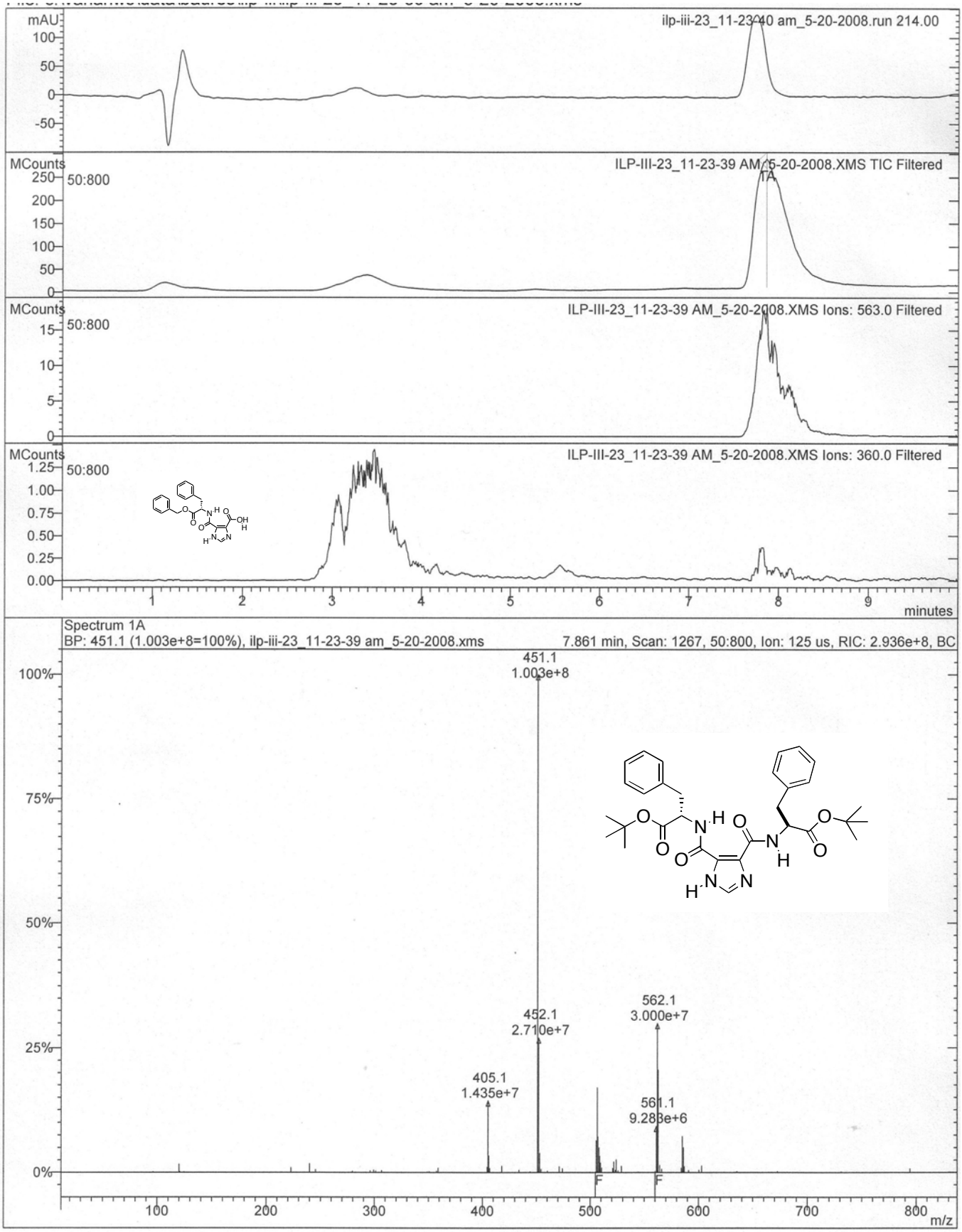

Figure S47. LC/MS data for the crude reaction to yield **4**{7}.

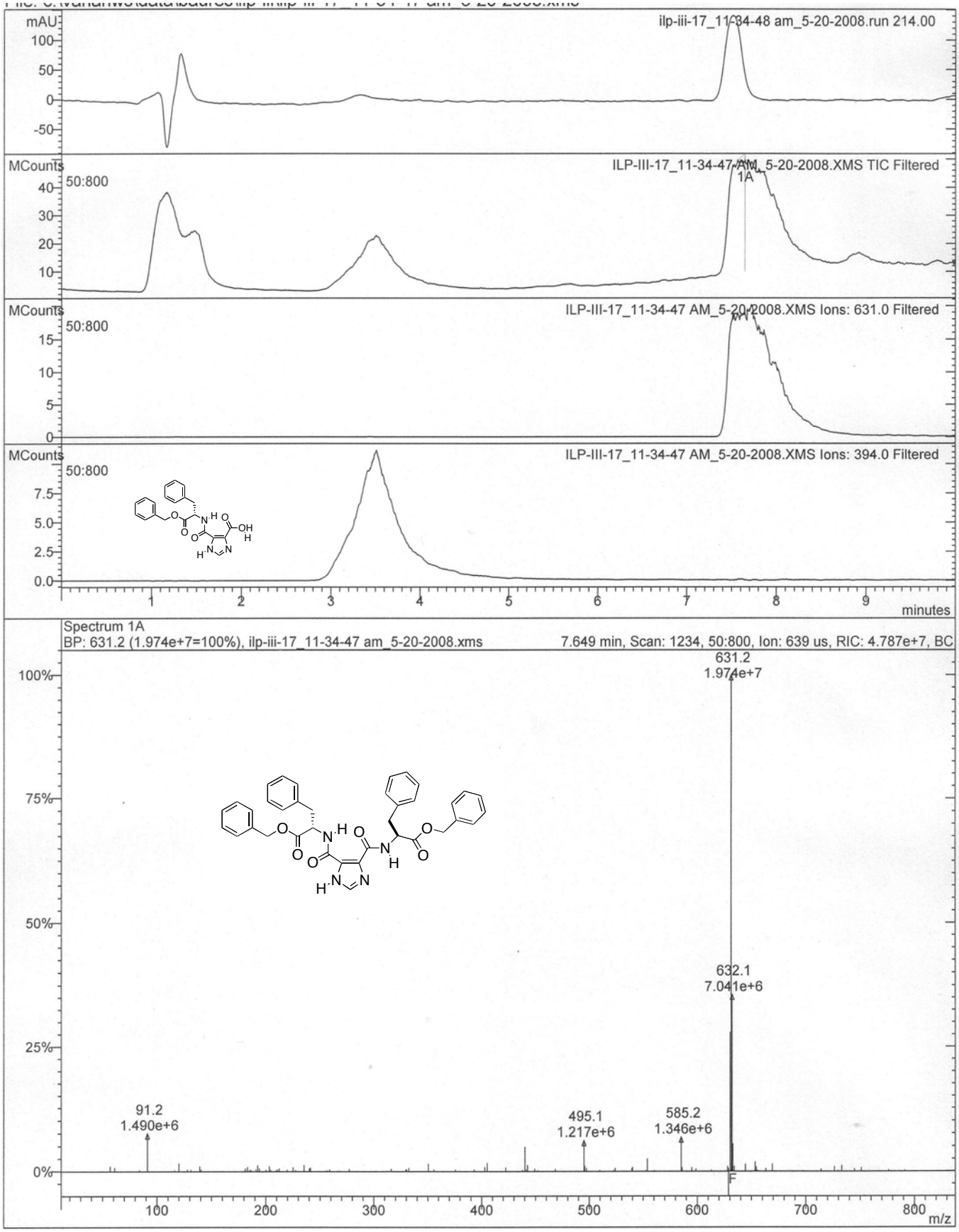

Figure S48. LC/MS data for the crude reaction to yield **4**{8}.

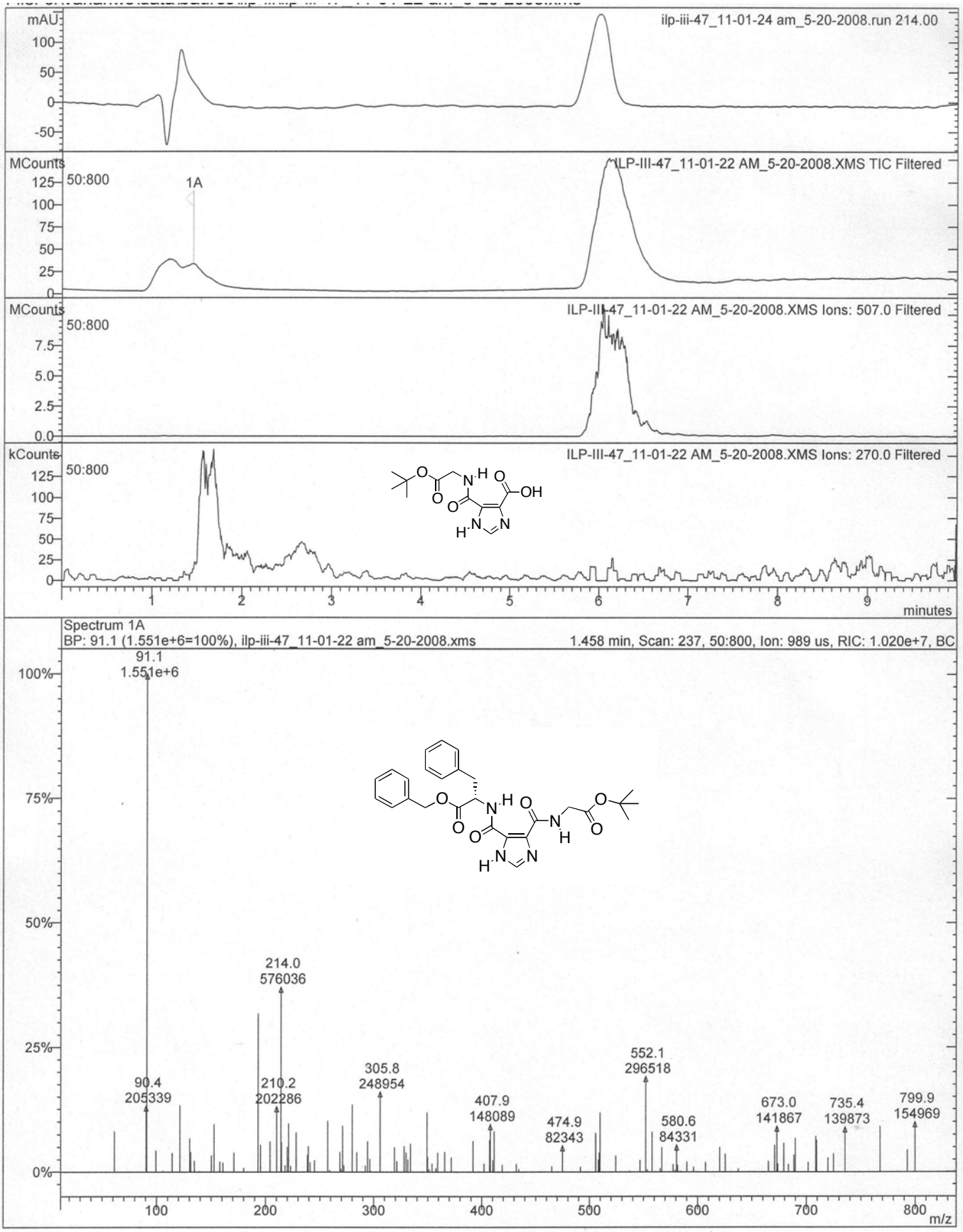

Figure S49. LC/MS data for the crude reaction to yield **4**{16}.

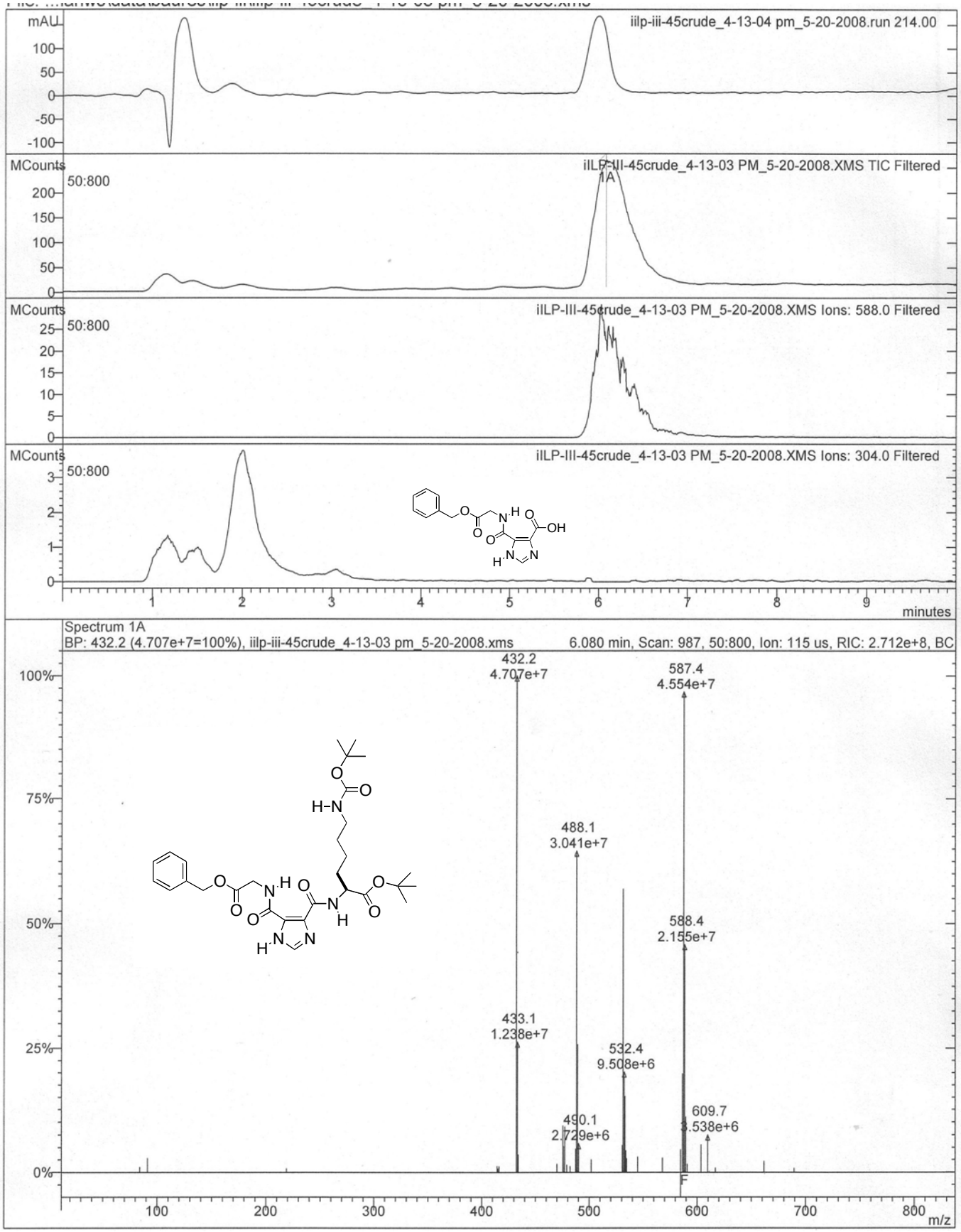

Figure S50. LC/MS data for the crude reaction to yield **4**{24}.

