

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF111517\  
 Data File : BF100585.D  
 Acq On : 15 Nov 2017 13:56  
 Operator : SJ/JU  
 Sample : I6441-07  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-10

Quant Time: Nov 15 15:35:38 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 15 13:27:38 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.88  | 152  | 146642   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 572662   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.92  | 164  | 251603   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 406514   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.04 | 240  | 270569   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.52 | 264  | 289629   | 20.00 | ng    | 0.00     |

|                             |       |     |         |       |    |      |
|-----------------------------|-------|-----|---------|-------|----|------|
| System Monitoring Compounds |       |     |         |       |    |      |
| 5) 2-Fluorophenol           | 5.51  | 112 | 860557  | 94.07 | ng | 0.01 |
| 7) Phenol-d6                | 6.51  | 99  | 1060317 | 93.99 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.45  | 82  | 646691  | 74.66 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 10.71 | 330 | 210041  | 81.92 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 9.24  | 172 | 913758  | 55.30 | ng | 0.00 |
| 78) Terphenyl-d14           | 12.99 | 244 | 521009  | 44.24 | ng | 0.00 |

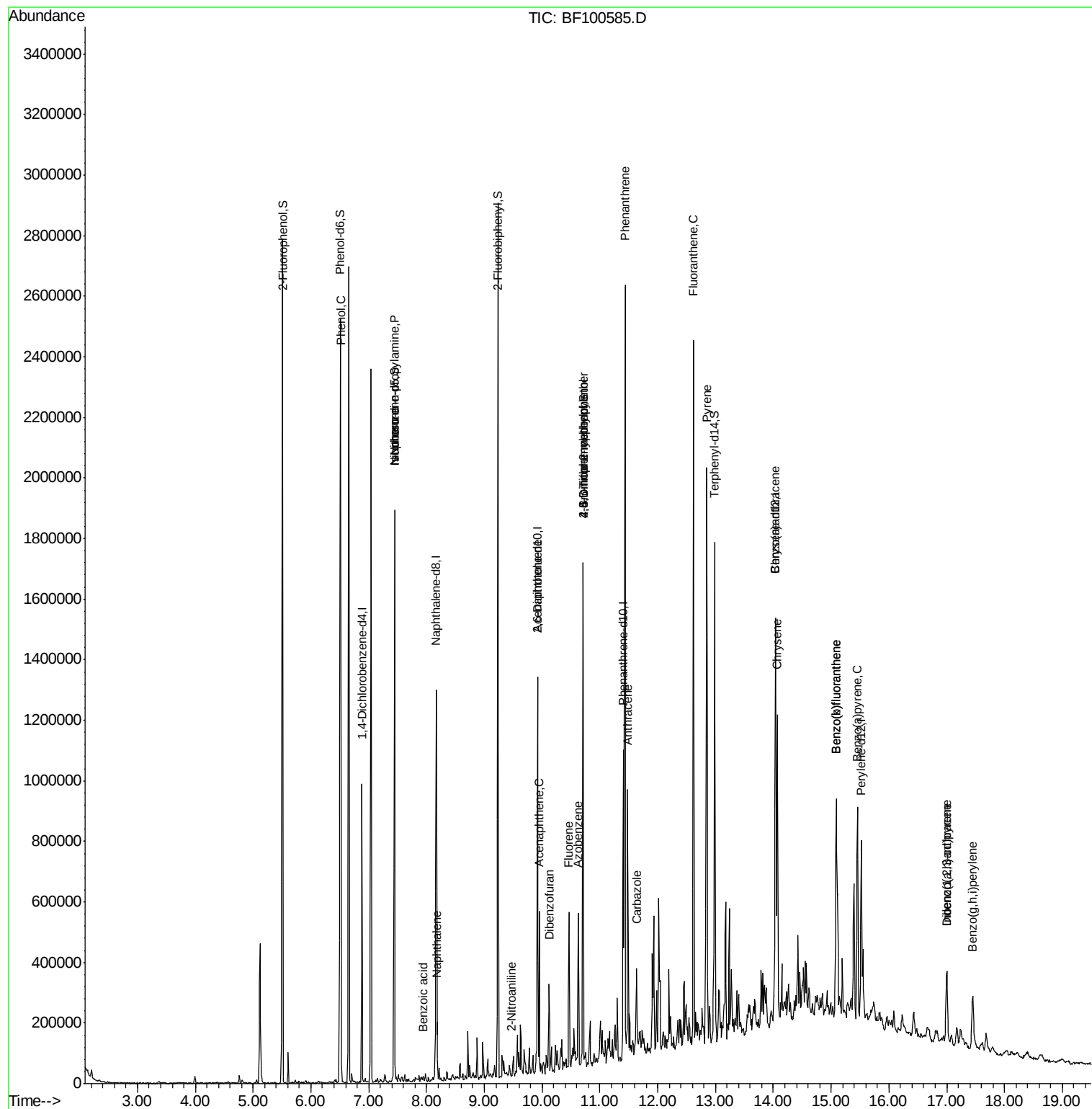
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 10) Phenol                     | 6.52  | 94  | 50662  | 4.278  | ng | 97   |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70  | 87224  | 11.149 | ng | # 81 |
| 25) Isophorone                 | 7.45  | 82  | 644251 | 35.394 | ng | # 64 |
| 31) Naphthalene                | 8.19  | 128 | 71641  | 2.597  | ng | 99   |
| 32) Benzoic acid               | 7.94  | 122 | 1807   | 9.603  | ng | # 32 |
| 47) 2-Nitroaniline             | 9.47  | 65  | 379    | 2.860  | ng | # 1  |
| 50) 2,6-Dinitrotoluene         | 9.92  | 165 | 36786  | 9.674  | ng | # 26 |
| 51) Acenaphthene               | 9.95  | 154 | 95738  | 6.017  | ng | 97   |
| 54) Dibenzofuran               | 10.12 | 168 | 83007  | 3.722  | ng | 95   |
| 57) Fluorene                   | 10.46 | 166 | 136984 | 8.385  | ng | 99   |
| 62) Azobenzene                 | 10.63 | 77  | 76957  | 4.250  | ng | # 1  |
| 64) 4,6-Dinitro-2-methylphenol | 10.71 | 198 | 476    | 8.760  | ng | # 1  |
| 66) 4-Bromophenyl-phenylether  | 10.71 | 248 | 12896  | 2.959  | ng | # 1  |
| 70) Phenanthrene               | 11.43 | 178 | 941731 | 43.999 | ng | 99   |
| 71) Anthracene                 | 11.48 | 178 | 304063 | 14.002 | ng | 99   |
| 72) Carbazole                  | 11.63 | 167 | 99301  | 4.956  | ng | 98   |
| 74) Fluoranthene               | 12.62 | 202 | 917810 | 40.461 | ng | 98   |
| 77) Pyrene                     | 12.85 | 202 | 797186 | 41.332 | ng | 99   |
| 80) Benzo(a)anthracene         | 14.03 | 228 | 436665 | 26.800 | ng | 98   |
| 82) Chrysene                   | 14.07 | 228 | 386392 | 24.489 | ng | 96   |
| 85) Indeno(1,2,3-cd)pyrene     | 17.00 | 276 | 159223 | 12.476 | ng | # 91 |
| 87) Benzo(b)fluoranthene       | 15.09 | 252 | 617093 | 35.963 | ng | 97   |
| 88) Benzo(k)fluoranthene       | 15.09 | 252 | 617093 | 38.062 | ng | 99   |
| 89) Benzo(a)pyrene             | 15.46 | 252 | 343236 | 22.563 | ng | 98   |
| 90) Dibenzo(a,h)anthracene     | 17.01 | 278 | 42553  | 3.421  | ng | 95   |
| 91) Benzo(g,h,i)perylene       | 17.45 | 276 | 143108 | 11.751 | ng | 94   |

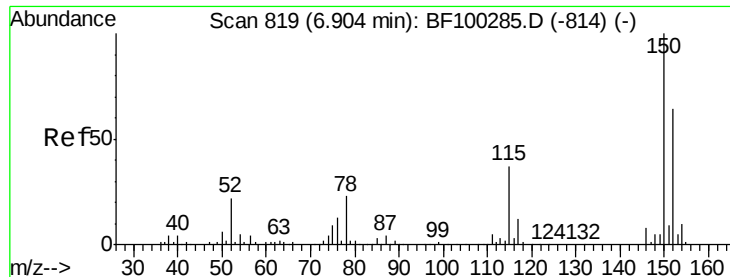
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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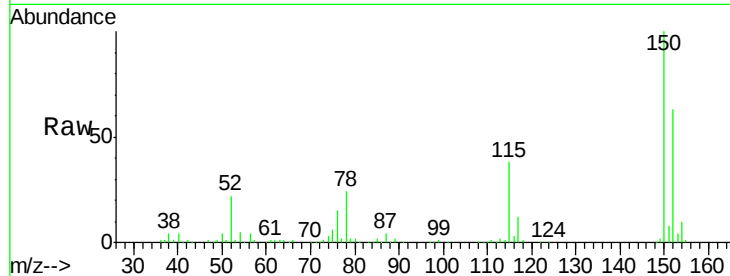


#1

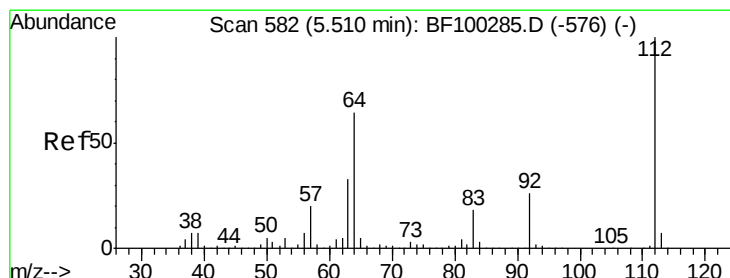
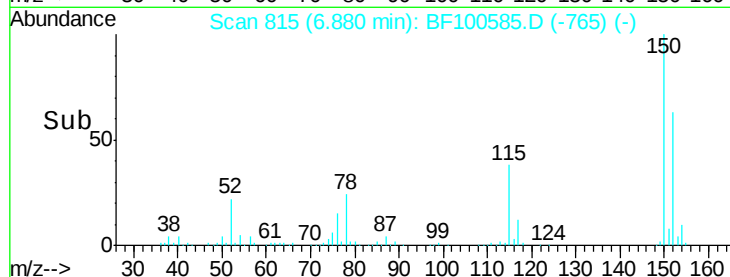
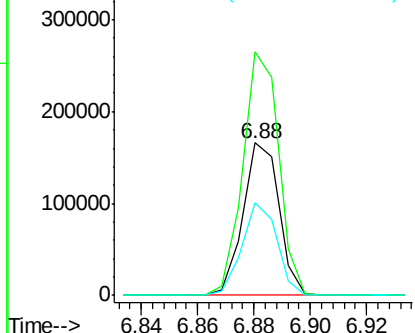
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.88 min Scan# 815  
 Delta R.T. -0.01 min  
 Lab File: BF100585.D  
 Acq: 15 Nov 2017 13:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-10

Tgt Ion:152 Resp: 146642  
 Ion Ratio Lower Upper  
 152 100  
 150 159.7 124.6 186.8  
 115 60.7 50.1 75.1



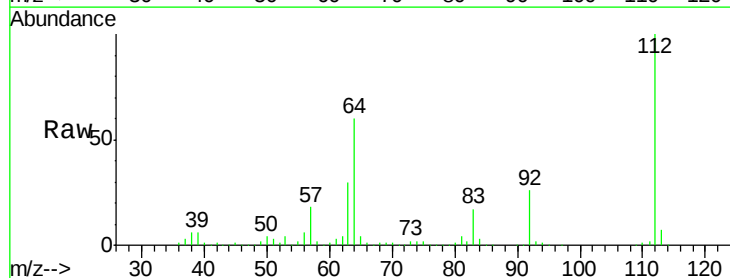
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



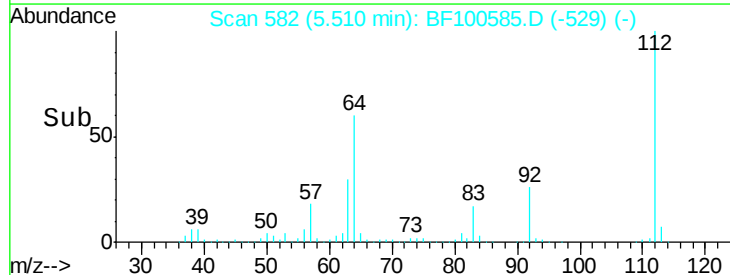
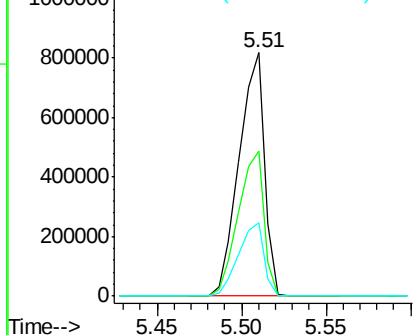
#5

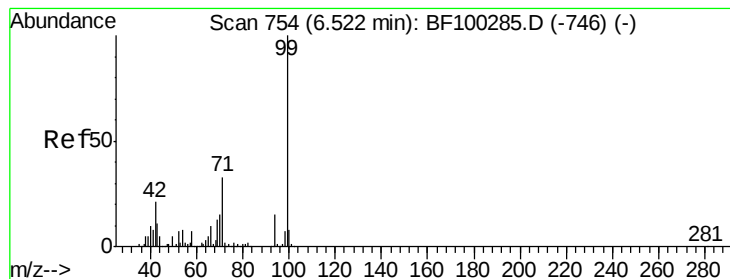
2-Fluorophenol  
 Concen: 94.070 ng  
 RT: 5.51 min Scan# 582  
 Delta R.T. 0.01 min  
 Lab File: BF100585.D  
 Acq: 15 Nov 2017 13:56

Tgt Ion:112 Resp: 860557  
 Ion Ratio Lower Upper  
 112 100  
 64 59.6 47.9 71.9  
 63 30.2 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: 93.994 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF100585.D

Acq: 15 Nov 2017 13:56

Instrument :

BNA\_F

ClientSampled :

