

Supplementary Information

Here are the ^1H NMR and ^{13}C NMR spectra of the synthesized compounds

Figure 1: ^1H -NMR (400 MHz, CDCl_3) spectrum of 2-chloroquinoline-3-carbaldehyde (**4**)

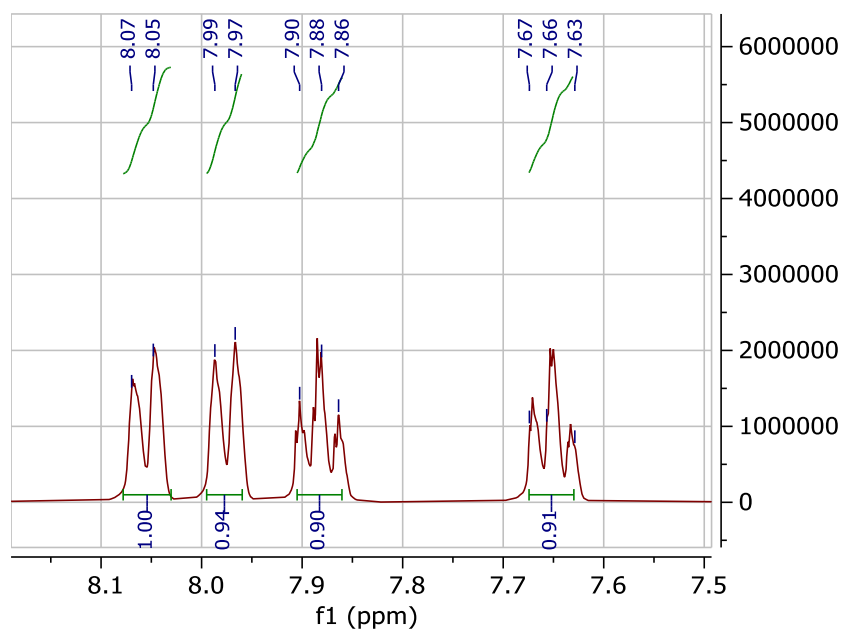
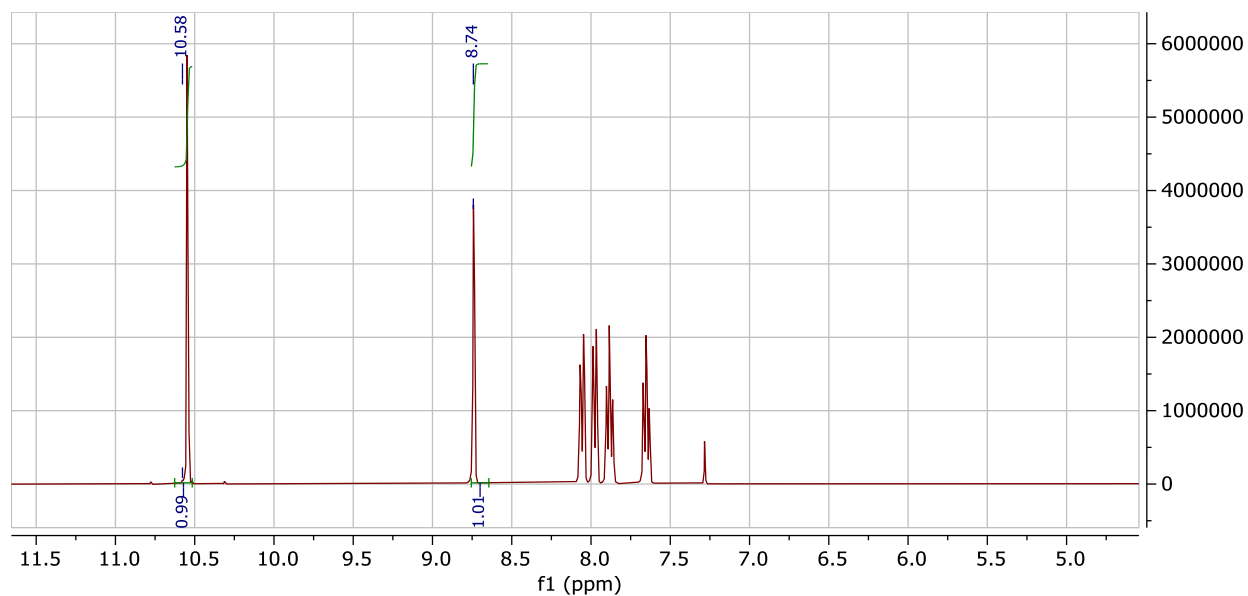


Figure 2: ^{13}C -NMR (100 MHz, CDCl_3) spectrum of 2-chloroquinoline-3-carbaldehyde (**4**)

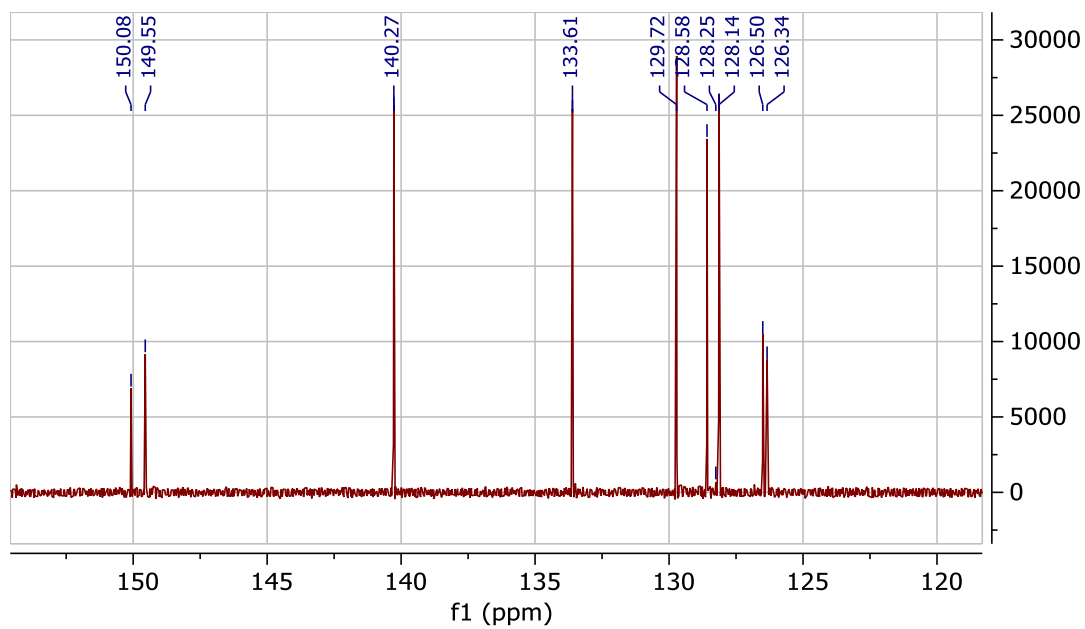
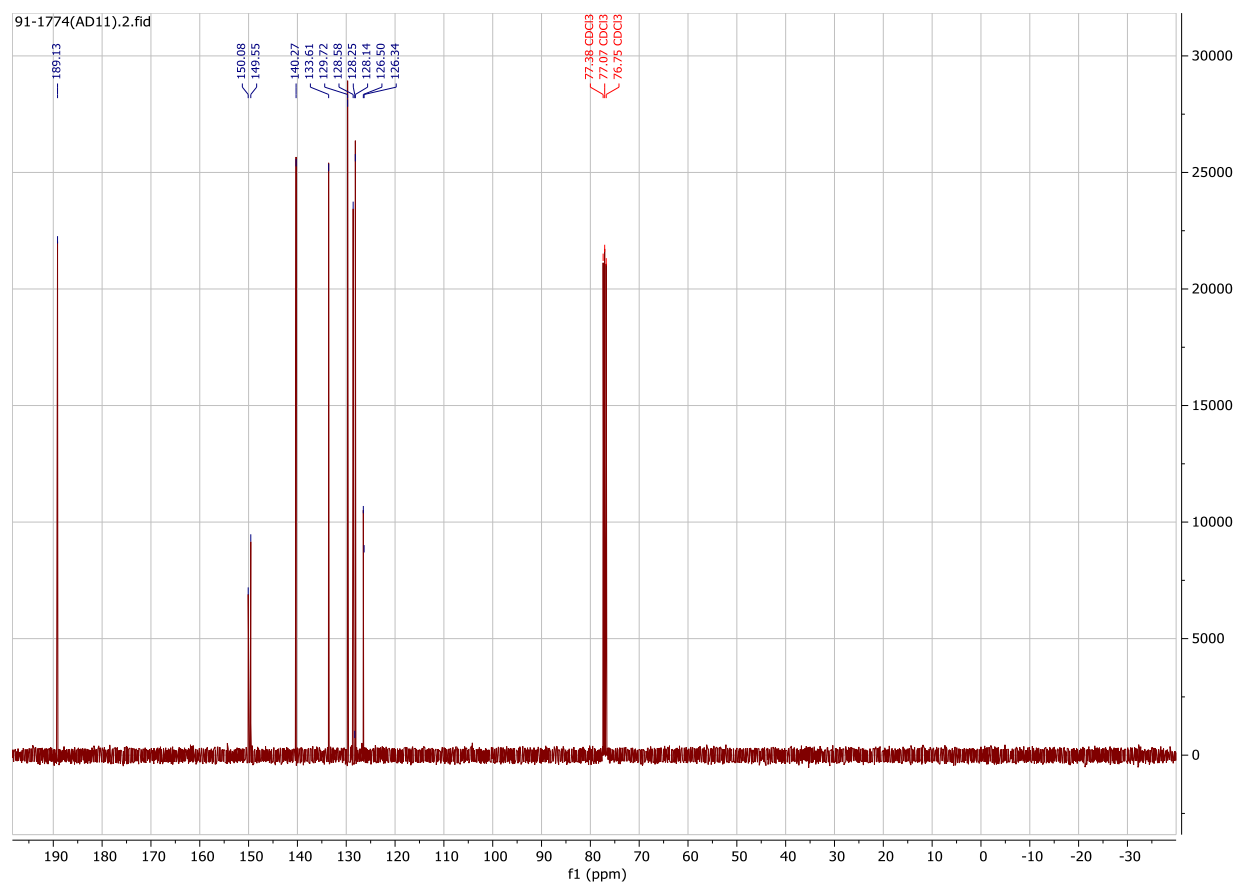


Figure 3: ^1H - NMR (400 MHz, CDCl_3) spectrum of 2-methoxyquinoline-3-carbaldehyde (**5**)