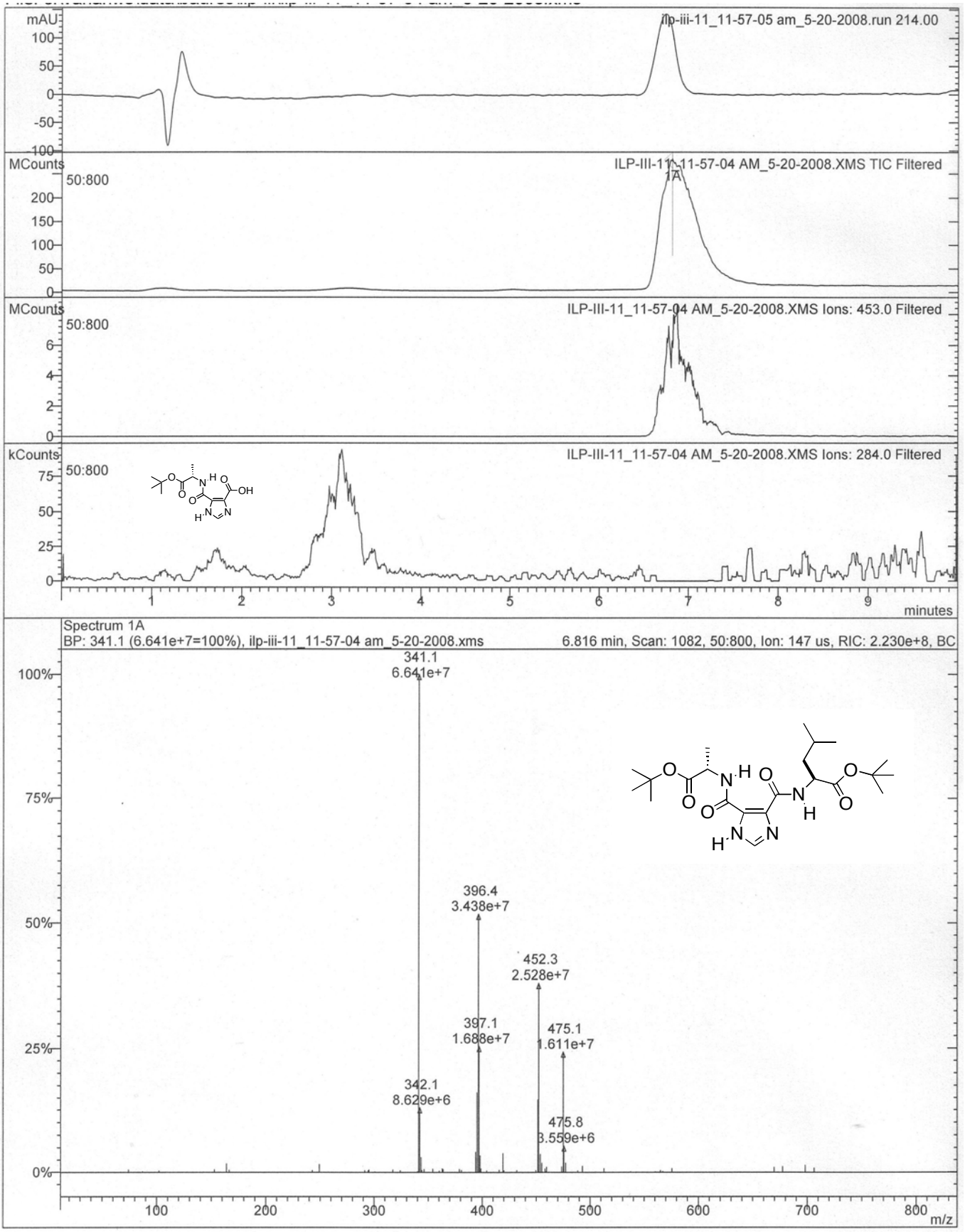

Figure S51. LC/MS data for the crude reaction to yield **4**{26}.

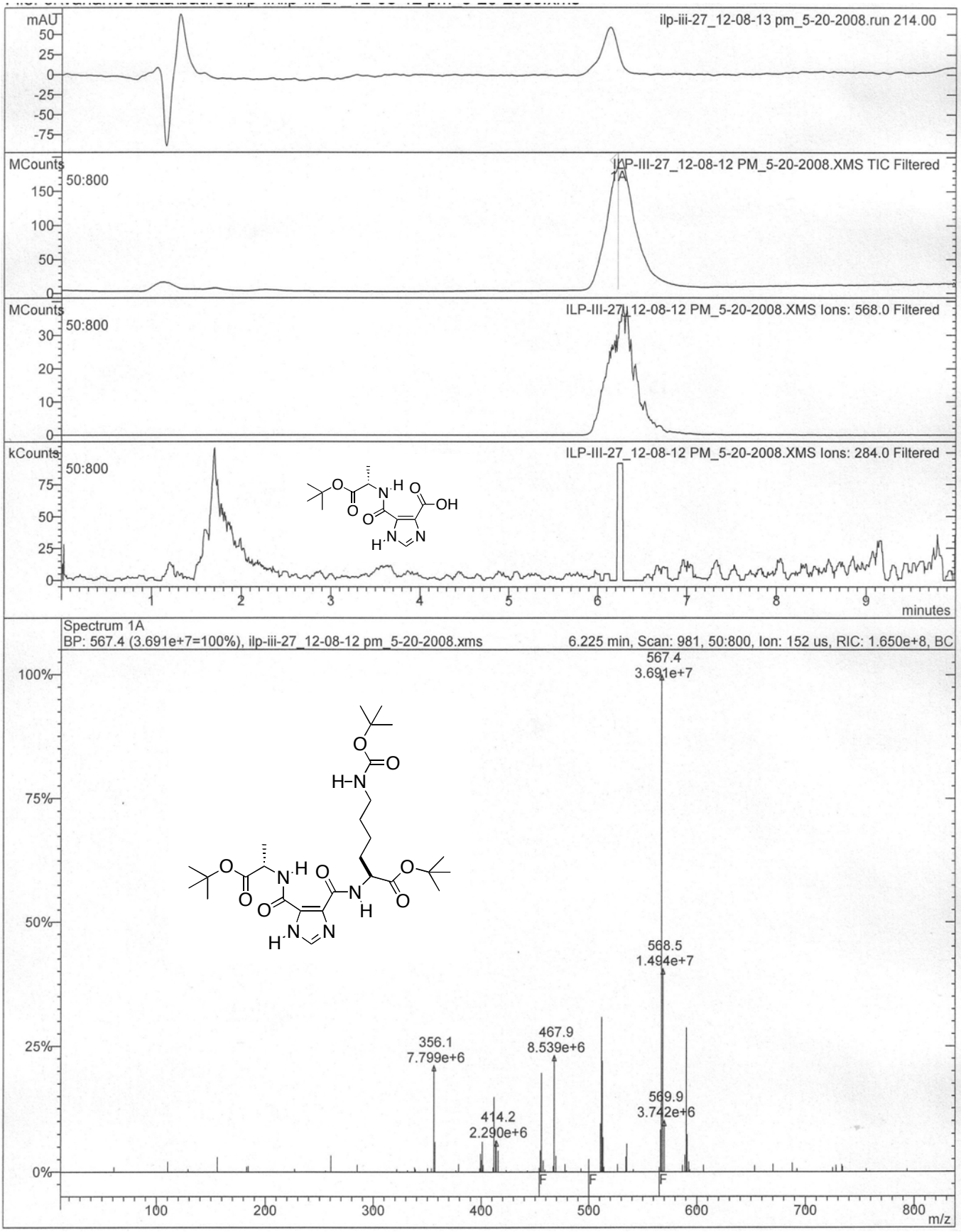

Figure S52. LC/MS data for the crude reaction to yield **4**{30}.

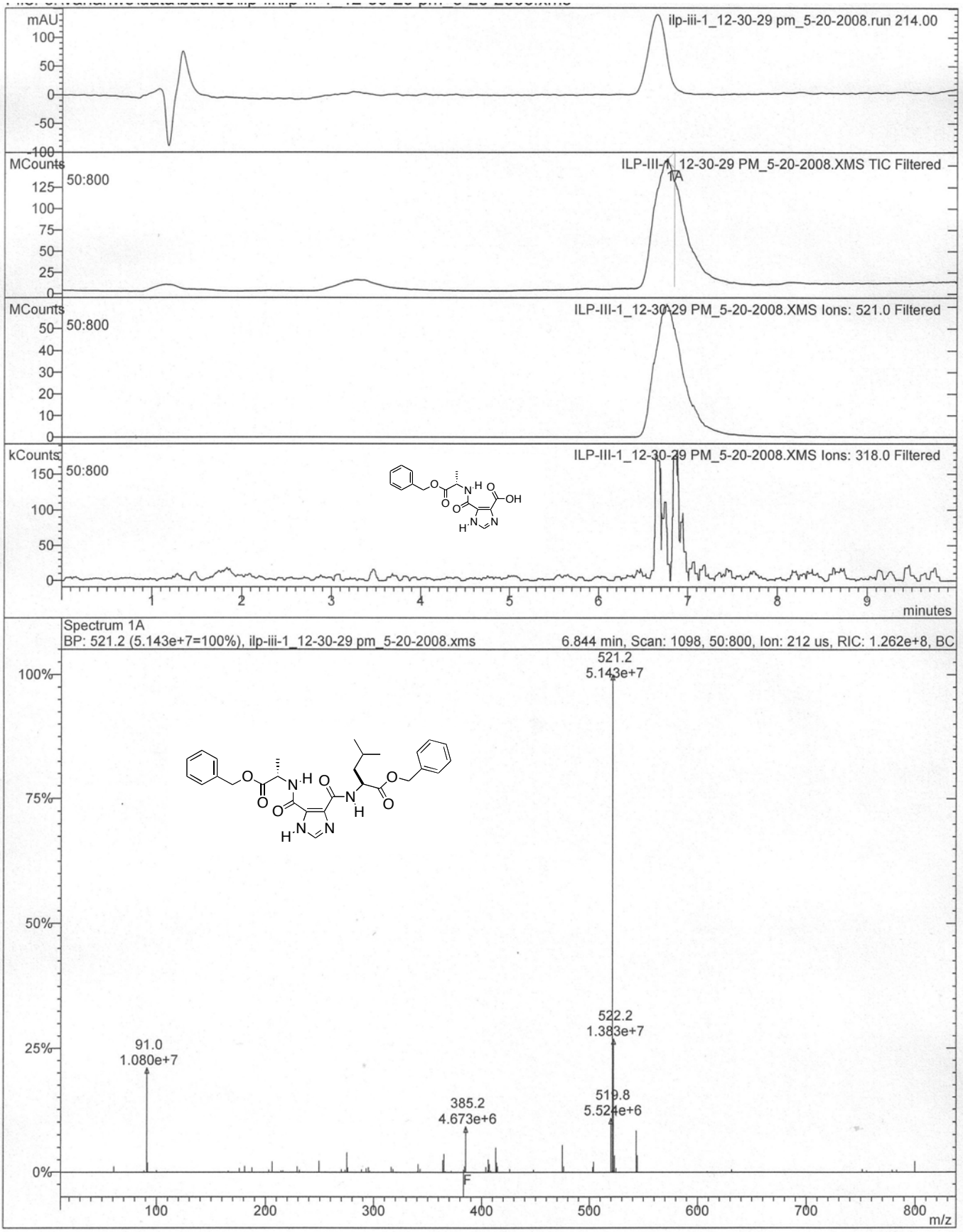

Figure S53. LC/MS data for the crude reaction to yield **4**{32}.

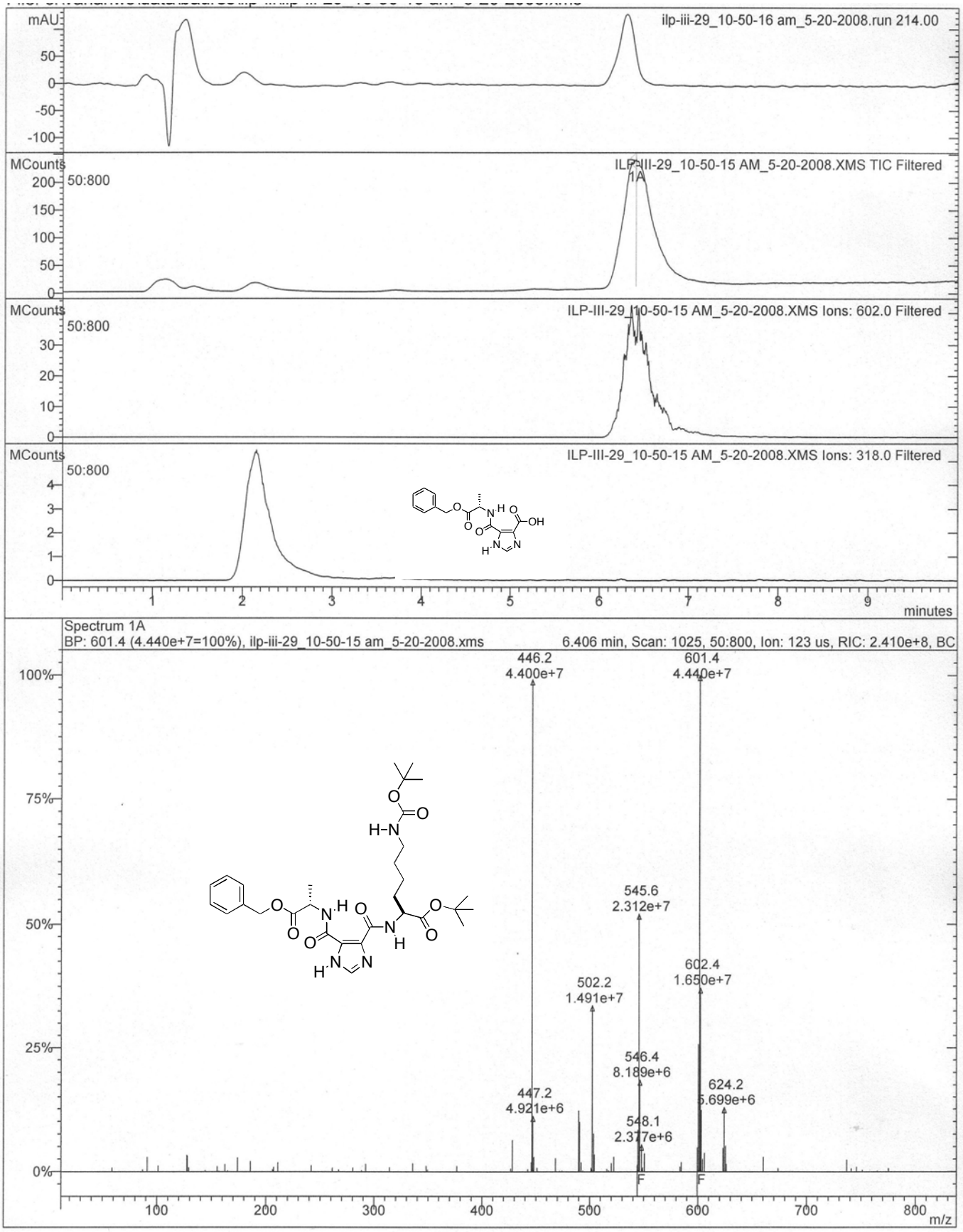

Figure S54. LC/MS data for the crude reaction to yield **4**{35}.