TP-10

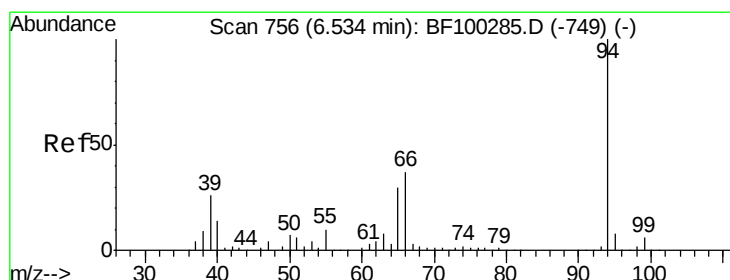
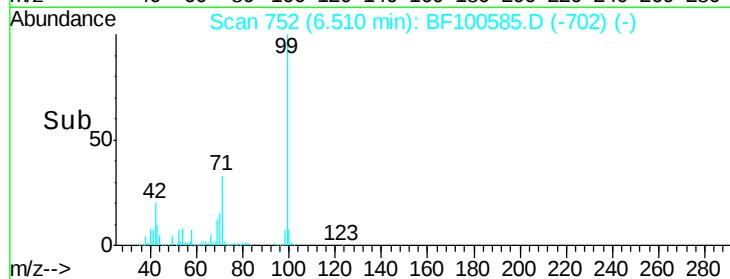
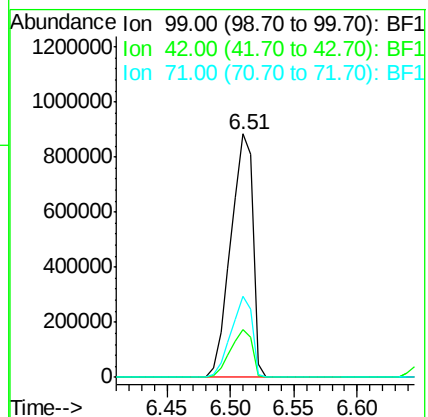
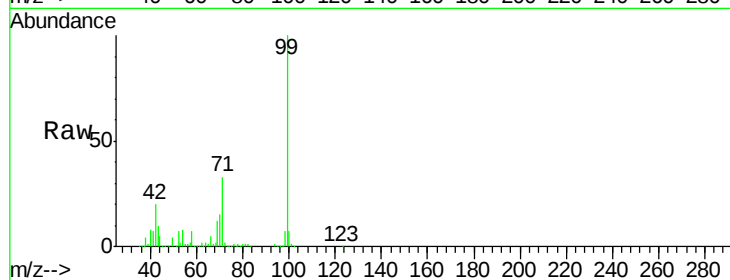
Tgt Ion: 99 Resp: 1060317

Ion Ratio Lower Upper

99 100

42 19.7 14.5 21.7

71 33.0 25.4 38.0



#10

Phenol

Concen: 4.278 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.01 min

Lab File: BF100585.D

Acq: 15 Nov 2017 13:56

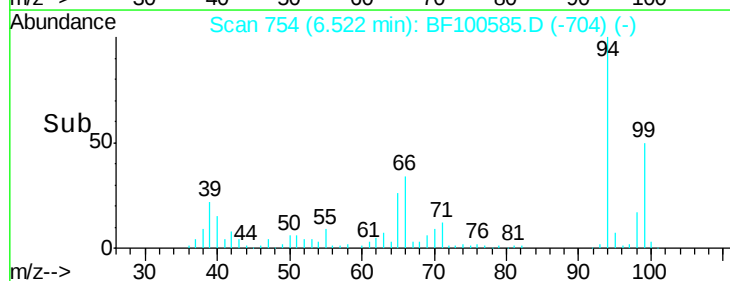
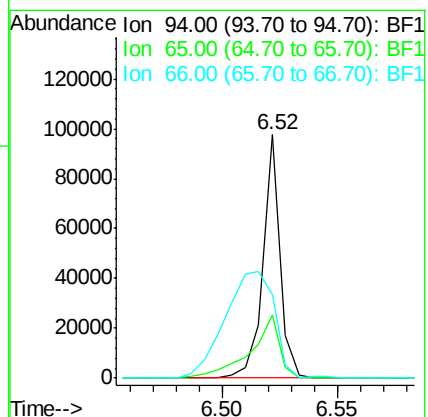
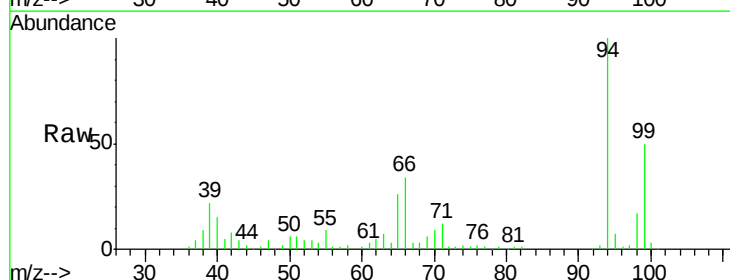
Tgt Ion: 94 Resp: 50662

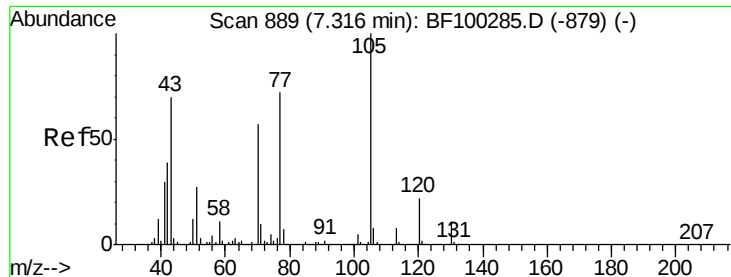
Ion Ratio Lower Upper

94 100

65 25.9 7.9 47.9

66 34.4 16.2 56.2

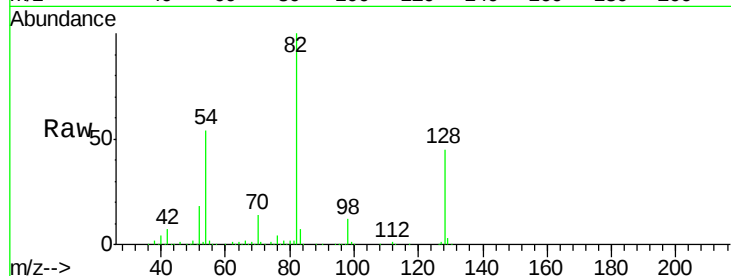




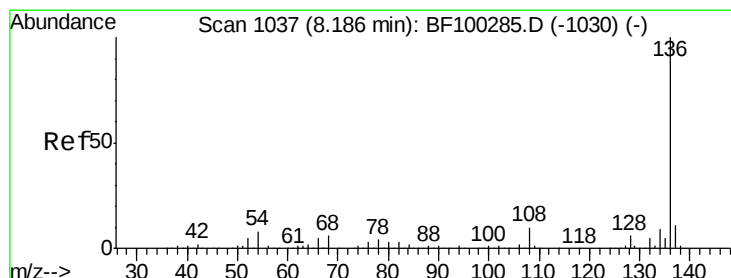
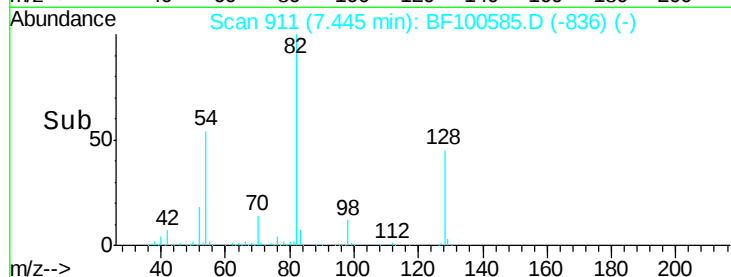
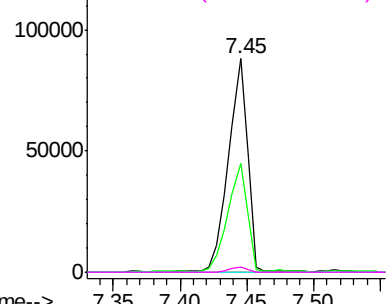
#19  
n-Nitroso-di-n-propylamine  
Concen: 11.149 ng  
RT: 7.45 min Scan# 911  
Delta R.T. 0.14 min  
Lab File: BF100585.D  
Acq: 15 Nov 2017 13:56

Instrument :  
BNA\_F  
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TP-10

Tgt Ion: 70 Resp: 87224  
Ion Ratio Lower Upper  
70 100  
42 51.1 47.5 71.3  
101 0.0 7.4 11.2#  
130 2.3 16.6 25.0#



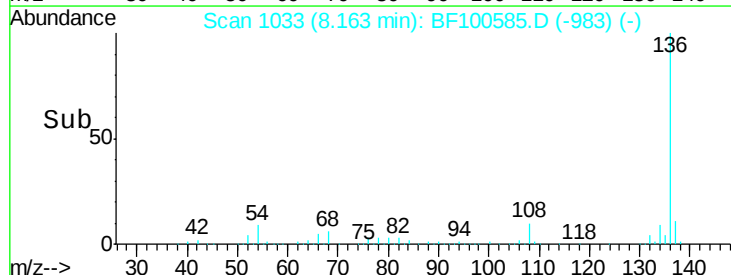
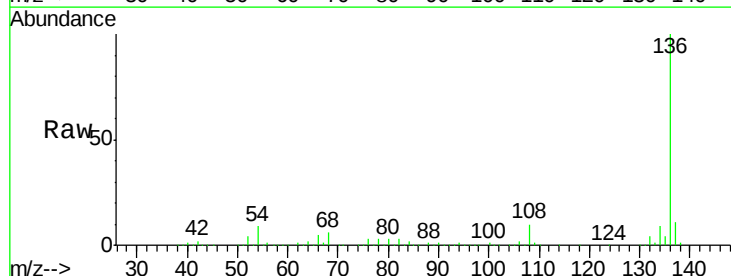
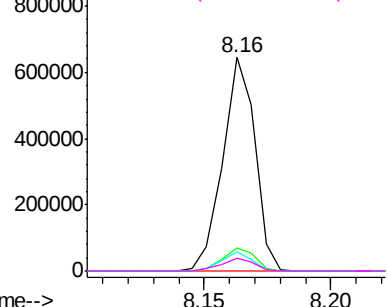
Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): E  
Ion 130.00 (129.70 to 130.70): E

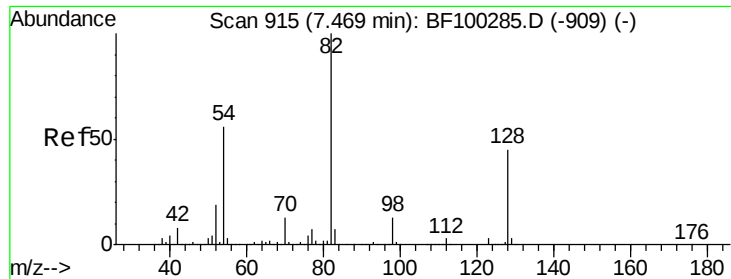


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.16 min Scan# 1033  
Delta R.T. -0.01 min  
Lab File: BF100585.D  
Acq: 15 Nov 2017 13:56

Tgt Ion: 136 Resp: 572662  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.9 13.3  
54 8.9 6.6 9.8  
68 6.1 5.0 7.4

Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

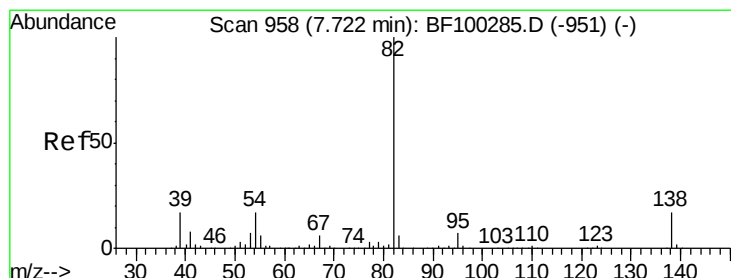
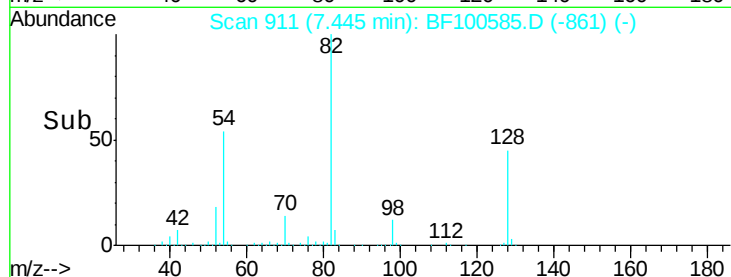
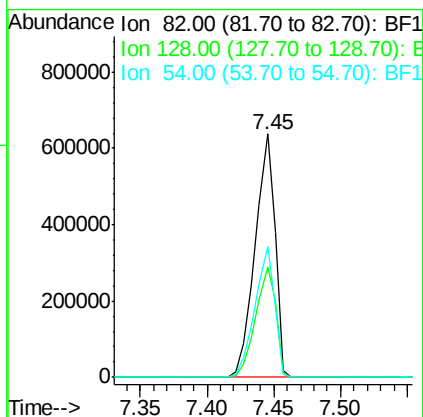
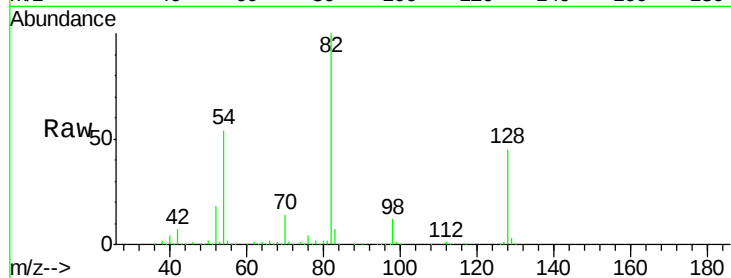




#23  
Nitrobenzene-d5  
Concen: 74.660 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: BF100585.D  
Acq: 15 Nov 2017 13:56

