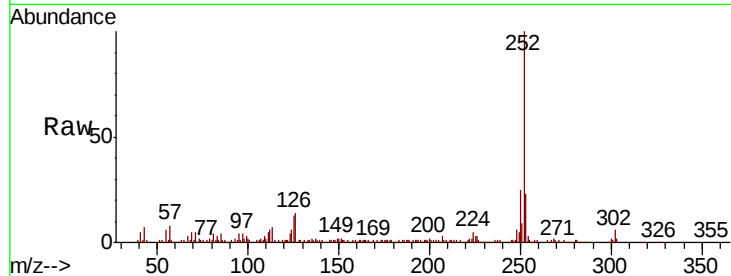




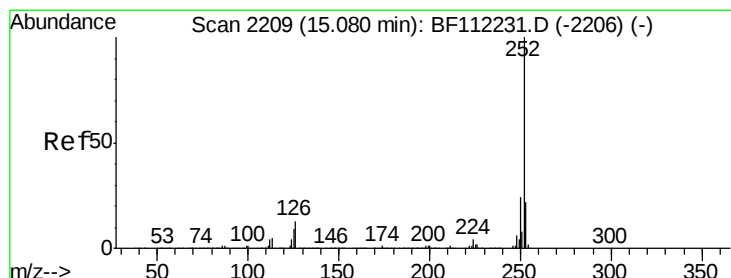
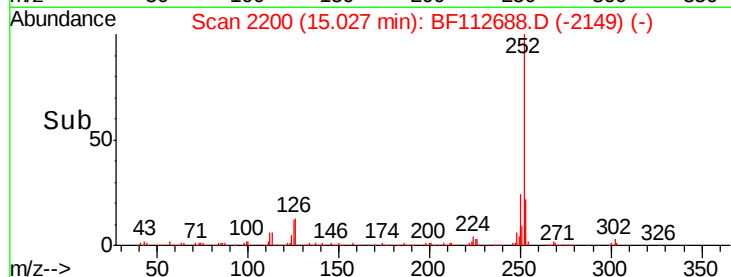
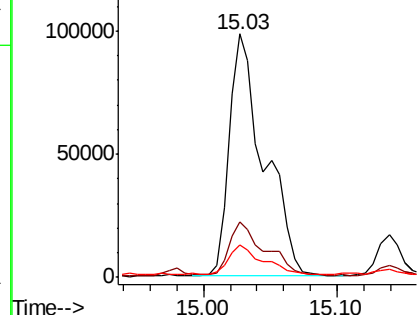
#88  
Benzo(b)fluoranthene  
Concen: 17.273 ng  
RT: 15.03 min Scan# 2200  
Delta R.T. -0.00 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

Instrument :  
BNA\_F  
ClientSampleId :  
TP-CBF-B10

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.0  | 27.0  |
| 125     | 13.3  | 8.7   | 13.1# |

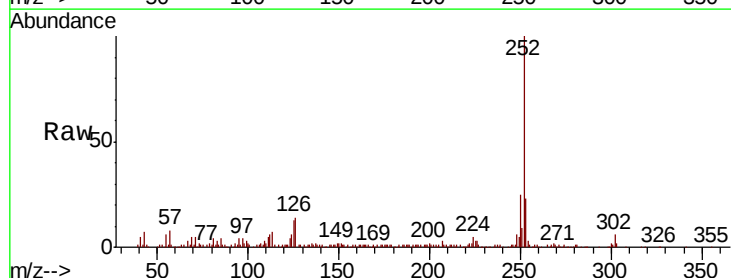


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

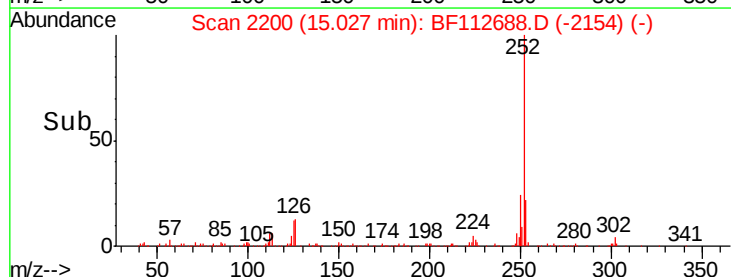
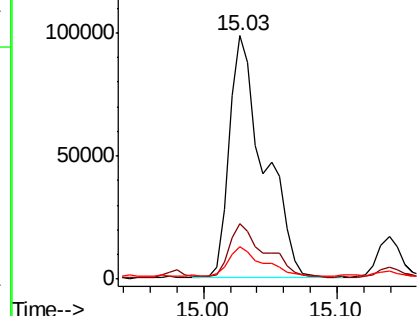