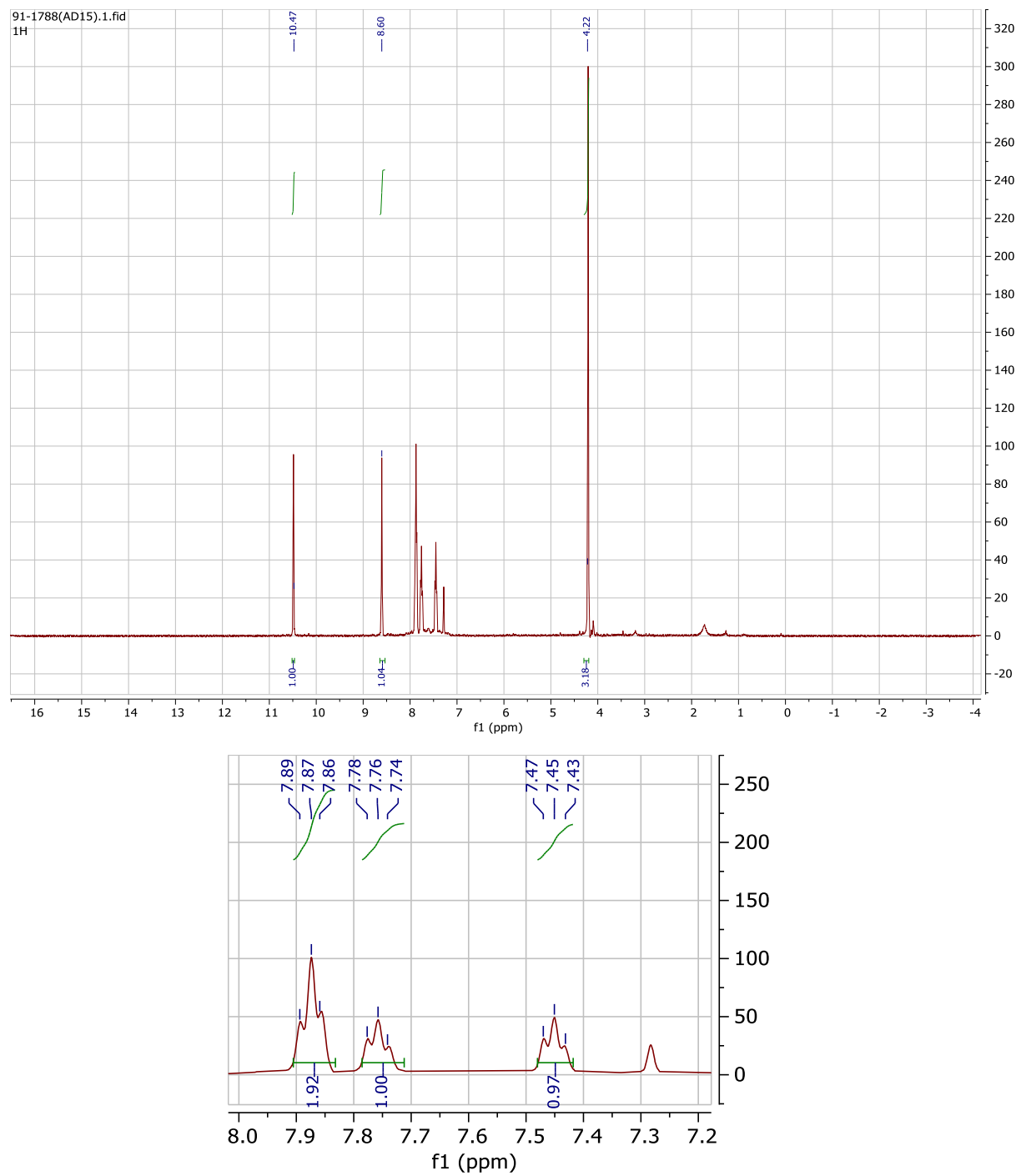


Figure 4: ^{13}C -NMR (100 MHz, CDCl_3) spectrum of 2-methoxyquinoline-3-carbaldehyde (**5**)

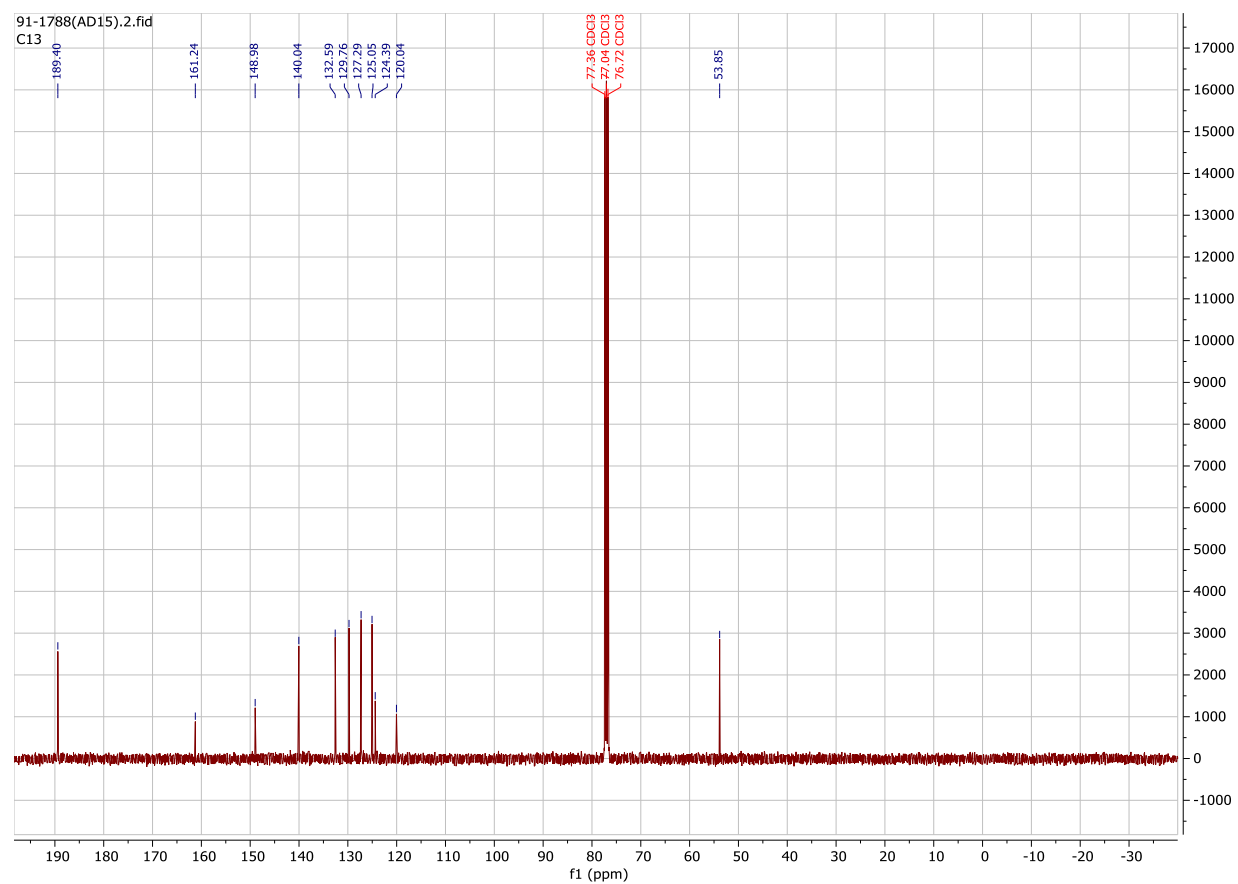
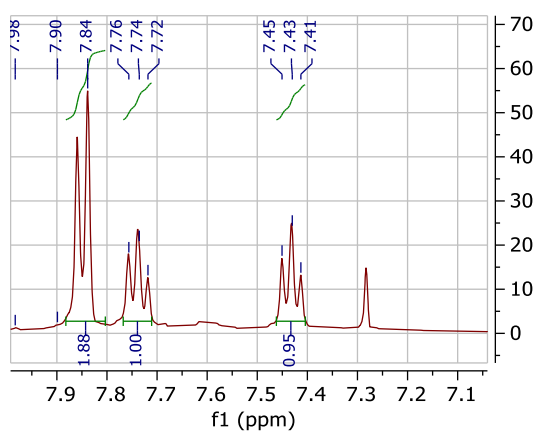
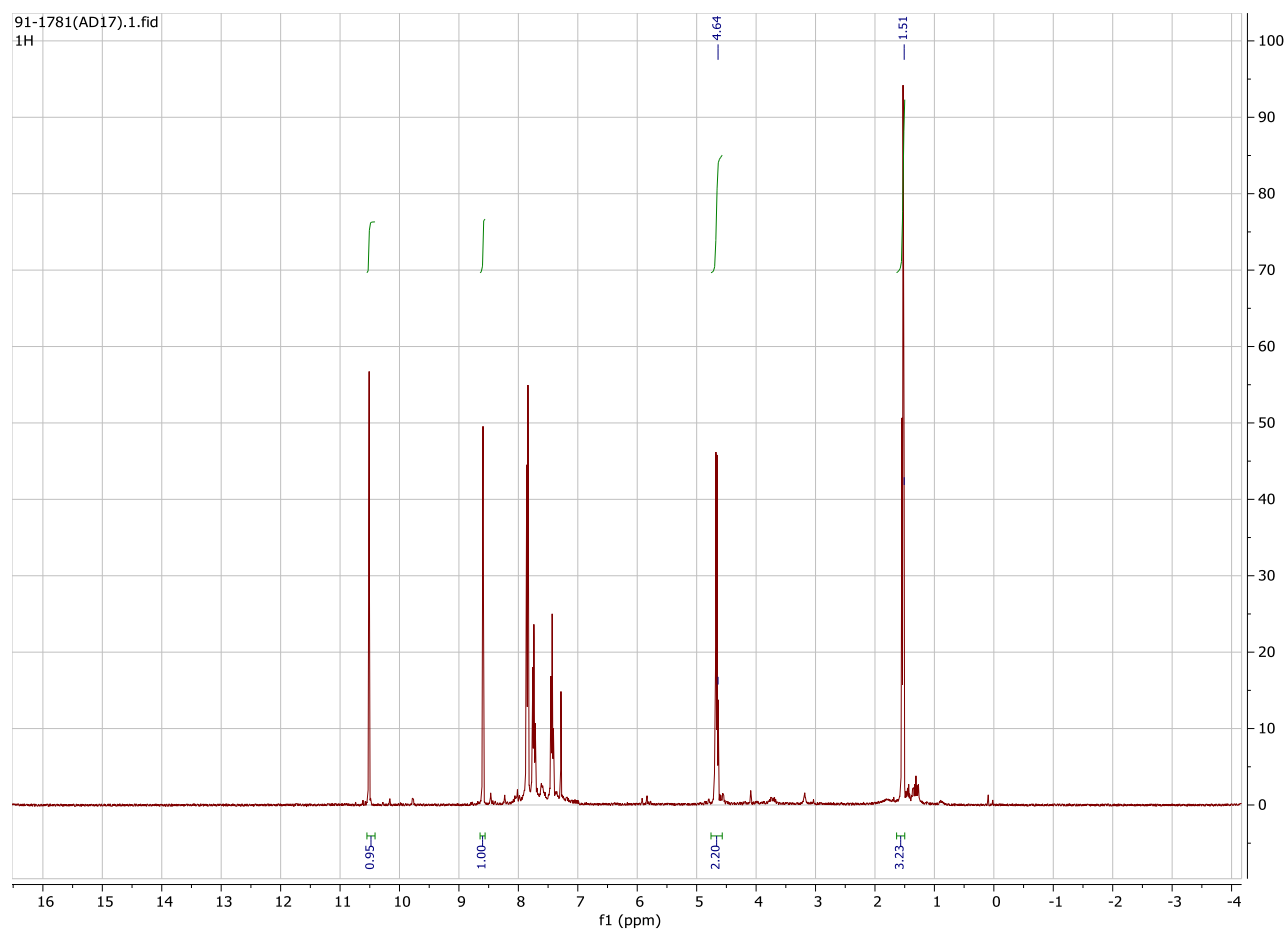