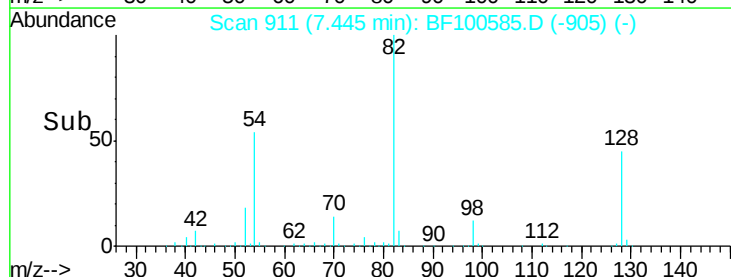
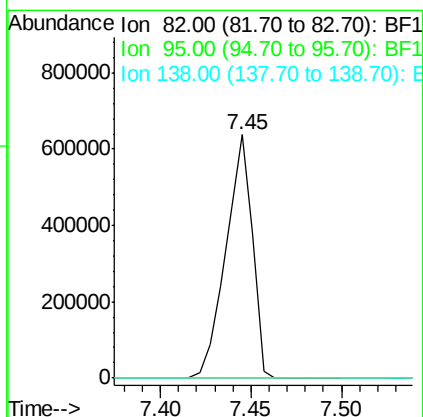
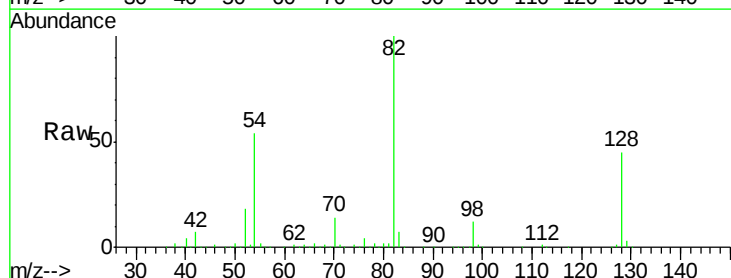
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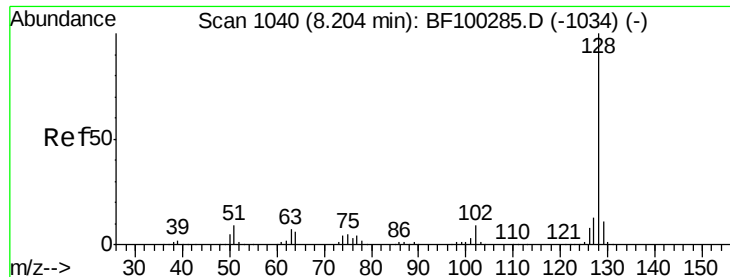
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.5  | 36.1  | 54.1  |
| 54      | 53.9  | 41.4  | 62.2  |



#25  
Isophorone  
Concen: 35.394 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.26 min  
Lab File: BF100585.D  
Acq: 15 Nov 2017 13:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 0.1   | 5.2   | 7.8#  |
| 138     | 0.0   | 14.9  | 22.3# |

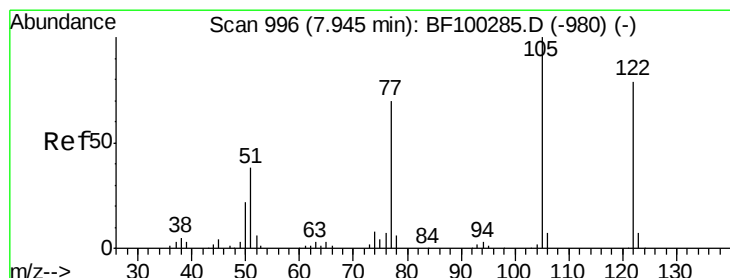
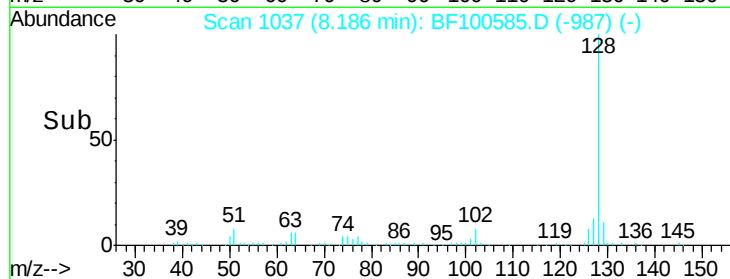
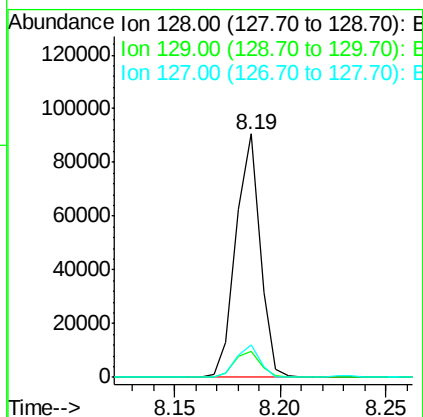
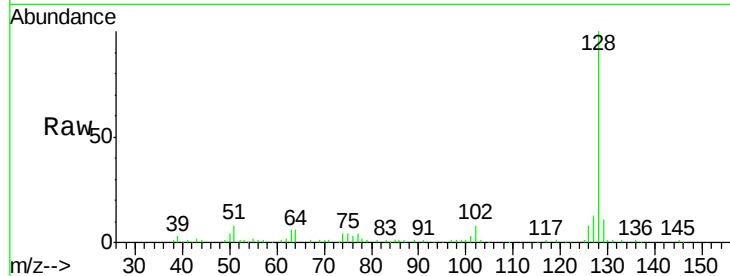




#31  
Naphthalene  
Concen: 2.597 ng  
RT: 8.19 min Scan# 1037  
Delta R.T. -0.01 min  
Lab File: BF100585.D  
Acq: 15 Nov 2017 13:56

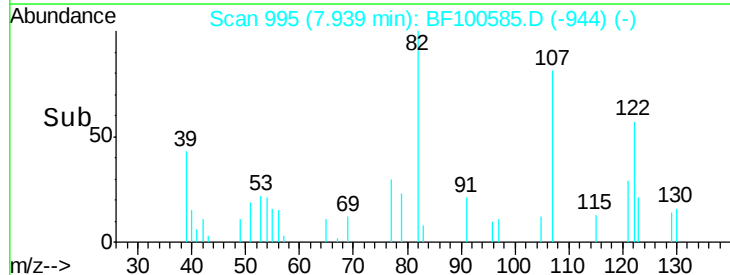
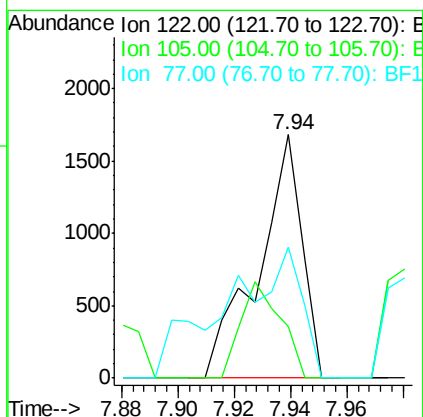
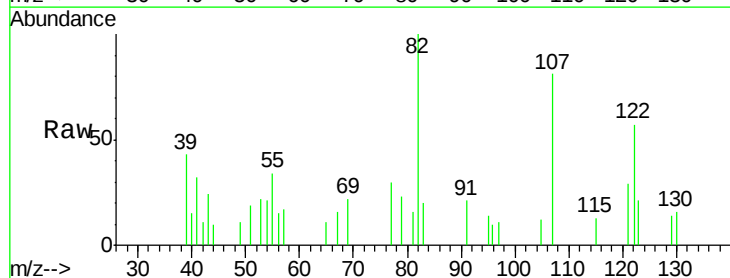
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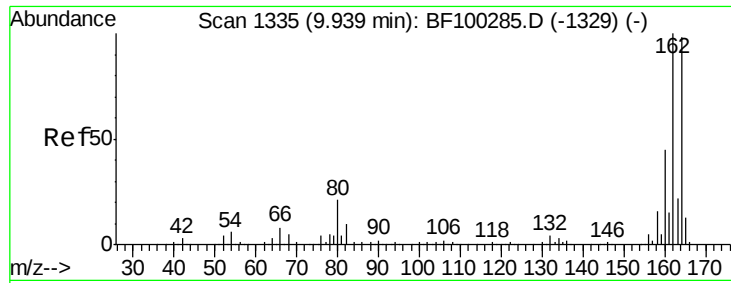
Tgt Ion:128 Resp: 71641  
Ion Ratio Lower Upper  
128 100  
129 10.6 8.8 13.2  
127 13.4 10.9 16.3



#32  
Benzoic acid  
Concen: 9.603 ng  
RT: 7.94 min Scan# 995  
Delta R.T. -0.00 min  
Lab File: BF100585.D  
Acq: 15 Nov 2017 13:56

Tgt Ion:122 Resp: 1807  
Ion Ratio Lower Upper  
122 100  
105 21.0 101.1 141.1#  
77 53.6 70.7 110.7#

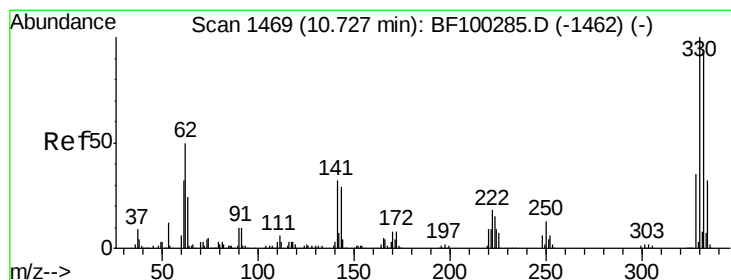
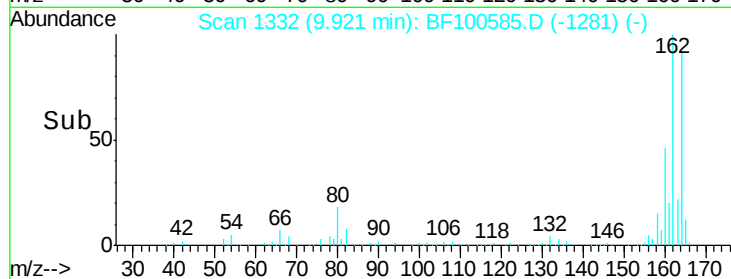
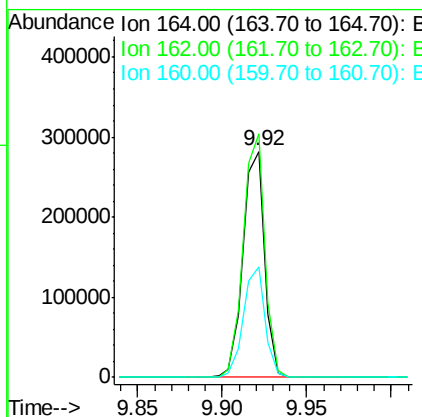
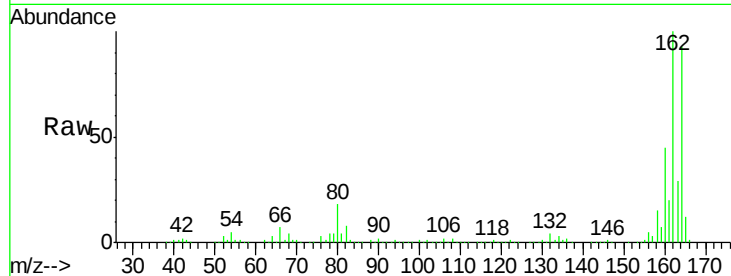




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.92 min Scan# 1332  
 Delta R.T. 0.00 min  
 Lab File: BF100585.D  
 Acq: 15 Nov 2017 13:56

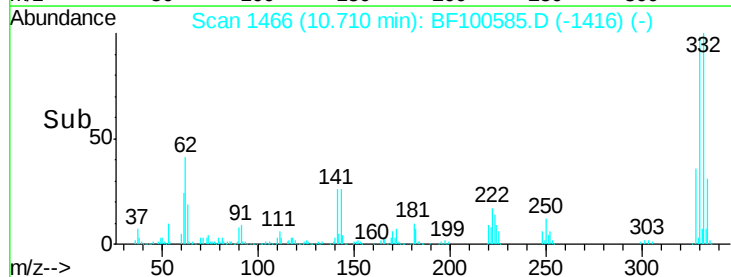
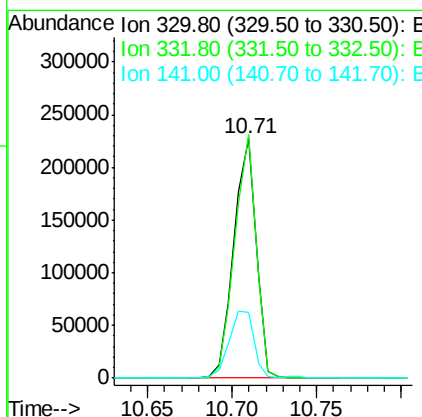
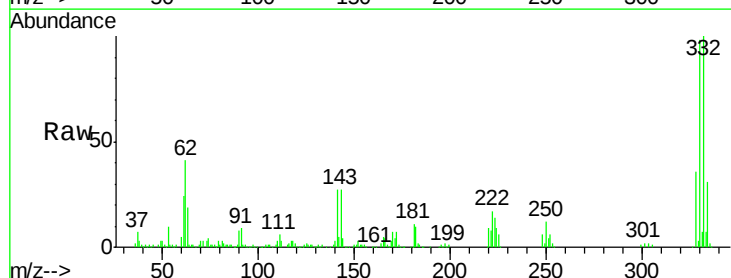
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-10

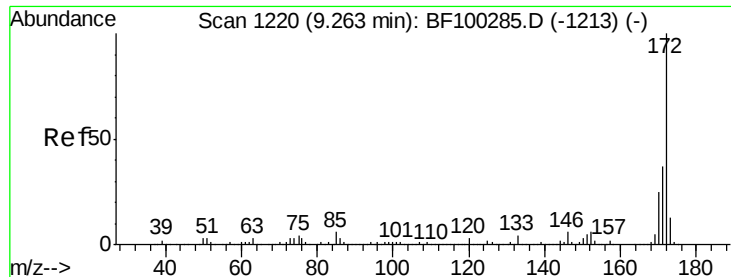
Tgt Ion:164 Resp: 251603  
 Ion Ratio Lower Upper  
 164 100  
 162 107.7 86.1 129.1  
 160 49.0 38.3 57.5



#41  
 2,4,6-Tribromophenol  
 Concen: 81.925 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.01 min  
 Lab File: BF100585.D  
 Acq: 15 Nov 2017 13:56

Tgt Ion:330 Resp: 210041  
 Ion Ratio Lower Upper  
 330 100  
 332 97.5 77.0 115.6  
 141 31.1 29.9 44.9

