

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF111617\  
 Data File : BF100635.D  
 Acq On : 16 Nov 2017 17:20  
 Operator : SJ/JU  
 Sample : I6305-07 5X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-111317-C

Quant Time: Nov 16 17:46:21 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 16 17:27:23 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.88  | 152  | 93537    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 336386   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.92  | 164  | 135094   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 222105   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.04 | 240  | 223735   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.52 | 264  | 245735   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |        |       |    |       |
|--------------------------|-------|-----|--------|-------|----|-------|
| 5) 2-Fluorophenol        | 5.49  | 112 | 119189 | 20.43 | ng | 0.00  |
| 7) Phenol-d6             | 6.49  | 99  | 144731 | 20.11 | ng | -0.02 |
| 23) Nitrobenzene-d5      | 7.44  | 82  | 81469  | 16.01 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol | 10.70 | 330 | 21694  | 15.76 | ng | 0.00  |
| 44) 2-Fluorobiphenyl     | 9.23  | 172 | 137297 | 15.48 | ng | 0.00  |
| 78) Terphenyl-d14        | 12.99 | 244 | 105952 | 10.88 | ng | 0.00  |

## Target Compounds

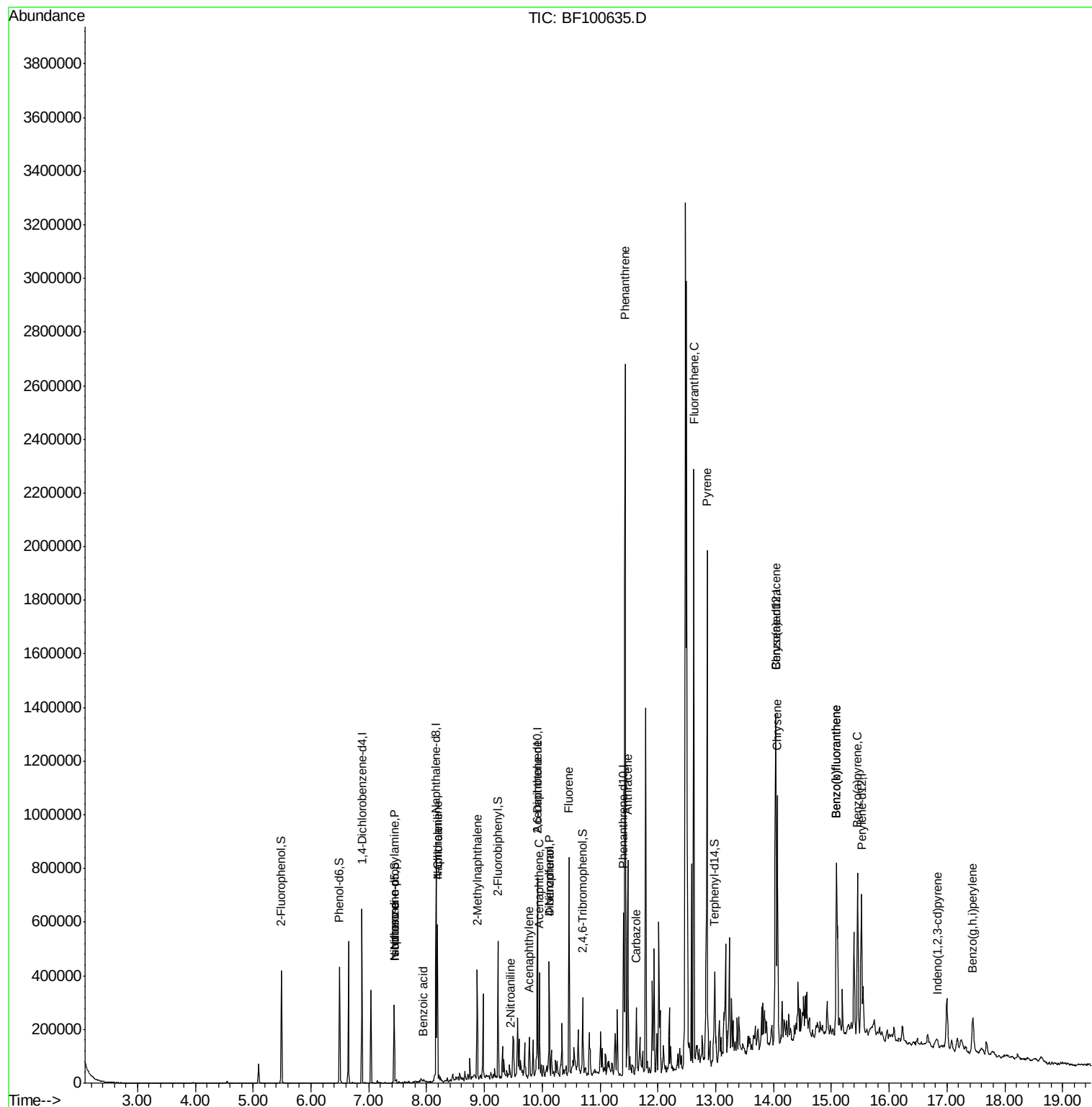
|                                |       |     |        |        |    | Qvalue |
|--------------------------------|-------|-----|--------|--------|----|--------|
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70  | 10248  | 2.054  | ng | # 79   |
| 25) Isophorone                 | 7.44  | 82  | 81468  | 7.619  | ng | # 64   |
| 31) Naphthalene                | 8.19  | 128 | 236511 | 14.598 | ng | 99     |
| 32) Benzoic acid               | 7.94  | 122 | 793    | 9.545  | ng | # 21   |
| 33) 4-Chloroaniline            | 8.19  | 127 | 29867  | 4.429  | ng | # 35   |
| 37) 2-Methylnaphthalene        | 8.87  | 142 | 97411  | 9.056  | ng | 96     |
| 47) 2-Nitroaniline             | 9.45  | 65  | 106    | 2.824  | ng | # 2    |
| 48) Acenaphthylene             | 9.78  | 152 | 41506  | 2.955  | ng | 97     |
| 50) 2,6-Dinitrotoluene         | 9.92  | 165 | 20804  | 10.189 | ng | # 26   |
| 51) Acenaphthene               | 9.95  | 154 | 72856  | 8.528  | ng | 98     |
| 54) Dibenzofuran               | 10.12 | 168 | 142088 | 11.866 | ng | 95     |
| 55) 4-Nitrophenol              | 10.12 | 139 | 50078  | 25.580 | ng | # 10   |
| 57) Fluorene                   | 10.46 | 166 | 212302 | 24.203 | ng | 98     |
| 70) Phenanthrene               | 11.43 | 178 | 984665 | 84.202 | ng | 99     |
| 71) Anthracene                 | 11.48 | 178 | 277034 | 23.350 | ng | 99     |
| 72) Carbazole                  | 11.63 | 167 | 92459  | 8.446  | ng | 100    |
| 74) Fluoranthene               | 12.62 | 202 | 887742 | 71.629 | ng | 98     |
| 77) Pyrene                     | 12.85 | 202 | 775528 | 48.626 | ng | 99     |
| 80) Benzo(a)anthracene         | 14.03 | 228 | 411480 | 30.541 | ng | 97     |
| 82) Chrysene                   | 14.07 | 228 | 338465 | 25.942 | ng | 98     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.83 | 276 | 25455  | 2.412  | ng | 95     |
| 87) Benzo(b)fluoranthene       | 15.09 | 252 | 548561 | 37.680 | ng | 98     |
| 88) Benzo(k)fluoranthene       | 15.09 | 252 | 548561 | 39.879 | ng | 98     |
| 89) Benzo(a)pyrene             | 15.46 | 252 | 301941 | 23.394 | ng | 97     |
| 91) Benzo(g,h,i)perylene       | 17.45 | 276 | 107115 | 10.367 | ng | 95     |

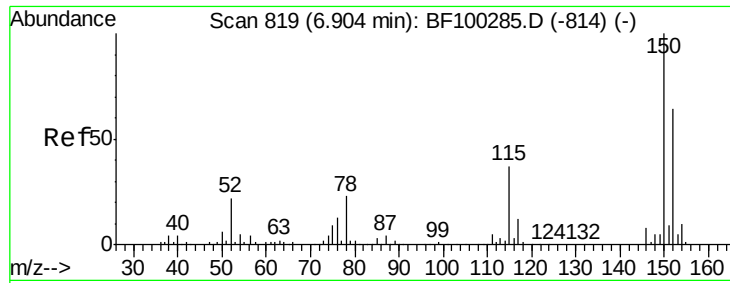
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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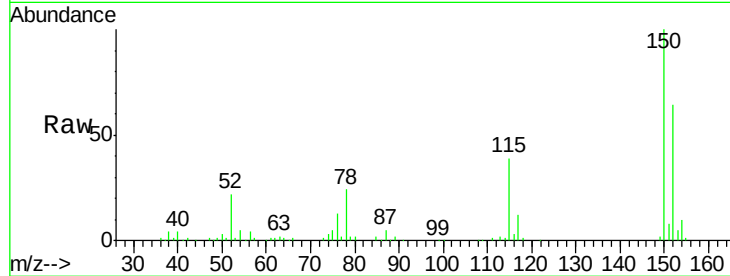


#1

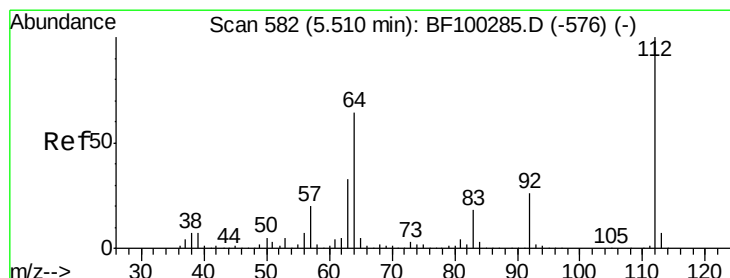
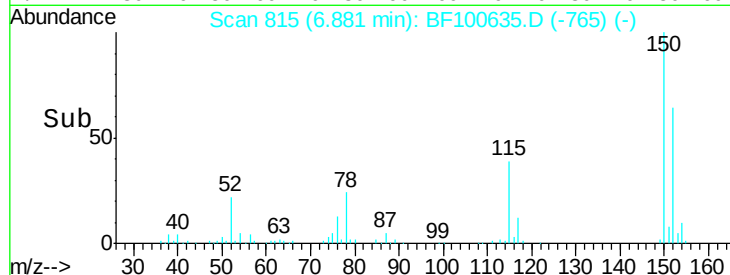
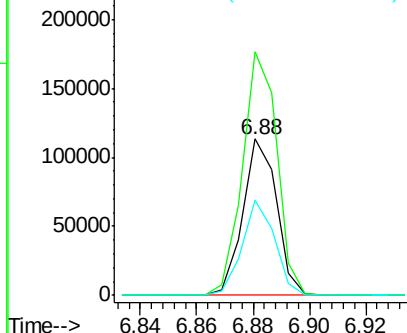
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. -0.01 min  
Lab File: BF100635.D  
Acq: 16 Nov 2017 17:20

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-111317-C

Tgt Ion:152 Resp: 93537  
Ion Ratio Lower Upper  
152 100  
150 155.9 124.6 186.8  
115 60.9 50.1 75.1



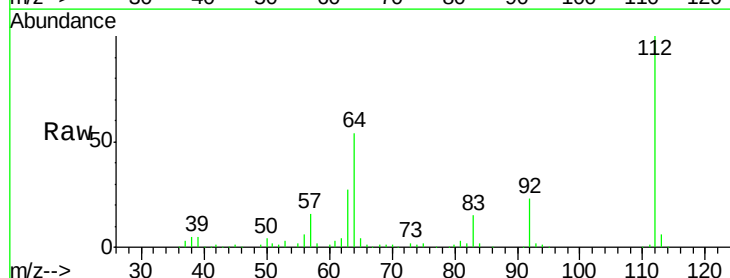
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



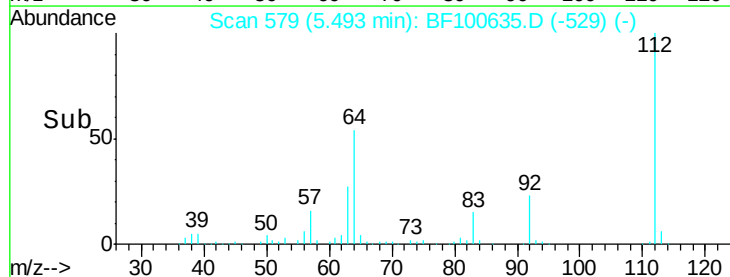
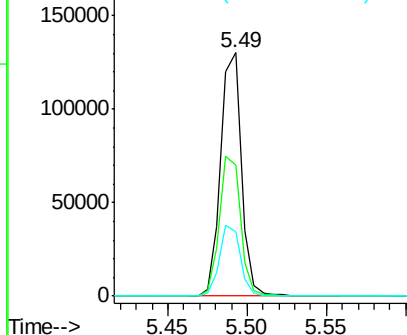
#5

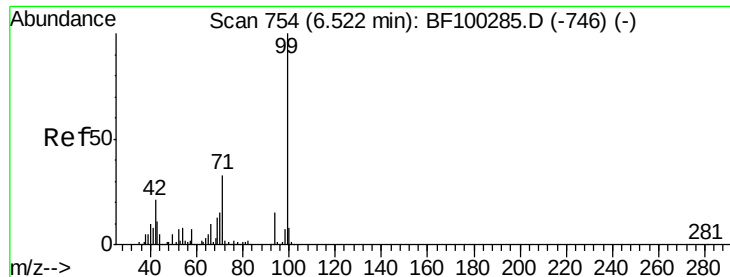
2-Fluorophenol  
Concen: 20.426 ng  
RT: 5.49 min Scan# 579  
Delta R.T. -0.01 min  
Lab File: BF100635.D  
Acq: 16 Nov 2017 17:20

Tgt Ion:112 Resp: 119189  
Ion Ratio Lower Upper  
112 100  
64 53.6 47.9 71.9  
63 26.6 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: 20.114 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.02 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