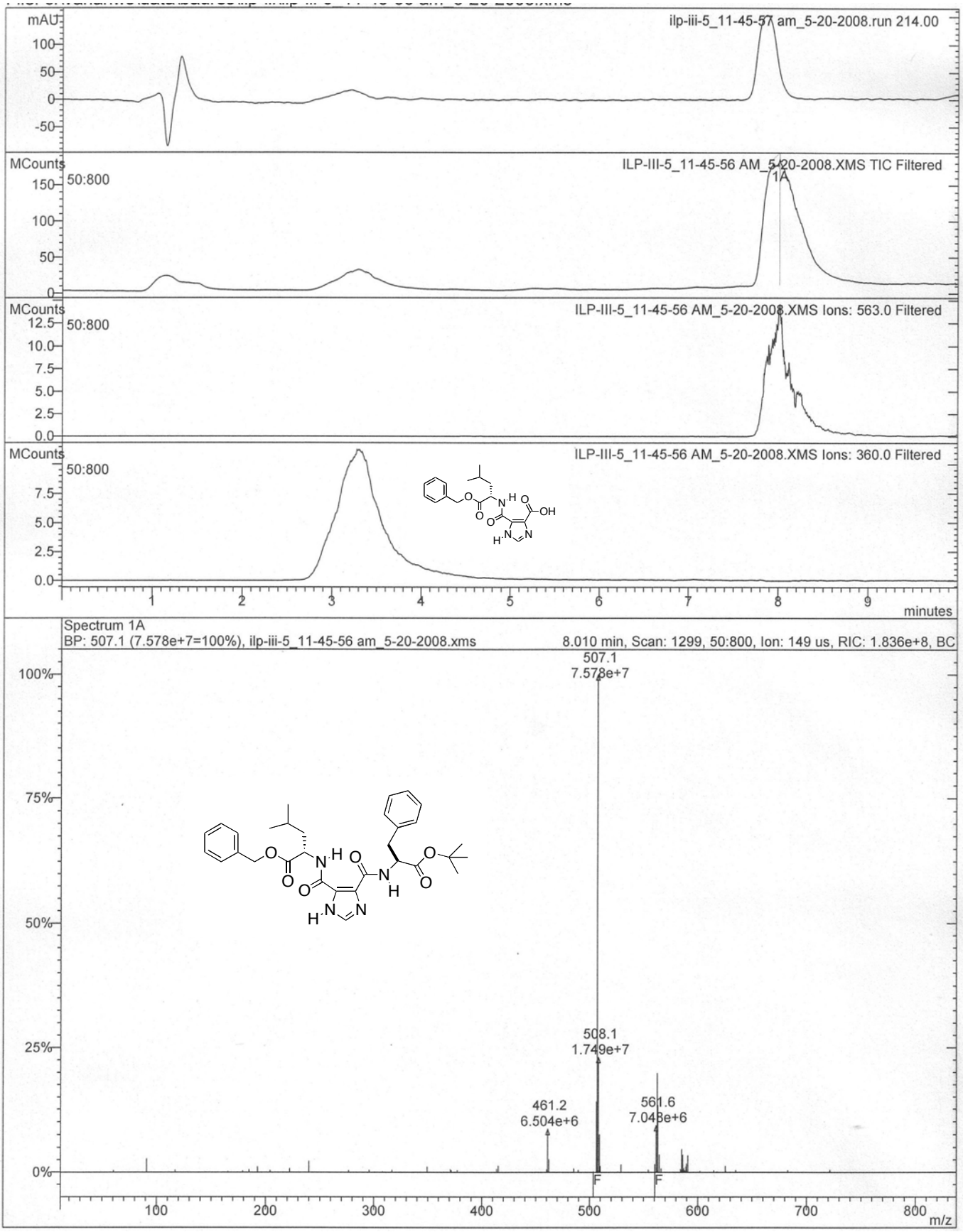

Figure S55. LC/MS data for the crude reaction to yield **4**{40}.

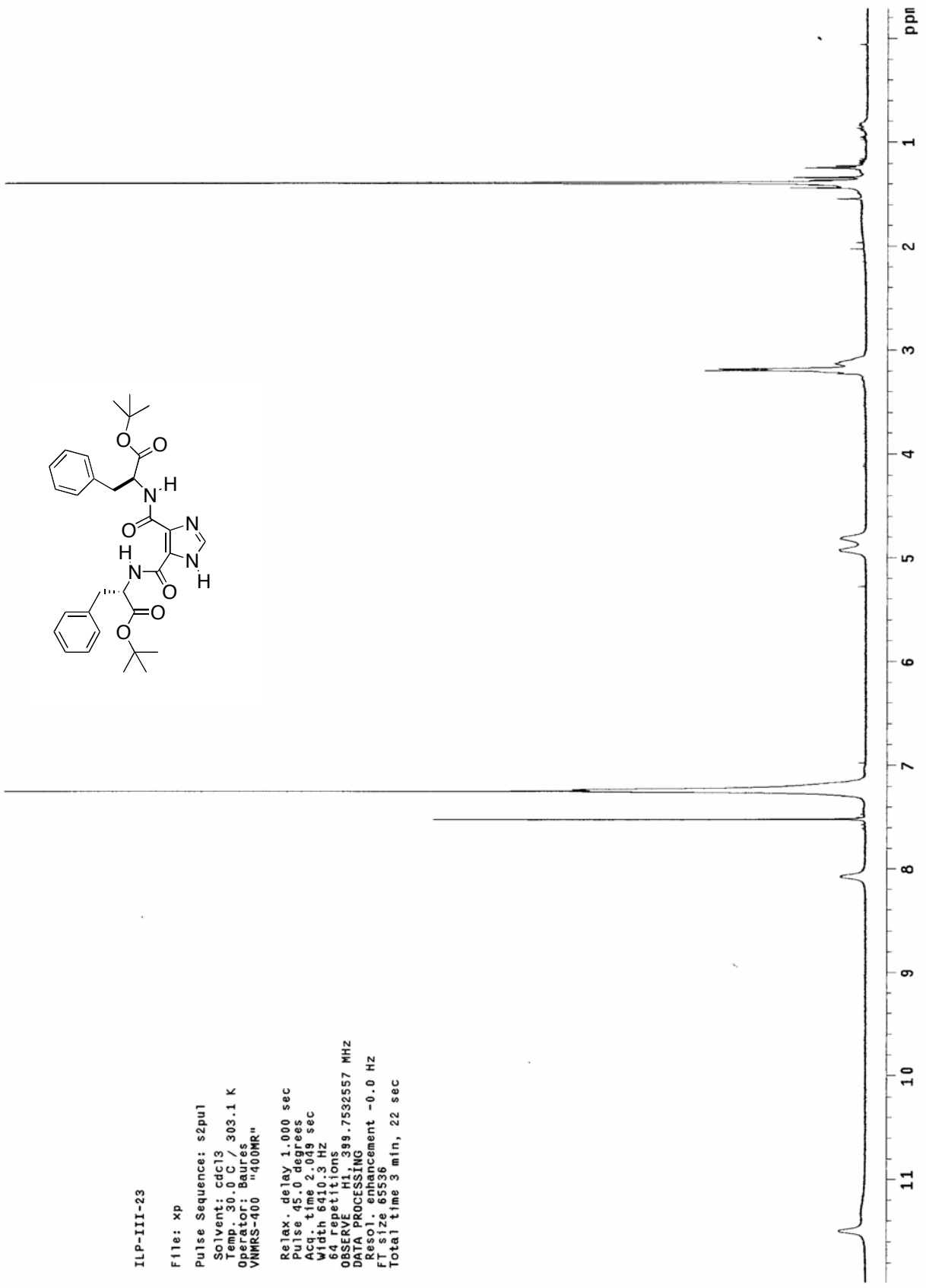

Figure S56. ^{1}H-NMR for **4{**7}.

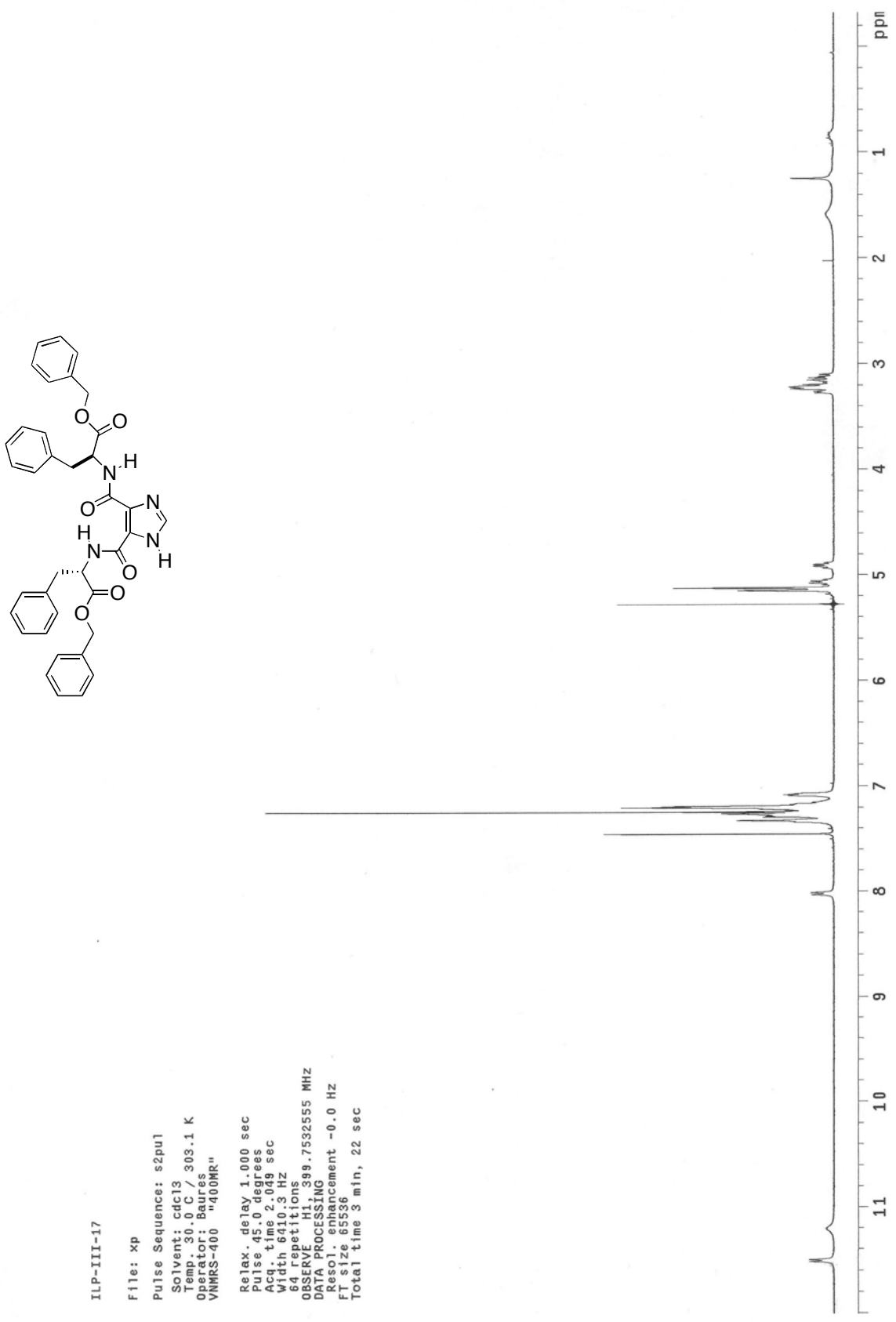

Figure S57. ^{1}H-NMR for **4{**8}.

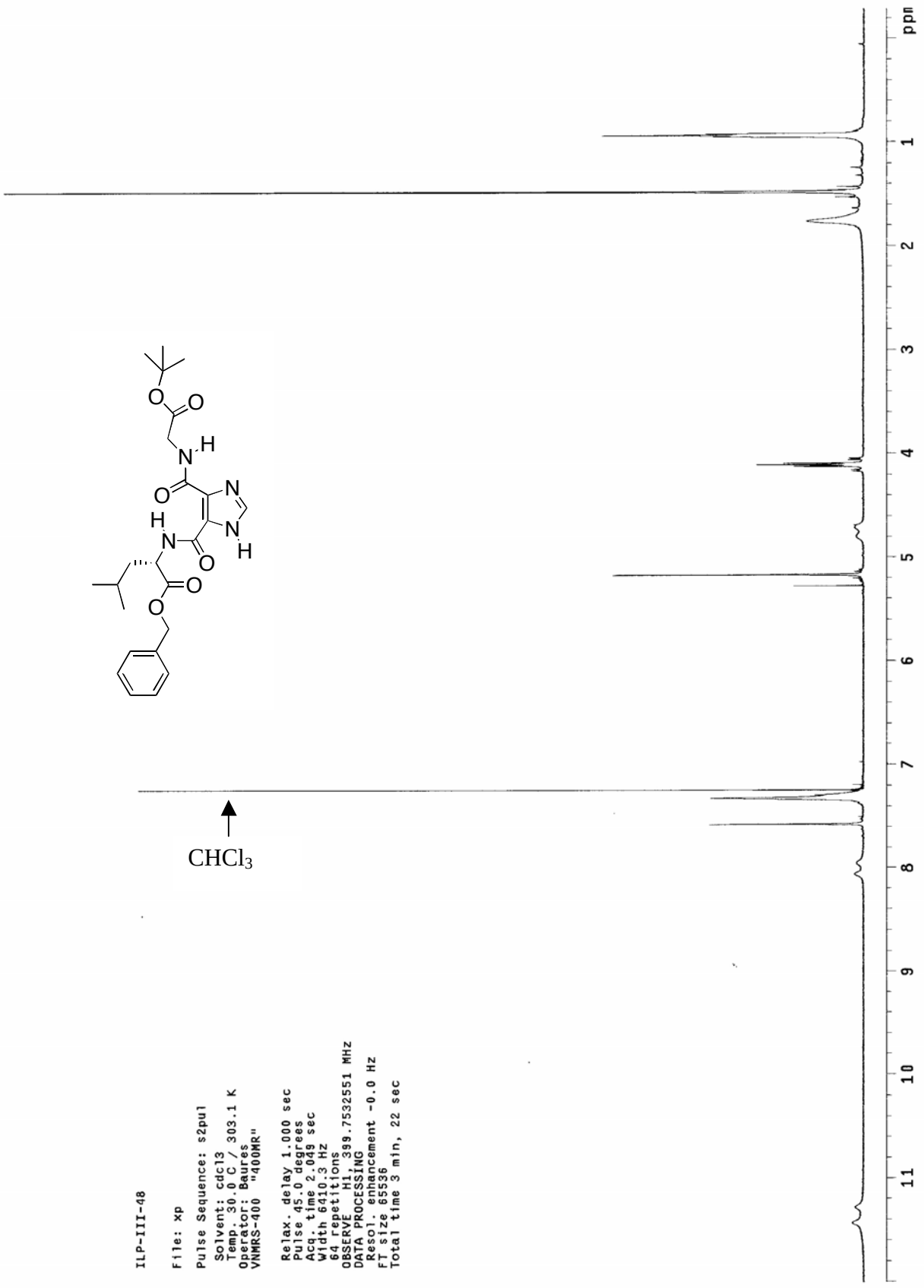

Figure S58. ^{1}H-NMR for **4{**14}.