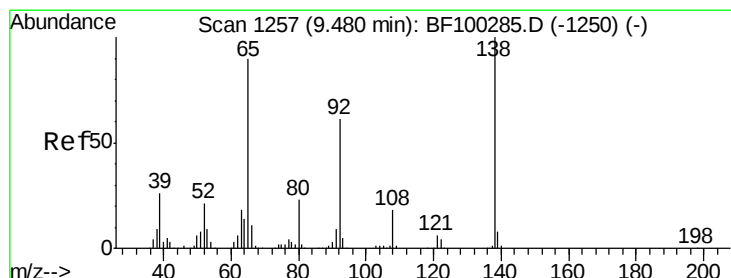
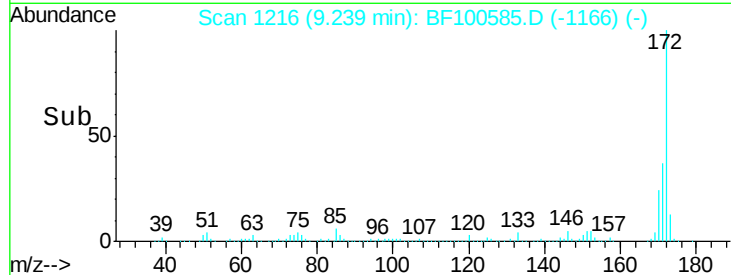
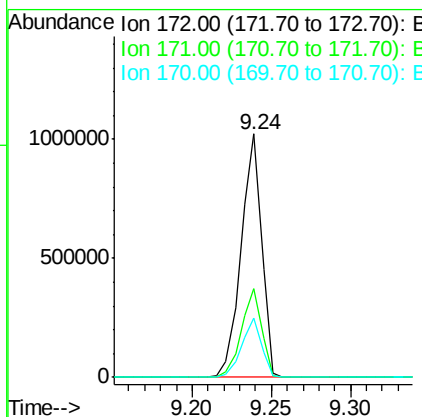
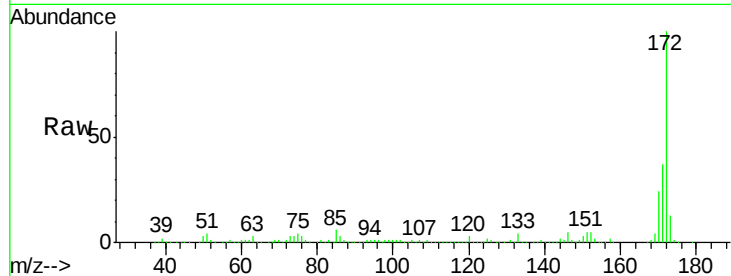




#44  
 2-Fluorobiphenyl  
 Concen: 55.301 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: BF100585.D  
 Acq: 15 Nov 2017 13:56

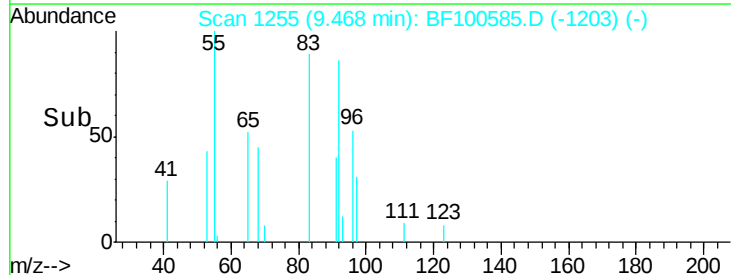
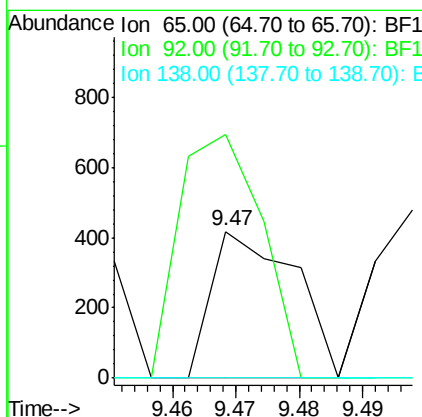
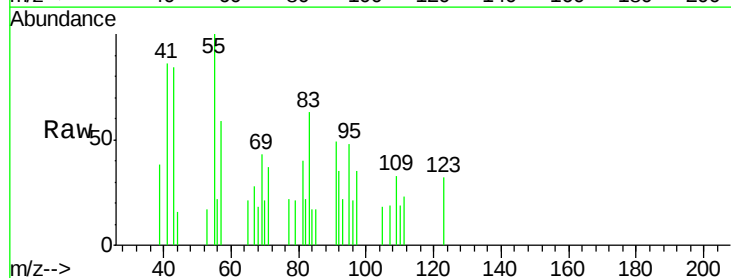
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-10

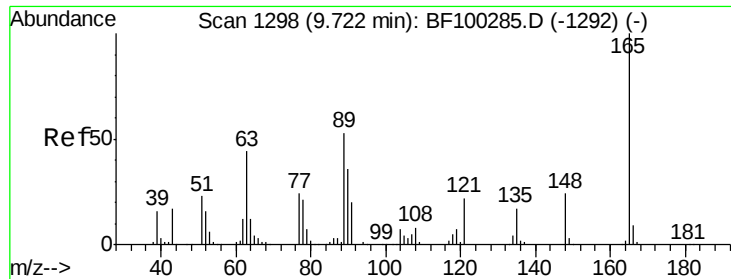
Tgt Ion: 172 Resp: 913758  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 29.7 44.5  
 170 24.1 19.6 29.4



#47  
 2-Nitroaniline  
 Concen: 2.860 ng  
 RT: 9.47 min Scan# 1255  
 Delta R.T. 0.01 min  
 Lab File: BF100585.D  
 Acq: 15 Nov 2017 13:56

Tgt Ion: 65 Resp: 379  
 Ion Ratio Lower Upper  
 65 100  
 92 165.6 55.8 83.6#  
 138 0.0 91.2 136.8#

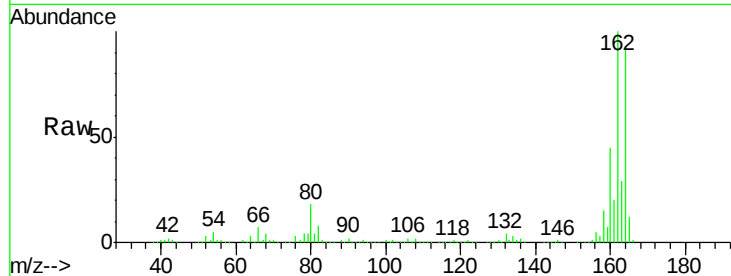




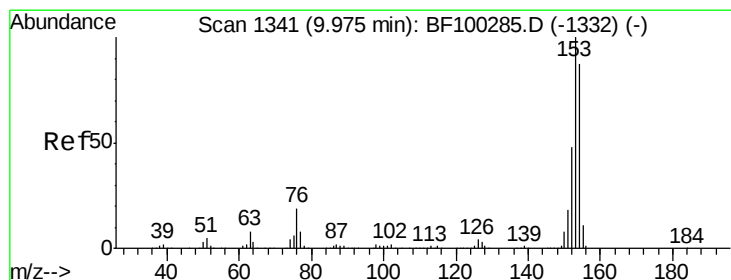
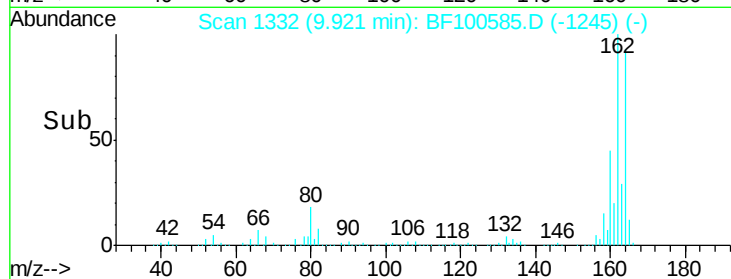
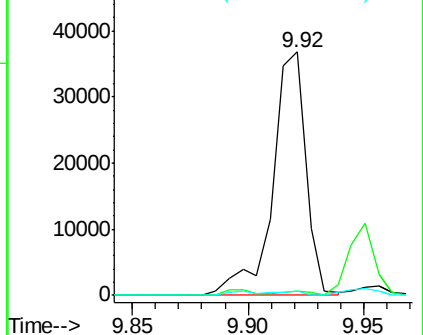
#50  
 2,6-Dinitrotoluene  
 Concen: 9.674 ng  
 RT: 9.92 min Scan# 1332  
 Delta R.T. 0.21 min  
 Lab File: BF100585.D  
 Acq: 15 Nov 2017 13:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-10

Tgt Ion:165 Resp: 36786  
 Ion Ratio Lower Upper  
 165 100  
 63 1.7 44.7 67.1#  
 89 1.7 44.0 66.0#

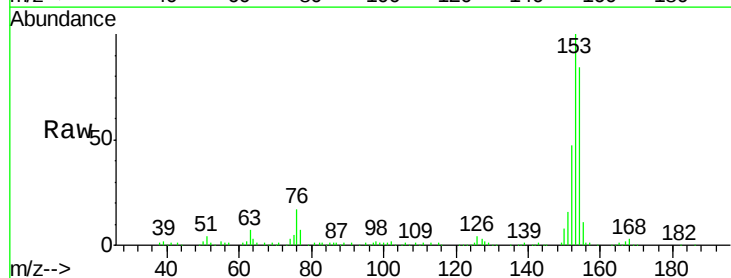


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

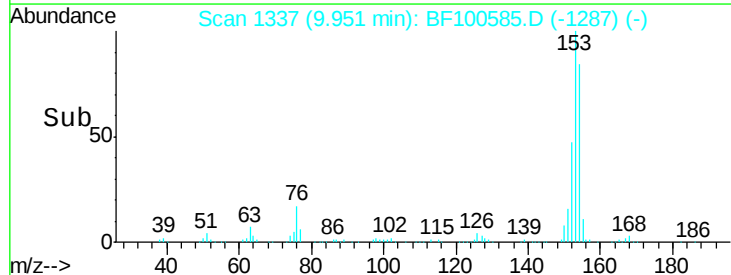
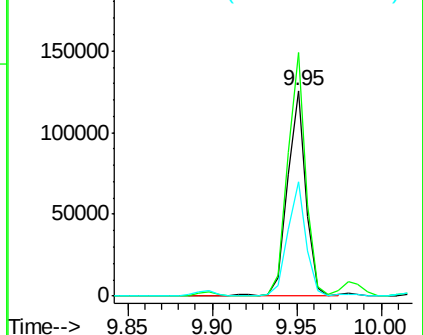


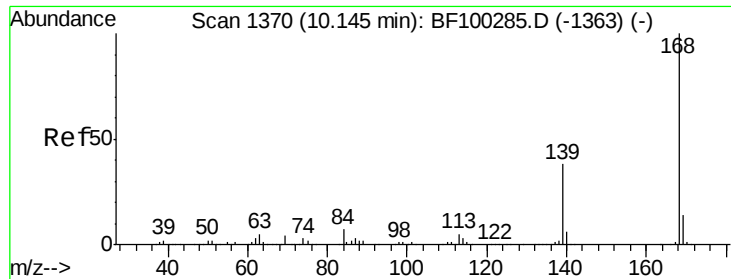
#51  
 Acenaphthene  
 Concen: 6.017 ng  
 RT: 9.95 min Scan# 1337  
 Delta R.T. -0.01 min  
 Lab File: BF100585.D  
 Acq: 15 Nov 2017 13:56

Tgt Ion:154 Resp: 95738  
 Ion Ratio Lower Upper  
 154 100  
 153 118.3 91.2 136.8  
 152 55.3 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

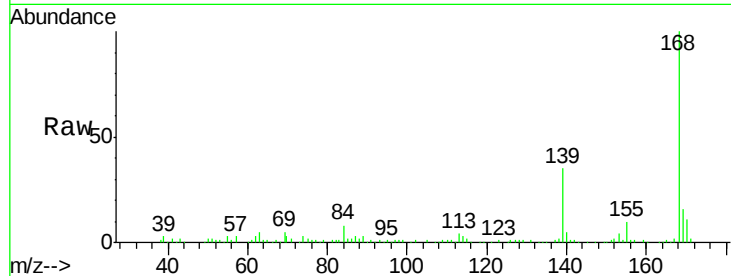




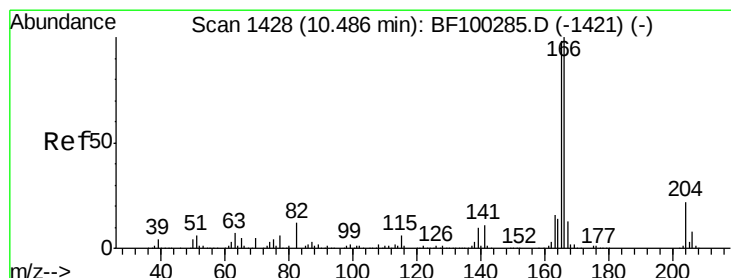
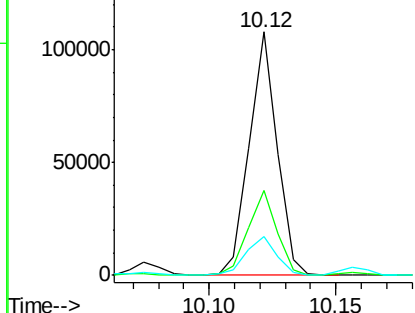
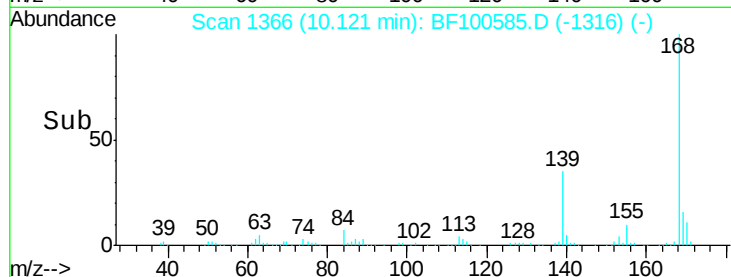
#54  
Dibenzenofuran  
Concen: 3.722 ng  
RT: 10.12 min Scan# 1366  
Delta R.T. -0.01 min  
Lab File: BF100585.D  
Acq: 15 Nov 2017 13:56

Instrument :  
BNA\_F  
ClientSampled :  
TP-10

Tgt Ion:168 Resp: 83007  
Ion Ratio Lower Upper  
168 100  
139 34.6 30.1 45.1  
169 15.7 10.9 16.3