Figure 5: ^1H - NMR (400 MHz, CDCl_3) spectrum of 2-ethoxyquinoline-3-carbaldehyde (6)



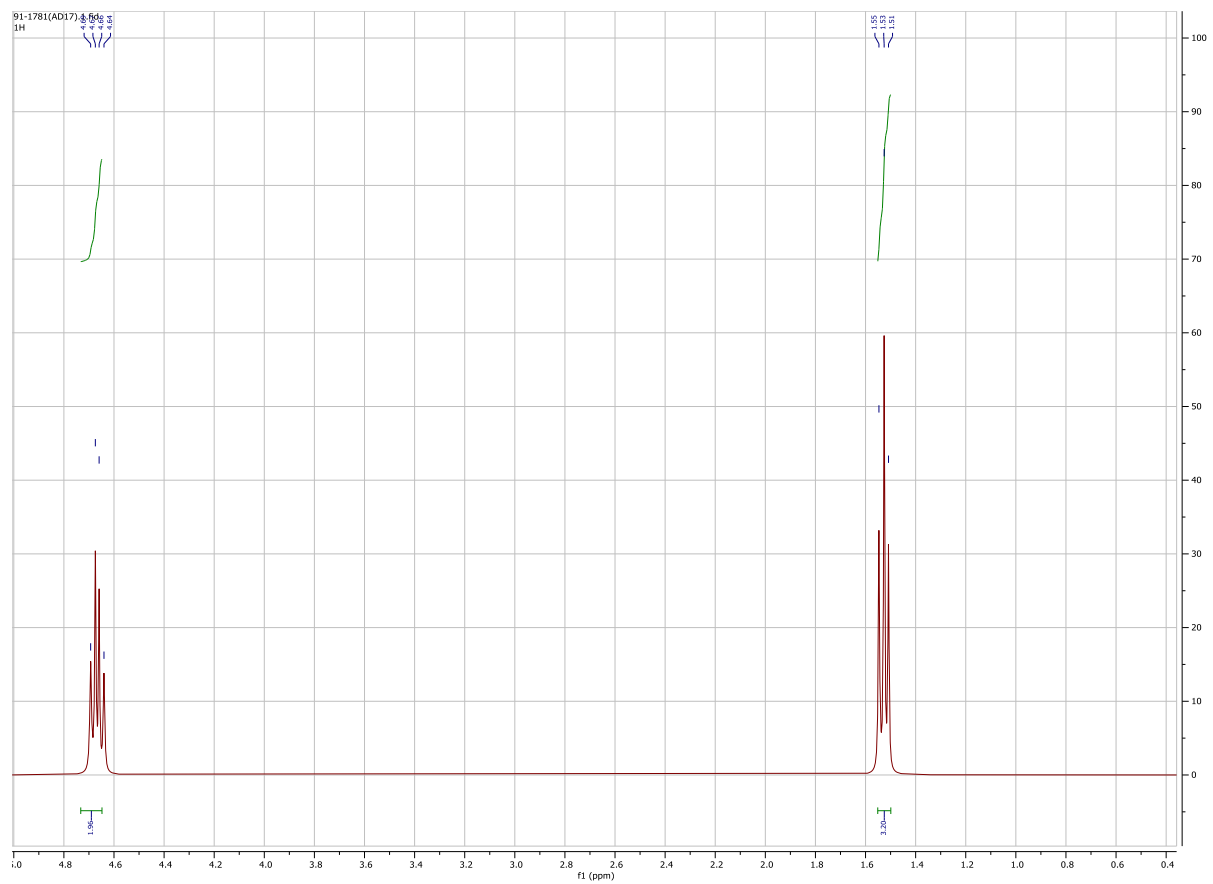


Figure 6: ^{13}C -NMR (100 MHz, CDCl_3) spectrum of 2-ethoxyquinoline-3-carbaldehyde (**6**)

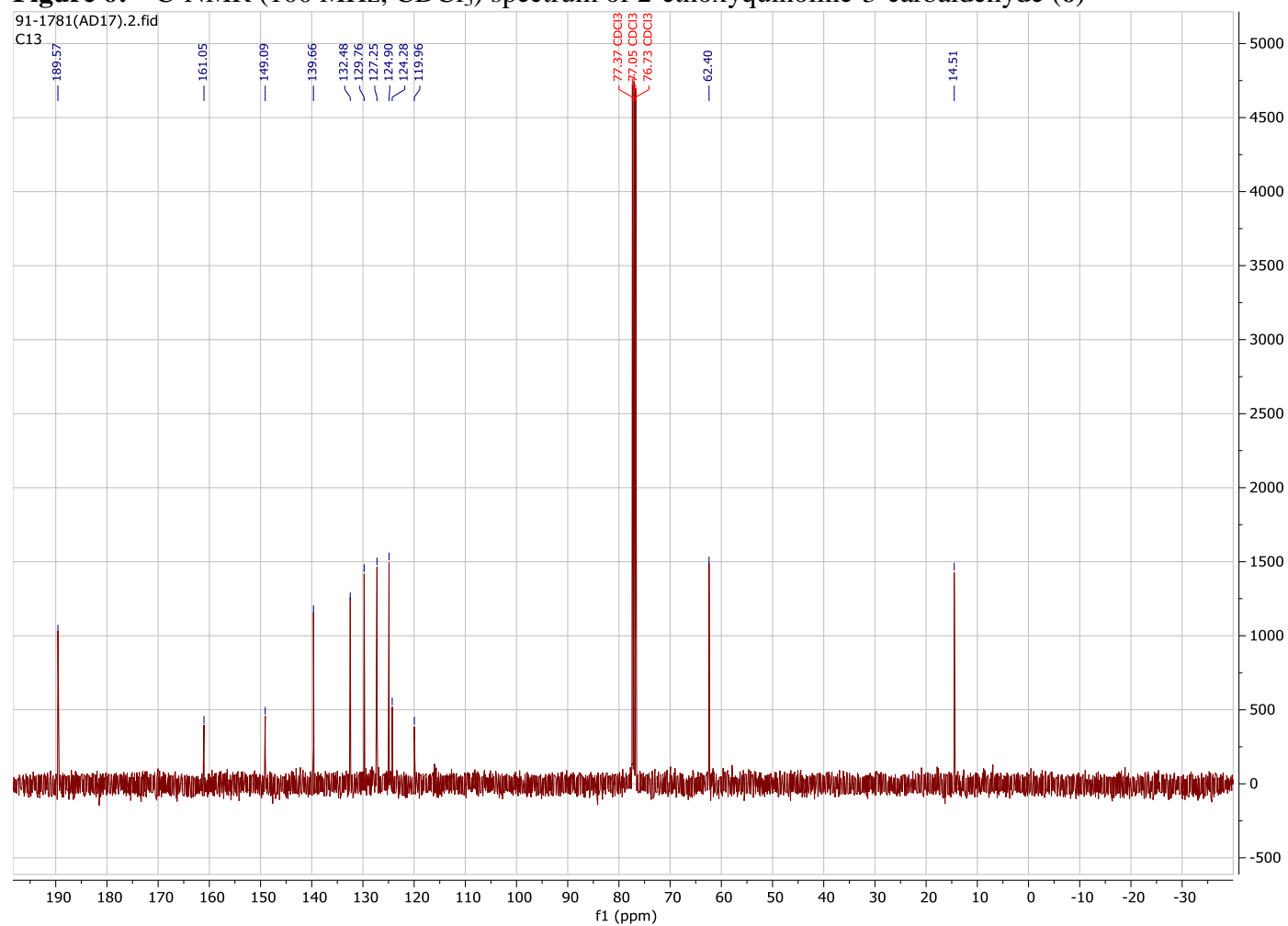
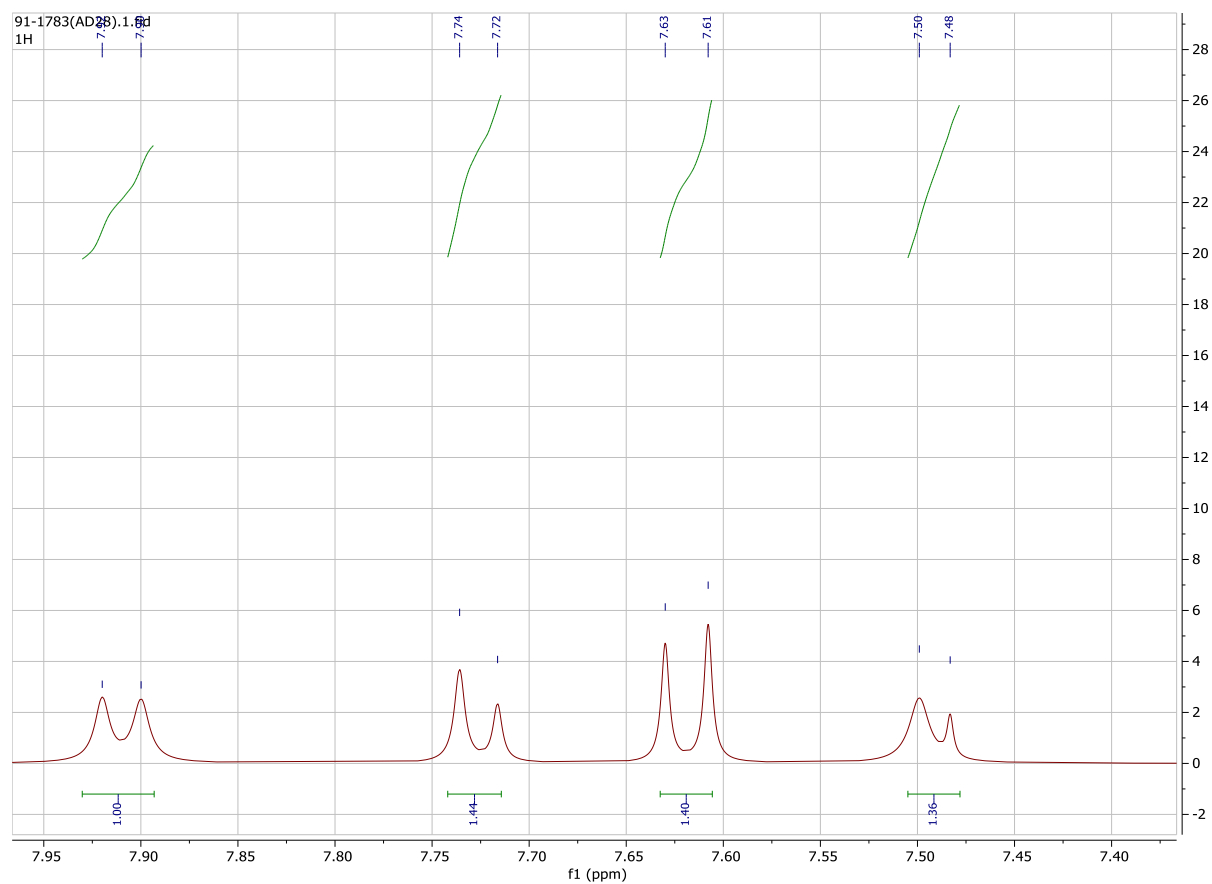