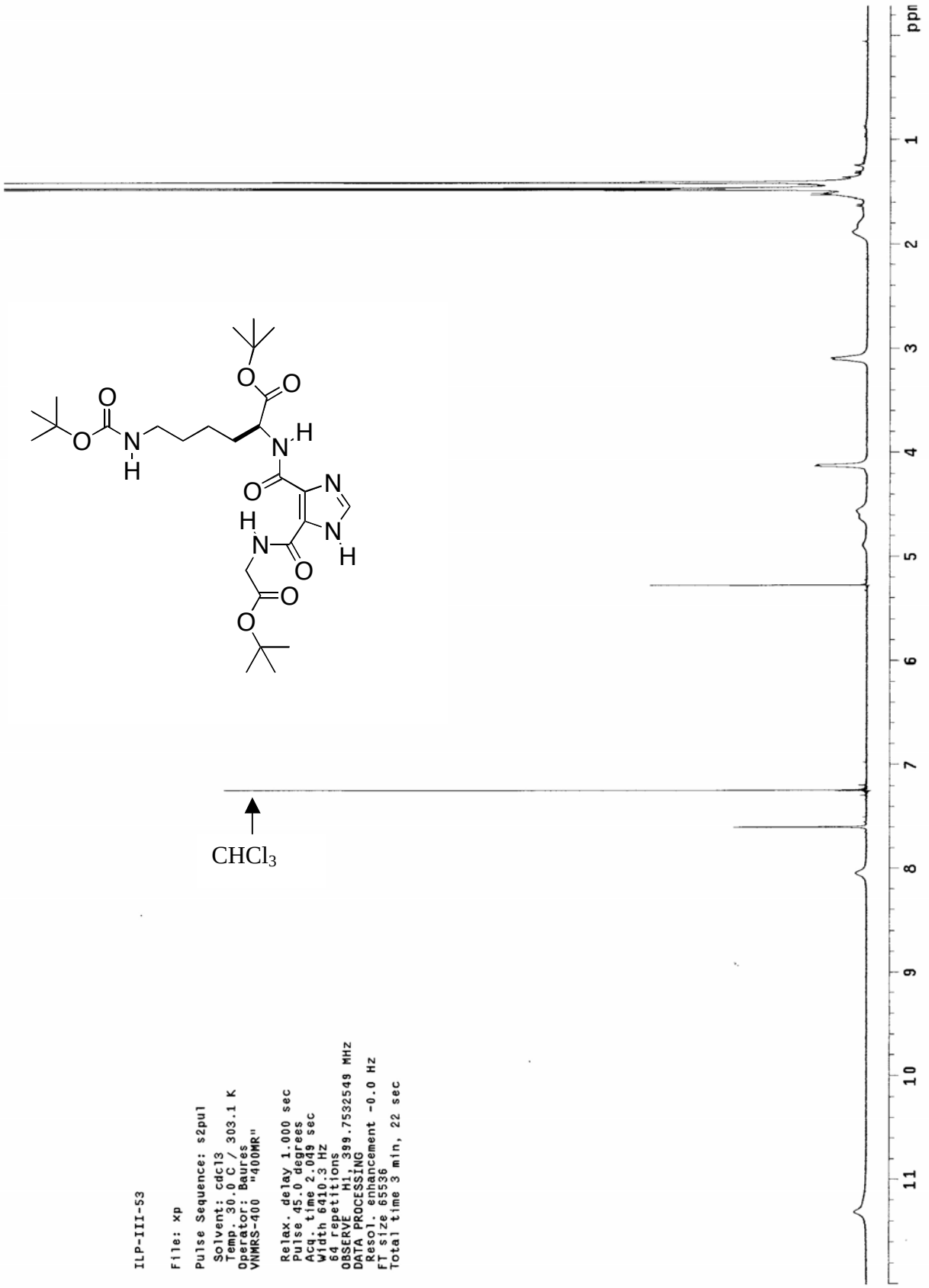

Figure 59. ^{1}H-NMR for **4{**17}.

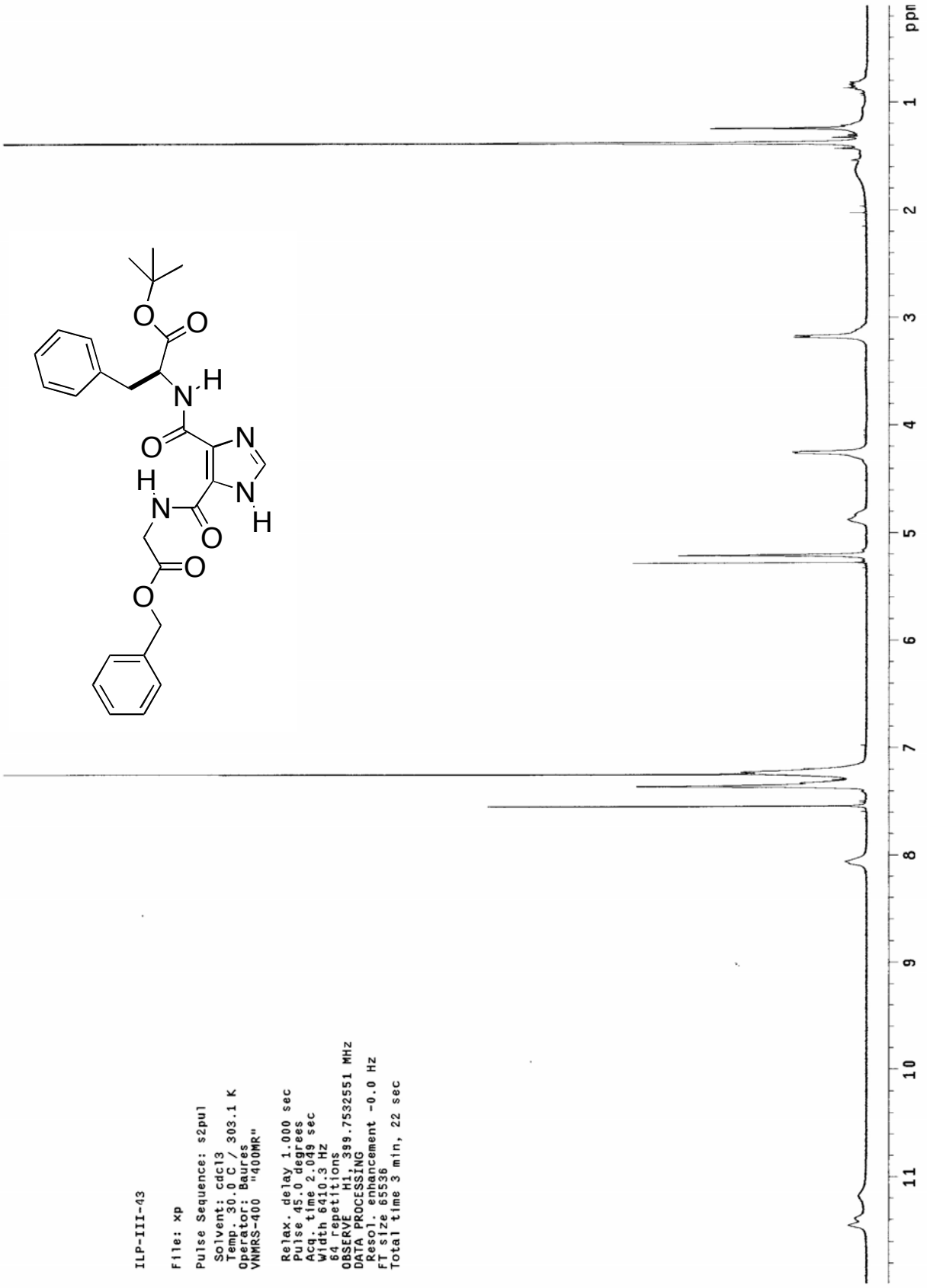

Figure S60. ^{1}H-NMR for **4{**22}.

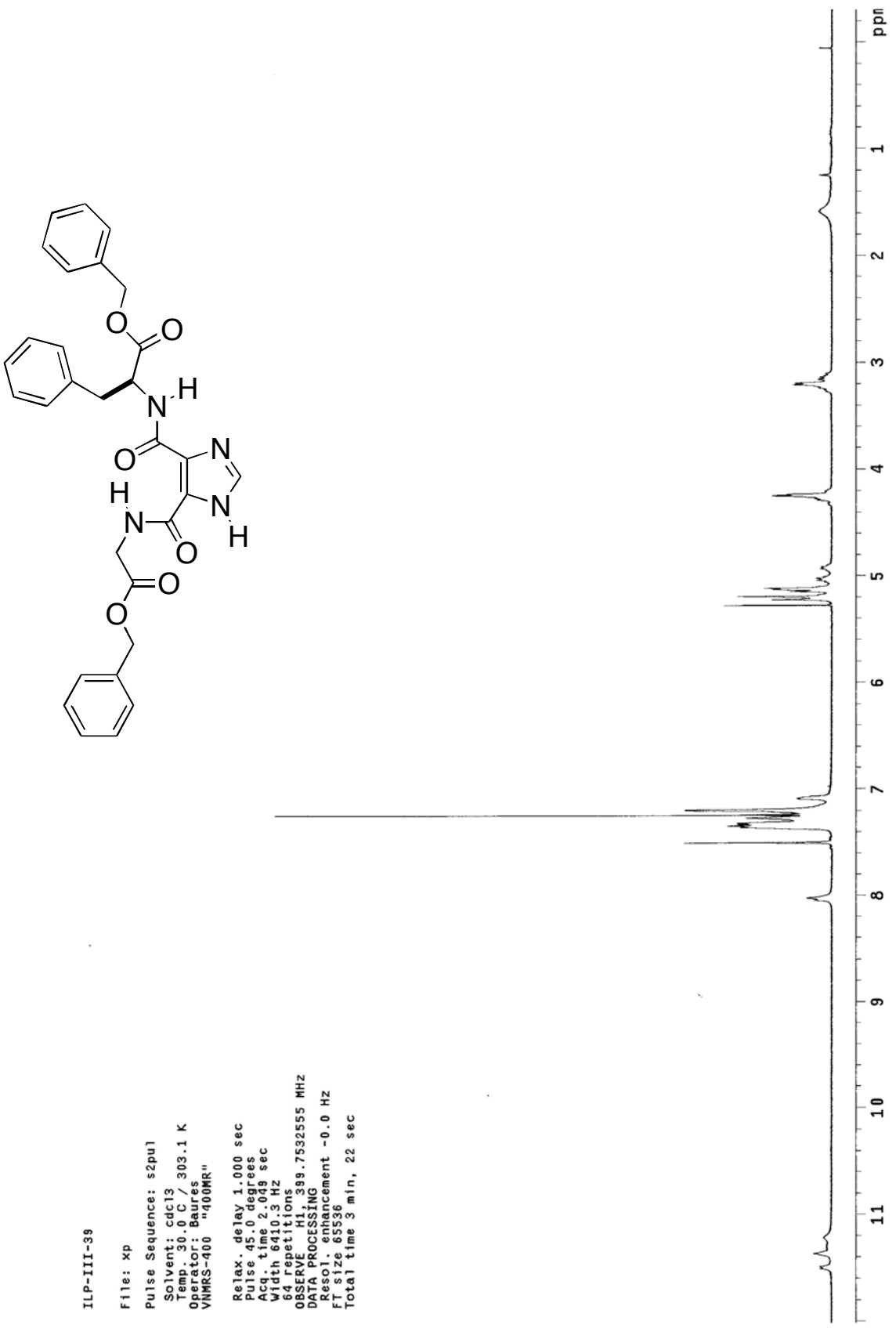

Figure S61. ^{1}H-NMR for **4{**23}.

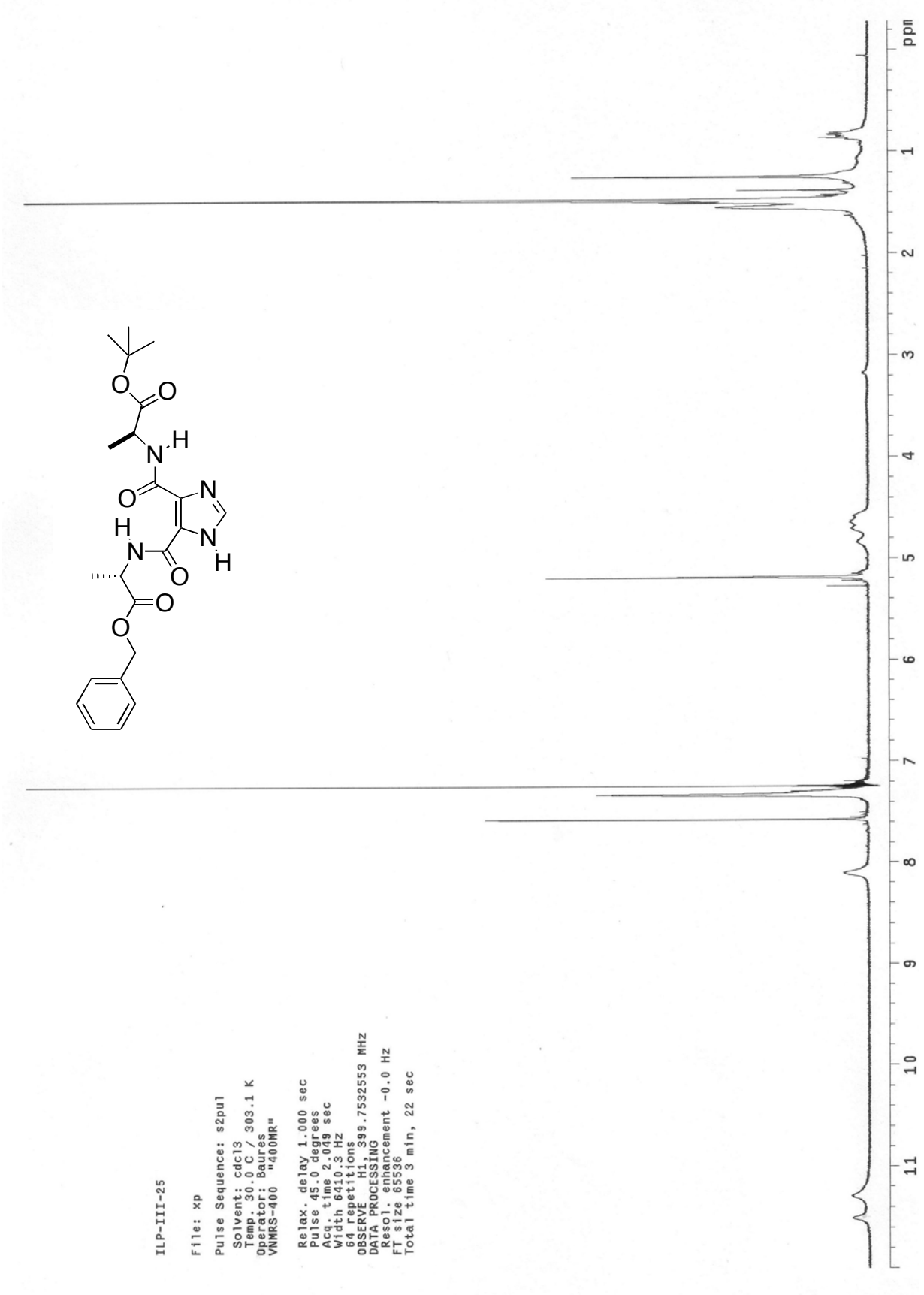

Figure S62. ^{1}H-NMR for **4{**25}.

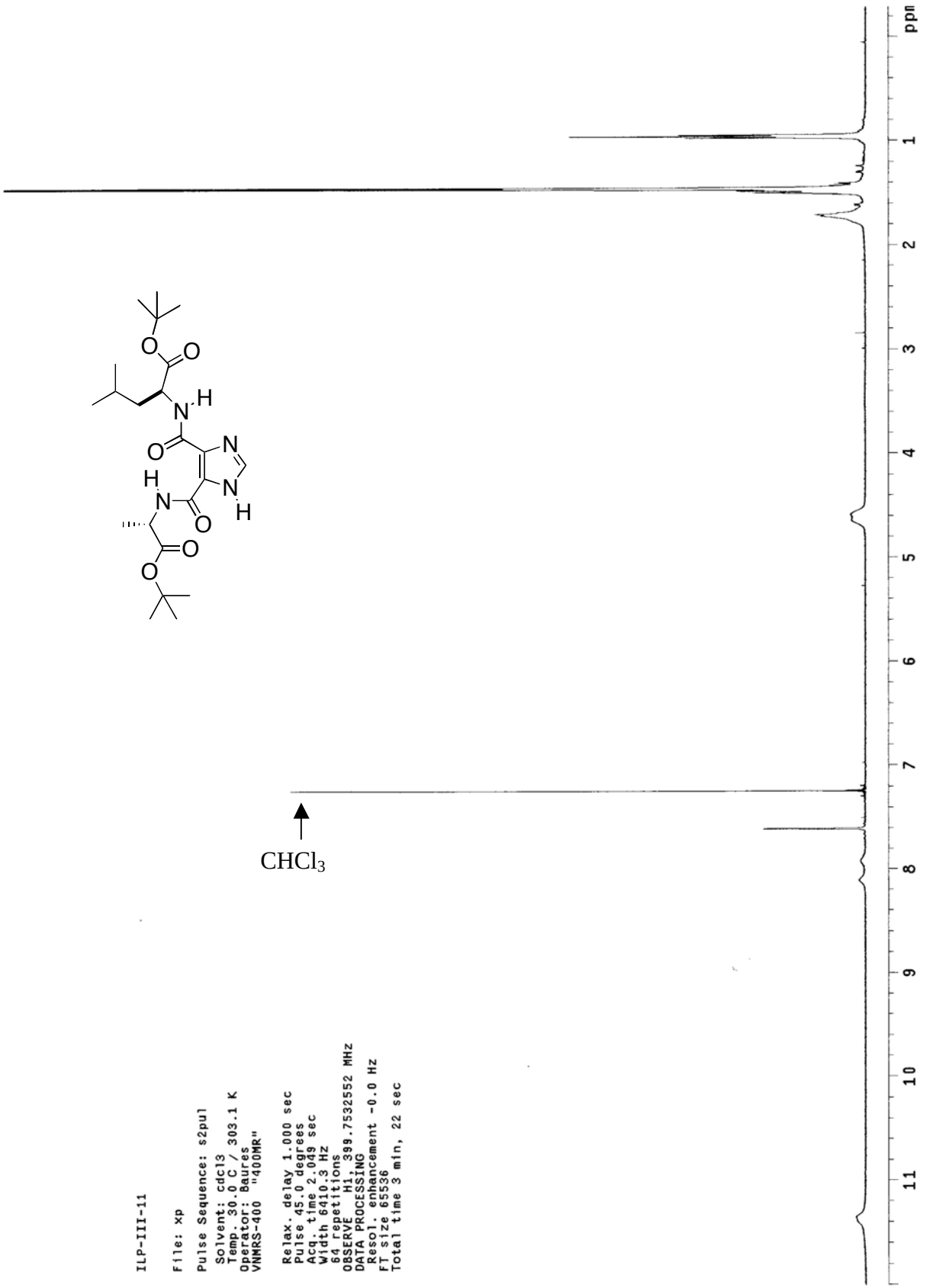

Figure S63. ^{1}H-NMR for **4{**26}.