Instrument :

BNA\_F

ClientSampleId :

PL-01-111317-C

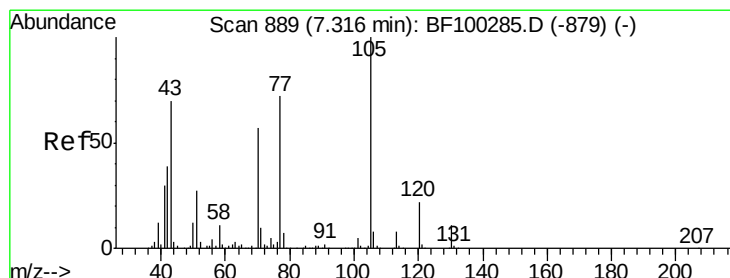
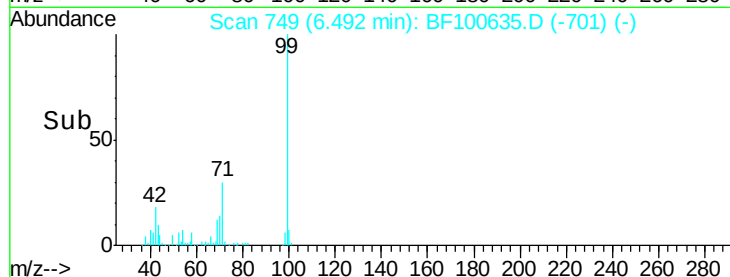
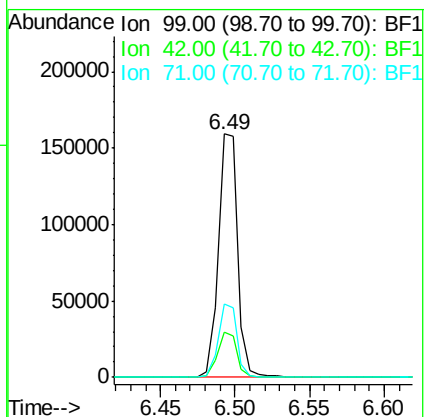
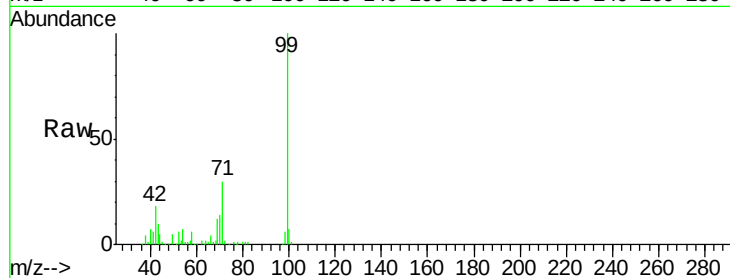
Tgt Ion: 99 Resp: 144731

Ion Ratio Lower Upper

99 100

42 18.3 14.5 21.7

71 30.0 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 2.054 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.14 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

Tgt Ion: 70 Resp: 10248

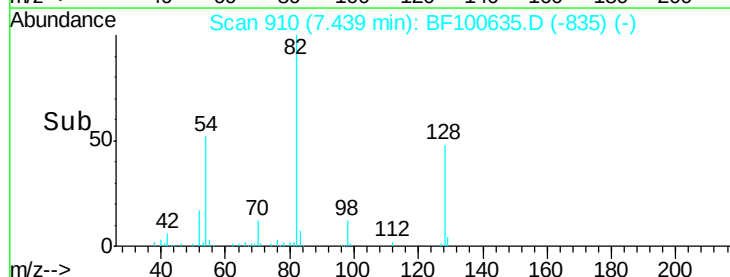
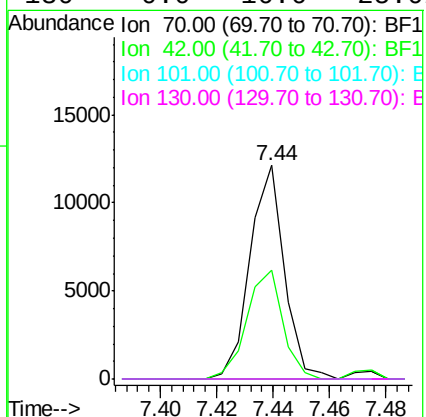
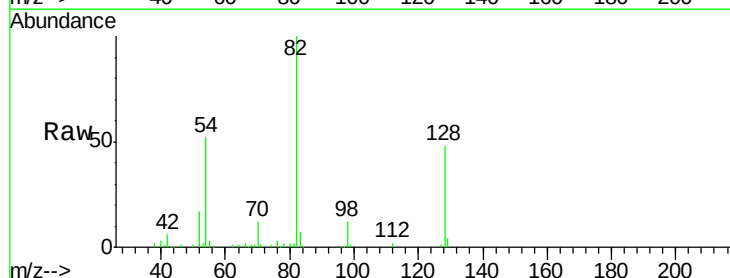
Ion Ratio Lower Upper

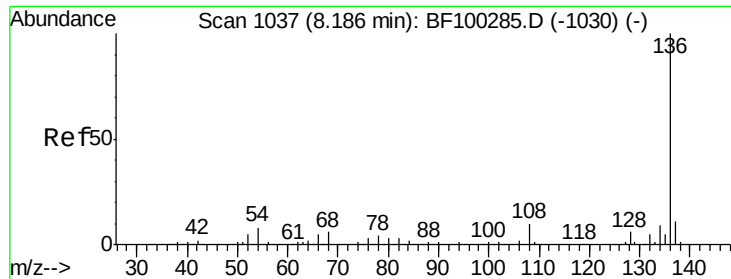
70 100

42 50.7 47.5 71.3

101 0.0 7.4 11.2#

130 0.0 16.6 25.0#

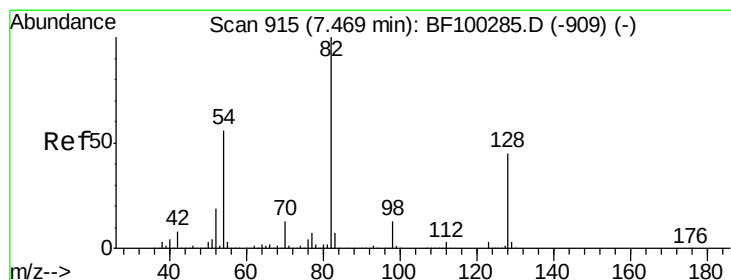
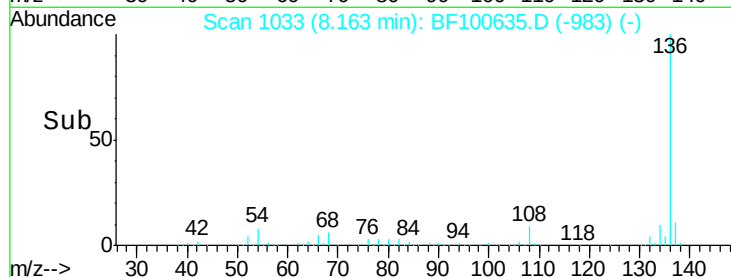
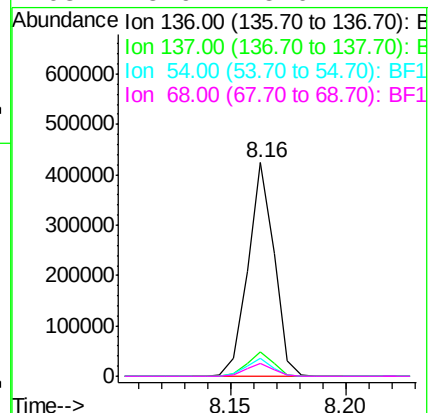
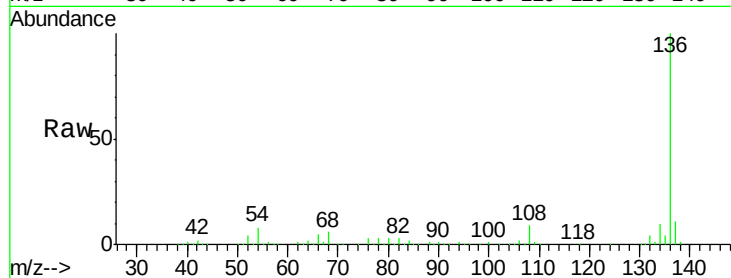




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.16 min Scan# 1033  
Delta R.T. -0.01 min  
Lab File: BF100635.D  
Acq: 16 Nov 2017 17:20

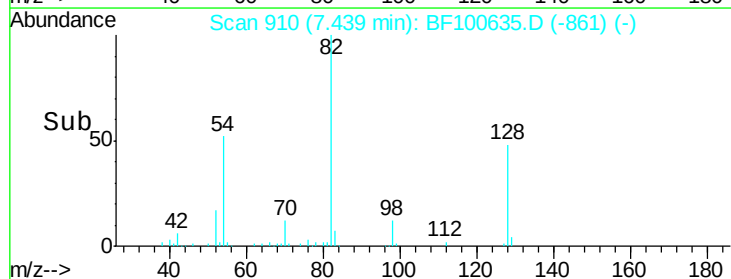
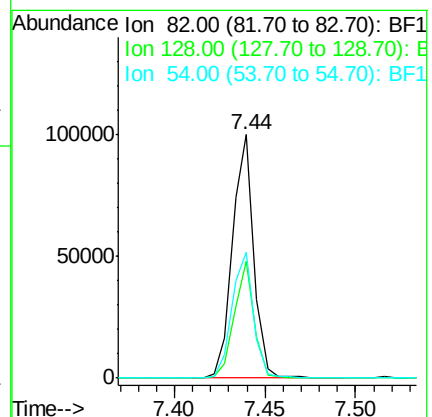
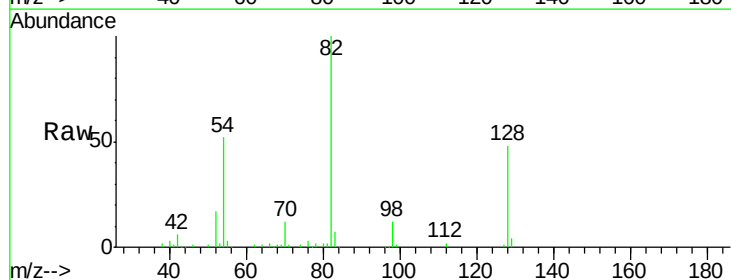
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PL-01-111317-C

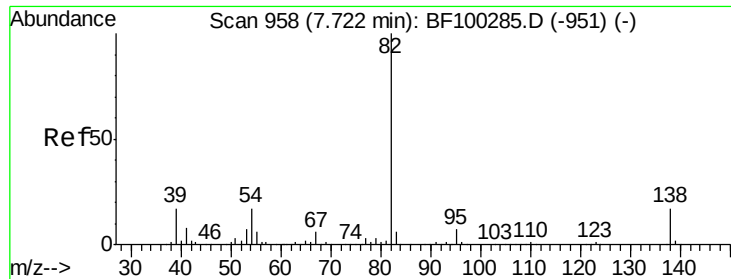
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 336386 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 8.9   | 13.3   |
| 54       | 8.4   | 6.6   | 9.8    |
| 68       | 5.9   | 5.0   | 7.4    |



#23  
Nitrobenzene-d5  
Concen: 16.012 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.01 min  
Lab File: BF100635.D  
Acq: 16 Nov 2017 17:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 81469 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 47.8  | 36.1  | 54.1  |
| 54       | 51.6  | 41.4  | 62.2  |





#25

Isophorone

Concen: 7.619 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.27 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

Instrument :

BNA\_F

ClientSampleId :

PL-01-111317-C

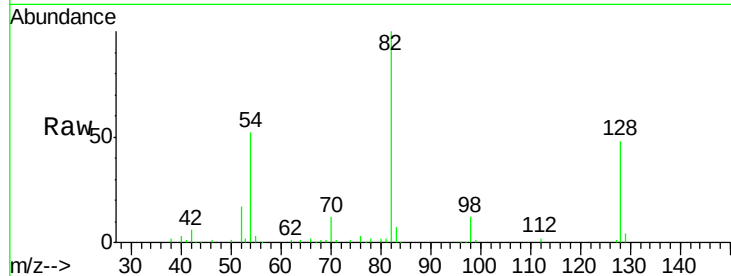
Tgt Ion: 82 Resp: 81468

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

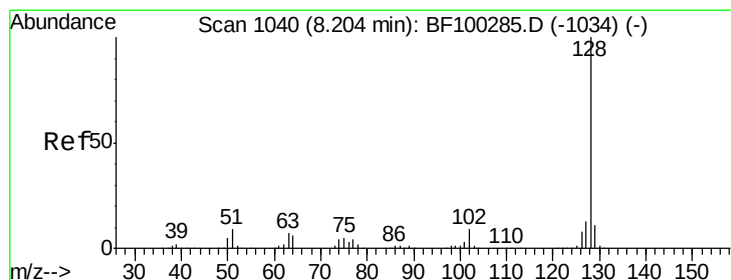
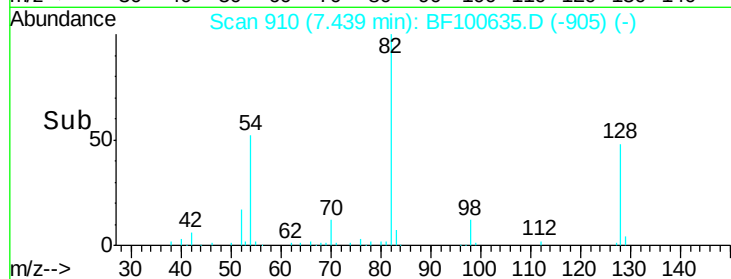
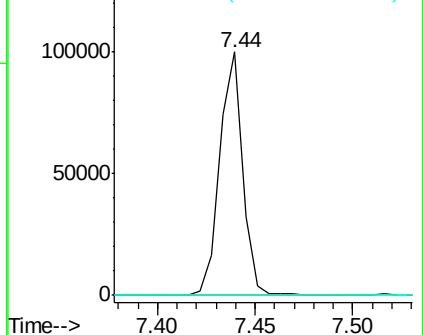
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#31