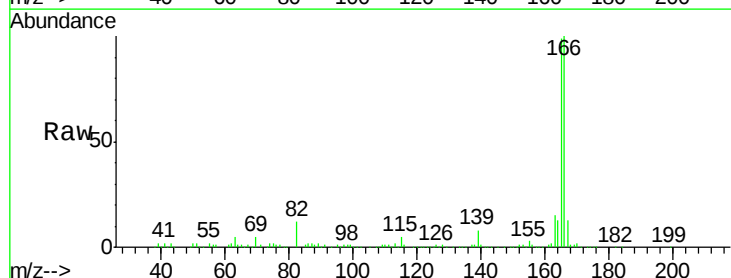


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

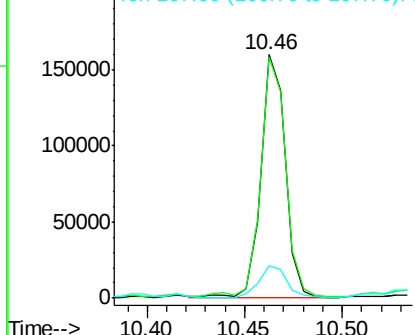
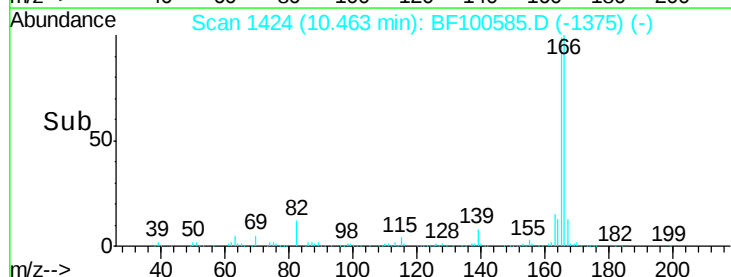


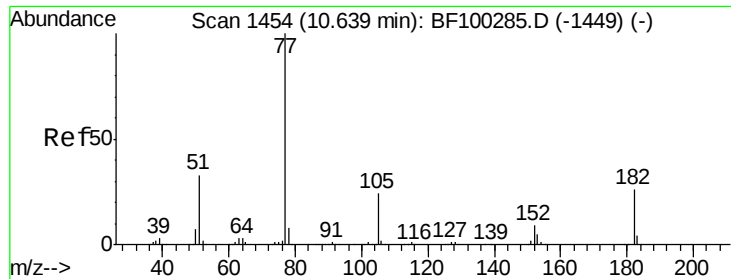
#57  
Fluorene  
Concen: 8.385 ng  
RT: 10.46 min Scan# 1424  
Delta R.T. -0.01 min  
Lab File: BF100585.D  
Acq: 15 Nov 2017 13:56

Tgt Ion:166 Resp: 136984  
Ion Ratio Lower Upper  
166 100  
165 99.0 79.8 119.8  
167 13.1 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





#62

Azobenzene

Concen: 4.250 ng

RT: 10.63 min Scan# 1452

Delta R.T. 0.01 min

Lab File: BF100585.D

Acq: 15 Nov 2017 13:56

Instrument :

BNA\_F

ClientSampleId :

TP-10

Tgt Ion: 77 Resp: 76957

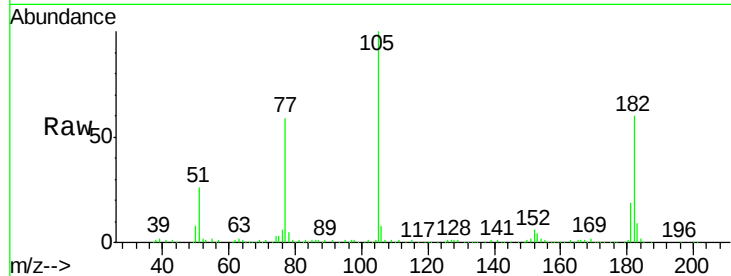
Ion Ratio Lower Upper

77 100

182 101.4 1.7 41.7#

105 168.4 3.0 43.0#

51 44.3 9.9 49.9

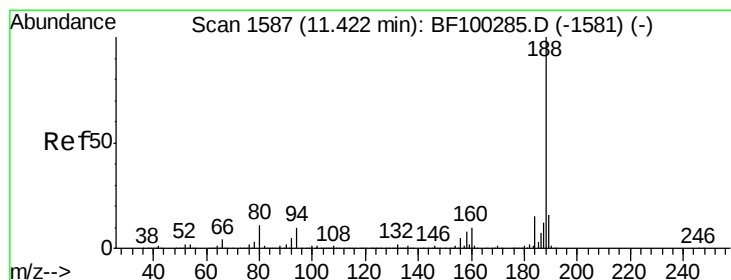
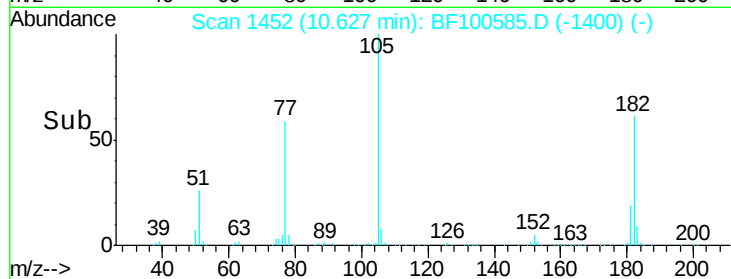
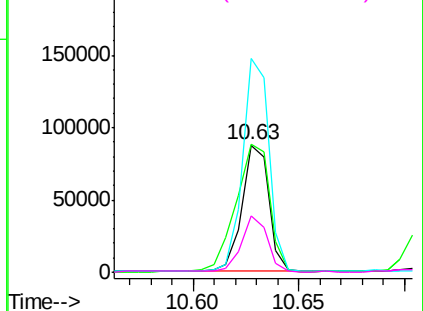


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 51.00 (50.70 to 51.70): BF1



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF100585.D

Acq: 15 Nov 2017 13:56

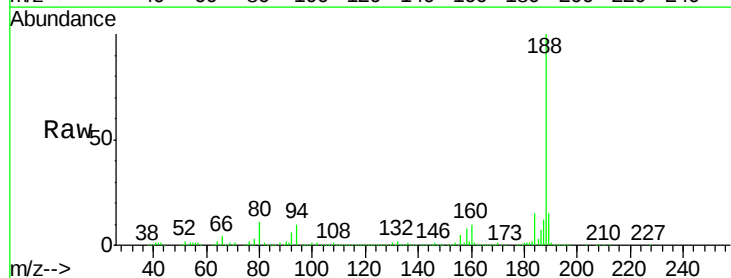
Tgt Ion: 188 Resp: 406514

Ion Ratio Lower Upper

188 100

94 10.1 8.5 12.7

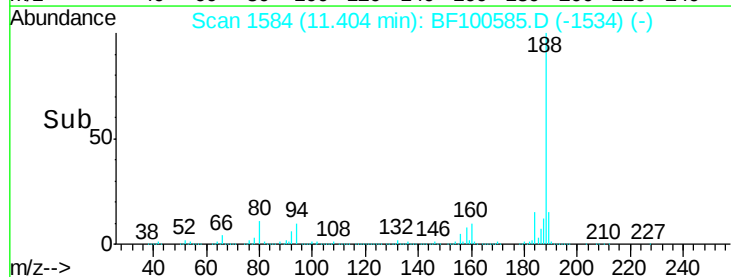
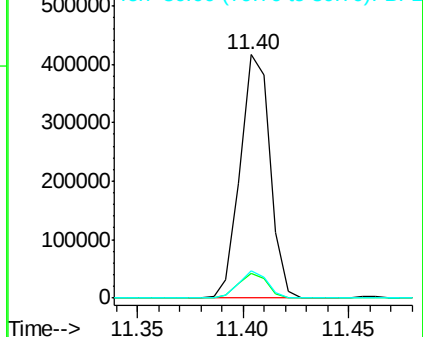
80 11.3 9.2 13.8

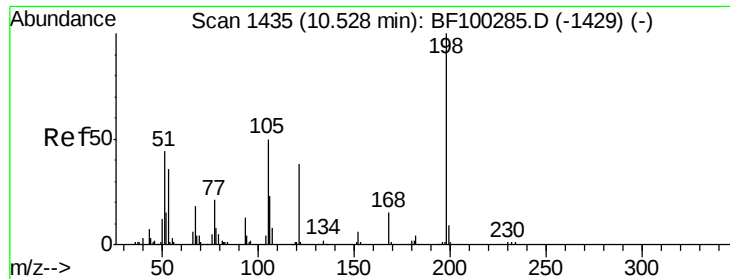


Abundance Ion 188.00 (187.70 to 188.70): BF1

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

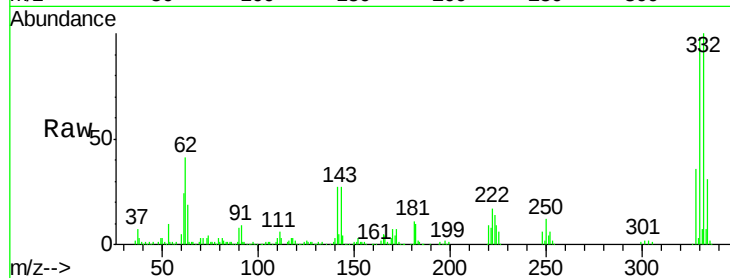




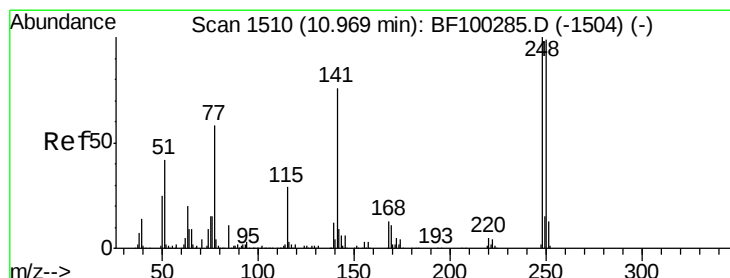
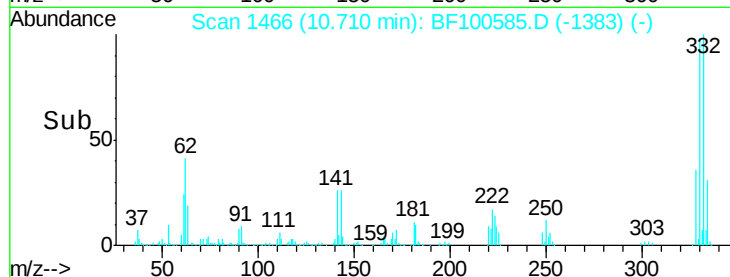
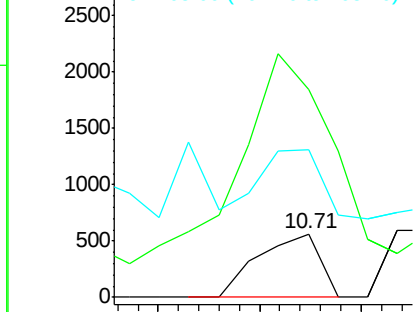
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.760 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. 0.19 min  
 Lab File: BF100585.D  
 Acq: 15 Nov 2017 13:56

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-10

Tgt Ion:198 Resp: 476  
 Ion Ratio Lower Upper  
 198 100  
 51 327.1 37.7 77.7#  
 105 231.2 36.3 76.3#

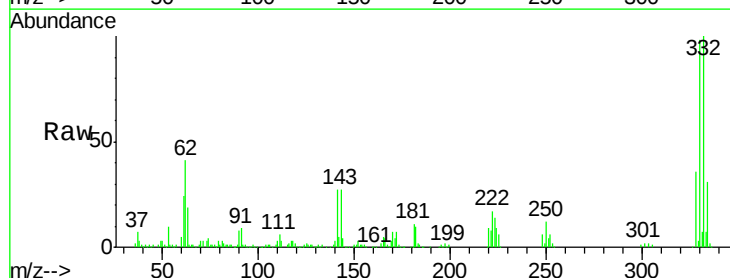


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

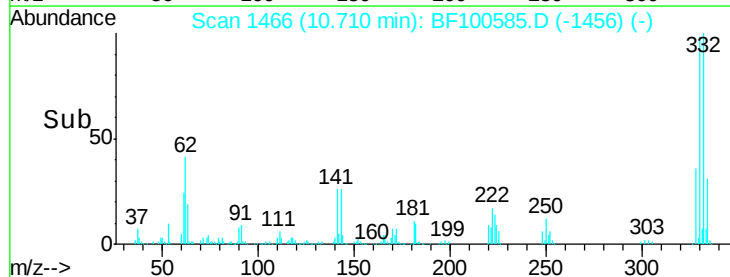
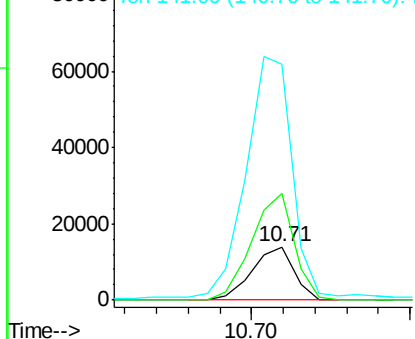


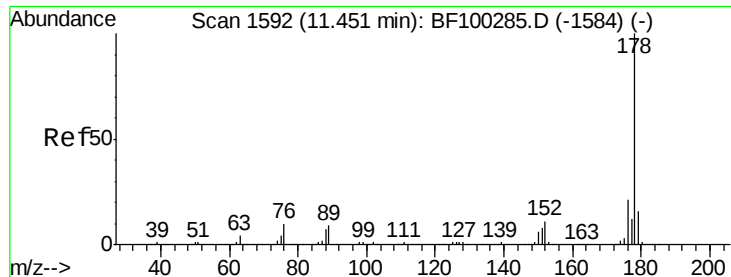
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.959 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.24 min  
 Lab File: BF100585.D  
 Acq: 15 Nov 2017 13:56

Tgt Ion:248 Resp: 12896  
 Ion Ratio Lower Upper  
 248 100  
 250 201.0 76.9 115.3#  
 141 442.6 74.4 111.6#



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





#70

Phenanthrene

Concen: 43.999 ng

RT: 11.43 min Scan# 1589

Delta R.T. 0.00 min

Lab File: BF100585.D

Acq: 15 Nov 2017 13:56

Instrument :

BNA\_F

ClientSampled :