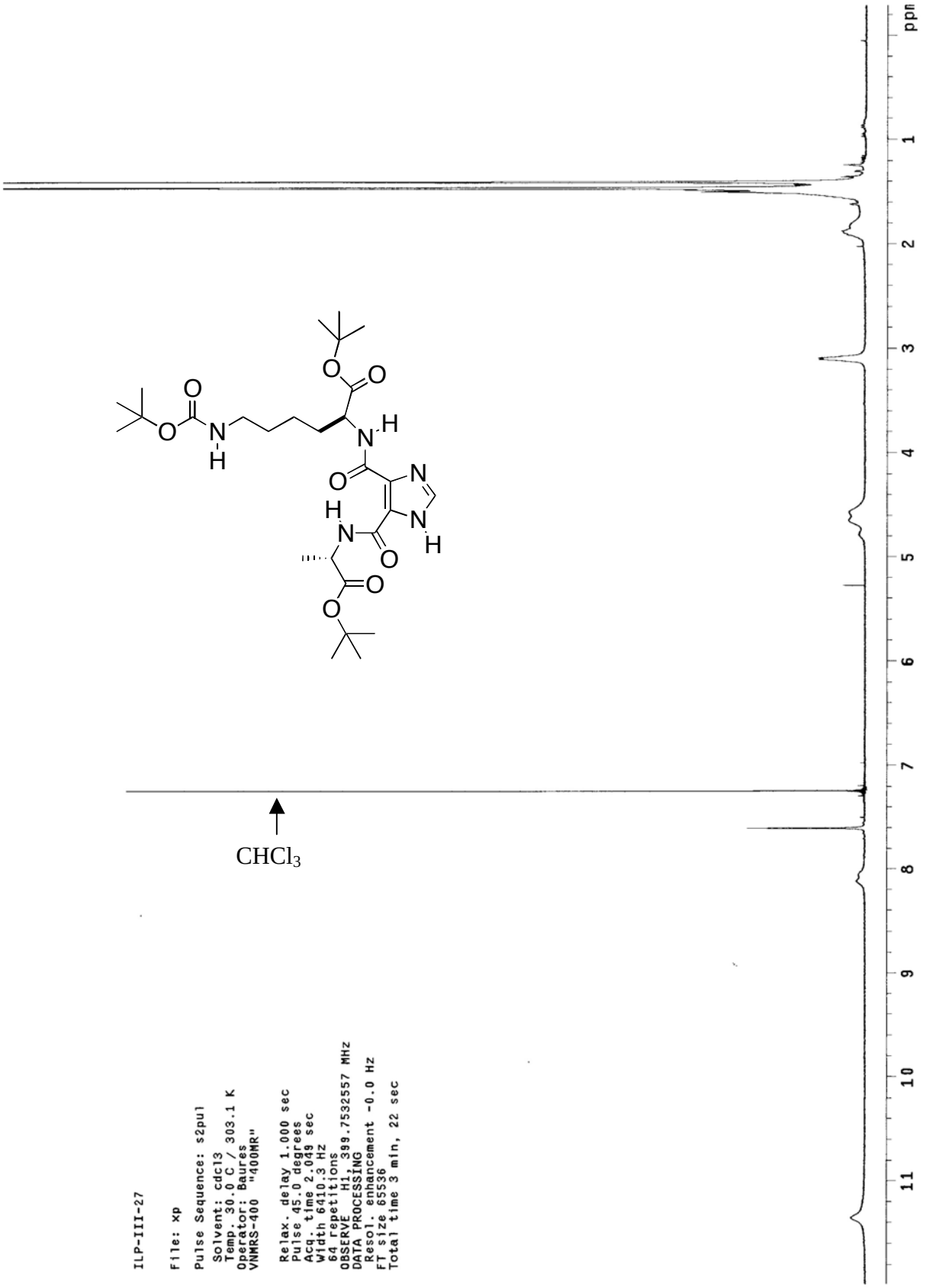

Figure S64. ^{1}H-NMR for **4{**30}.

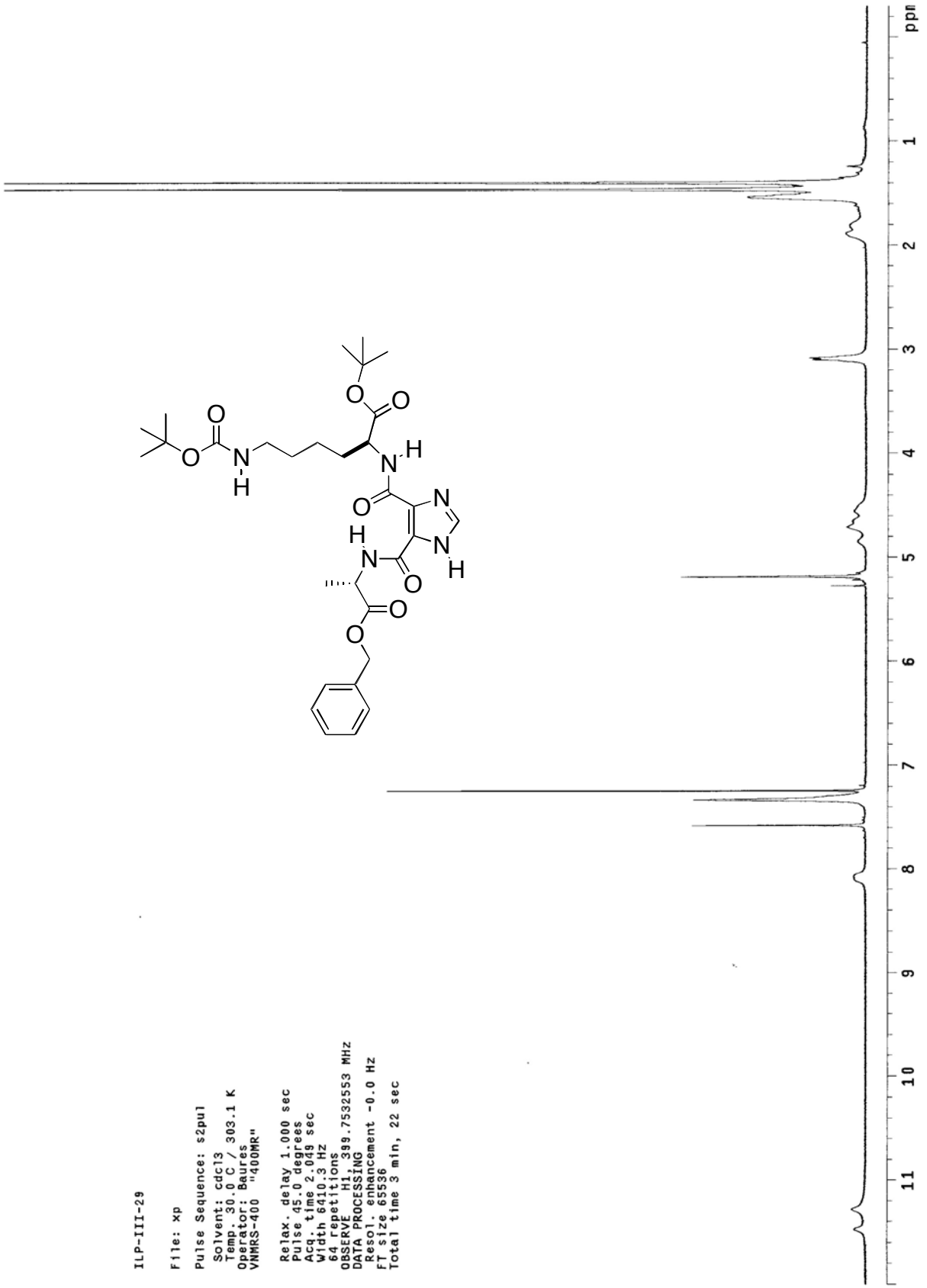

Figure S65. ^{1}H-NMR for **4{**35}.

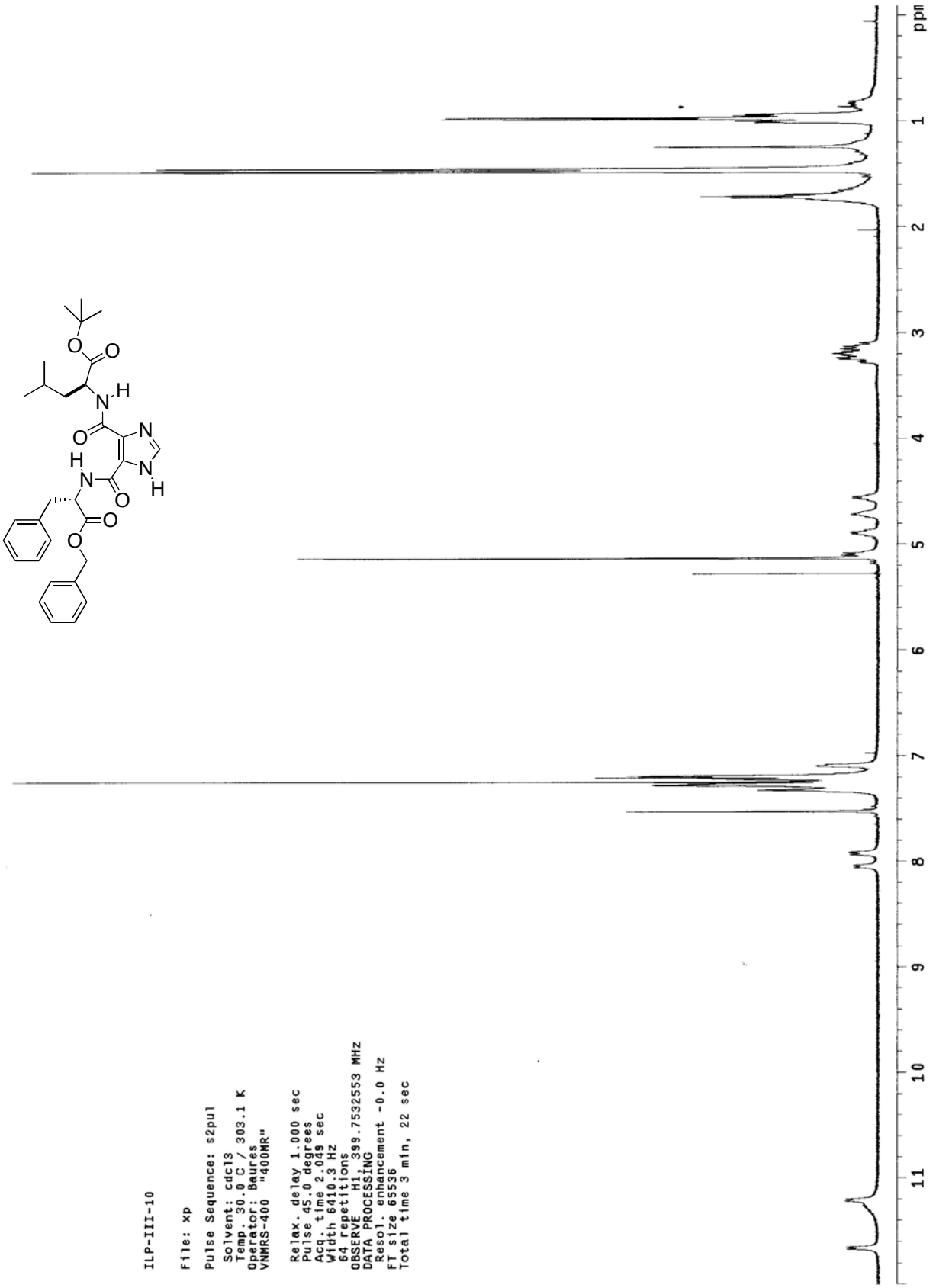

Figure S66. ^{1}H-NMR for **4{**38}.

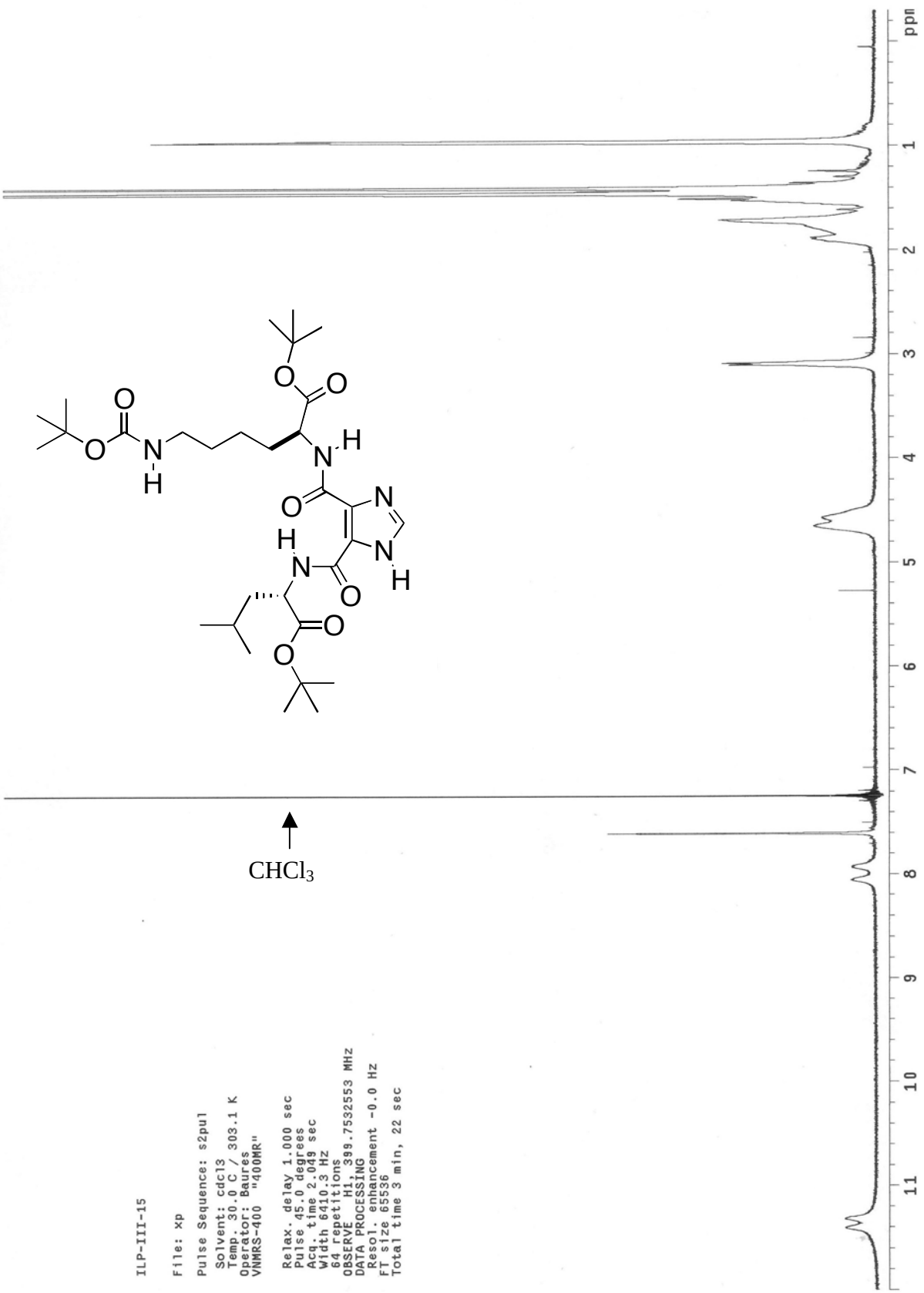

Figure S67. ^{1}H-NMR for **4{**39}.