Figure 7: ^1H -NMR (400 MHz, DMSO- d_6) spectrum of 2-thiocyanatoquinoline-3-carbaldehyde (7)



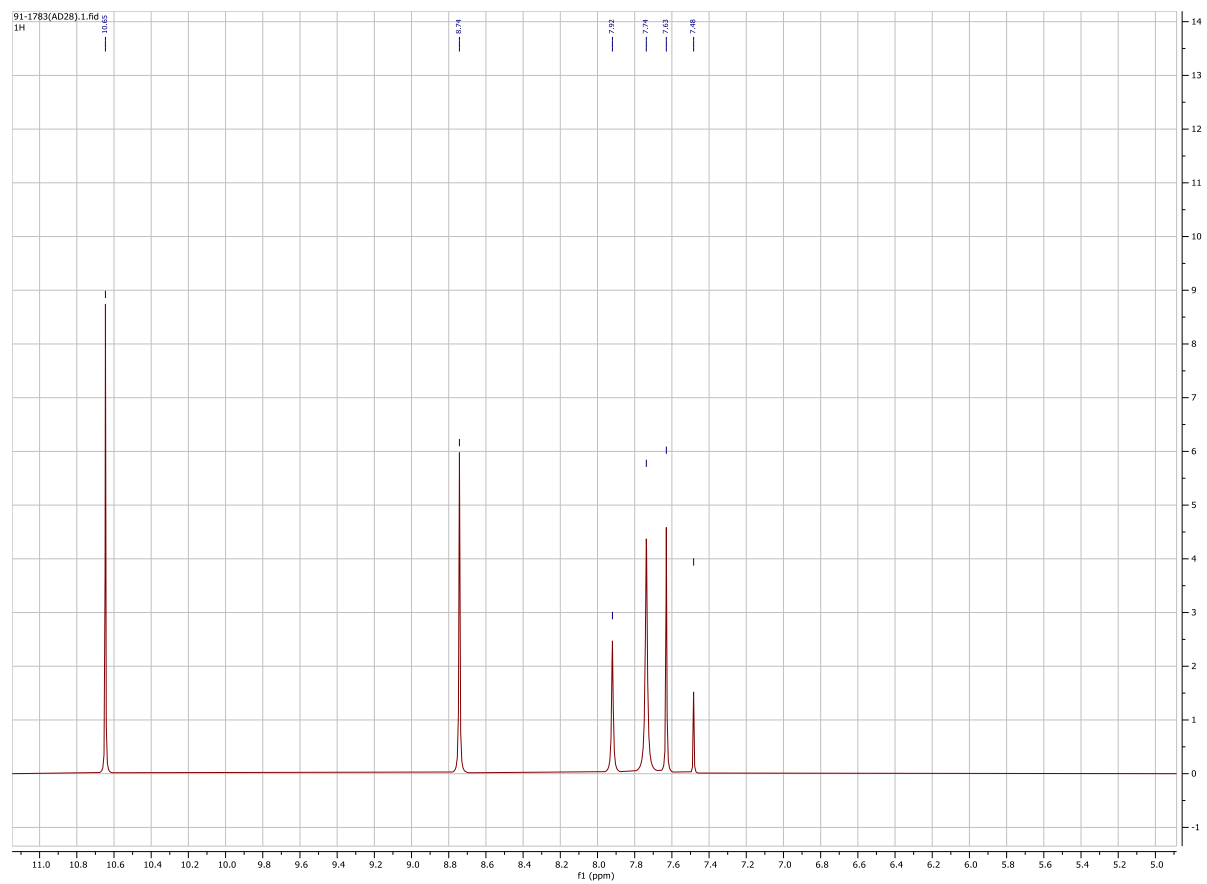


Figure 8: ^1H -NMR (400 MHz, DMSO- d_6) spectrum of 2-chloroquinoline-3-carboxylic acid (**8**)

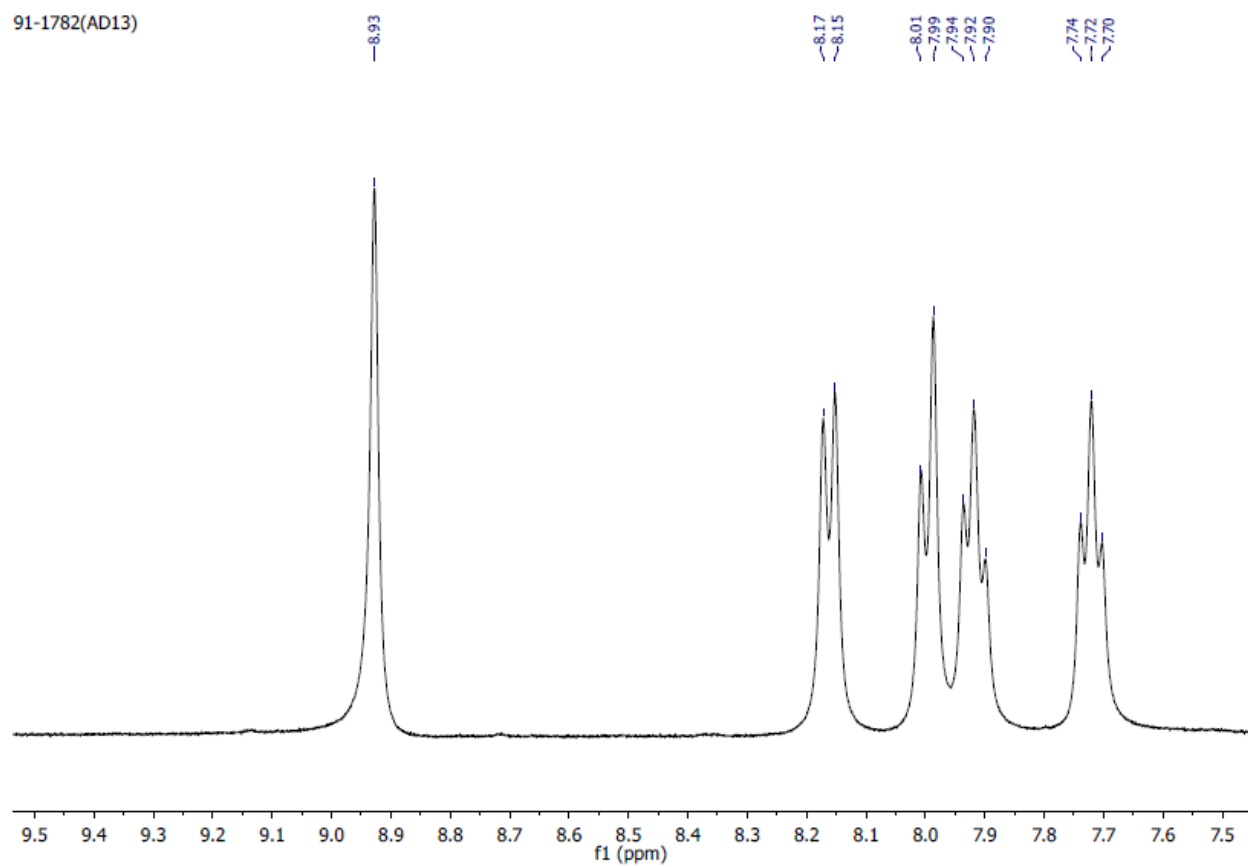


Figure 9: ^{13}C -NMR (100 MHz, DMSO- d_6) spectrum of 2-ethoxyquinoline-3-carbaldehyde (**8**)