TP-10

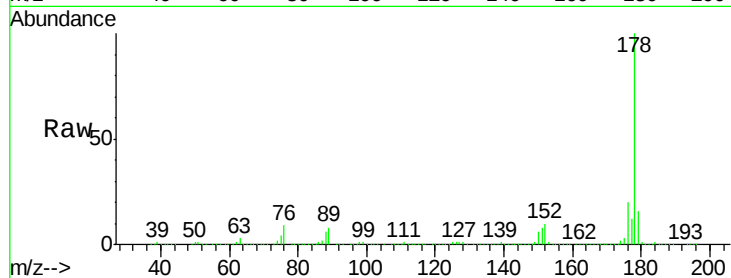
Tgt Ion:178 Resp: 941731

Ion Ratio Lower Upper

178 100

176 20.0 15.8 23.8

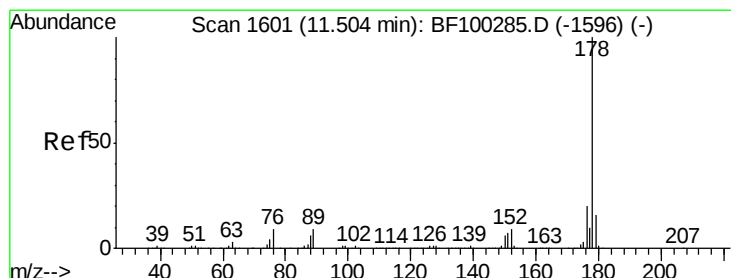
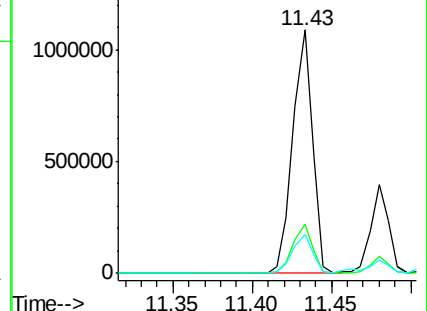
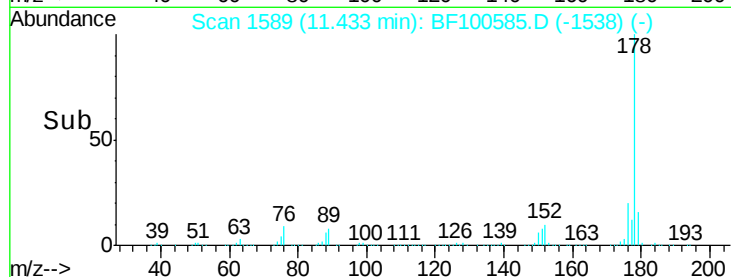
179 15.9 13.0 19.6



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: 14.002 ng

RT: 11.48 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF100585.D

Acq: 15 Nov 2017 13:56

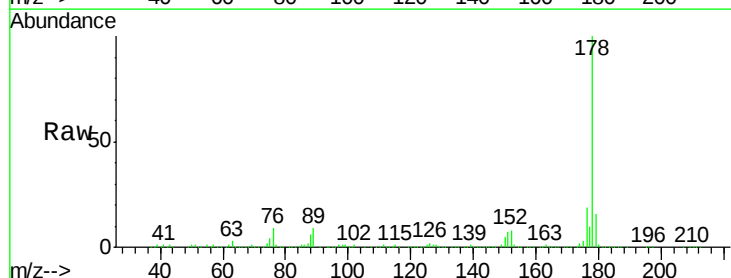
Tgt Ion:178 Resp: 304063

Ion Ratio Lower Upper

178 100

176 18.7 15.4 23.2

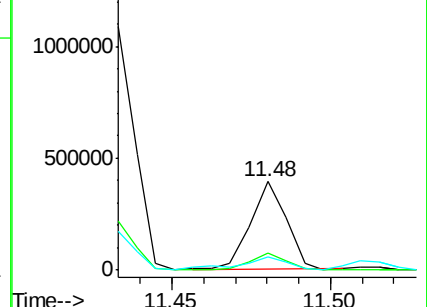
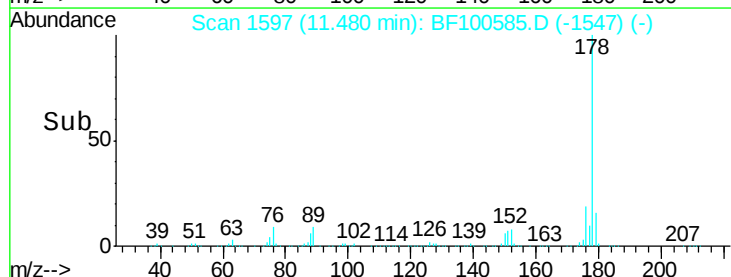
179 15.7 12.6 19.0

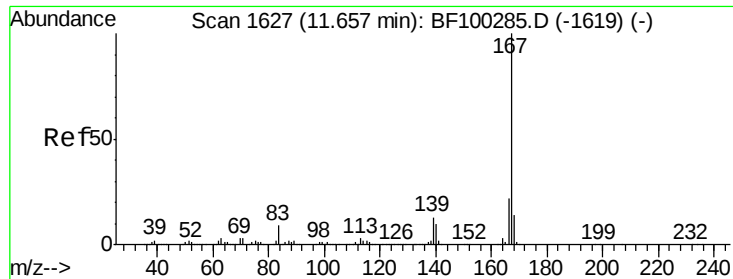


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 4.956 ng

RT: 11.63 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BF100585.D

Acq: 15 Nov 2017 13:56

Instrument :

BNA\_F

ClientSampleId :

TP-10

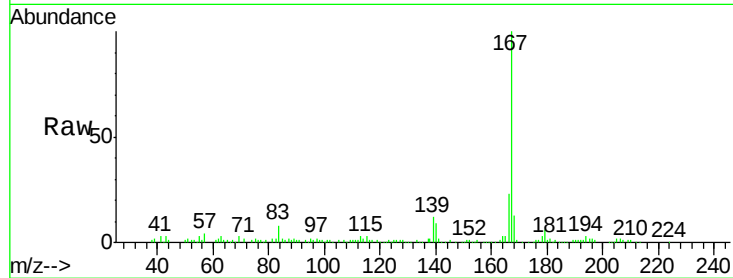
Tgt Ion:167 Resp: 99301

Ion Ratio Lower Upper

167 100

166 22.6 17.6 26.4

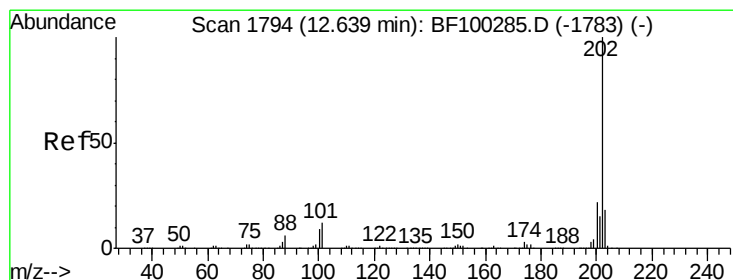
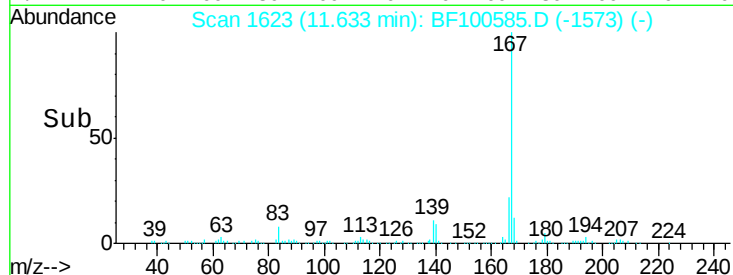
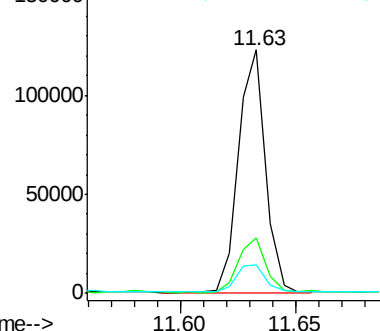
139 11.9 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 40.461 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.00 min

Lab File: BF100585.D

Acq: 15 Nov 2017 13:56

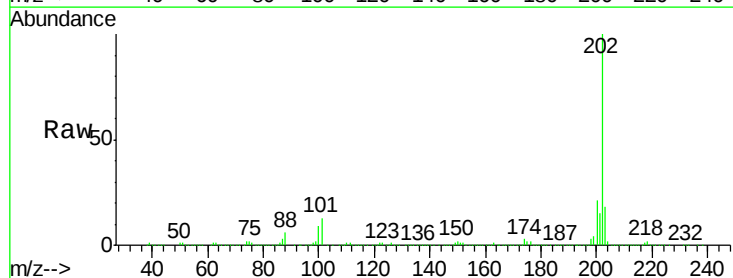
Tgt Ion:202 Resp: 917810

Ion Ratio Lower Upper

202 100

101 12.7 0.0 34.1

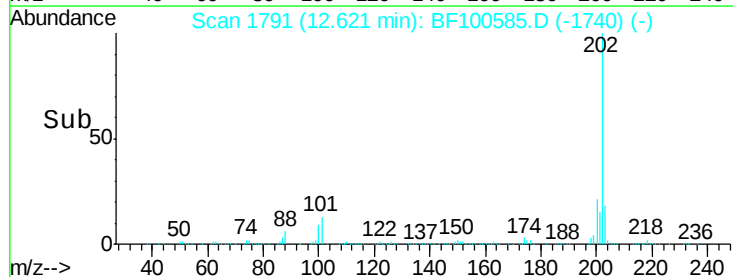
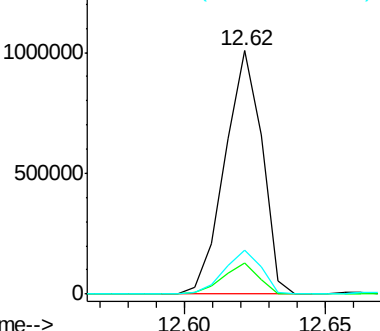
203 17.8 0.0 38.1

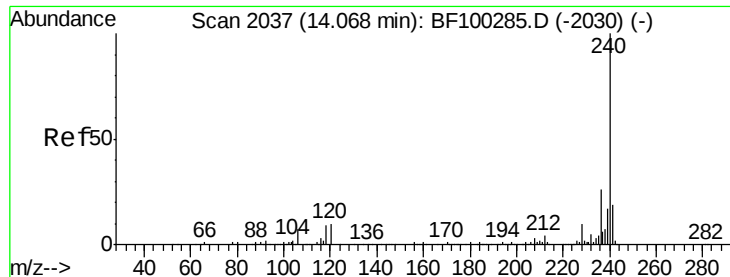


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF100585.D

Acq: 15 Nov 2017 13:56

Instrument :

BNA\_F

ClientSampleId :

TP-10

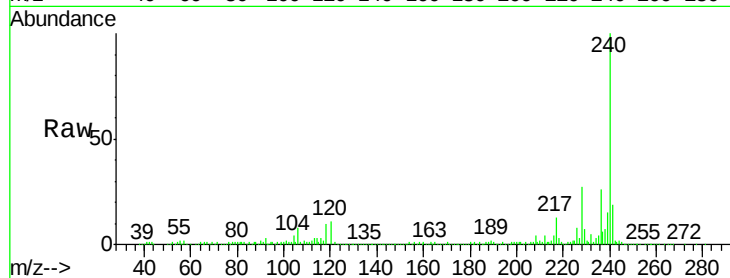
Tgt Ion:240 Resp: 270569

Ion Ratio Lower Upper

240 100

120 11.5 9.5 14.3

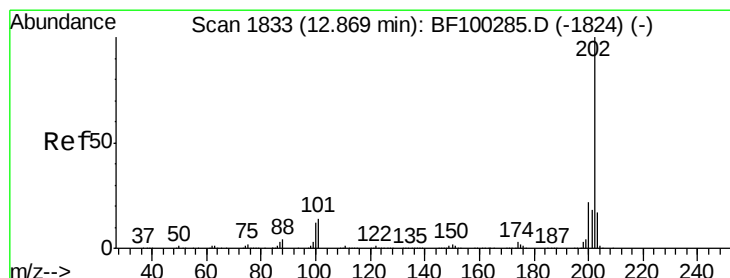
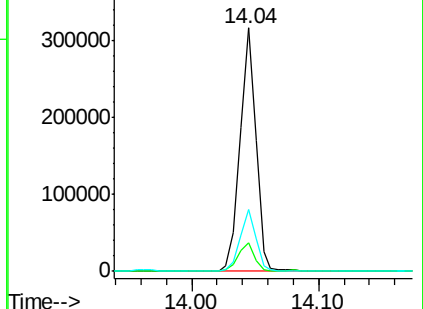
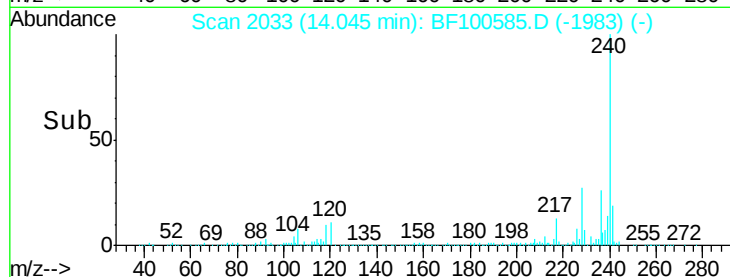
236 25.6 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 41.332 ng

RT: 12.85 min Scan# 1830

Delta R.T. -0.00 min

Lab File: BF100585.D

Acq: 15 Nov 2017 13:56

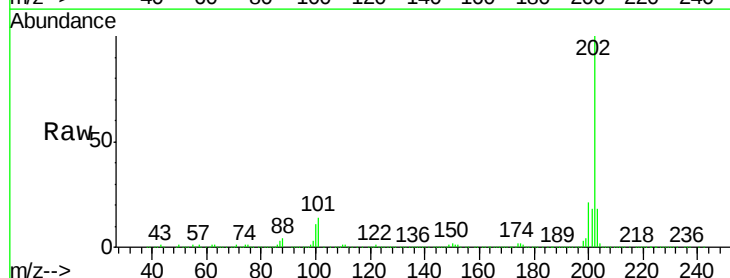
Tgt Ion:202 Resp: 797186

Ion Ratio Lower Upper

202 100

200 21.0 17.4 26.2

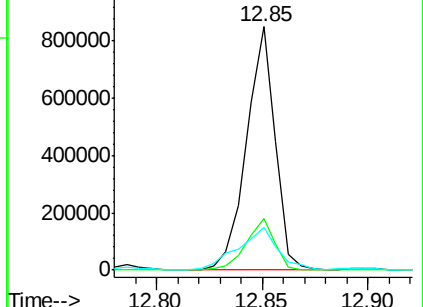
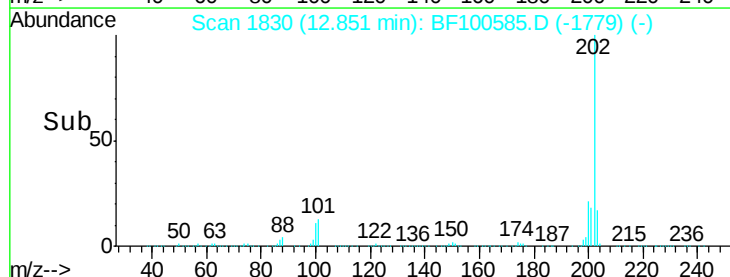
203 17.8 14.3 21.5