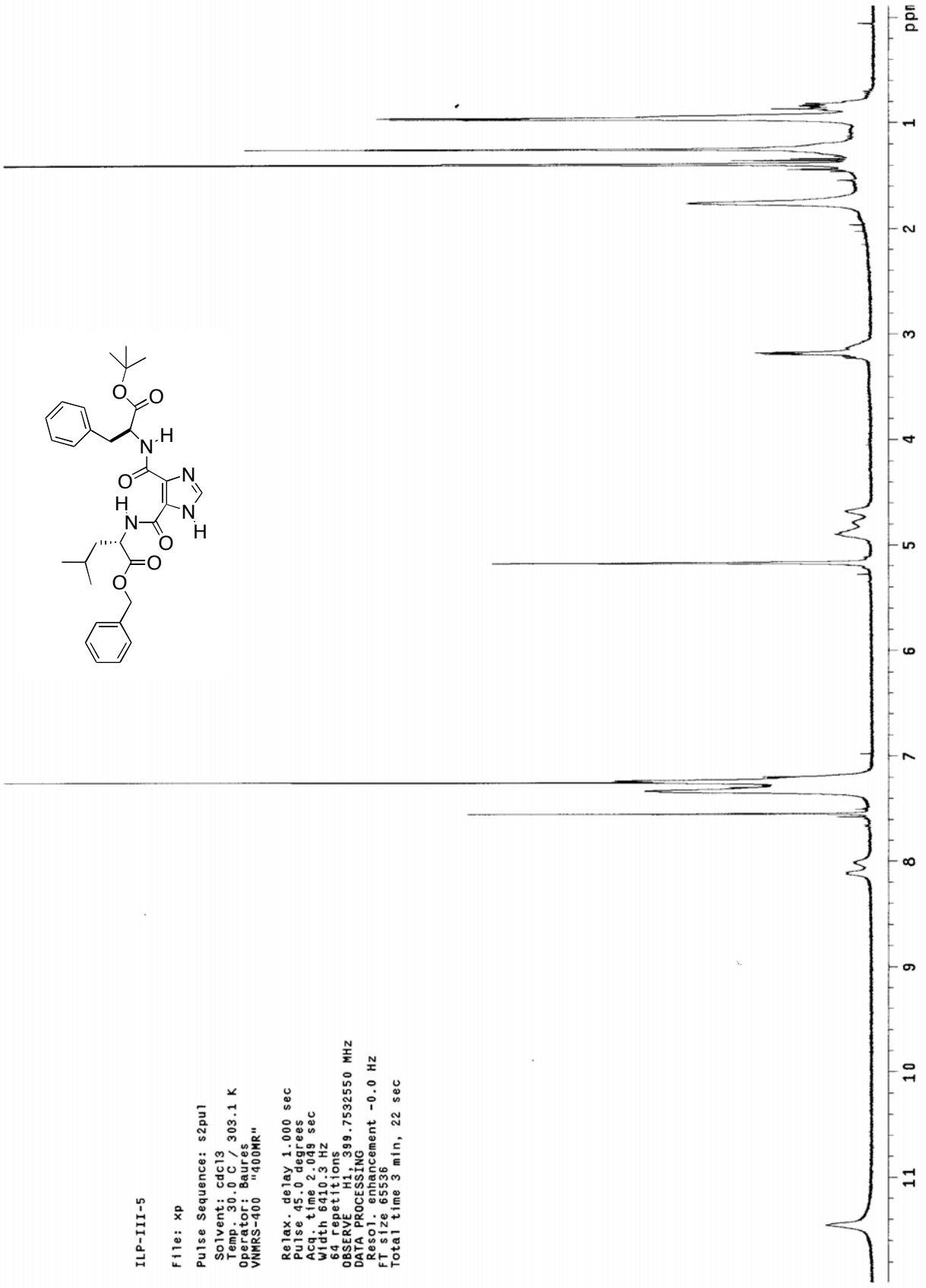

Figure S68. ^{1}H-NMR for **4{**40}.

Figure S69. ^{1}H-NMR for **4{**42}.

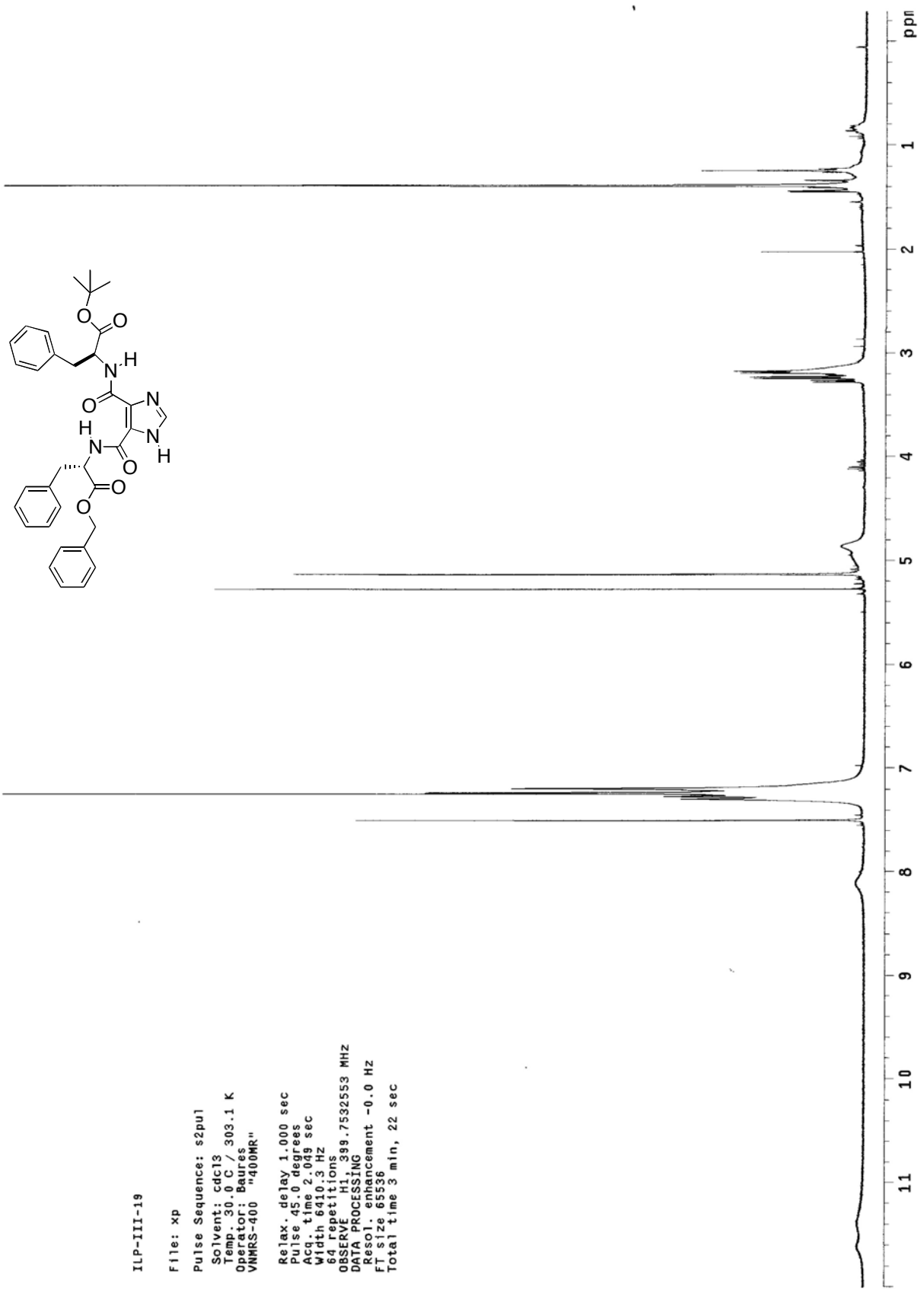

Figure S70. ^{1}H-NMR for **4{**43}.

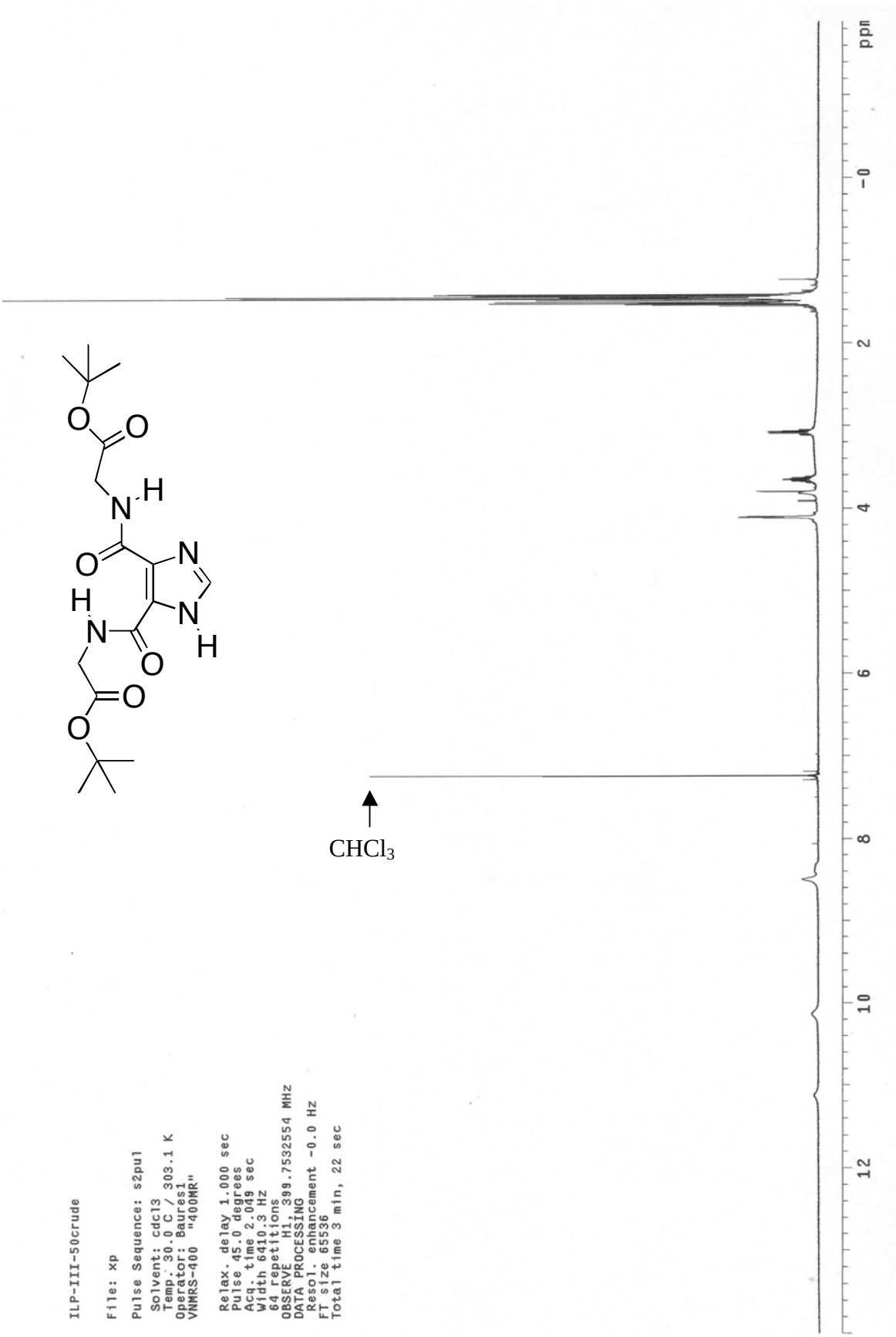

Figure S71. ^{1}H-NMR for the crude reaction to yield **4{**1}.

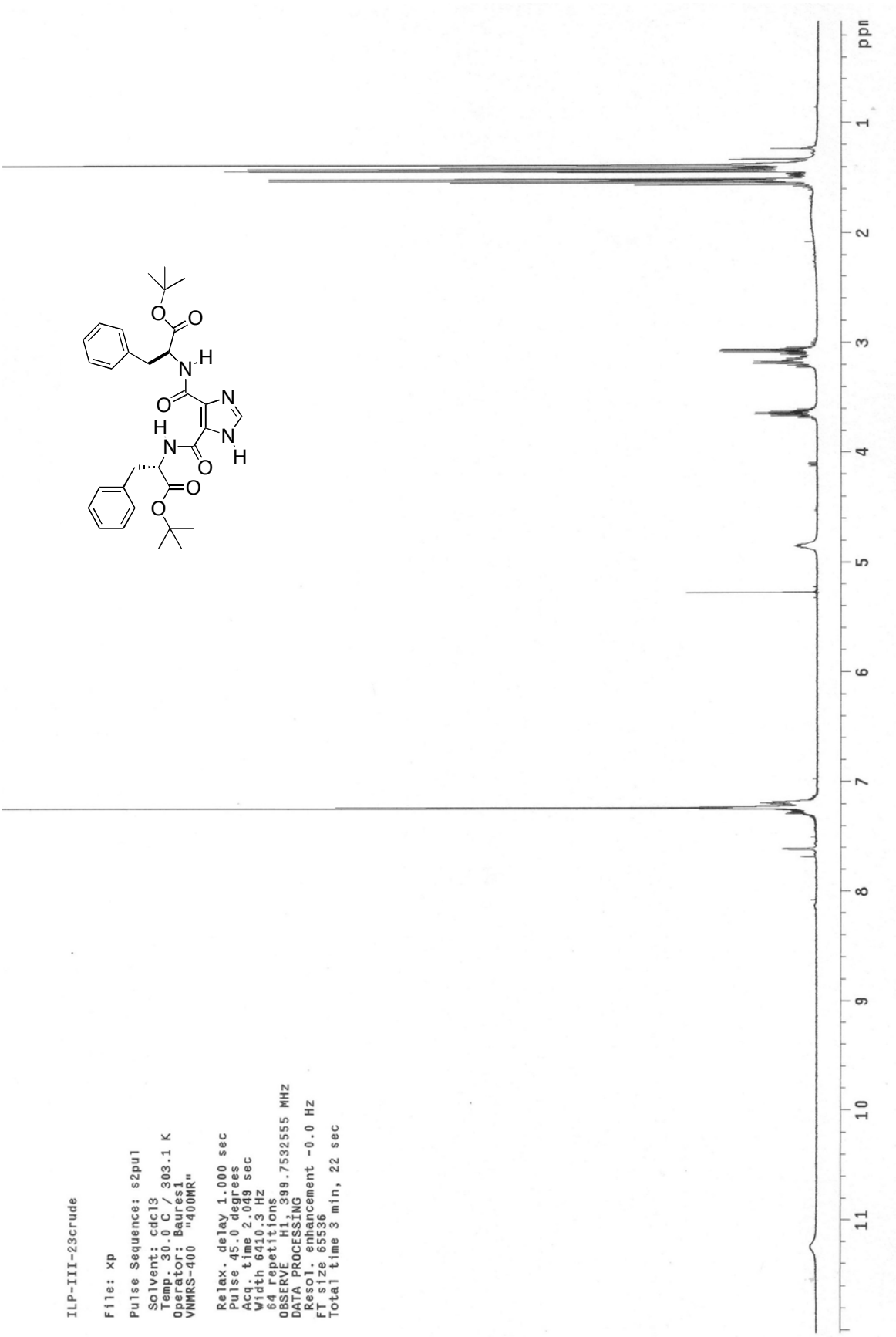

Figure S72. ^{1}H-NMR for the crude reaction to yield **4{**7}.