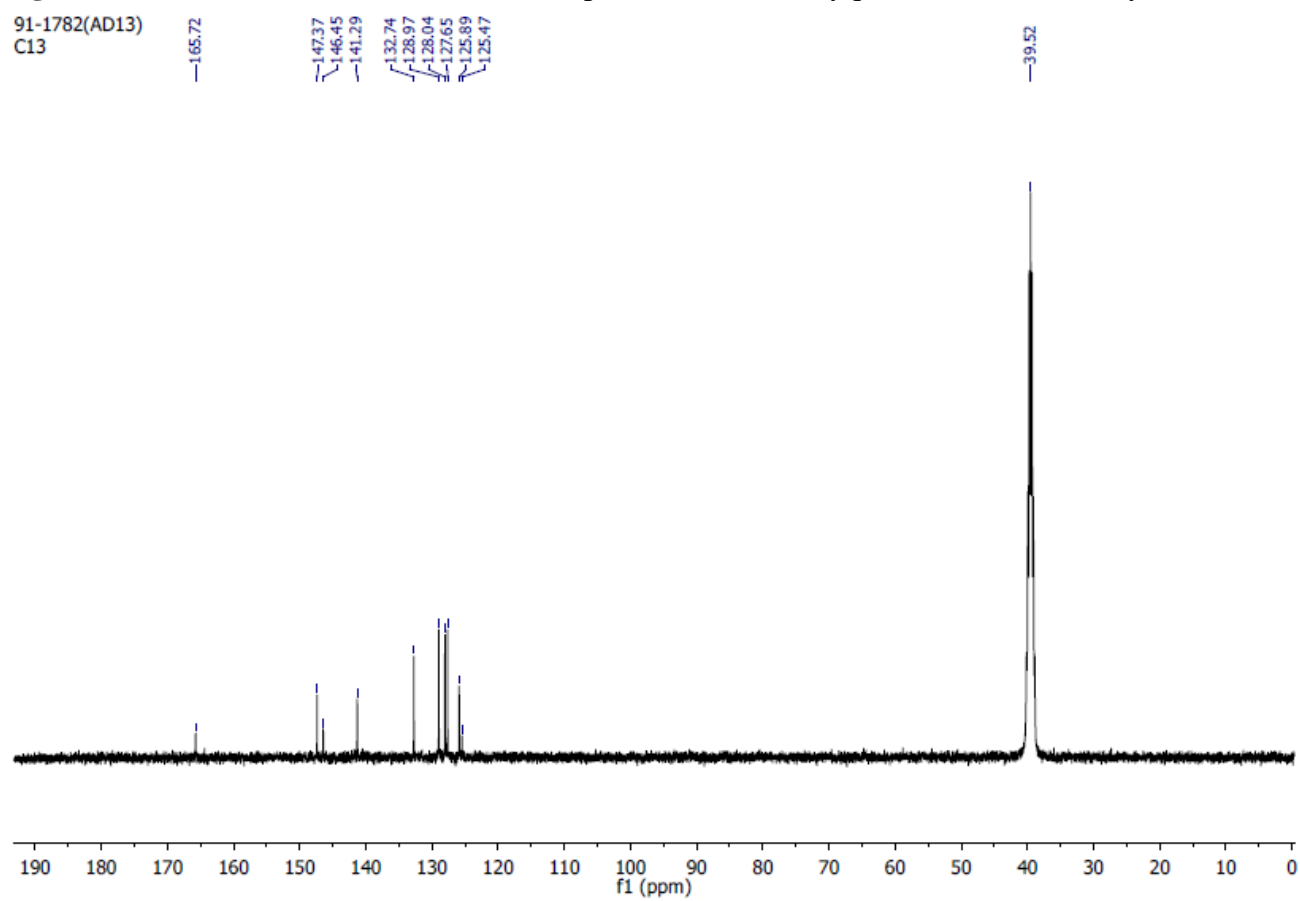
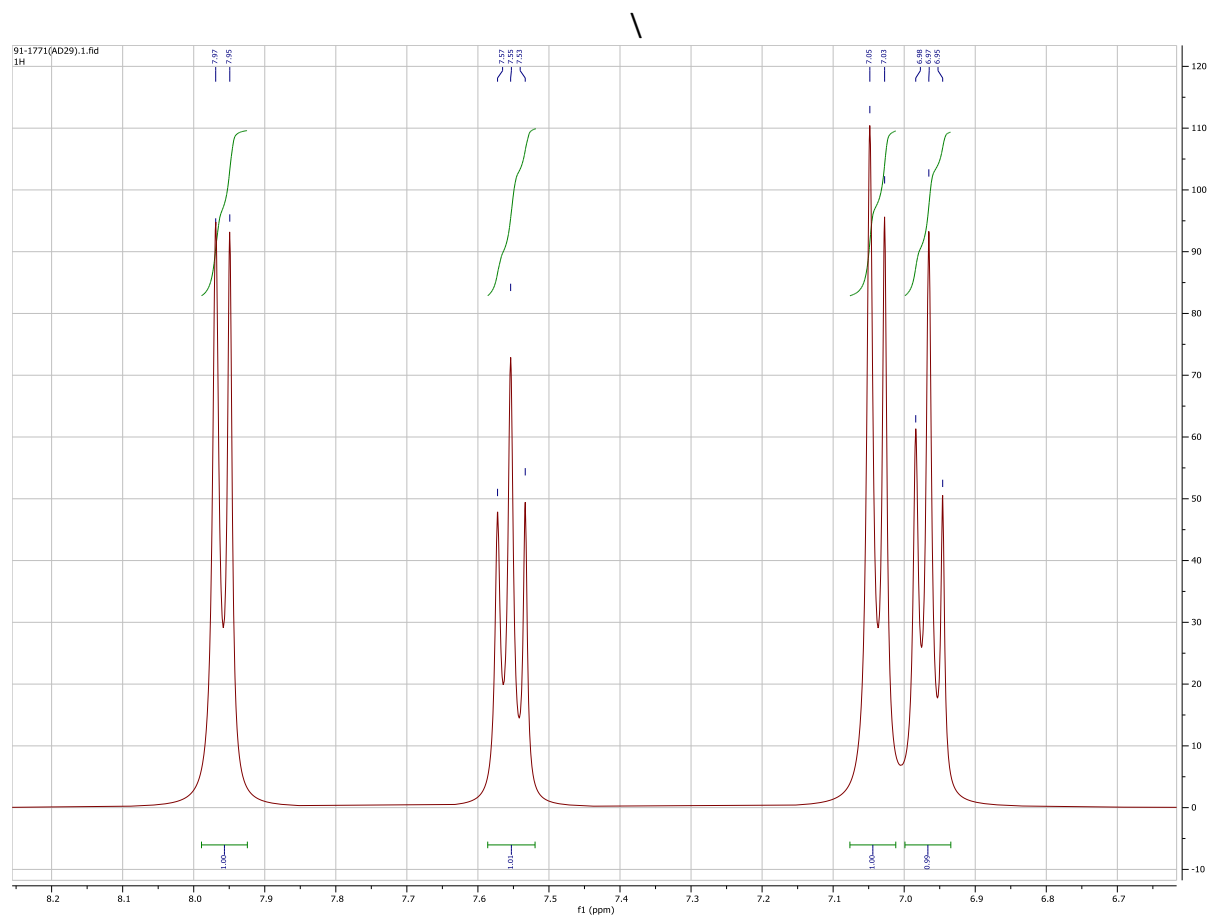


Figure 10: ^1H -NMR (400 MHz, CDCl_3) spectrum of 2-nitro-12H-chromeno[2,3-b]quinolin-12-one (11)



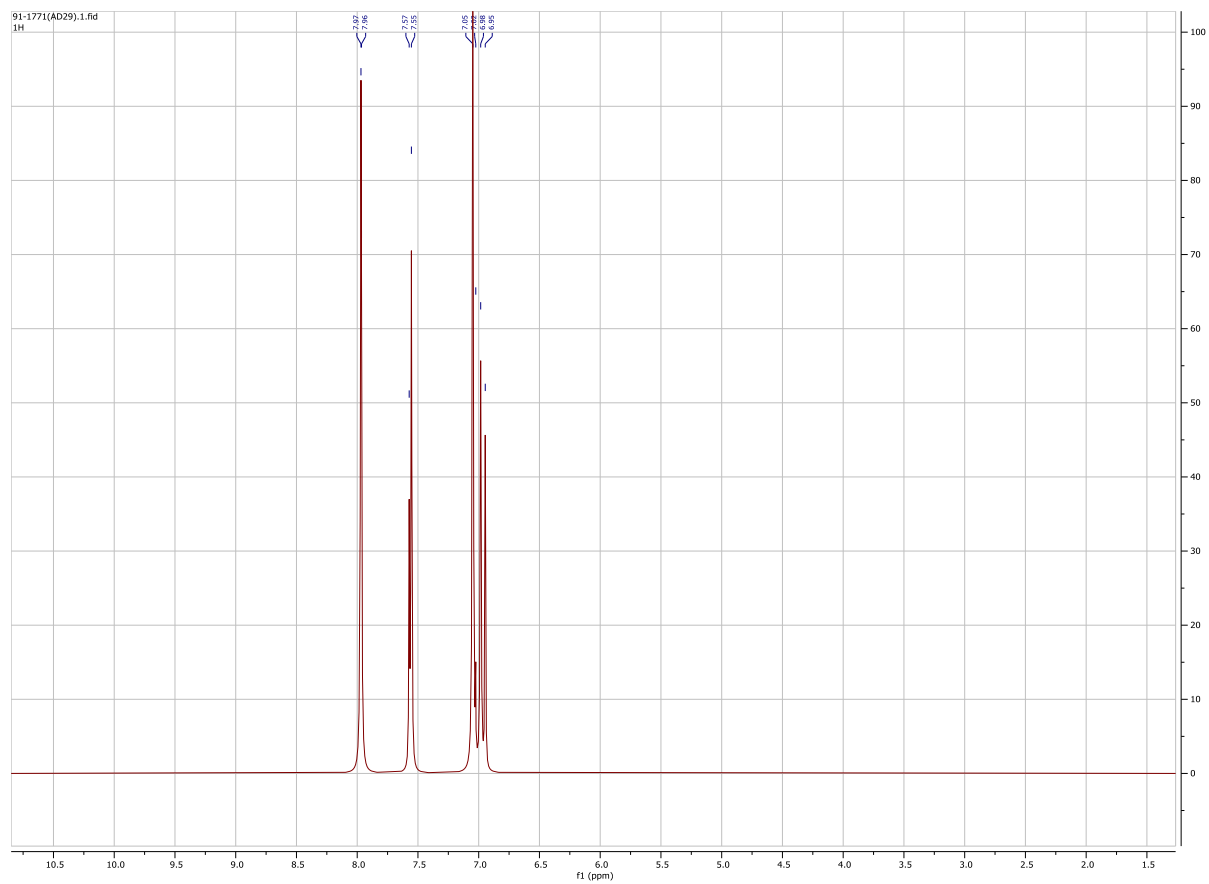


Figure 11: ^{13}C -NMR (100 MHz, CDCl_3) spectrum of 2-nitro-12H-chromeno[2,3-b]quinolin-12-one (**11**)