Naphthalene

Concen: 14.598 ng

RT: 8.19 min Scan# 1037

Delta R.T. -0.01 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

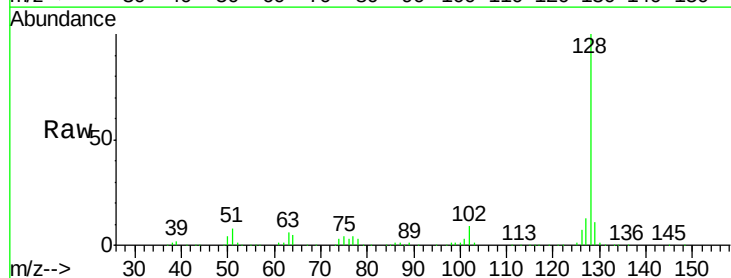
Tgt Ion: 128 Resp: 236511

Ion Ratio Lower Upper

128 100

129 10.6 8.8 13.2

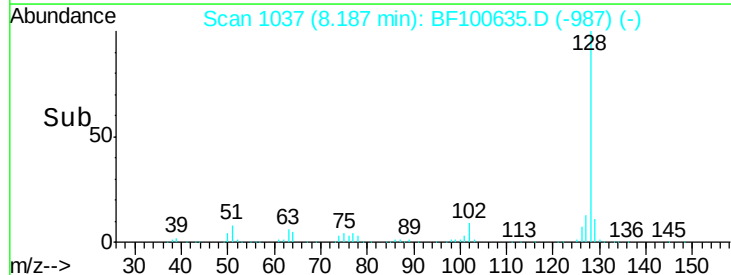
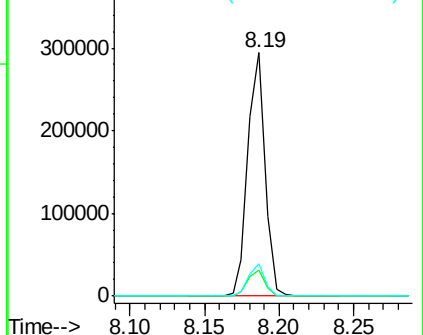
127 13.1 10.9 16.3

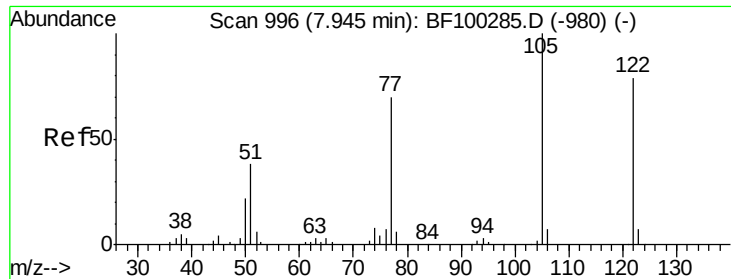


Abundance Ion 128.00 (127.70 to 128.70): BF1

Ion 129.00 (128.70 to 129.70): BF1

Ion 127.00 (126.70 to 127.70): BF1

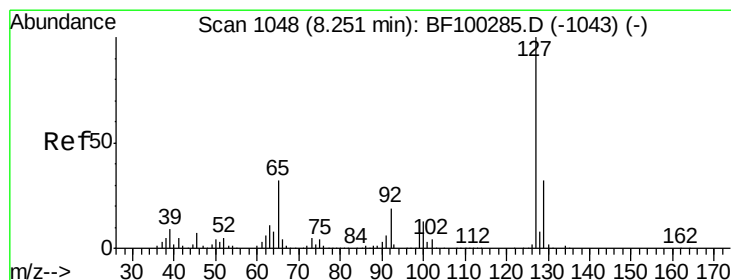
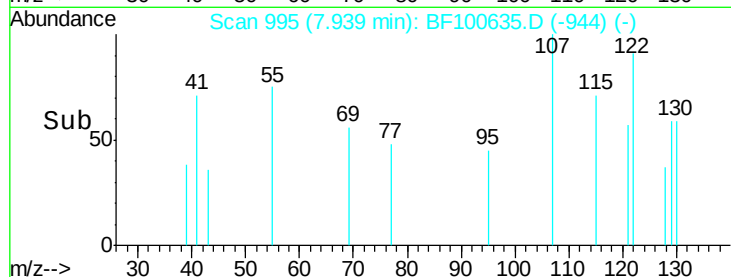
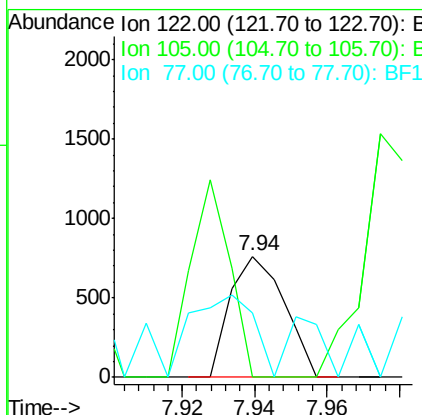
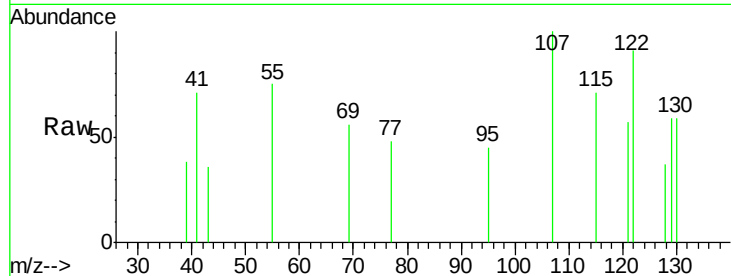




#32  
Benzoic acid  
Concen: 9.545 ng  
RT: 7.94 min Scan# 995  
Delta R.T. 0.00 min  
Lab File: BF100635.D  
Acq: 16 Nov 2017 17:20

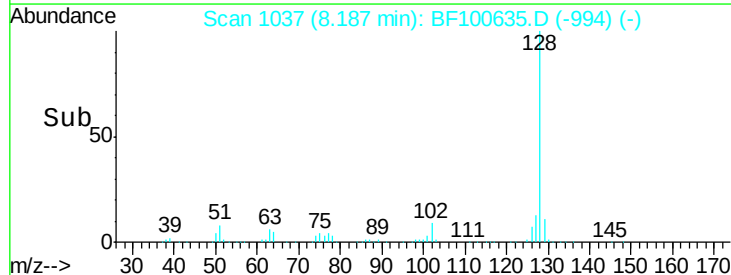
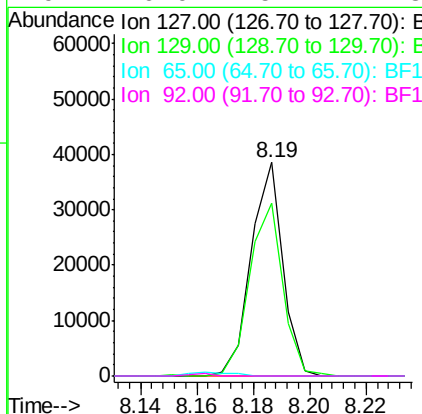
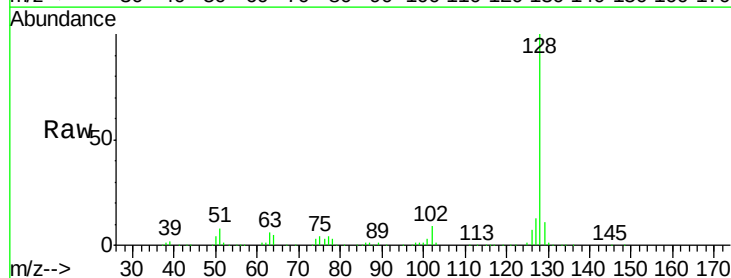
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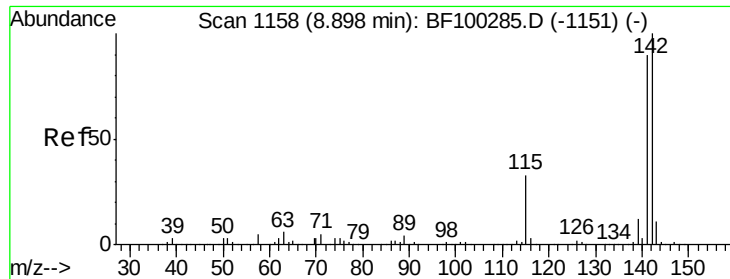
Tgt Ion:122 Resp: 793  
Ion Ratio Lower Upper  
122 100  
105 0.0 101.1 141.1#  
77 53.5 70.7 110.7#



#33  
4-Chloroaniline  
Concen: 4.429 ng  
RT: 8.19 min Scan# 1037  
Delta R.T. -0.05 min  
Lab File: BF100635.D  
Acq: 16 Nov 2017 17:20

Tgt Ion:127 Resp: 29867  
Ion Ratio Lower Upper  
127 100  
129 81.0 25.9 38.9#  
65 0.0 25.0 37.4#  
92 0.0 15.2 22.8#

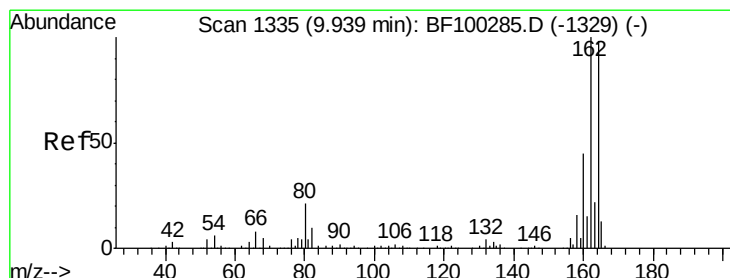
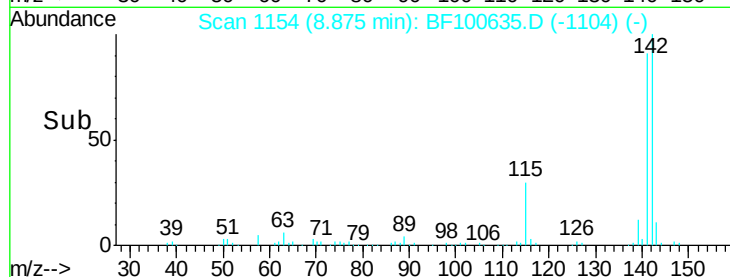
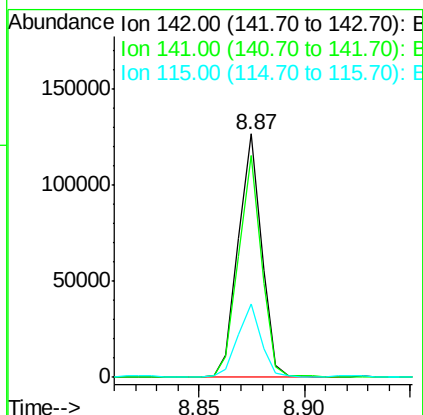
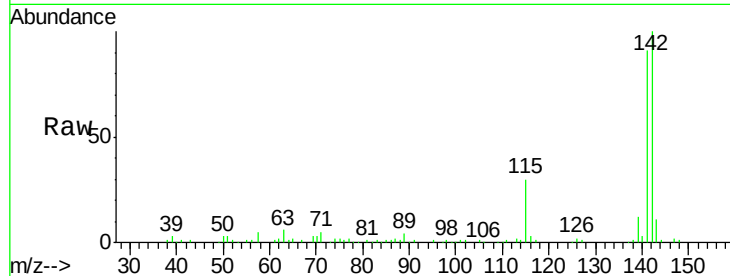




#37  
2-Methylnaphthalene  
Concen: 9.056 ng  
RT: 8.87 min Scan# 1154  
Delta R.T. -0.01 min  
Lab File: BF100635.D  
Acq: 16 Nov 2017 17:20

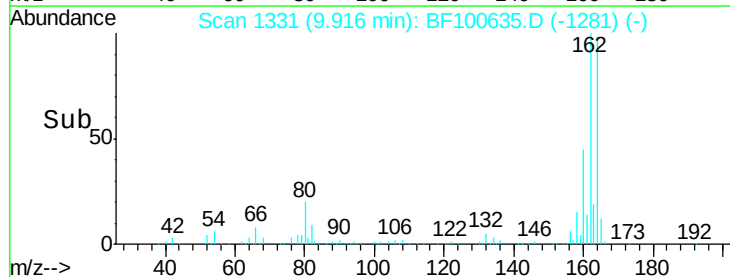
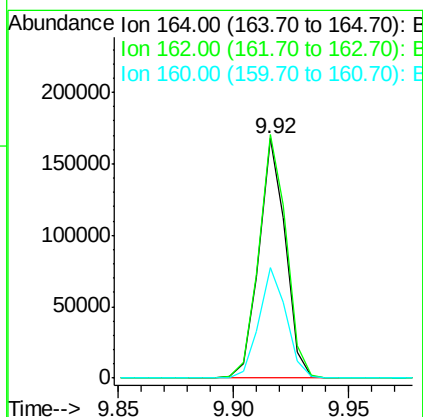
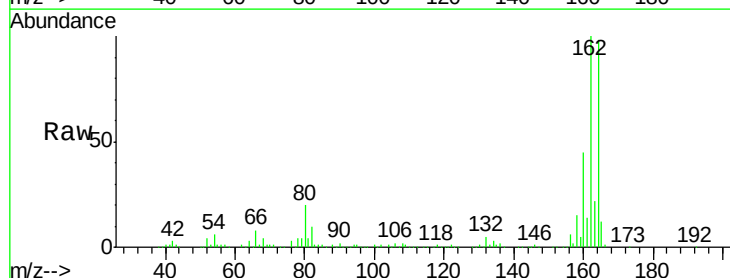
Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-111317-C

Tgt Ion:142 Resp: 97411  
Ion Ratio Lower Upper  
142 100  
141 91.4 70.8 106.2  
115 29.9 26.1 39.1