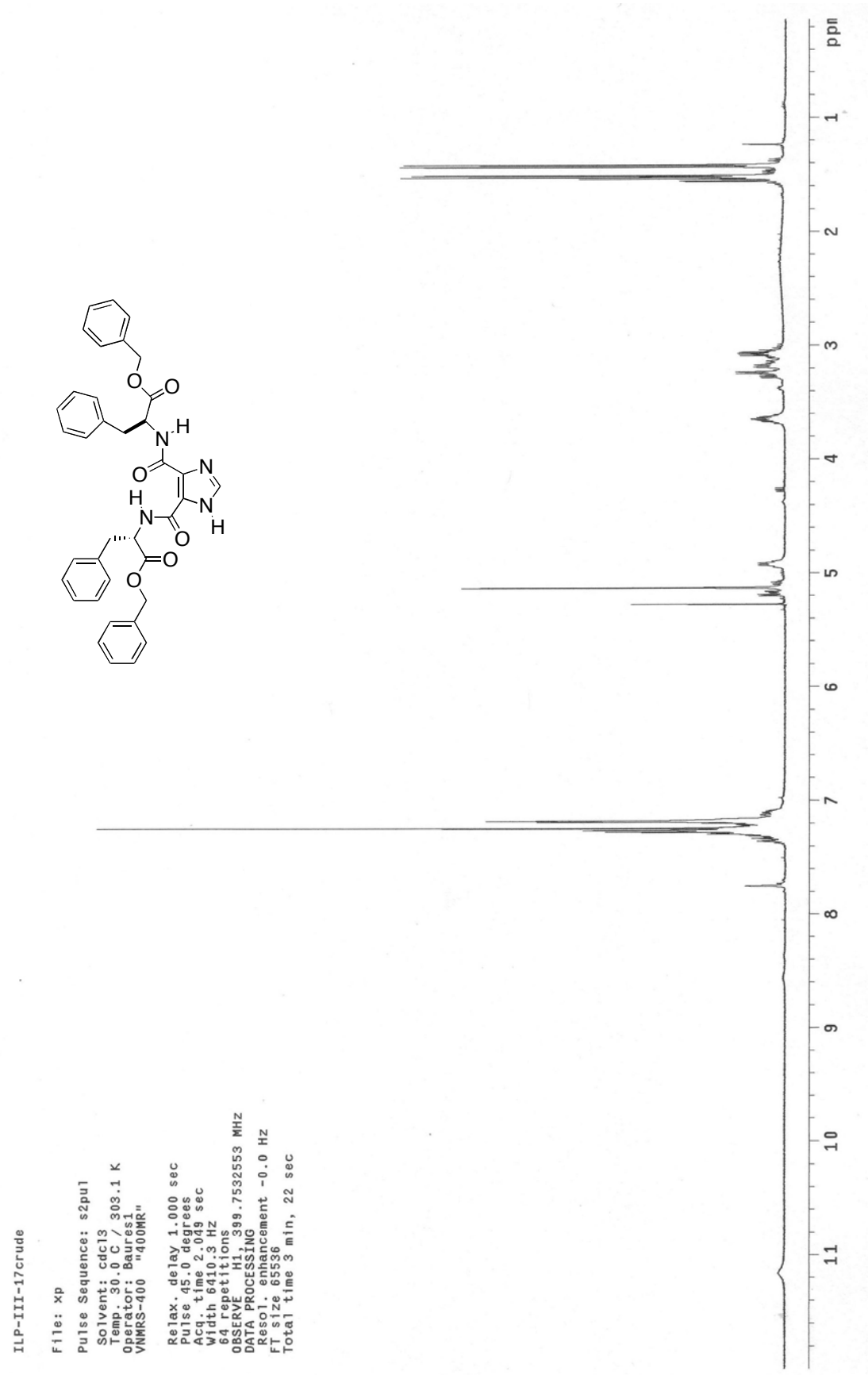

Figure S73. ^{1}H-NMR for the crude reaction to yield **4{**8}.

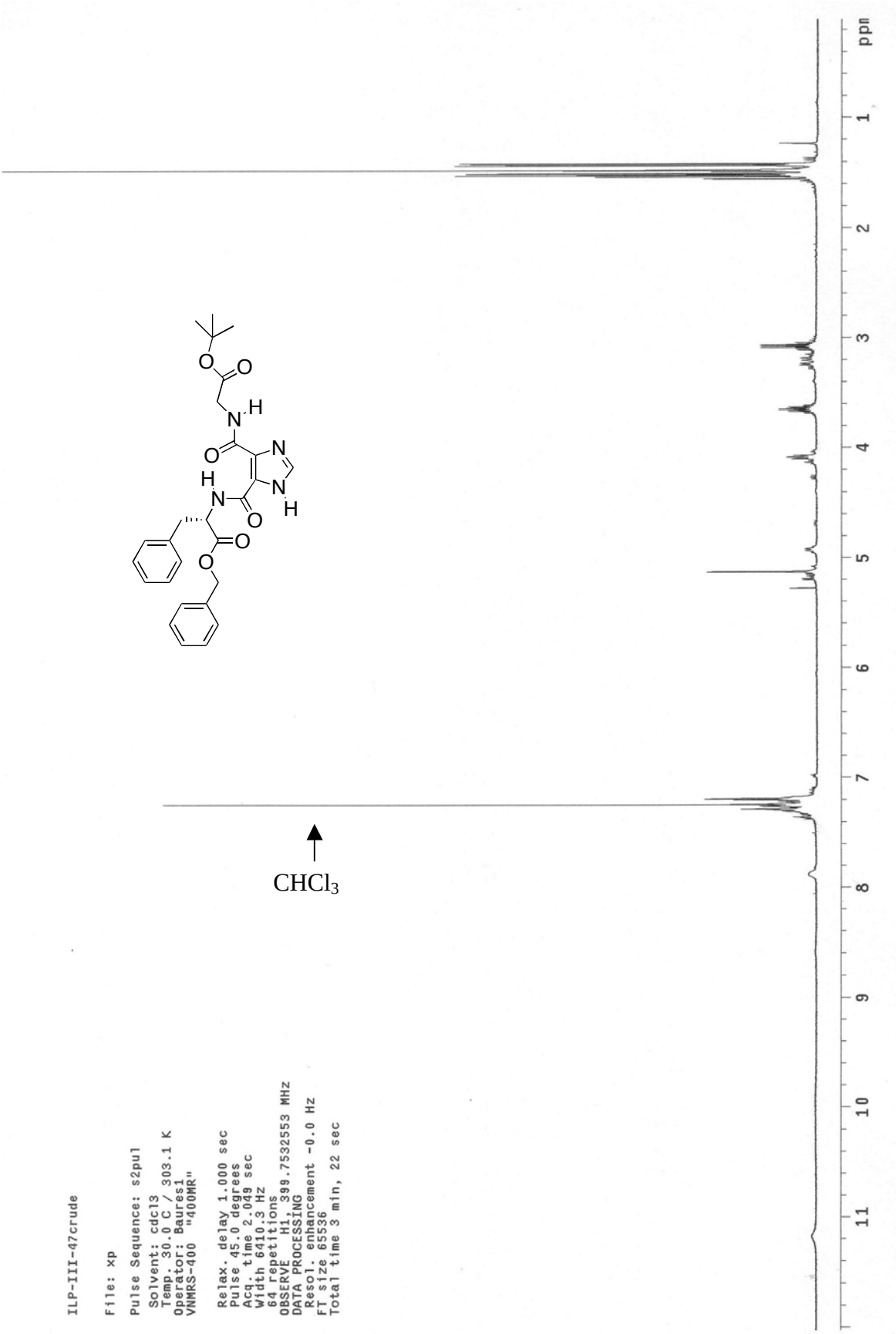

Figure S74. ^{1}H-NMR for the crude reaction to yield **4{**16}.

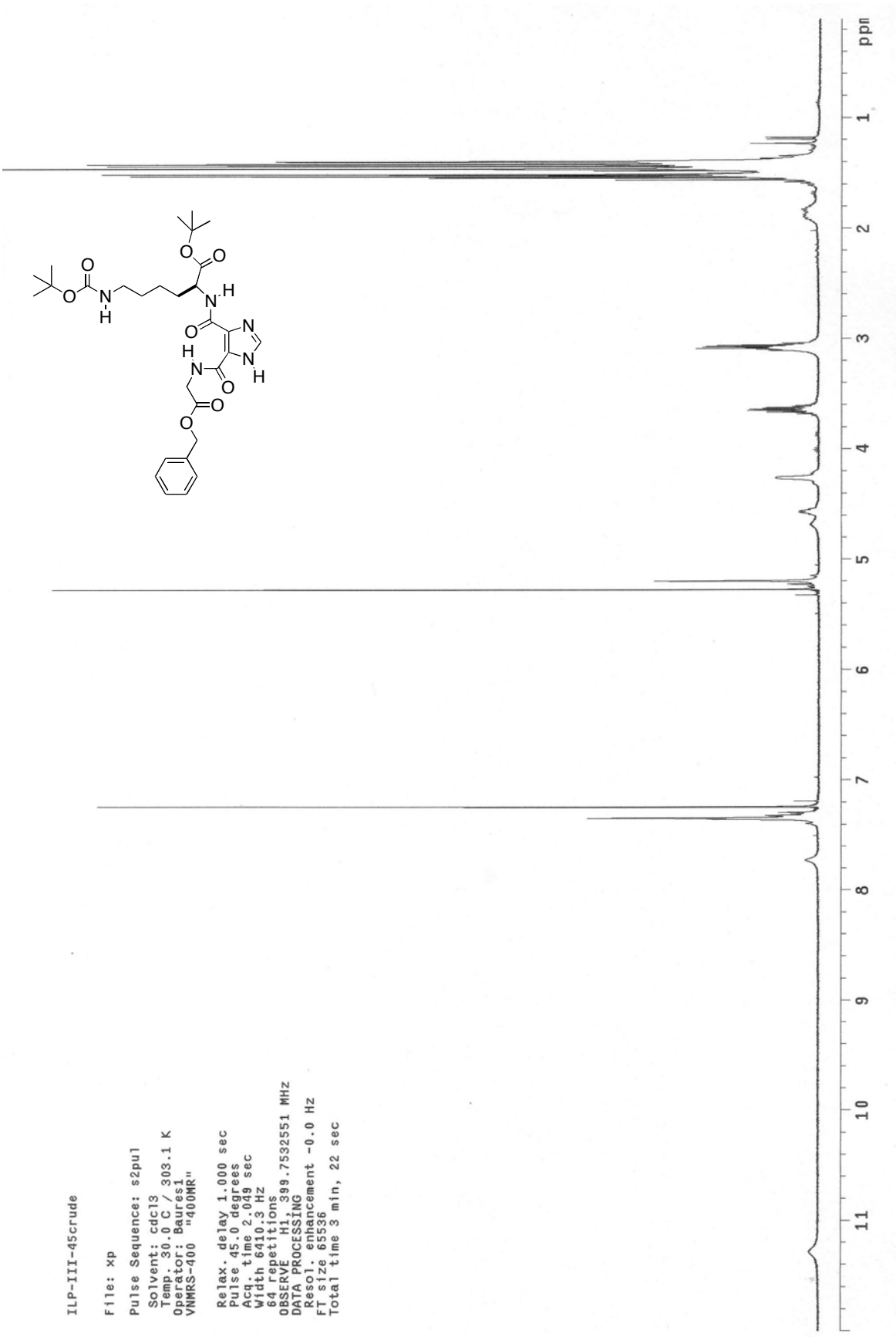

Figure S75. ^{1}H-NMR for the crude reaction to yield **4{**24}.

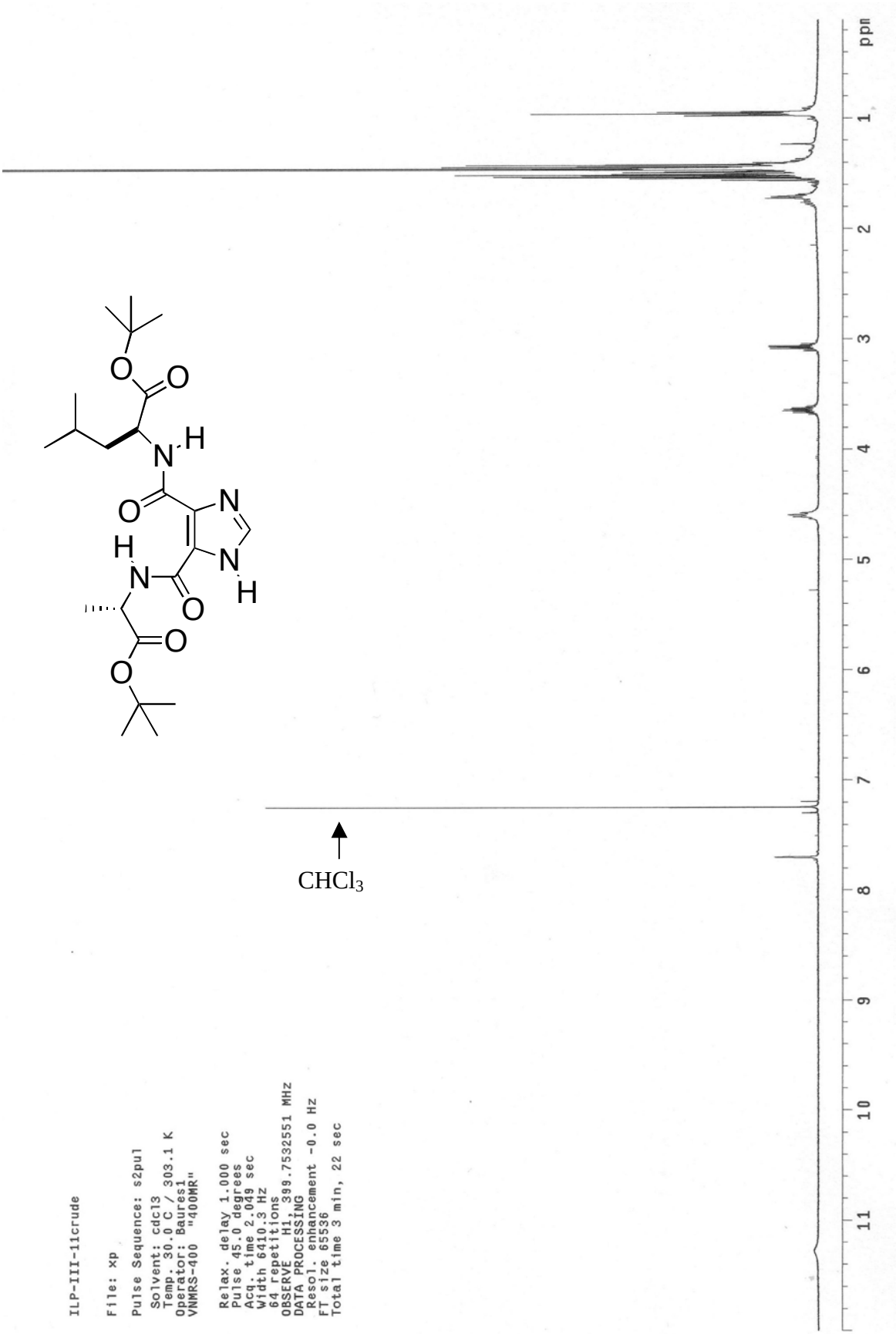

Figure S76. ^{1}H-NMR for the crude reaction to yield **4{**26}.