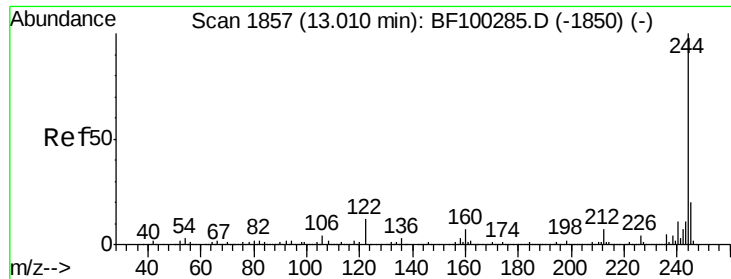


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

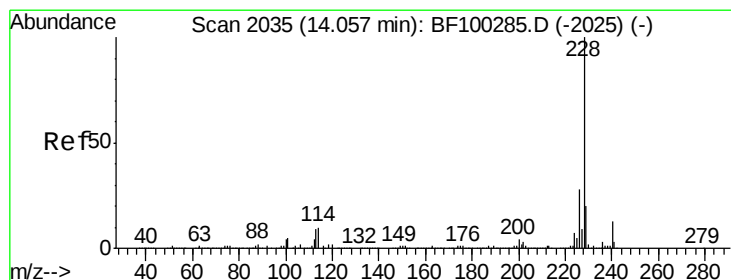
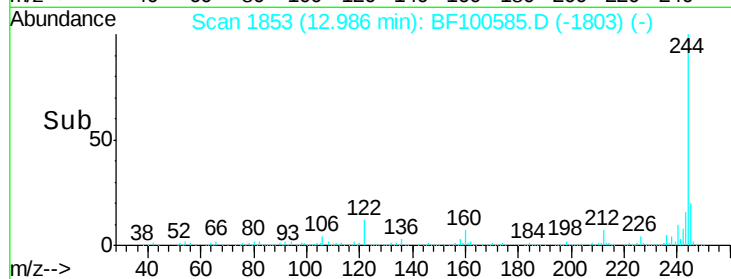
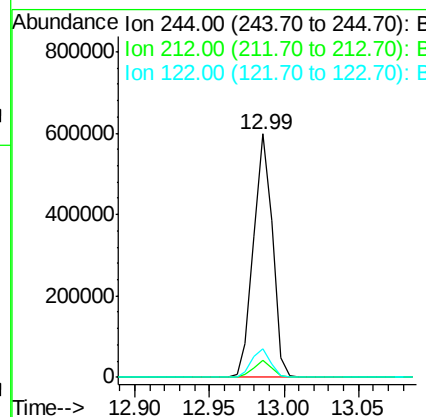
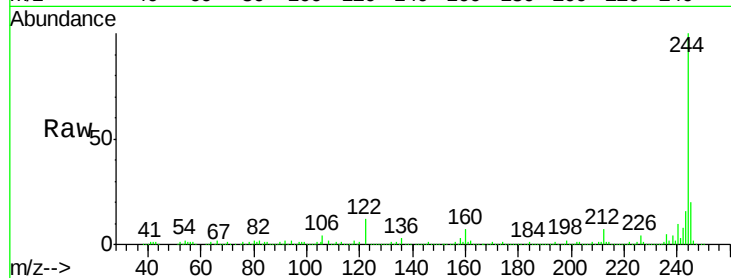




#78  
 Terphenyl-d14  
 Concen: 44.245 ng  
 RT: 12.99 min Scan# 1853  
 Delta R.T. -0.01 min  
 Lab File: BF100585.D  
 Acq: 15 Nov 2017 13:56

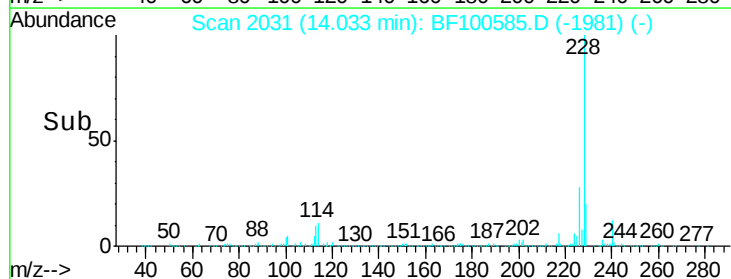
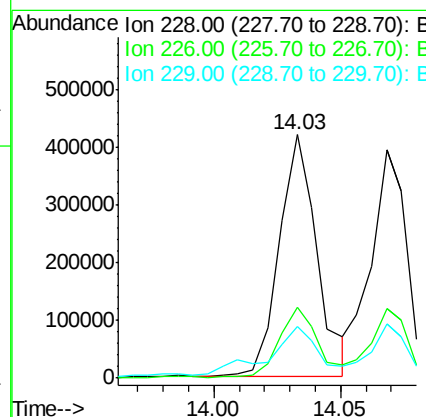
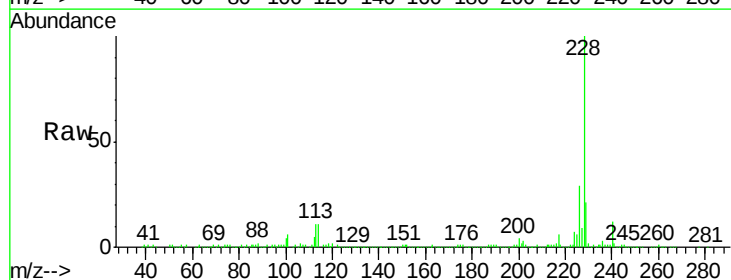
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-10

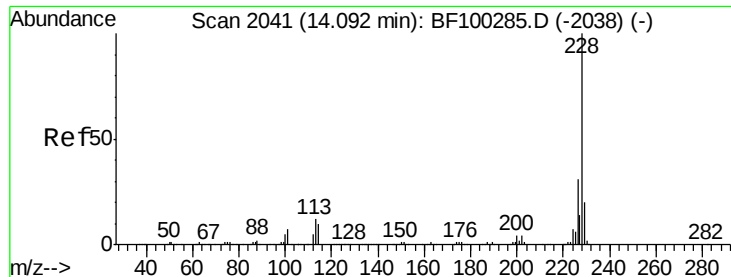
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 5.4   | 8.0   |
| 122     | 11.9  | 11.0  | 16.4  |



#80  
 Benzo(a)anthracene  
 Concen: 26.800 ng  
 RT: 14.03 min Scan# 2031  
 Delta R.T. -0.01 min  
 Lab File: BF100585.D  
 Acq: 15 Nov 2017 13:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.9  | 22.6  | 33.8  |
| 229     | 21.4  | 15.8  | 23.6  |





#82

Chrysene

Concen: 24.489 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.01 min

Lab File: BF100585.D

Acq: 15 Nov 2017 13:56

Instrument :

BNA\_F

ClientSampleId :

TP-10

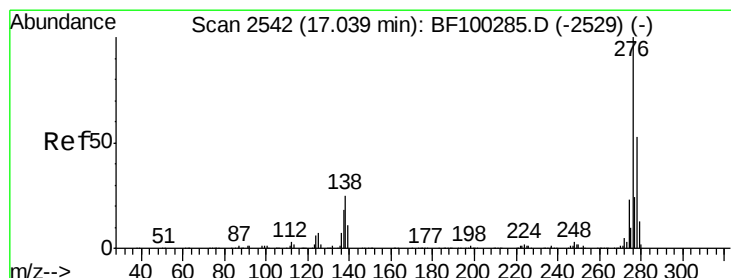
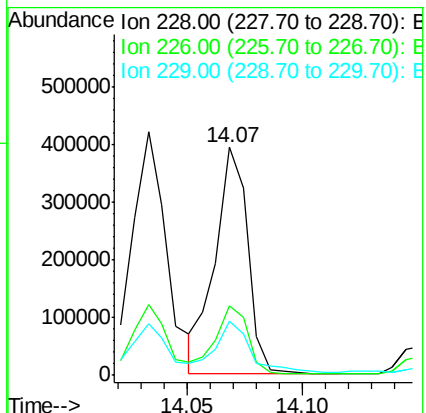
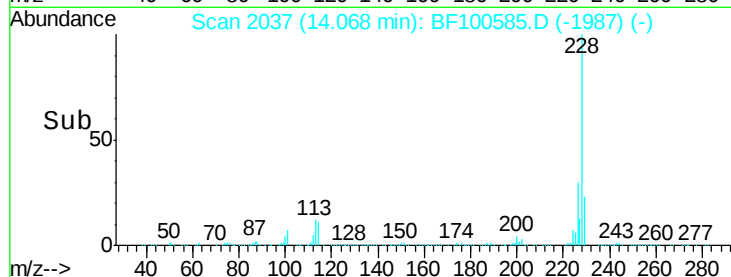
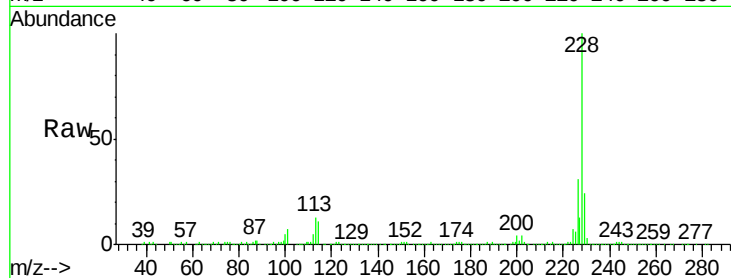
Tgt Ion:228 Resp: 386392

Ion Ratio Lower Upper

228 100

226 30.7 25.0 37.6

229 23.8 16.2 24.4



#85

Indeno(1,2,3-cd)pyrene

Concen: 12.476 ng

RT: 17.00 min Scan# 2536

Delta R.T. -0.01 min

Lab File: BF100585.D

Acq: 15 Nov 2017 13:56

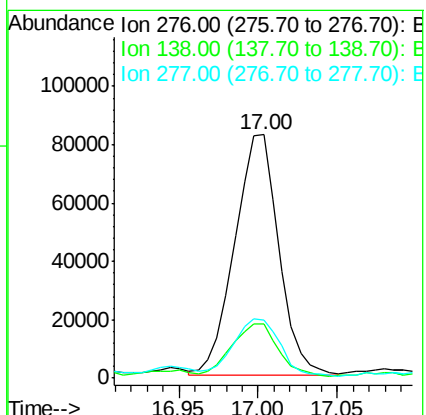
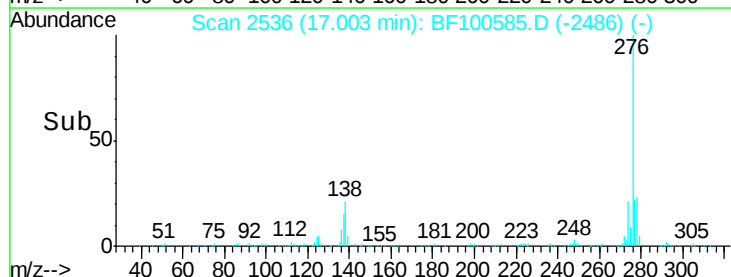
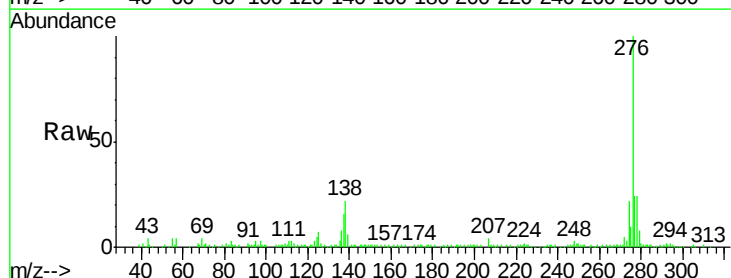
Tgt Ion:276 Resp: 159223

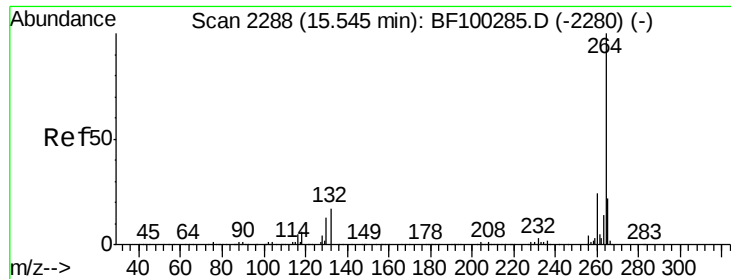
Ion Ratio Lower Upper

276 100

138 22.6 25.0 37.6#

277 25.2 20.1 30.1



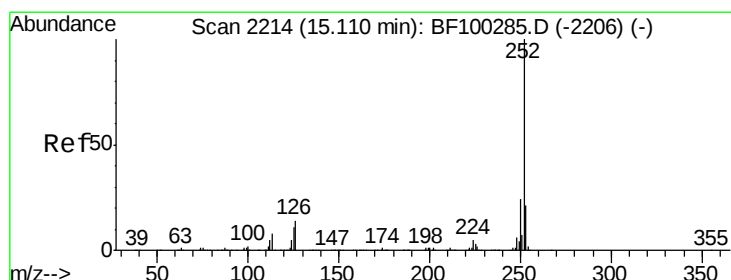
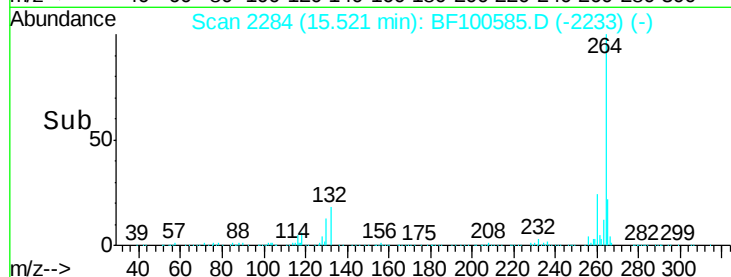
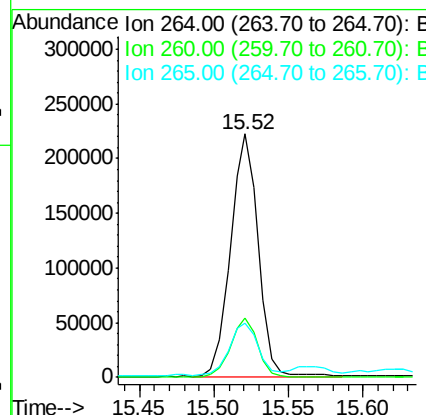
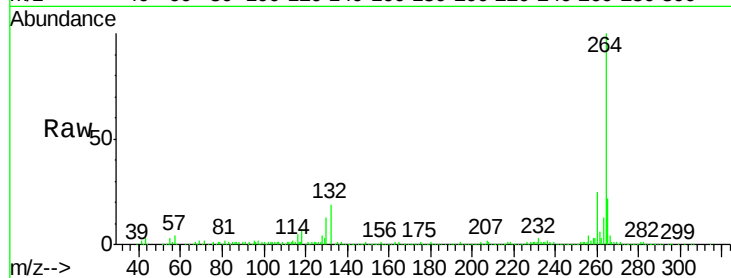