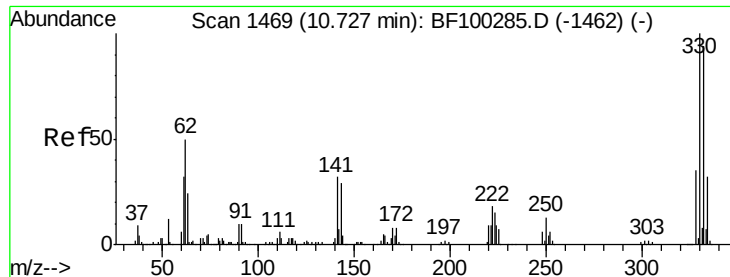


#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.92 min Scan# 1331  
Delta R.T. -0.01 min  
Lab File: BF100635.D  
Acq: 16 Nov 2017 17:20

Tgt Ion:164 Resp: 135094  
Ion Ratio Lower Upper  
164 100  
162 101.7 86.1 129.1  
160 46.2 38.3 57.5



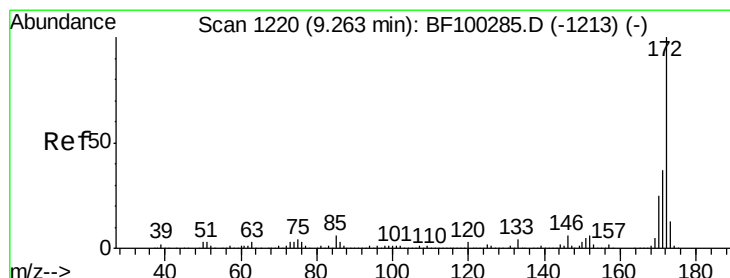
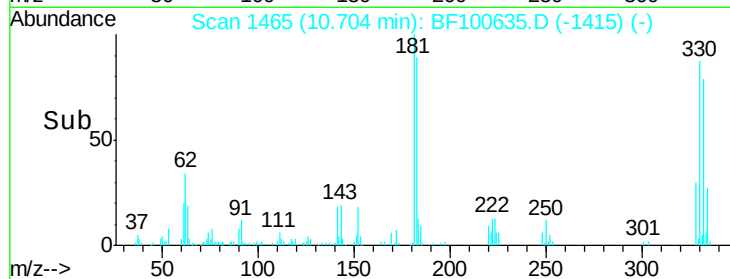
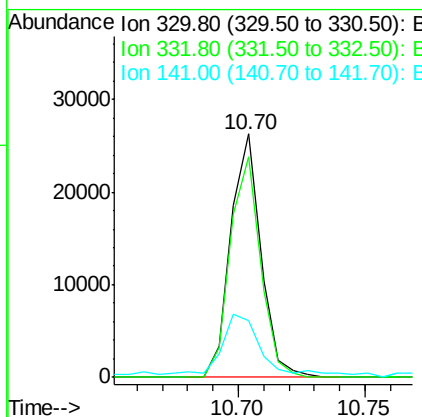
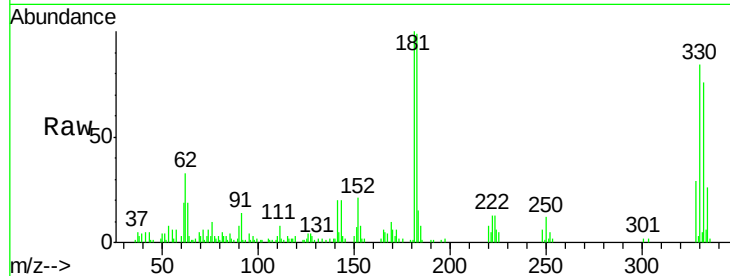




#41  
 2,4,6-Tribromophenol  
 Concen: 15.759 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. -0.01 min  
 Lab File: BF100635.D  
 Acq: 16 Nov 2017 17:20

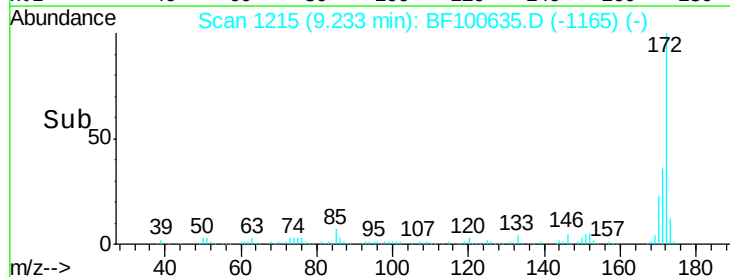
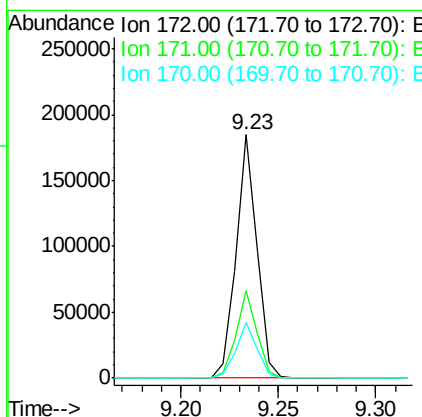
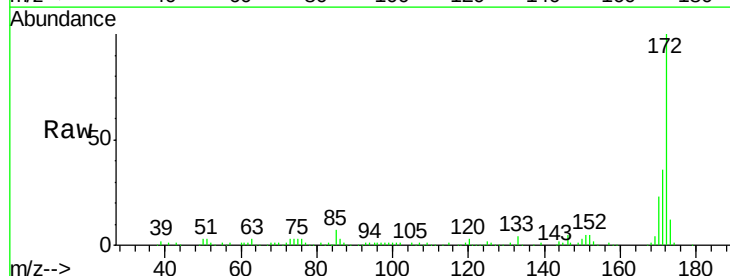
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-111317-C

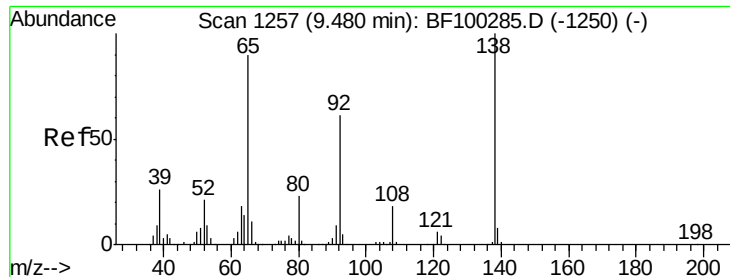
Tgt Ion:330 Resp: 21694  
 Ion Ratio Lower Upper  
 330 100  
 332 91.2 77.0 115.6  
 141 37.5 29.9 44.9



#44  
 2-Fluorobiphenyl  
 Concen: 15.475 ng  
 RT: 9.23 min Scan# 1215  
 Delta R.T. -0.01 min  
 Lab File: BF100635.D  
 Acq: 16 Nov 2017 17:20

Tgt Ion:172 Resp: 137297  
 Ion Ratio Lower Upper  
 172 100  
 171 35.9 29.7 44.5  
 170 22.6 19.6 29.4





#47

2-Nitroaniline

Concen: 2.824 ng

RT: 9.45 min Scan# 1252

Delta R.T. -0.01 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

Instrument :

BNA\_F

ClientSampleId :

PL-01-111317-C

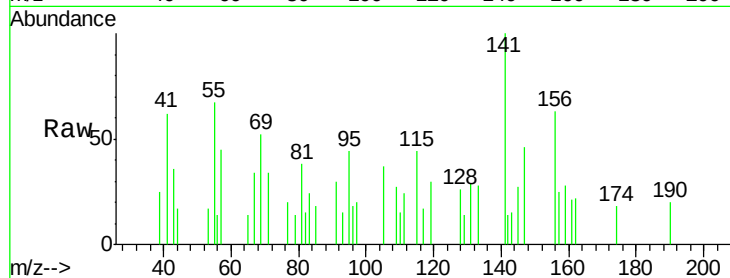
Tgt Ion: 65 Resp: 106

Ion Ratio Lower Upper

65 100

92 0.0 55.8 83.6#

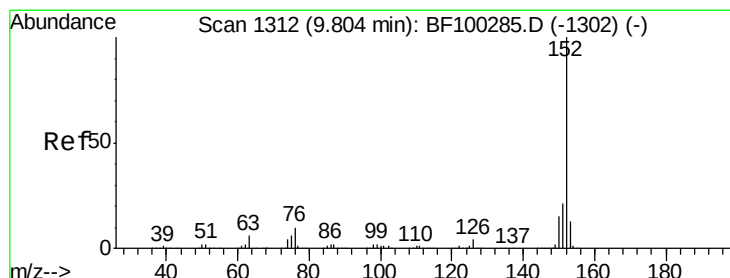
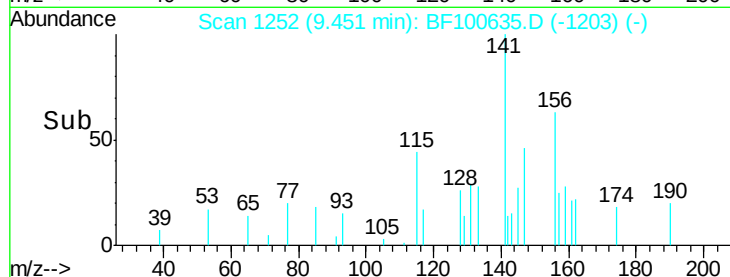
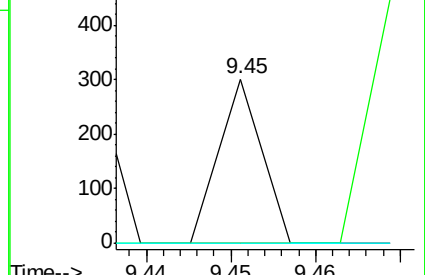
138 0.0 91.2 136.8#



Abundance Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#48

Acenaphthylene

Concen: 2.955 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

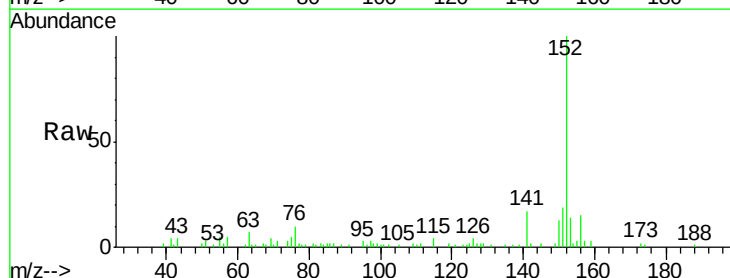
Tgt Ion: 152 Resp: 41506

Ion Ratio Lower Upper

152 100

151 19.1 16.3 24.5

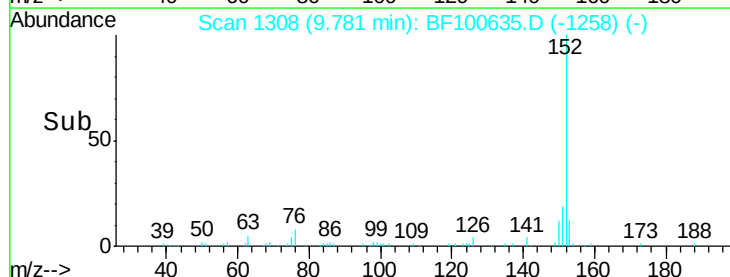
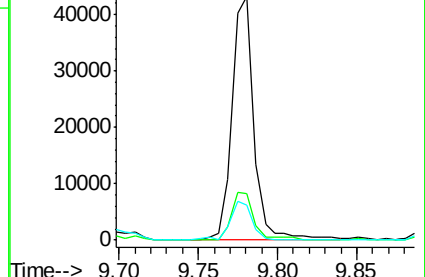
153 14.4 10.7 16.1

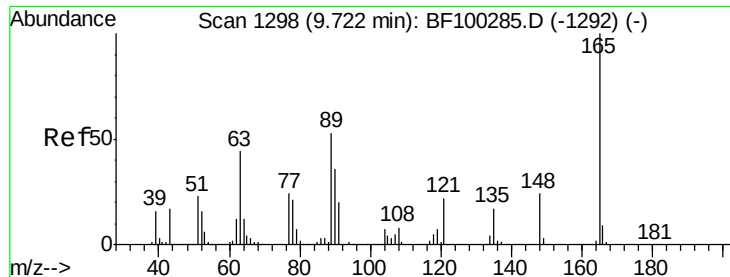


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

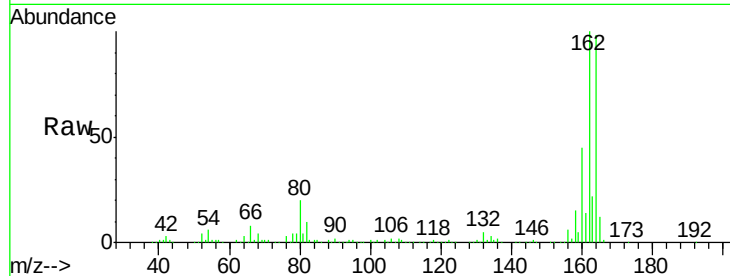




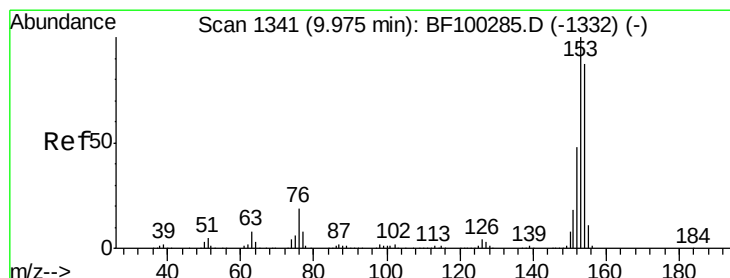
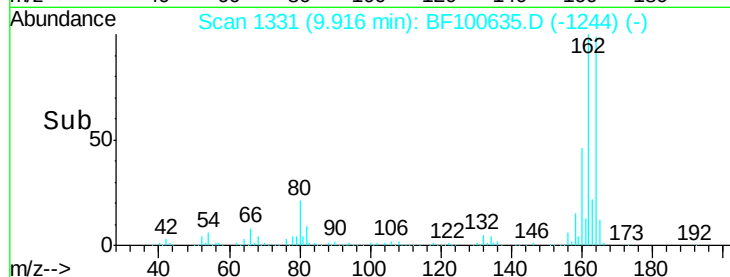
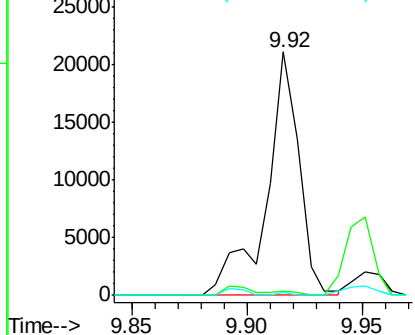
#50  
2,6-Dinitrotoluene  
Concen: 10.189 ng  
RT: 9.92 min Scan# 1331  
Delta R.T. 0.21 min  
Lab File: BF100635.D  
Acq: 16 Nov 2017 17:20