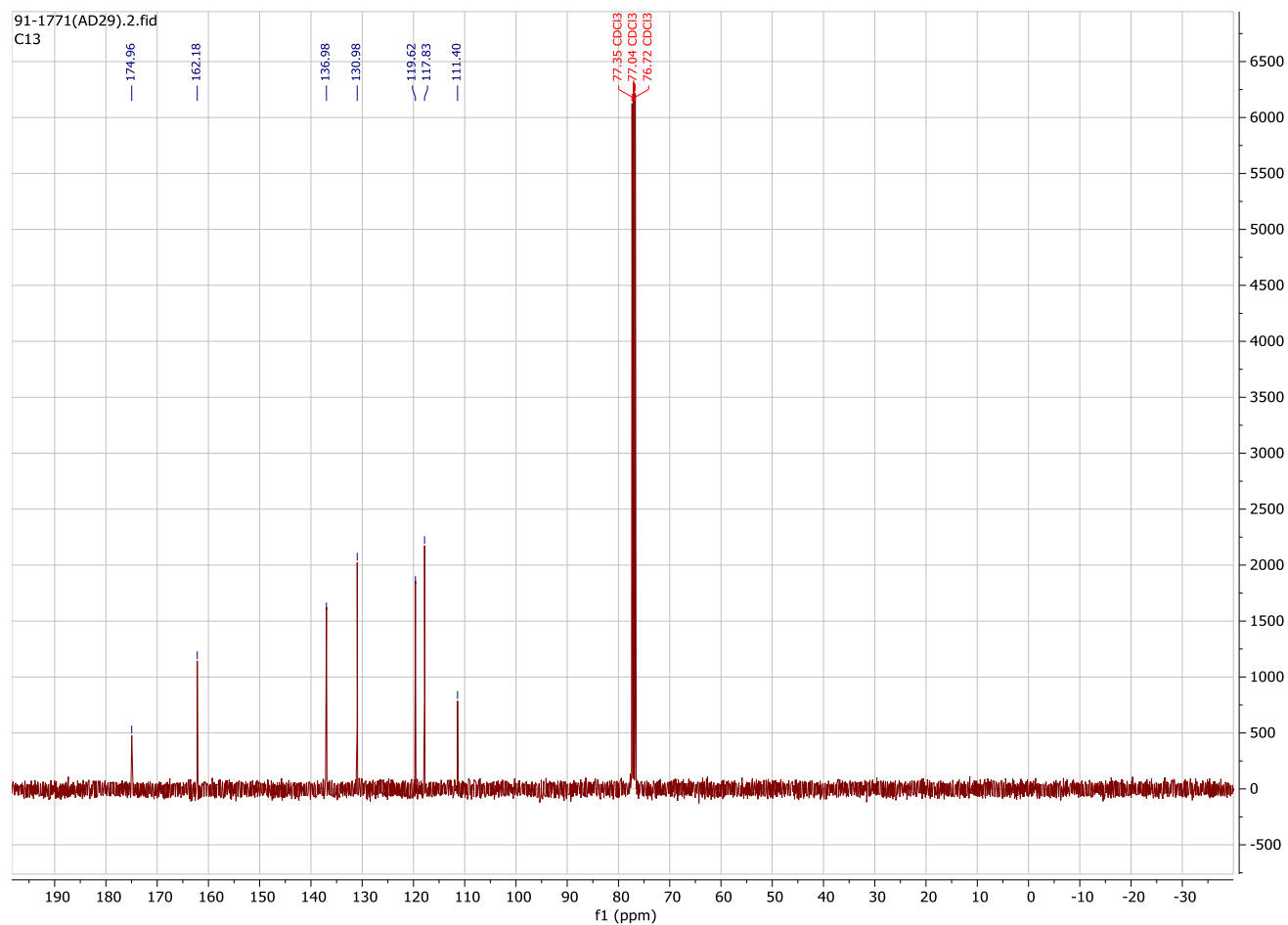


Figure 12: ^1H -NMR (400 MHz; CDCl_3) spectrum of 2-chloro-8-methylquinoline-3-carbaldehyde (**14**)

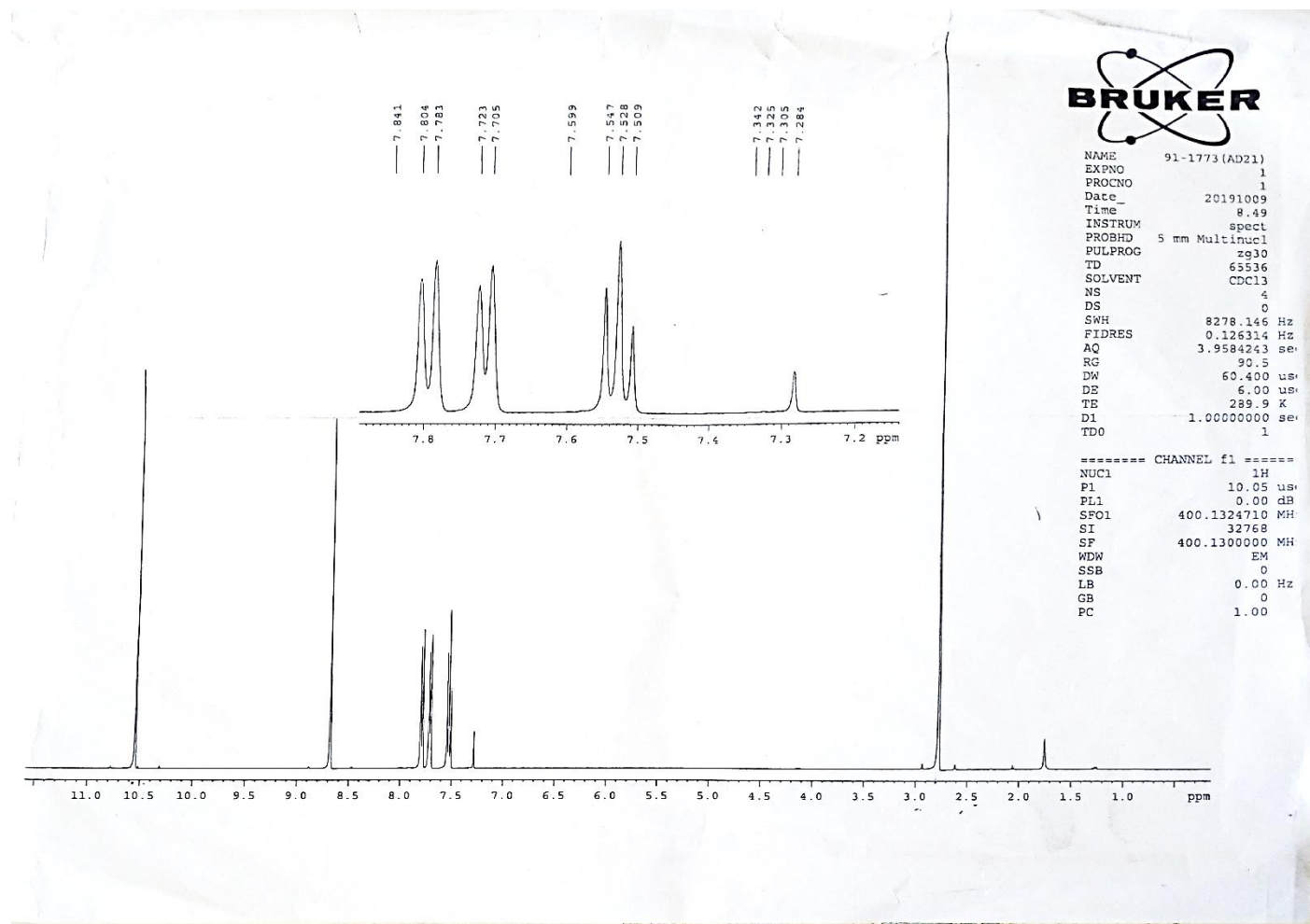


Figure 13: ^{13}C -NMR (100 MHz; CDCl_3) spectrum of 2-chloro-8-methylquinoline-3-carbaldehyde (**14**)

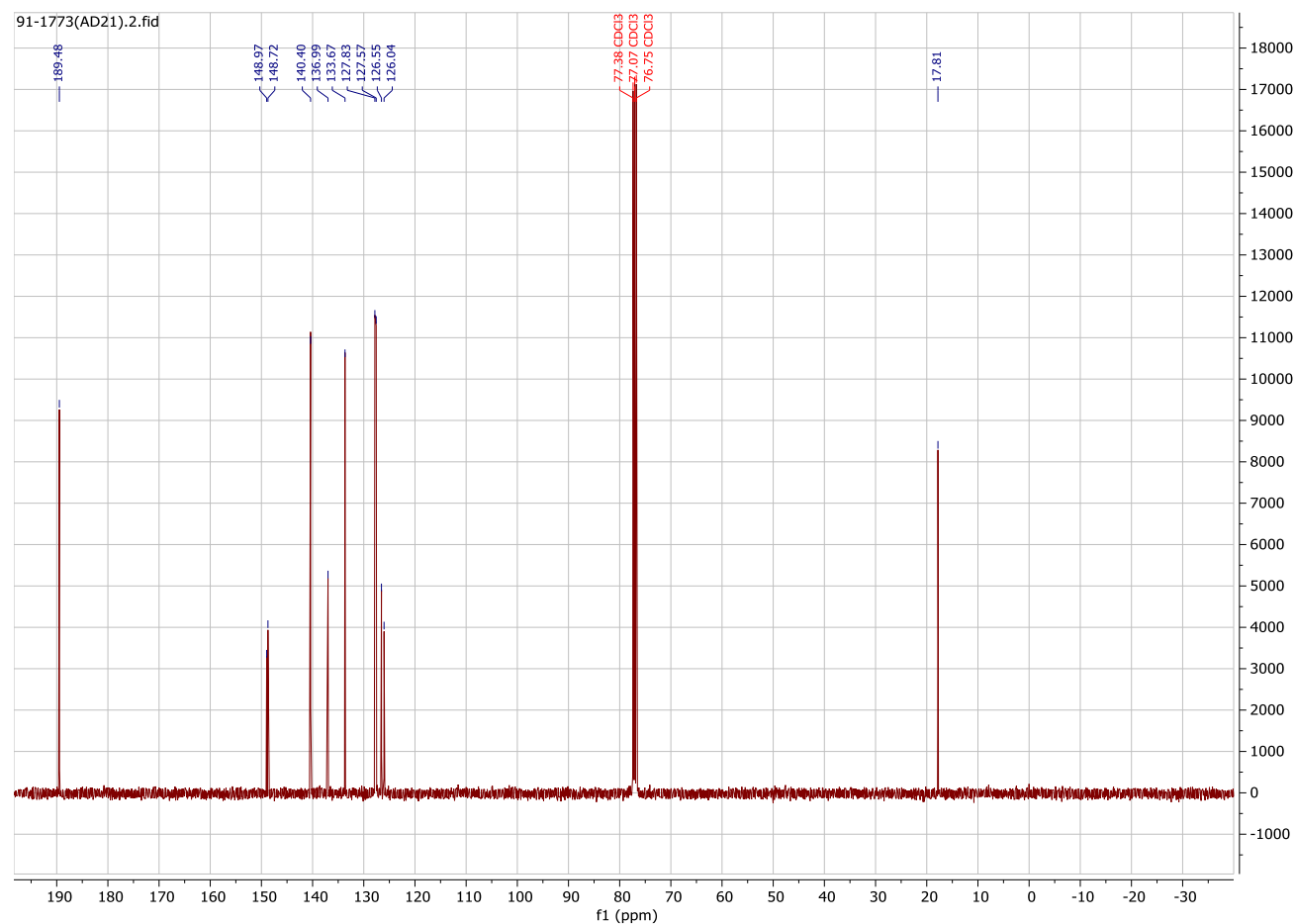


Figure 14: ^1H - NMR (400 MHz; CDCl_3) spectrum of 8-methyl-2-oxoquinoline-3-carbaldehyde (15)