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.52 min Scan# 2284  
Delta R.T. 0.00 min  
Lab File: BF100585.D  
Acq: 15 Nov 2017 13:56

Instrument :  
BNA\_F  
ClientSampleId :  
TP-10

Tgt Ion: 264 Resp: 289629  

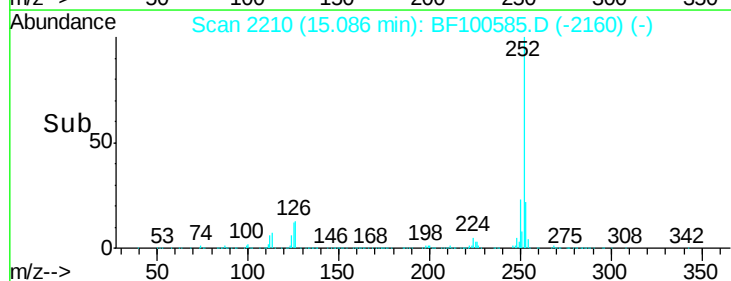
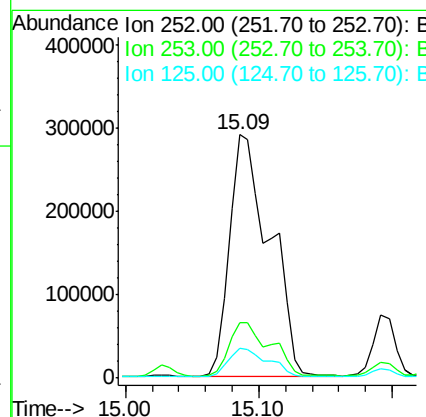
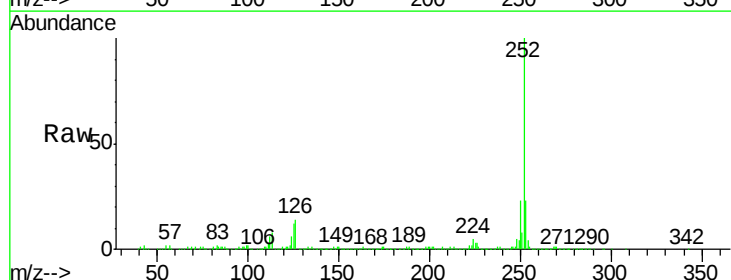
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.6  | 19.2  | 28.8  |
| 265 | 22.4  | 17.5  | 26.3  |

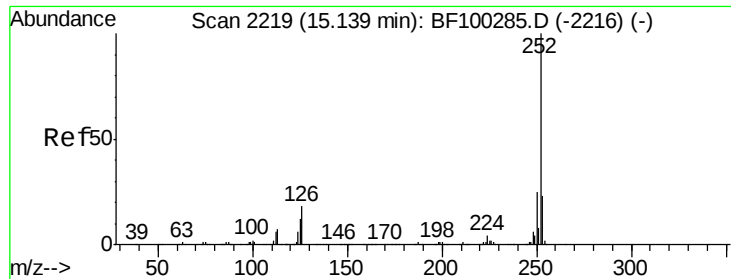


#87  
Benzo(b)fluoranthene  
Concen: 35.963 ng  
RT: 15.09 min Scan# 2210  
Delta R.T. -0.01 min  
Lab File: BF100585.D  
Acq: 15 Nov 2017 13:56

Tgt Ion: 252 Resp: 617093  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.6  | 17.0  | 25.6  |
| 125 | 12.4  | 9.0   | 13.6  |

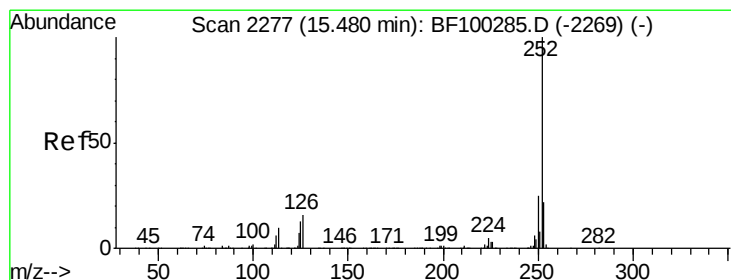
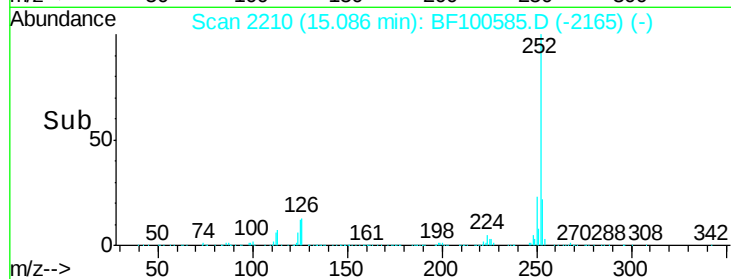
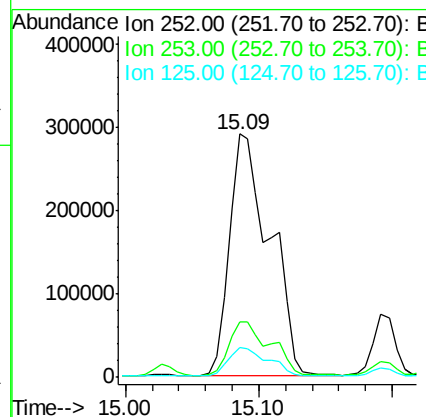
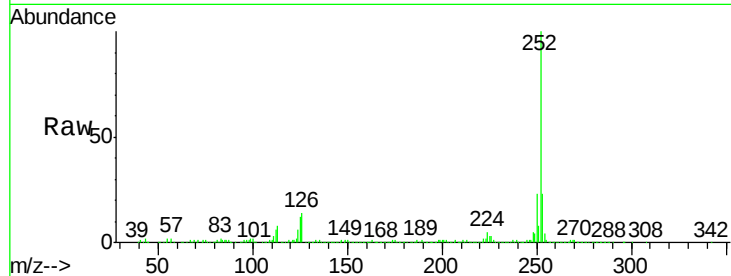




#88  
Benzo(k)fluoranthene  
Concen: 38.062 ng  
RT: 15.09 min Scan# 2210  
Delta R.T. -0.04 min  
Lab File: BF100585.D  
Acq: 15 Nov 2017 13:56

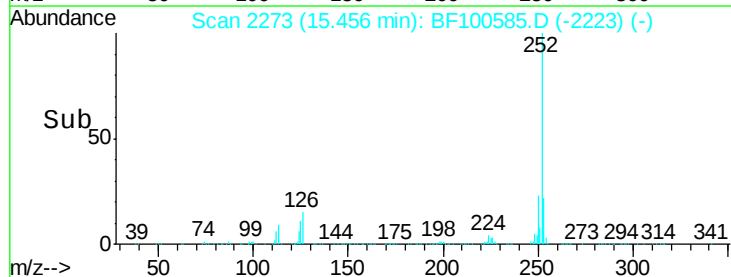
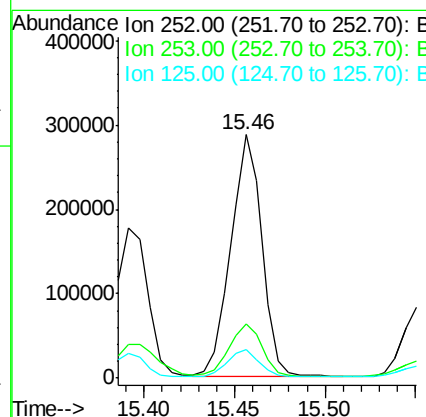
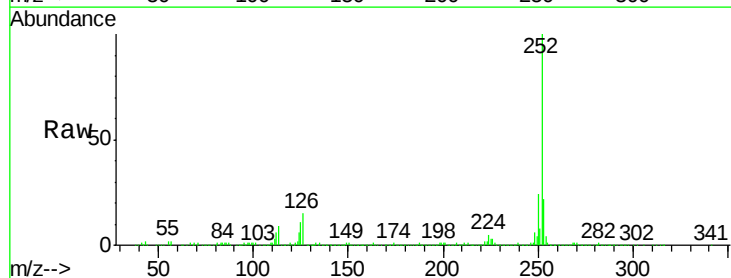
Instrument :  
BNA\_F  
ClientSampleId :  
TP-10

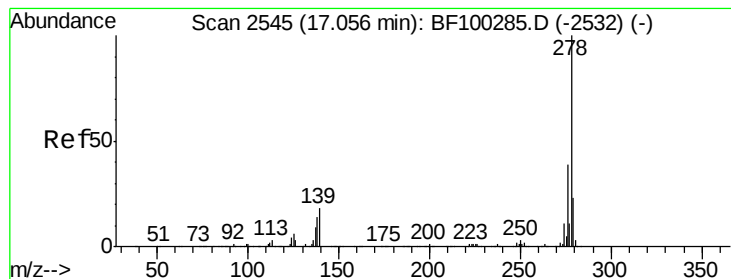
Tgt Ion:252 Resp: 617093  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.9 26.9  
125 12.4 10.2 15.2



#89  
Benzo(a)pyrene  
Concen: 22.563 ng  
RT: 15.46 min Scan# 2273  
Delta R.T. -0.01 min  
Lab File: BF100585.D  
Acq: 15 Nov 2017 13:56

Tgt Ion:252 Resp: 343236  
Ion Ratio Lower Upper  
252 100  
253 22.3 17.1 25.7  
125 11.5 9.8 14.6





#90

Dibenzo(a,h)anthracene

Concen: 3.421 ng

RT: 17.01 min Scan# 2537

Delta R.T. -0.02 min

Lab File: BF100585.D

Acq: 15 Nov 2017 13:56

Instrument :

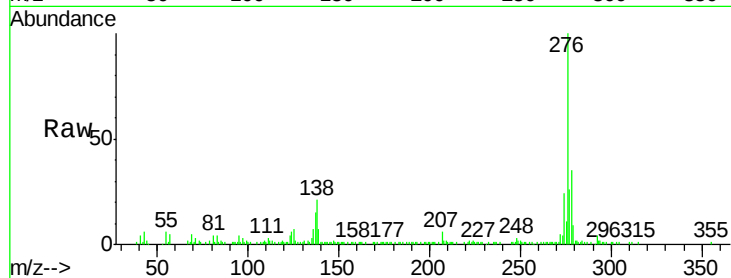
BNA\_F

ClientSampleId :

TP-10

Tgt Ion: 278 Resp: 42553

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 21.0  | 15.9  | 23.9  |
| 279 | 27.1  | 19.0  | 28.4  |

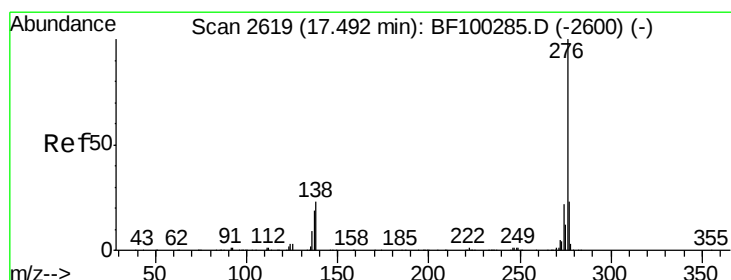
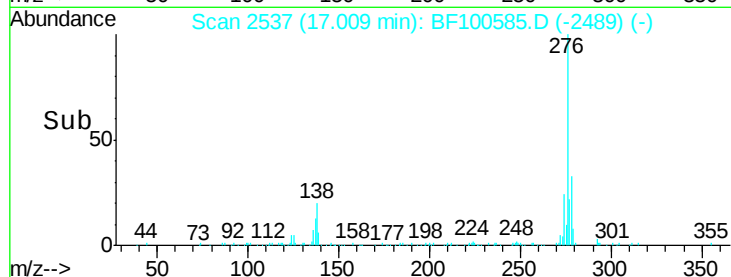
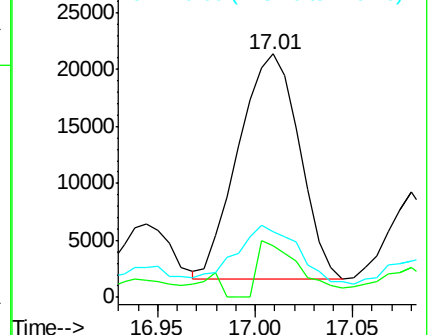


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 11.751 ng

RT: 17.45 min Scan# 2612

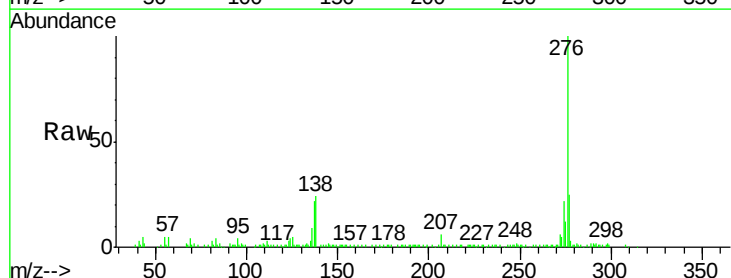
Delta R.T. -0.01 min

Lab File: BF100585.D

Acq: 15 Nov 2017 13:56

Tgt Ion: 276 Resp: 143108

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 25.2  | 17.9  | 26.9  |
| 138 | 24.0  | 21.8  | 32.8  |



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