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-111317-C

Tgt Ion:165 Resp: 20804  
Ion Ratio Lower Upper  
165 100  
63 1.7 44.7 67.1#  
89 1.4 44.0 66.0#

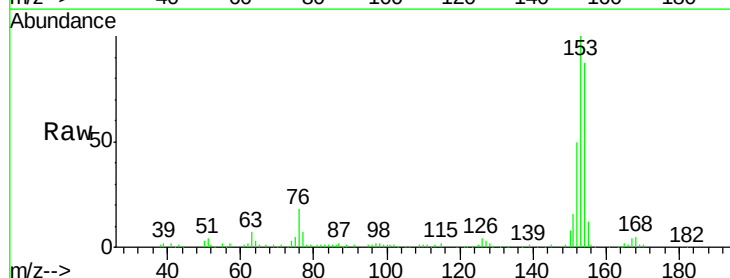


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1

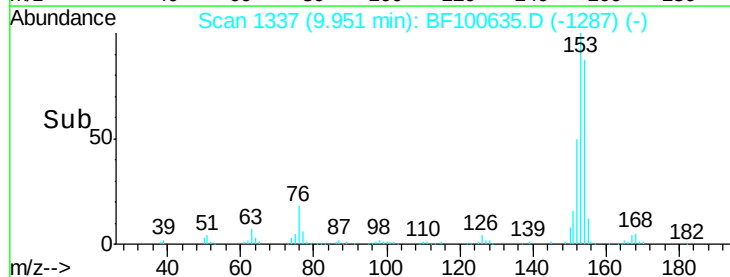
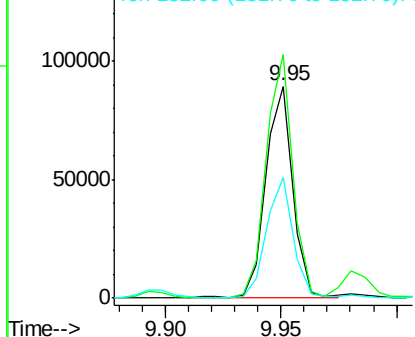


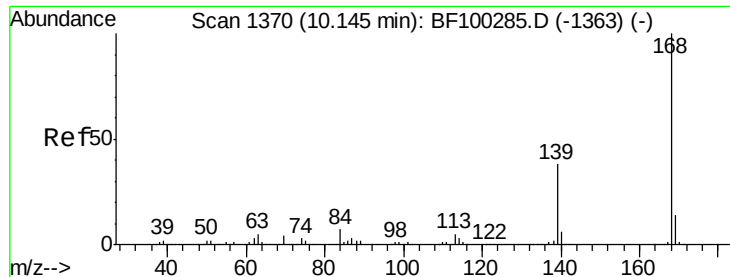
#51  
Acenaphthene  
Concen: 8.528 ng  
RT: 9.95 min Scan# 1337  
Delta R.T. -0.01 min  
Lab File: BF100635.D  
Acq: 16 Nov 2017 17:20

Tgt Ion:154 Resp: 72856  
Ion Ratio Lower Upper  
154 100  
153 114.9 91.2 136.8  
152 56.9 43.8 65.8



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





#54

Dibenzenofuran

Concen: 11.866 ng

RT: 10.12 min Scan# 1366

Delta R.T. -0.01 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

Instrument :

BNA\_F

ClientSampleId :

PL-01-111317-C

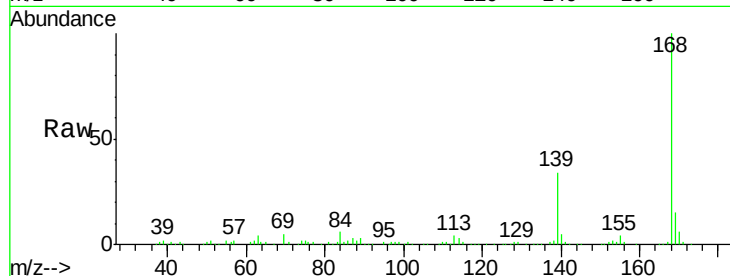
Tgt Ion:168 Resp: 142088

Ion Ratio Lower Upper

168 100

139 34.3 30.1 45.1

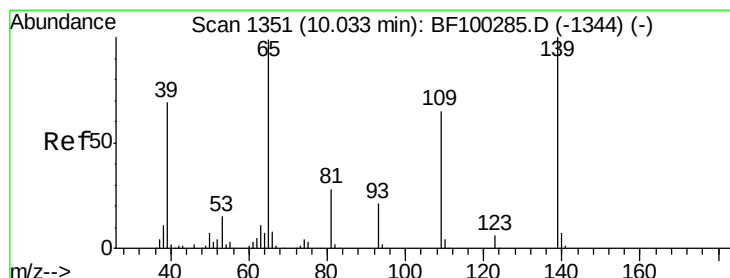
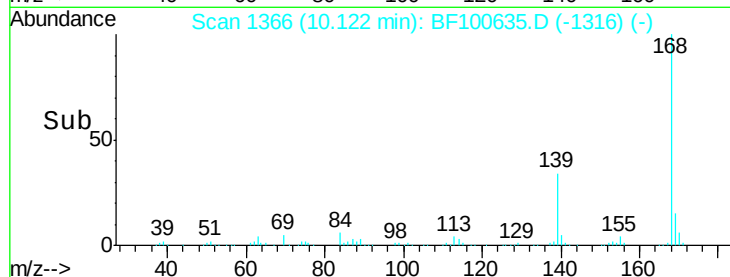
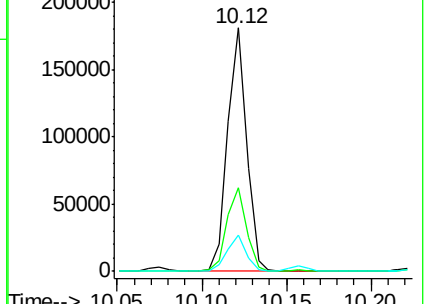
169 14.9 10.9 16.3



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



#55

4-Nitrophenol

Concen: 25.580 ng

RT: 10.12 min Scan# 1366

Delta R.T. 0.09 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

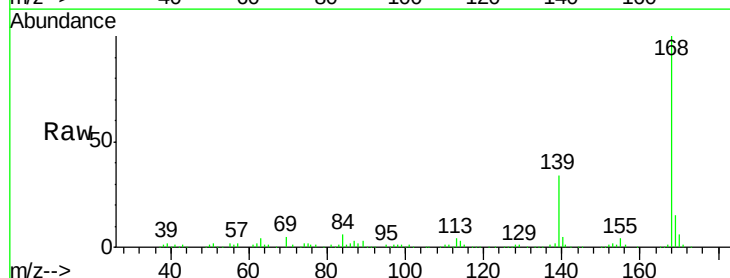
Tgt Ion:139 Resp: 50078

Ion Ratio Lower Upper

139 100

109 1.3 48.4 88.4#

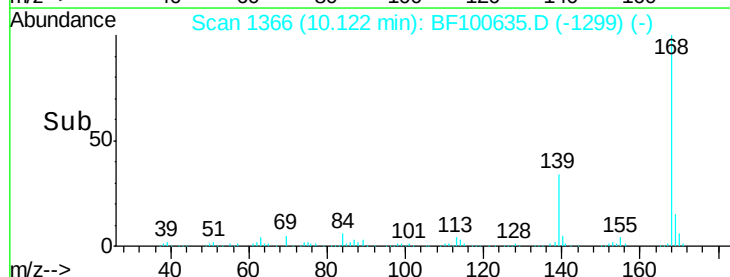
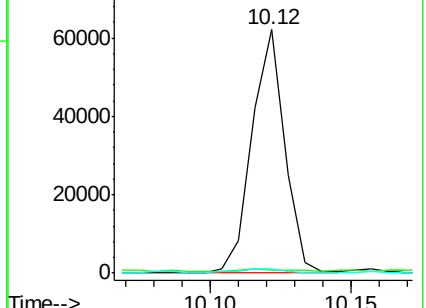
65 1.7 72.6 112.6#

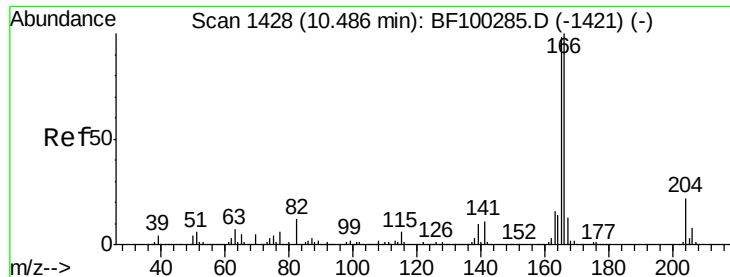


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

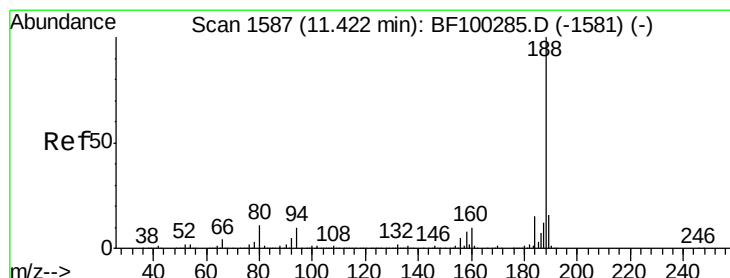
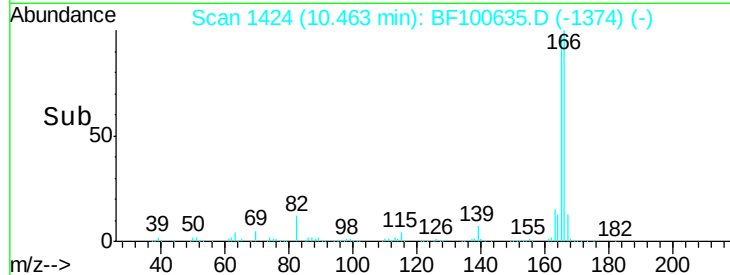
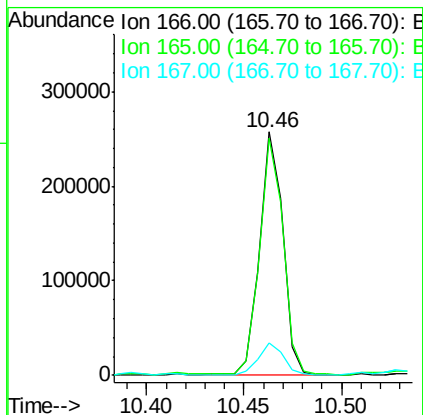
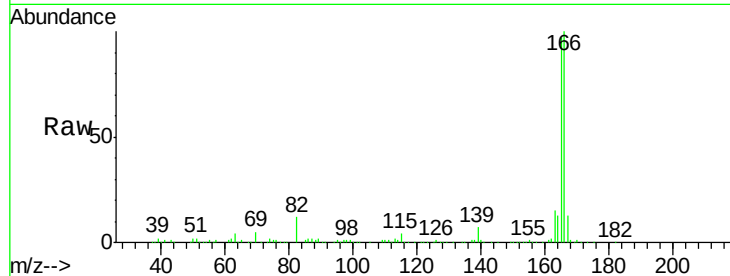




#57  
 Fluorene  
 Concen: 24.203 ng  
 RT: 10.46 min Scan# 1424  
 Delta R.T. -0.01 min  
 Lab File: BF100635.D  
 Acq: 16 Nov 2017 17:20

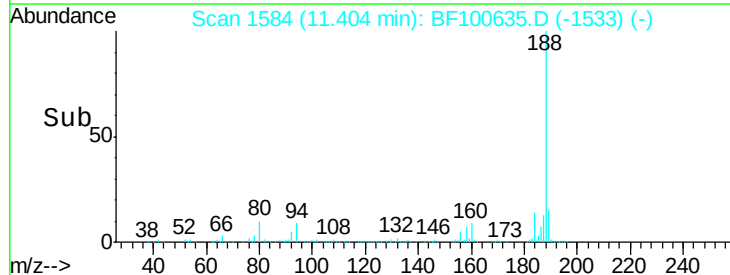
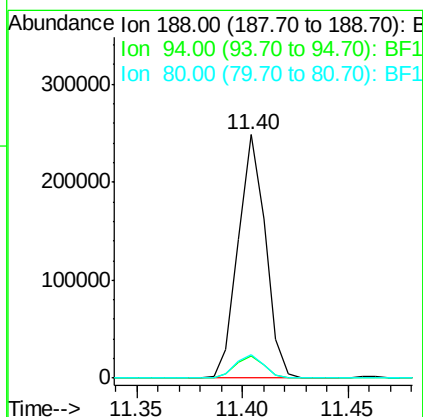
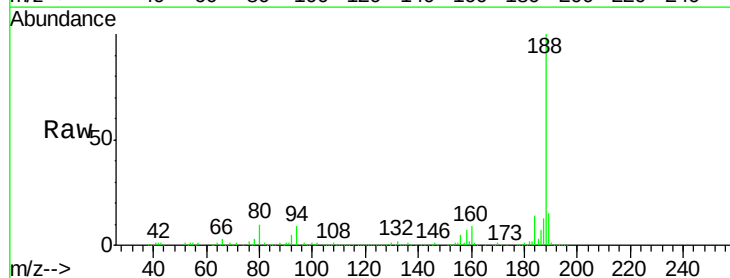
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-01-111317-C