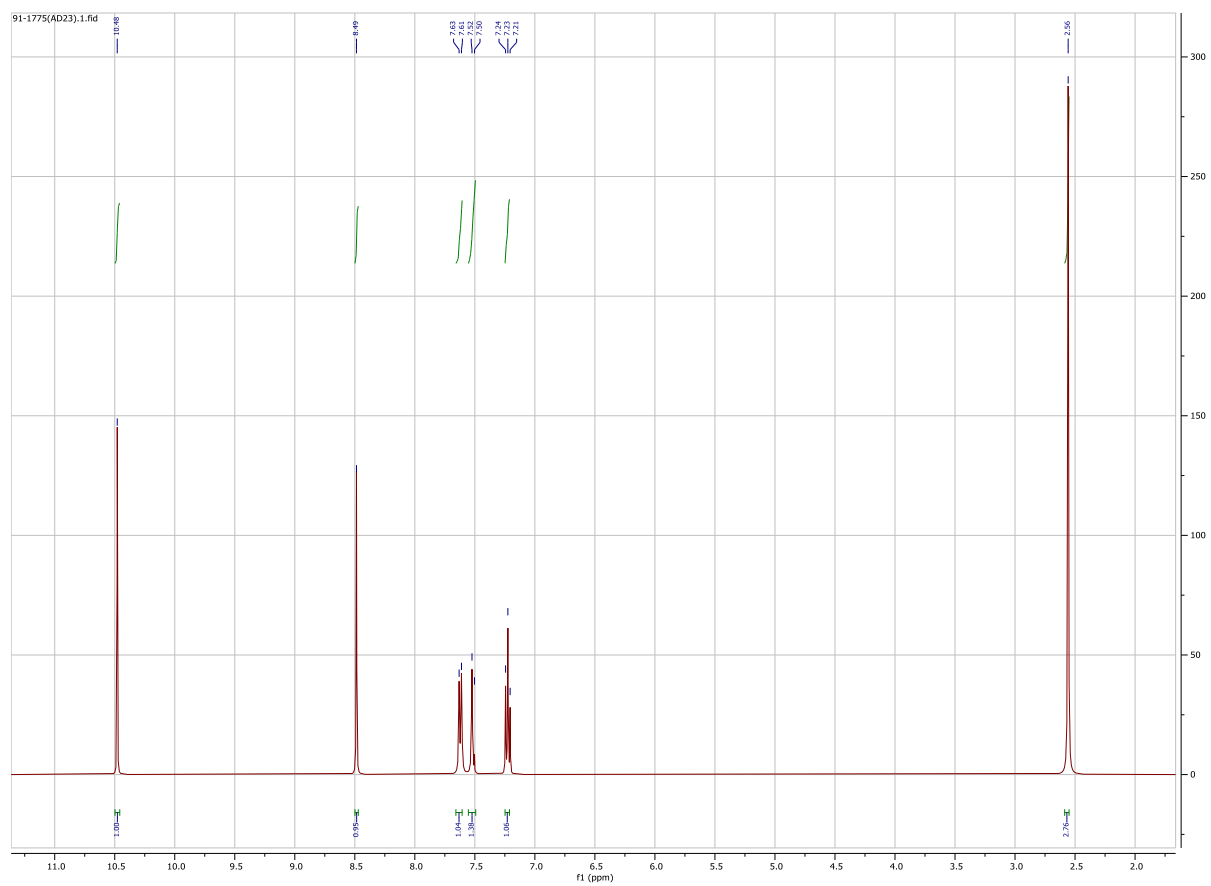


Figure 15: ^{13}C -NMR (100 MHz; CDCl_3) spectrum of 8-methyl-2-oxoquinoline-3-carbaldehyde (15)

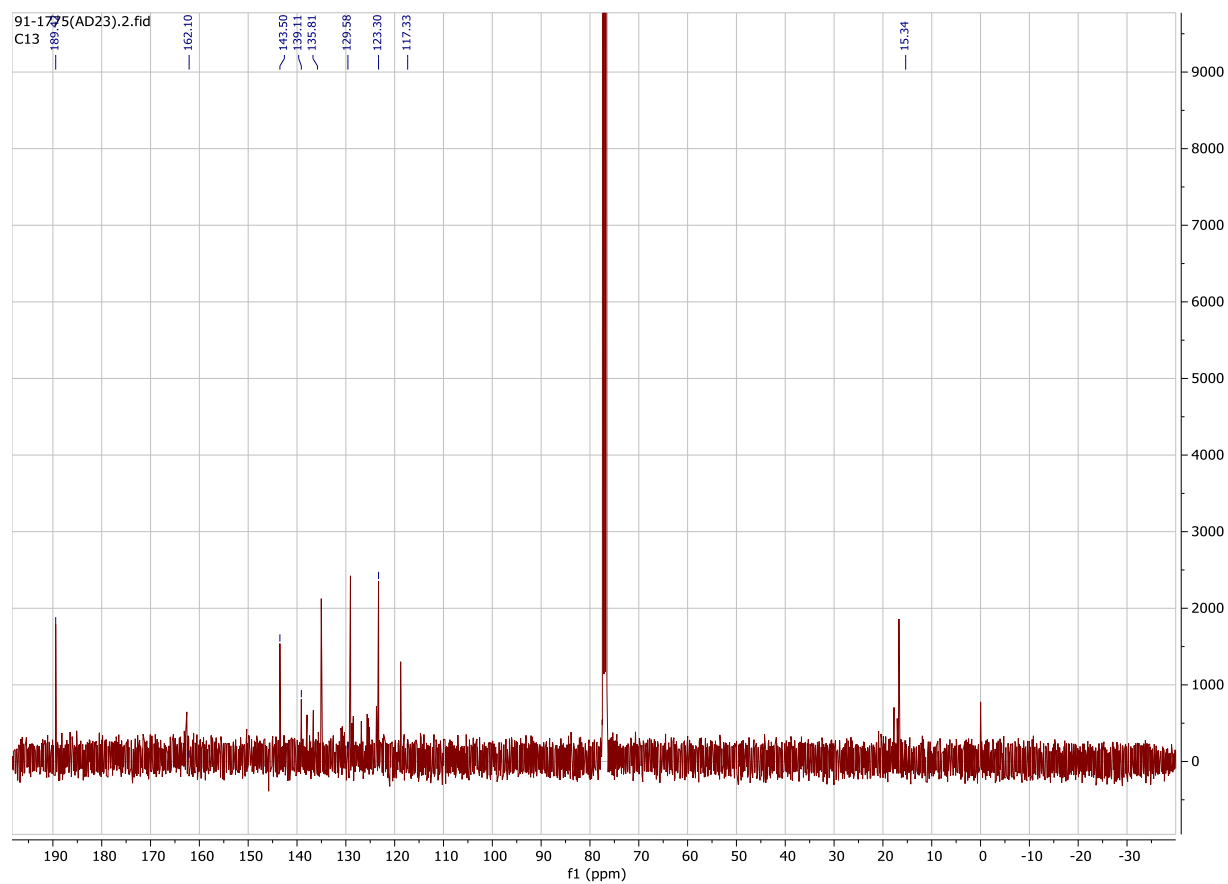
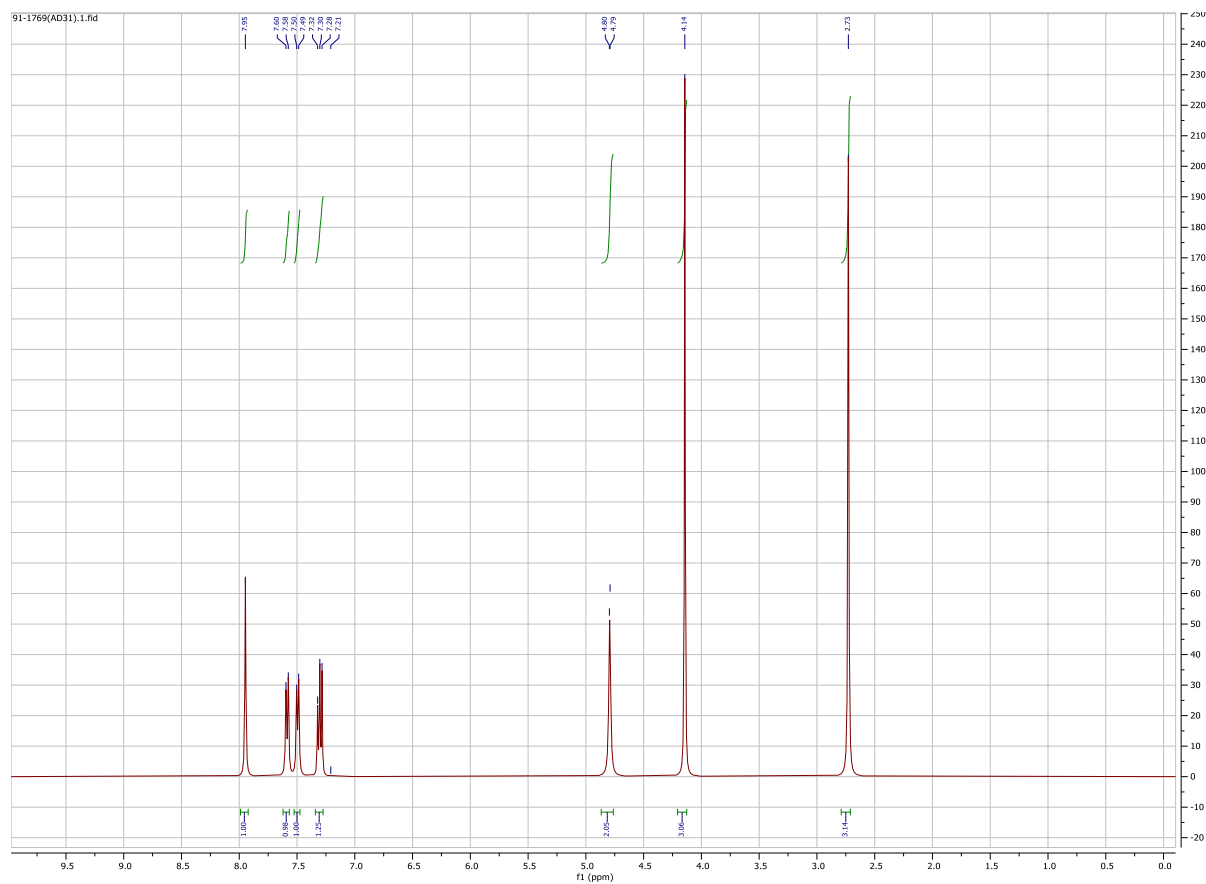


Figure 16: ^1H - NMR spectrum (400 MHz; CDCl_3) of (2-methoxy-8-methylquinolin-3-yl)methanol (**16**)