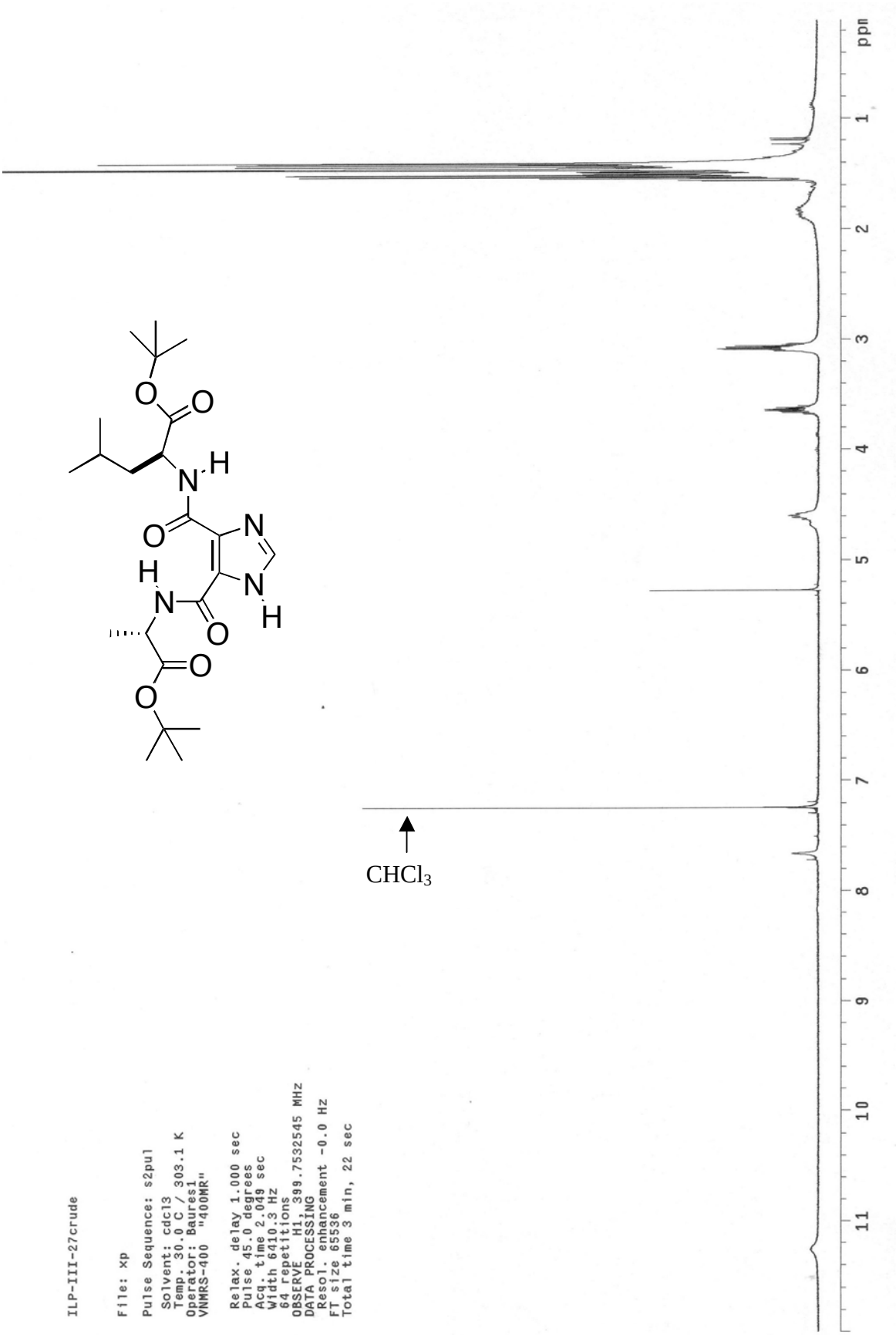

Figure S77. ^{1}H-NMR for the crude reaction to yield **4{**30}.

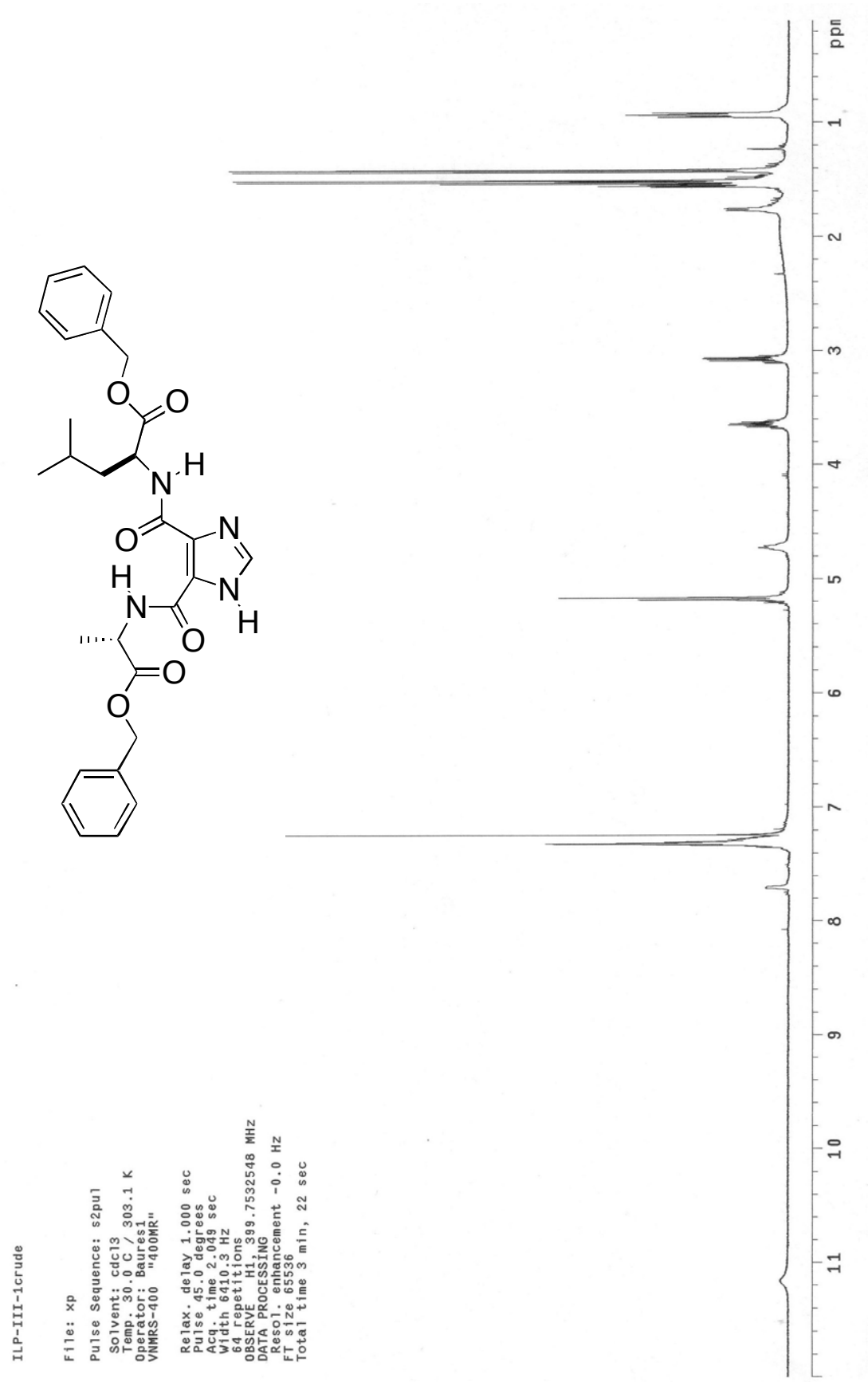

Figure S78. ^{1}H-NMR for the crude reaction to yield **4{**32}.

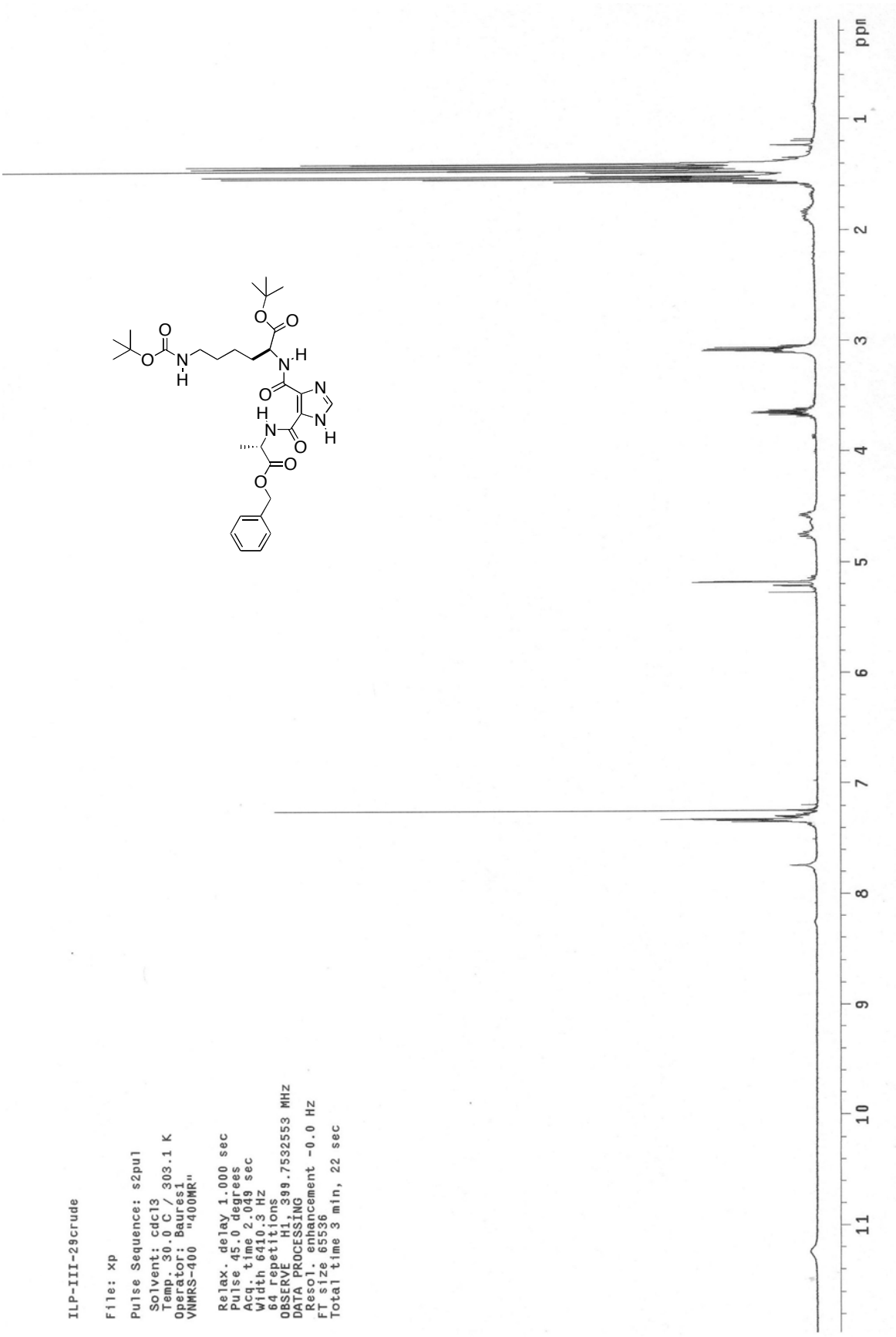

Figure S79. ^{1}H-NMR for the crude reaction to yield **4{**35}.

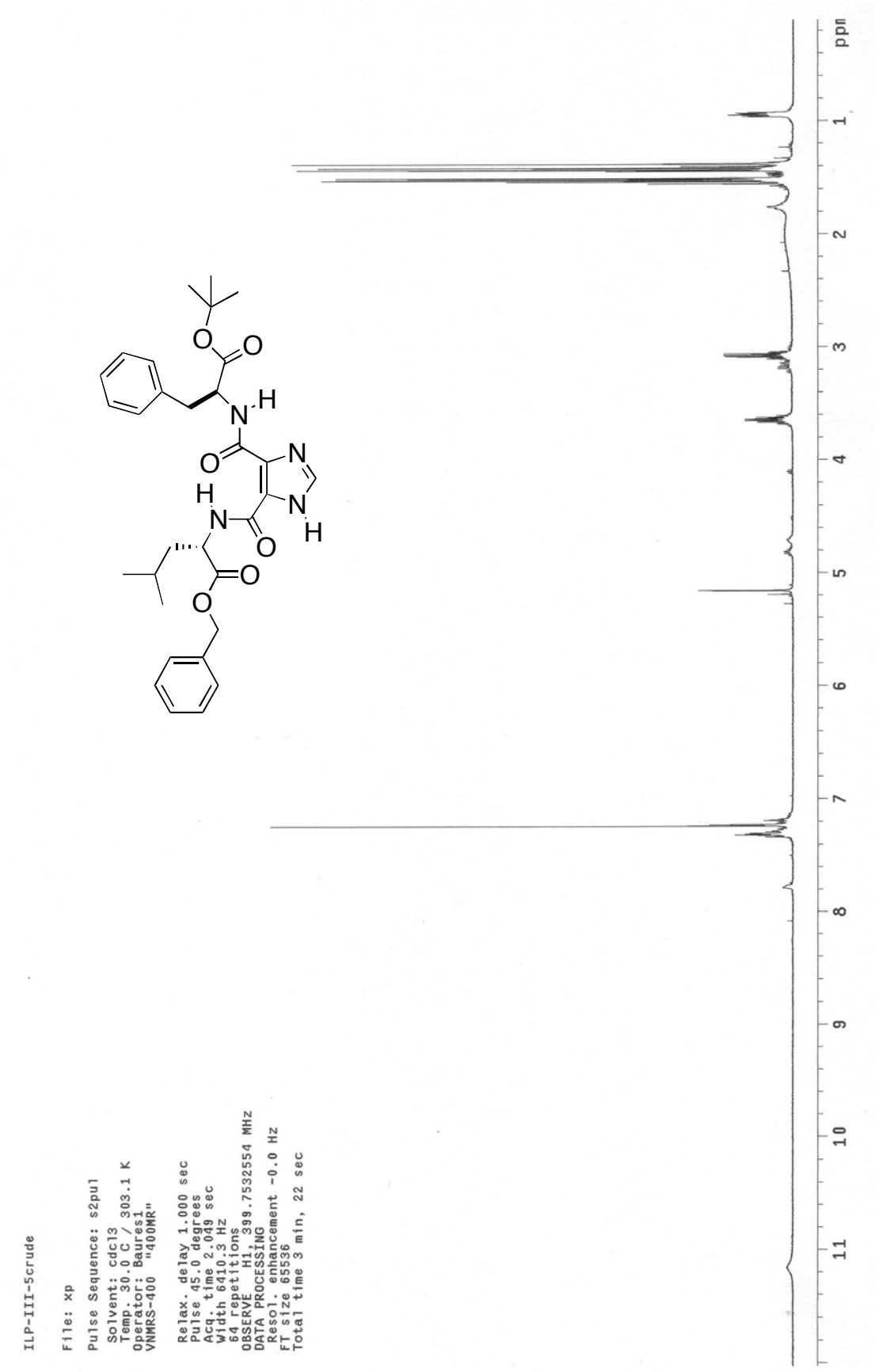

Figure S80. ^{1}H-NMR for the crude reaction to yield **4{**40}.