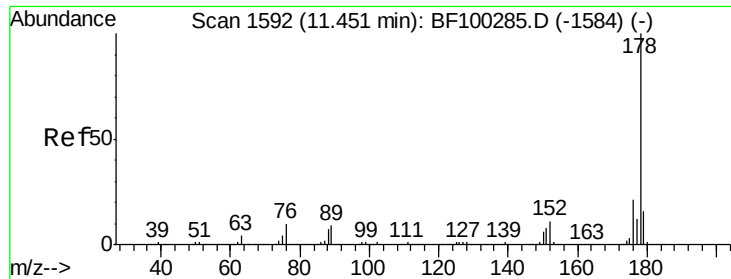
Tgt Ion:166 Resp: 212302  
 Ion Ratio Lower Upper  
 166 100  
 165 97.4 79.8 119.8  
 167 13.4 10.6 16.0



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. 0.00 min  
 Lab File: BF100635.D  
 Acq: 16 Nov 2017 17:20

Tgt Ion:188 Resp: 222105  
 Ion Ratio Lower Upper  
 188 100  
 94 9.1 8.5 12.7  
 80 9.6 9.2 13.8





#70

Phenanthrene

Concen: 84.202 ng

RT: 11.43 min Scan# 1589

Delta R.T. 0.00 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

Instrument :

BNA\_F

ClientSampleId :

PL-01-111317-C

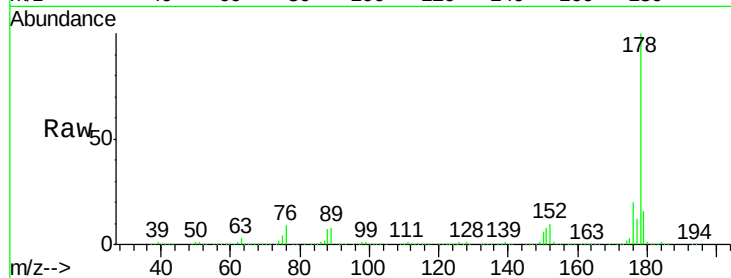
Tgt Ion:178 Resp: 984665

Ion Ratio Lower Upper

178 100

176 19.5 15.8 23.8

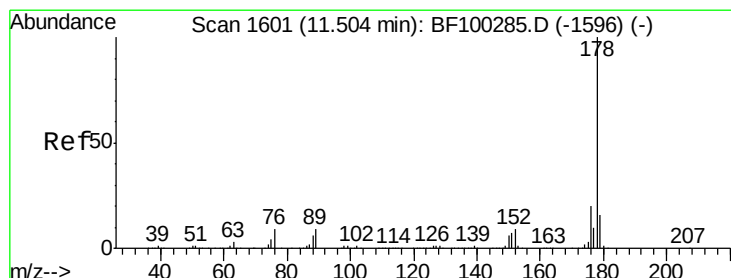
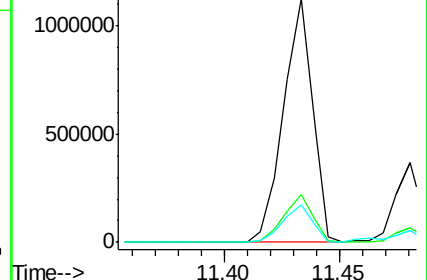
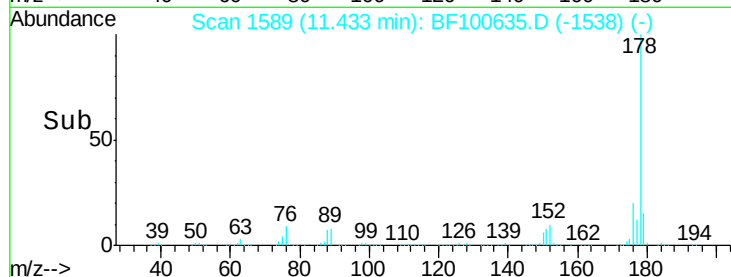
179 15.5 13.0 19.6



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: 23.350 ng

RT: 11.48 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

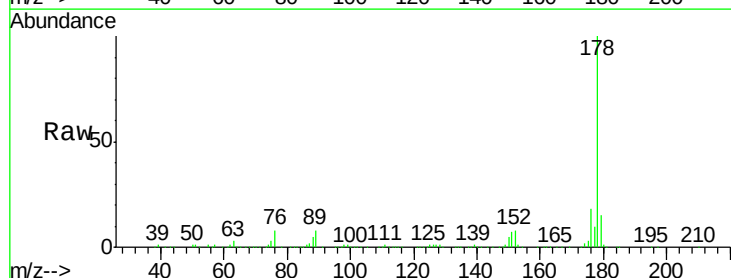
Tgt Ion:178 Resp: 277034

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.2

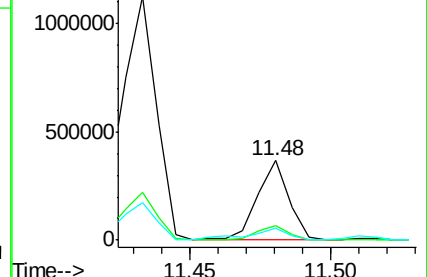
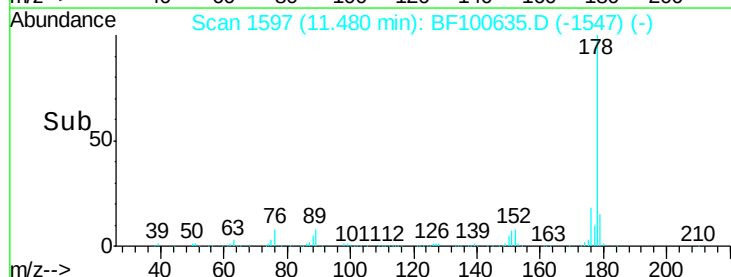
179 15.4 12.6 19.0

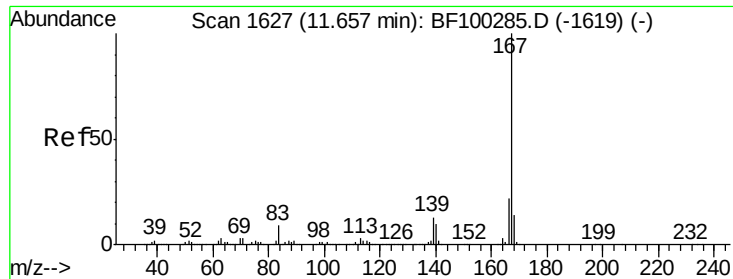


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 8.446 ng

RT: 11.63 min Scan# 1622

Delta R.T. -0.01 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

Instrument :

BNA\_F

ClientSampleId :

PL-01-111317-C

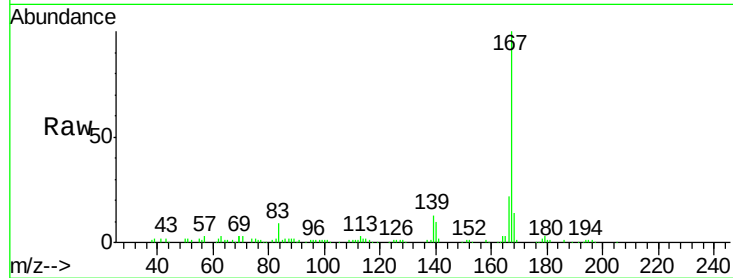
Tgt Ion:167 Resp: 92459

Ion Ratio Lower Upper

167 100

166 22.1 17.6 26.4

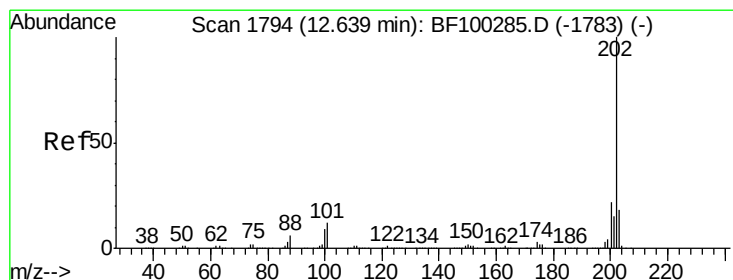
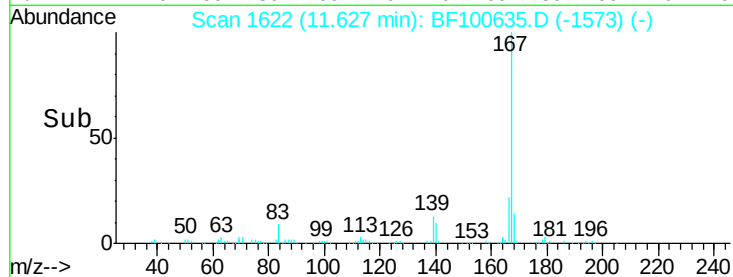
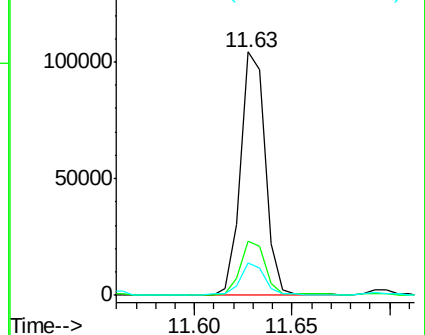
139 13.4 10.9 16.3



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: 71.629 ng

RT: 12.62 min Scan# 1791

Delta R.T. 0.00 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

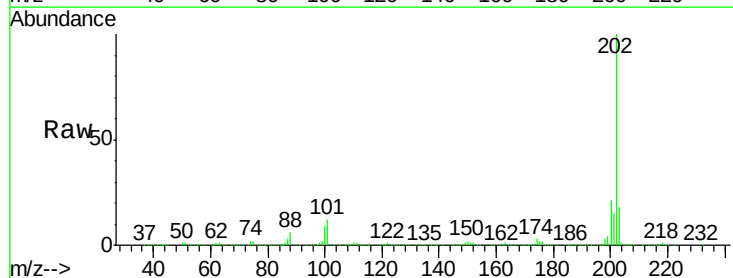
Tgt Ion:202 Resp: 887742

Ion Ratio Lower Upper

202 100

101 12.1 0.0 34.1

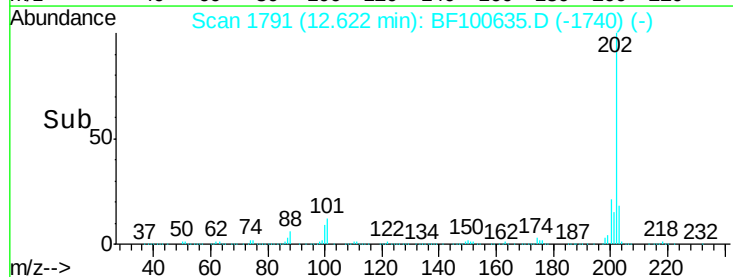
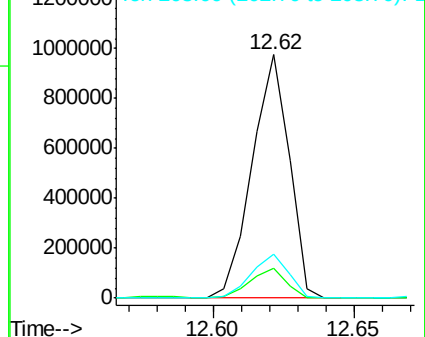
203 17.9 0.0 38.1

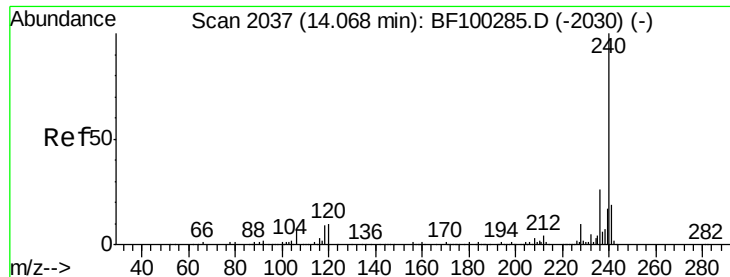


Abundance Ion 202.00 (201.70 to 202.70): E

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. 0.00 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

Instrument :

BNA\_F

ClientSampleId :

PL-01-111317-C

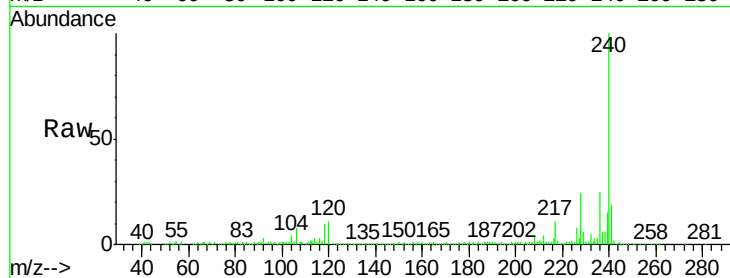
Tgt Ion:240 Resp: 223735

Ion Ratio Lower Upper

240 100

120 11.2 9.5 14.3

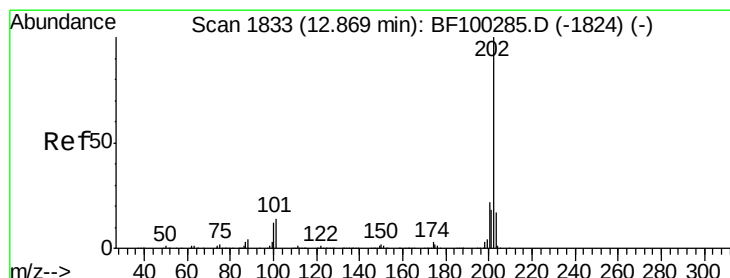
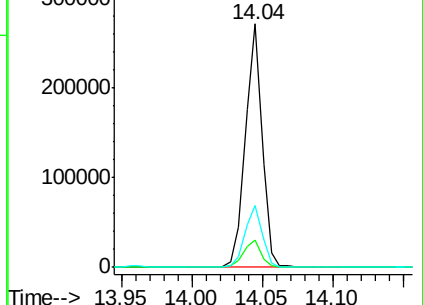
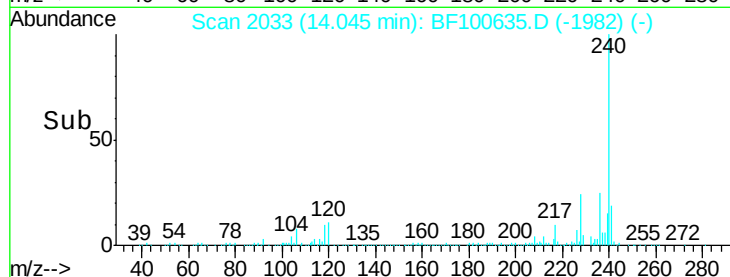
236 25.4 20.7 31.1