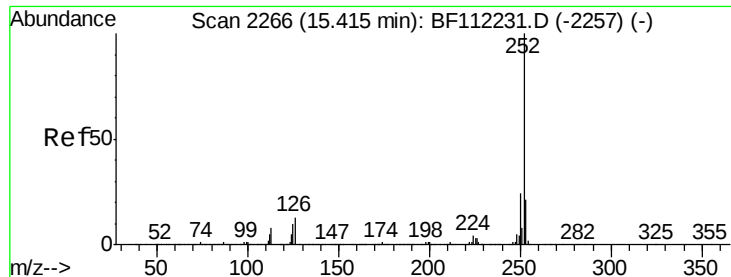
#89  
Benzo(k)fluoranthene  
Concen: 18.033 ng  
RT: 15.03 min Scan# 2200  
Delta R.T. -0.03 min  
Lab File: BF112688.D  
Acq: 25 Feb 2019 13:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.0  | 27.0  |
| 125     | 13.3  | 9.1   | 13.7  |



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





#90

Benzo(a)pyrene

Concen: 8.919 ng

RT: 15.40 min Scan# 2263

Delta R.T. -0.00 min

Lab File: BF112688.D

Acq: 25 Feb 2019 13:20

Instrument :

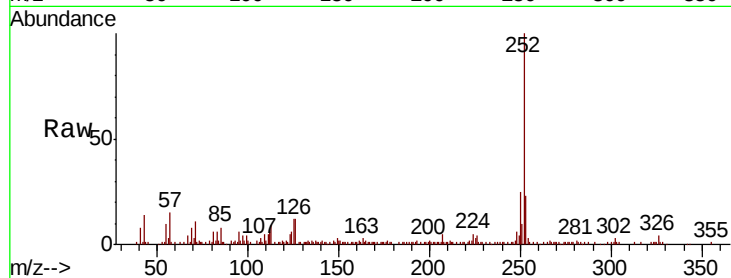
BNA\_F

ClientSampleId :

TP-CBF-B10

Tot Ion:252 Resp: 83320

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.9  | 17.5  | 26.3  |
| 125 | 12.1  | 9.0   | 13.4  |

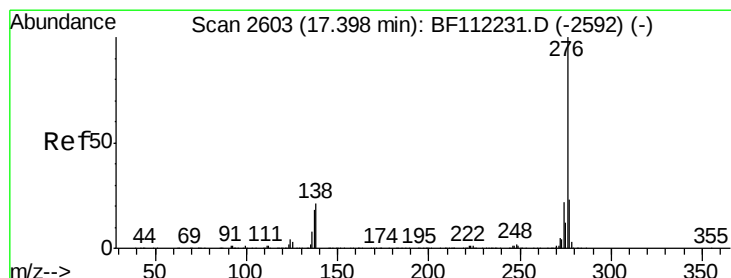
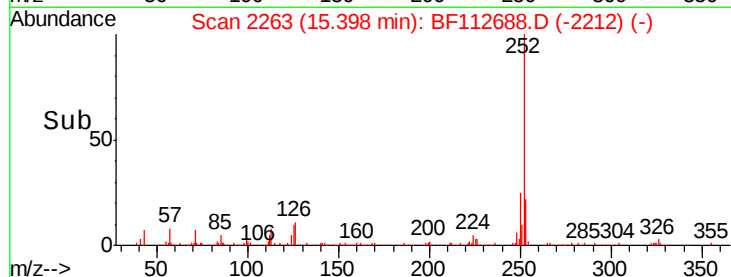
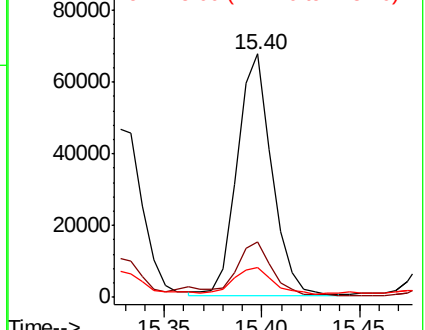


Abundance

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



#92

Benzo(g,h,i)perylene

Concen: 4.283 ng

RT: 17.40 min Scan# 2604

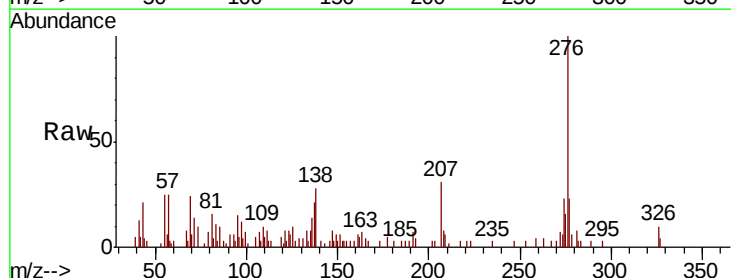
Delta R.T. 0.01 min

Lab File: BF112688.D

Acq: 25 Feb 2019 13:20

Tgt Ion:276 Resp: 30424

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 23.1  | 19.4  | 29.0  |
| 138 | 27.5  | 19.1  | 28.7  |



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