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: 48.626 ng

RT: 12.85 min Scan# 1830

Delta R.T. 0.00 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

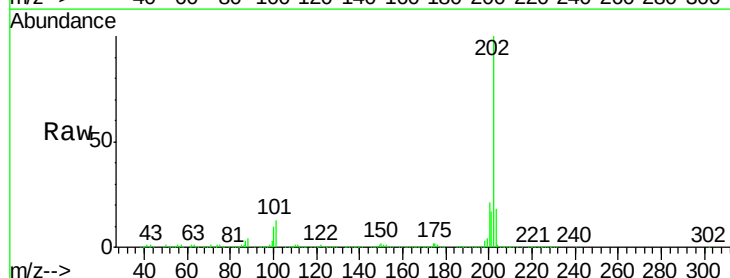
Tgt Ion:202 Resp: 775528

Ion Ratio Lower Upper

202 100

200 21.4 17.4 26.2

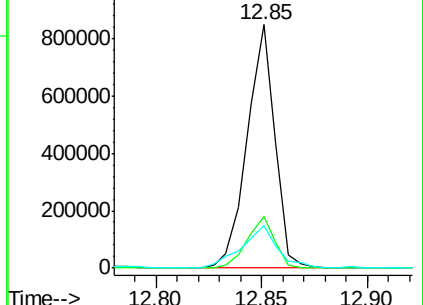
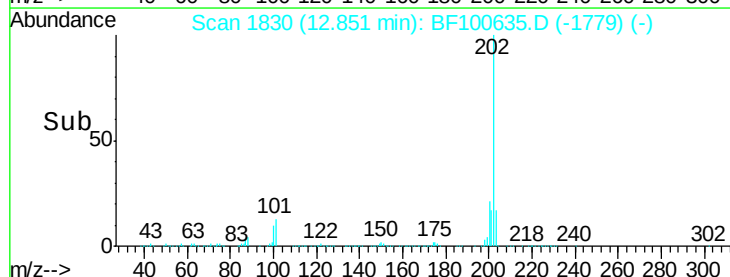
203 17.6 14.3 21.5



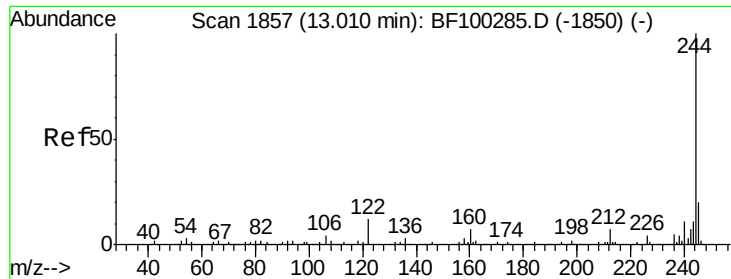
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#78

Terphenyl-d14

Concen: 10.881 ng

RT: 12.99 min Scan# 1853

Delta R.T. -0.01 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

Instrument :

BNA\_F

ClientSampleId :

PL-01-111317-C

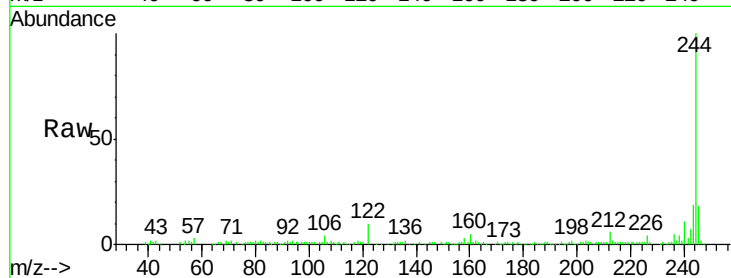
Tgt Ion:244 Resp: 105952

Ion Ratio Lower Upper

244 100

212 6.1 5.4 8.0

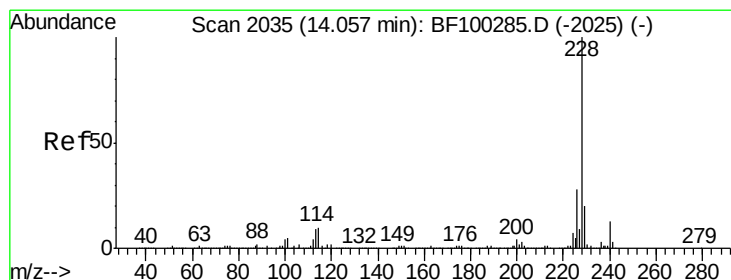
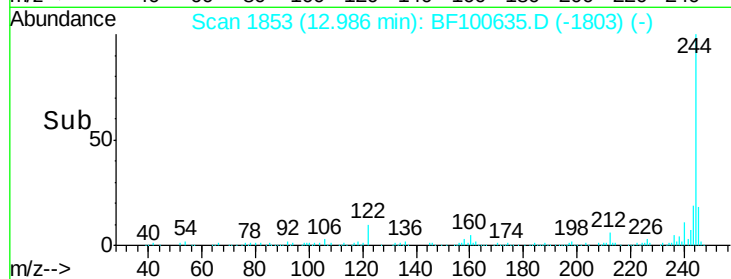
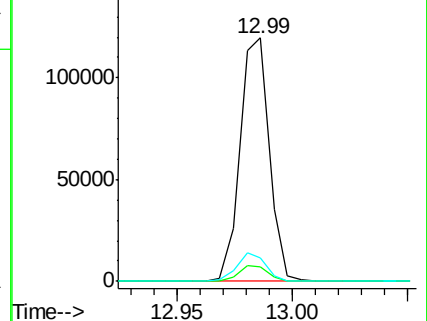
122 9.7 11.0 16.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 30.541 ng

RT: 14.03 min Scan# 2031

Delta R.T. 0.00 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

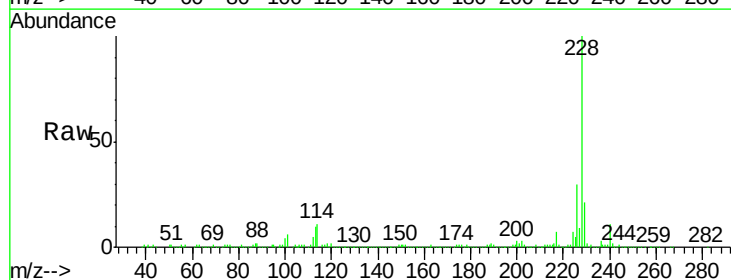
Tgt Ion:228 Resp: 411480

Ion Ratio Lower Upper

228 100

226 29.6 22.6 33.8

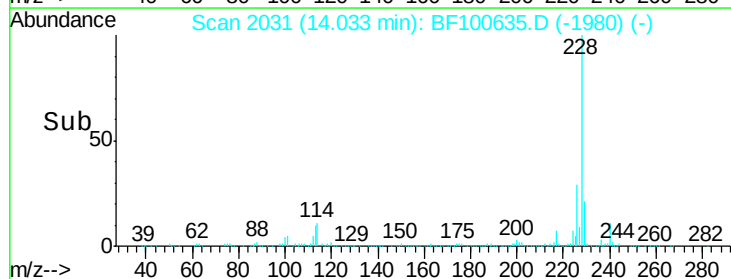
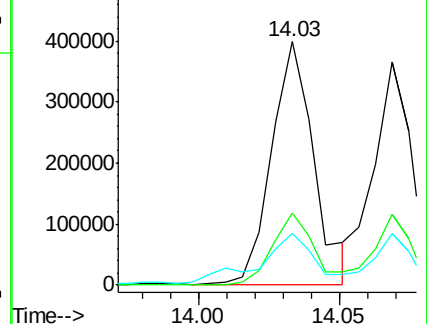
229 21.0 15.8 23.6

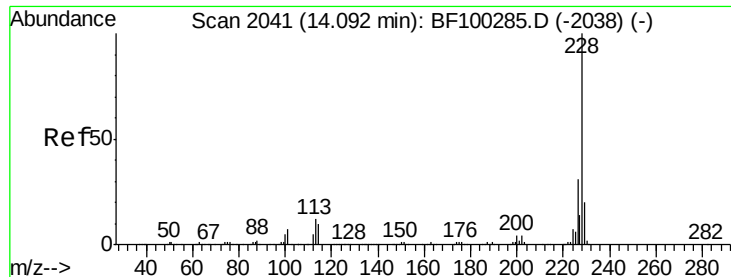


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 25.942 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.01 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

Instrument :

BNA\_F

ClientSampleId :

PL-01-111317-C

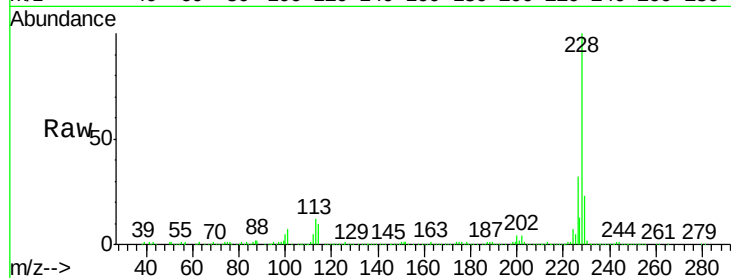
Tgt Ion:228 Resp: 338465

Ion Ratio Lower Upper

228 100

226 31.5 25.0 37.6

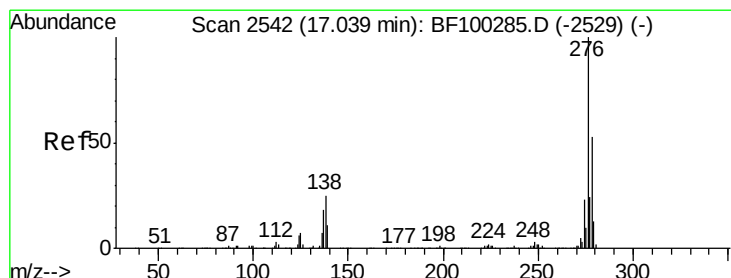
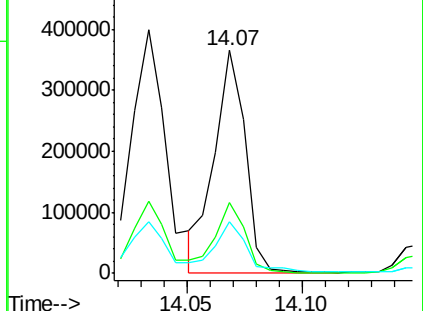
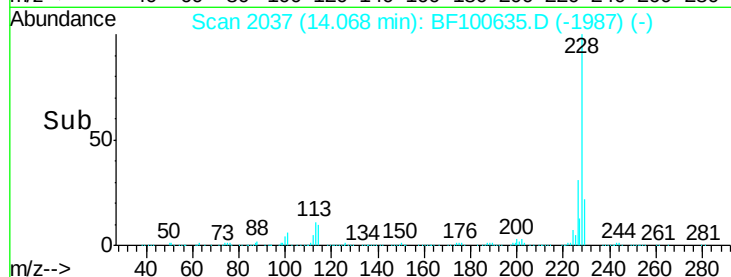
229 22.9 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.412 ng

RT: 16.83 min Scan# 2507

Delta R.T. -0.16 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

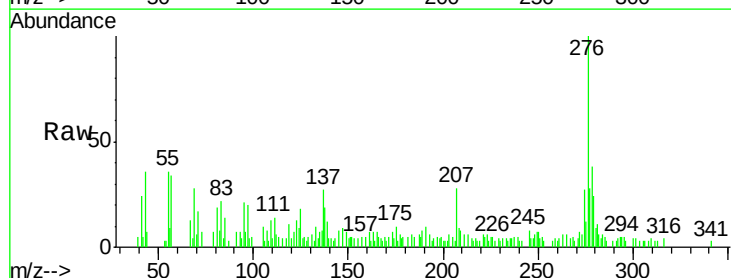
Tgt Ion:276 Resp: 25455

Ion Ratio Lower Upper

276 100

138 28.2 25.0 37.6

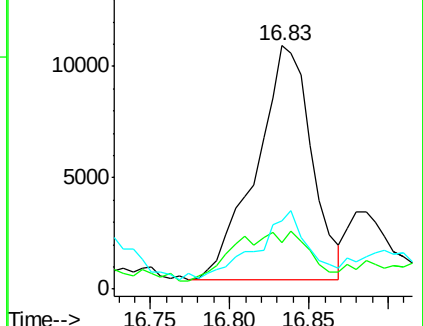
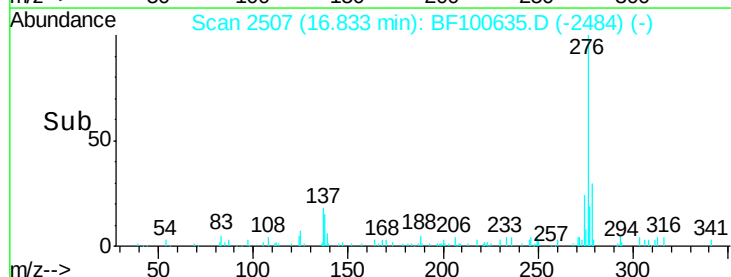
277 27.4 20.1 30.1

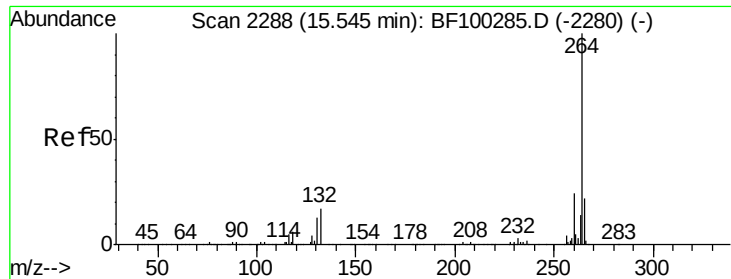


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



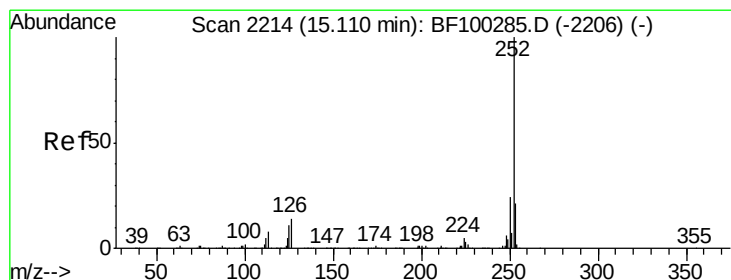
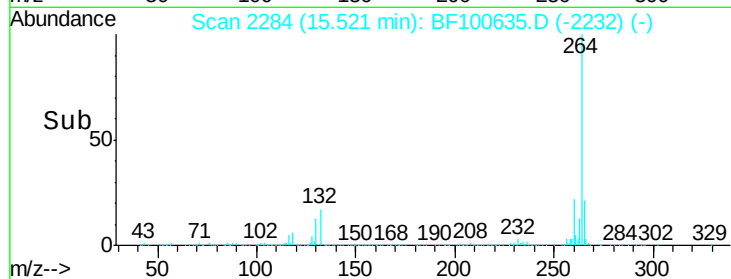
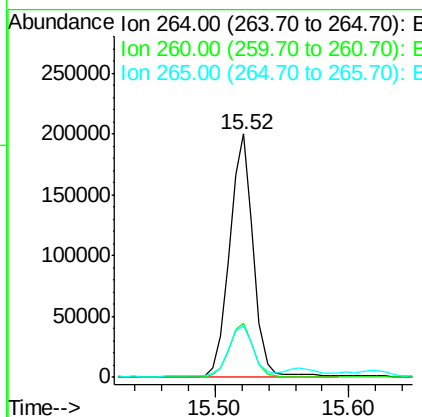
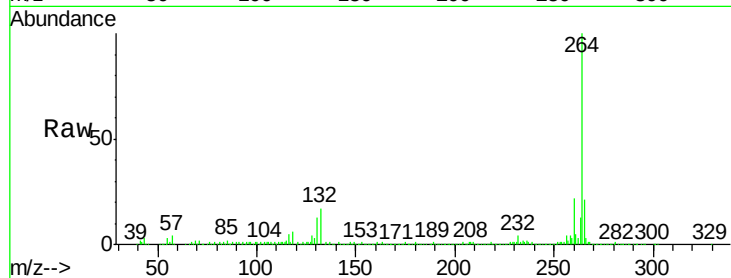


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.52 min Scan# 2284  
Delta R.T. 0.01 min  
Lab File: BF100635.D  
Acq: 16 Nov 2017 17:20

Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-111317-C

Tgt Ion: 264 Resp: 245735  

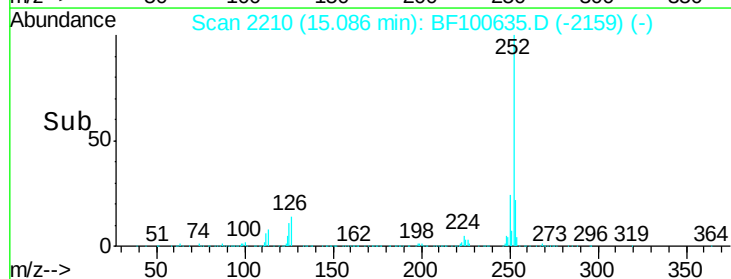
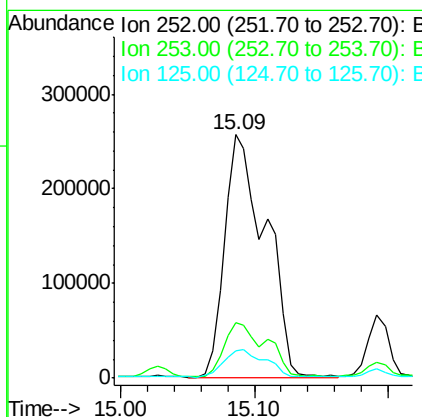
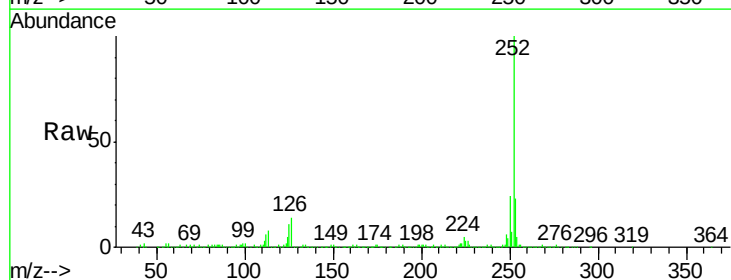
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.0  | 19.2  | 28.8  |
| 265 | 21.2  | 17.5  | 26.3  |

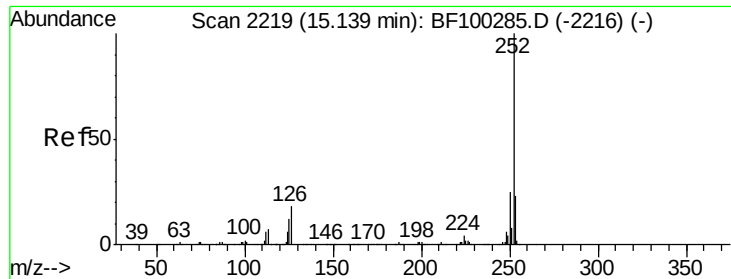


#87  
Benzo(b)fluoranthene  
Concen: 37.680 ng  
RT: 15.09 min Scan# 2210  
Delta R.T. 0.00 min  
Lab File: BF100635.D  
Acq: 16 Nov 2017 17:20

Tgt Ion: 252 Resp: 548561  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.0  | 17.0  | 25.6  |
| 125 | 11.5  | 9.0   | 13.6  |

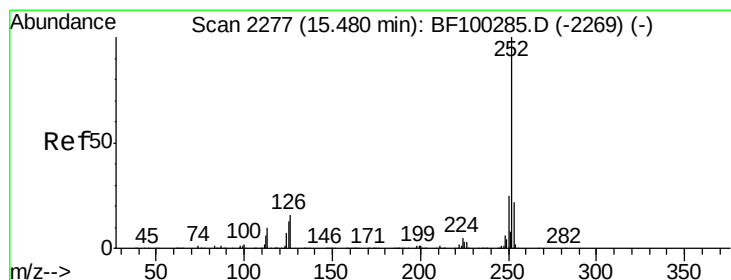
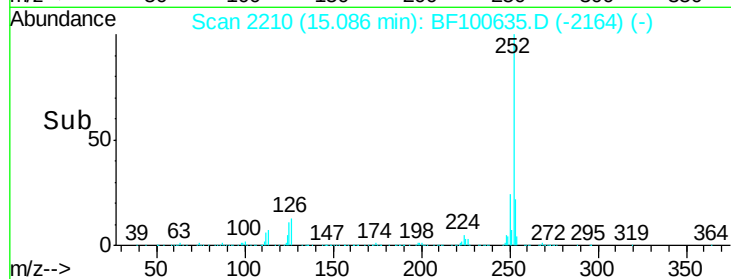
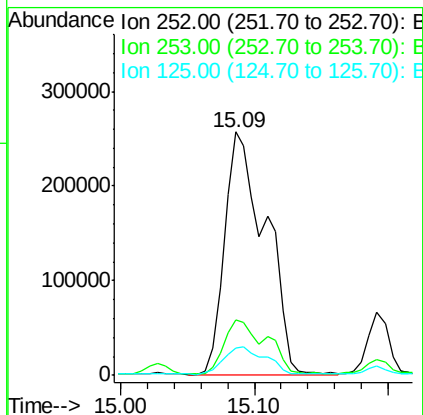
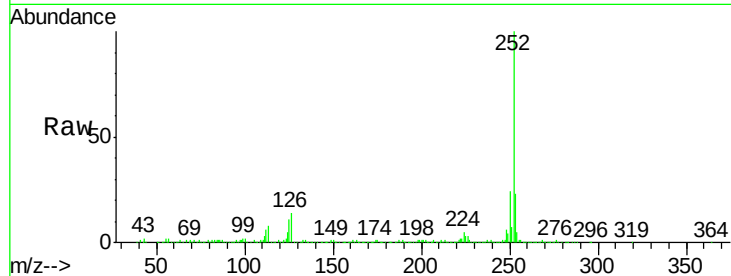




#88  
Benzo(k)fluoranthene  
Concen: 39.879 ng  
RT: 15.09 min Scan# 2210  
Delta R.T. -0.03 min  
Lab File: BF100635.D  
Acq: 16 Nov 2017 17:20

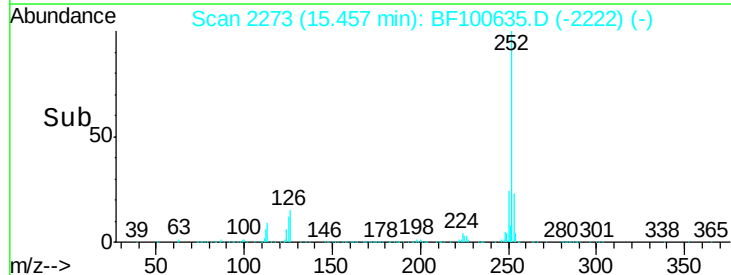
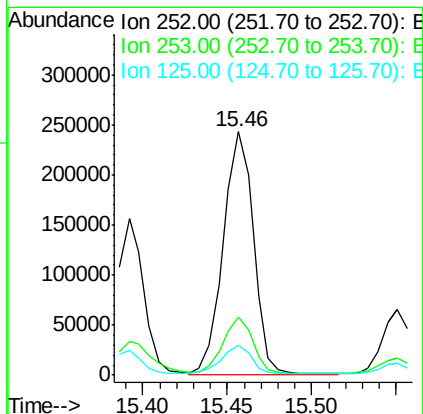
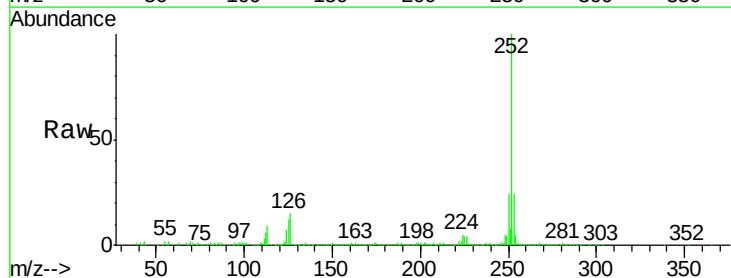
Instrument :  
BNA\_F  
ClientSampleId :  
PL-01-111317-C

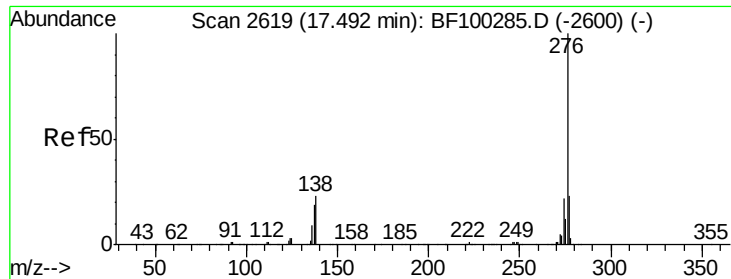
Tgt Ion:252 Resp: 548561  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.9 26.9  
125 11.5 10.2 15.2



#89  
Benzo(a)pyrene  
Concen: 23.394 ng  
RT: 15.46 min Scan# 2273  
Delta R.T. 0.00 min  
Lab File: BF100635.D  
Acq: 16 Nov 2017 17:20

Tgt Ion:252 Resp: 301941  
Ion Ratio Lower Upper  
252 100  
253 23.7 17.1 25.7  
125 12.4 9.8 14.6





#91

Benzo(g,h,i)perylene

Concen: 10.367 ng

RT: 17.45 min Scan# 2612

Delta R.T. 0.00 min

Lab File: BF100635.D

Acq: 16 Nov 2017 17:20

Instrument :

BNA\_F

ClientSampleId :

PL-01-111317-C

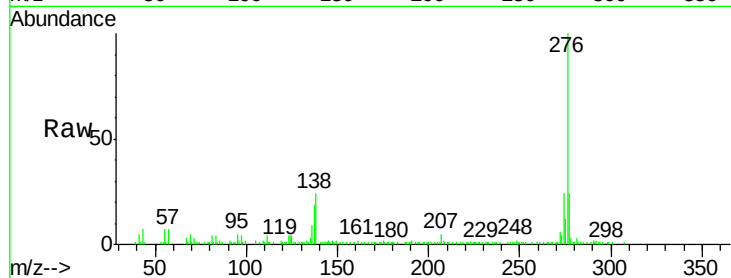
Tgt Ion: 276 Resp: 107115

Ion Ratio Lower Upper

276 100

277 24.2 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