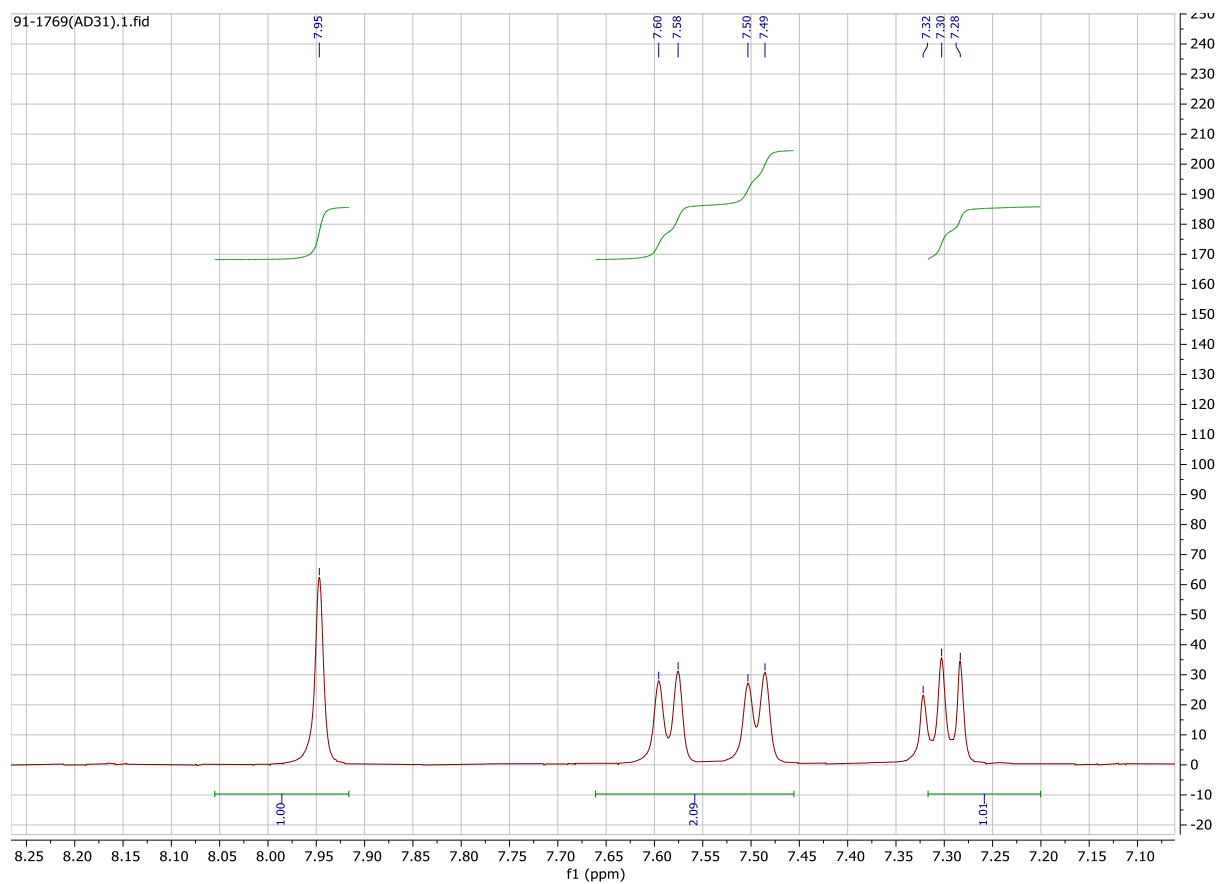


Figure 17: ^{13}C -NMR spectrum (100 MHz; CDCl_3) of (2-methoxy-8-methylquinolin-3-yl)methanol (**16**)

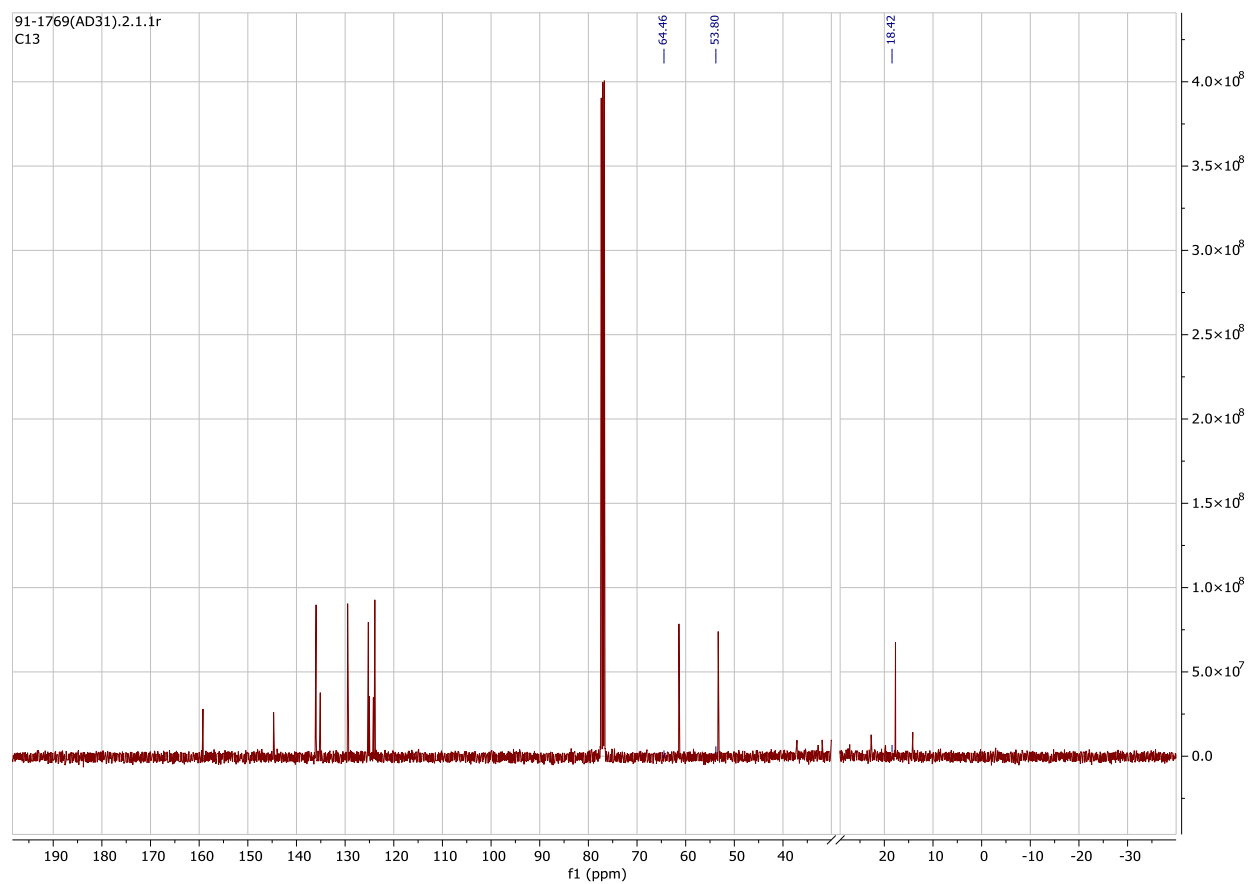
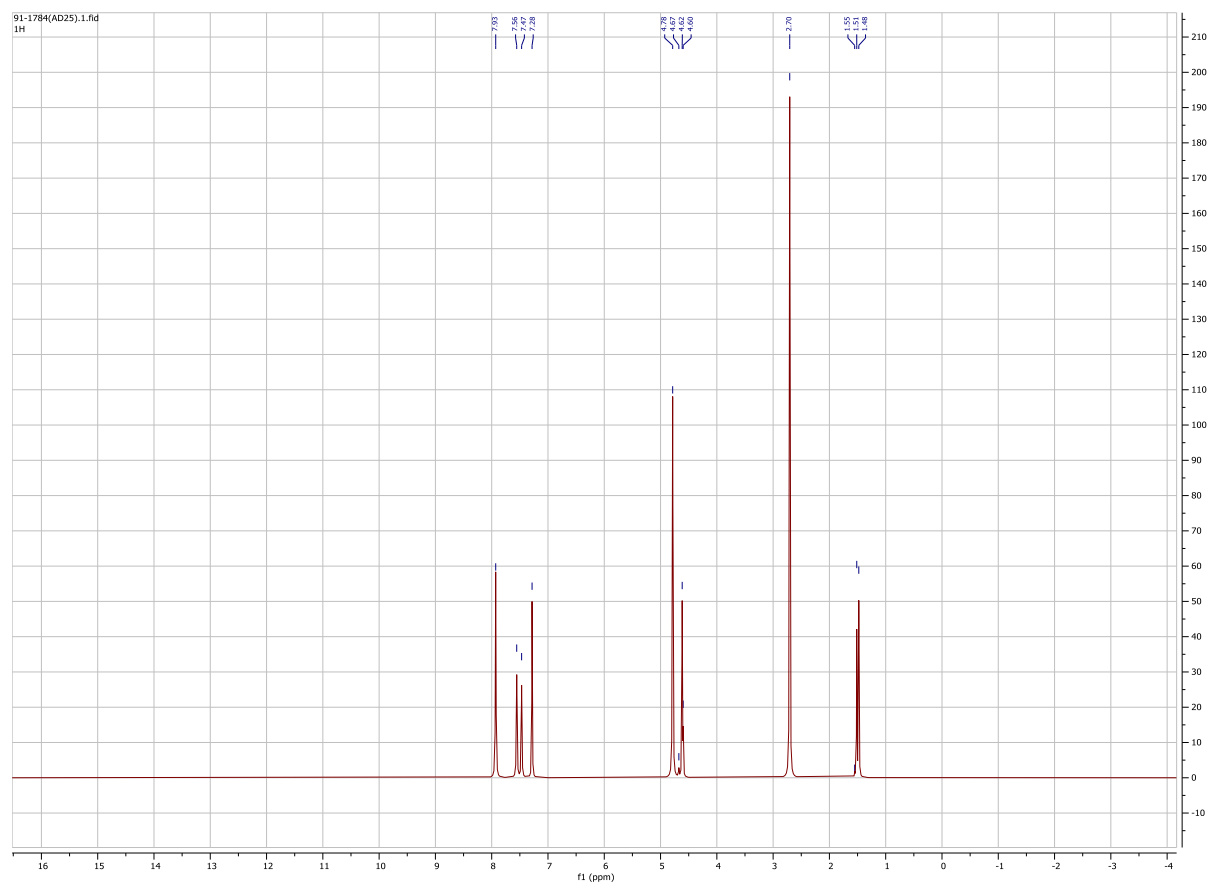
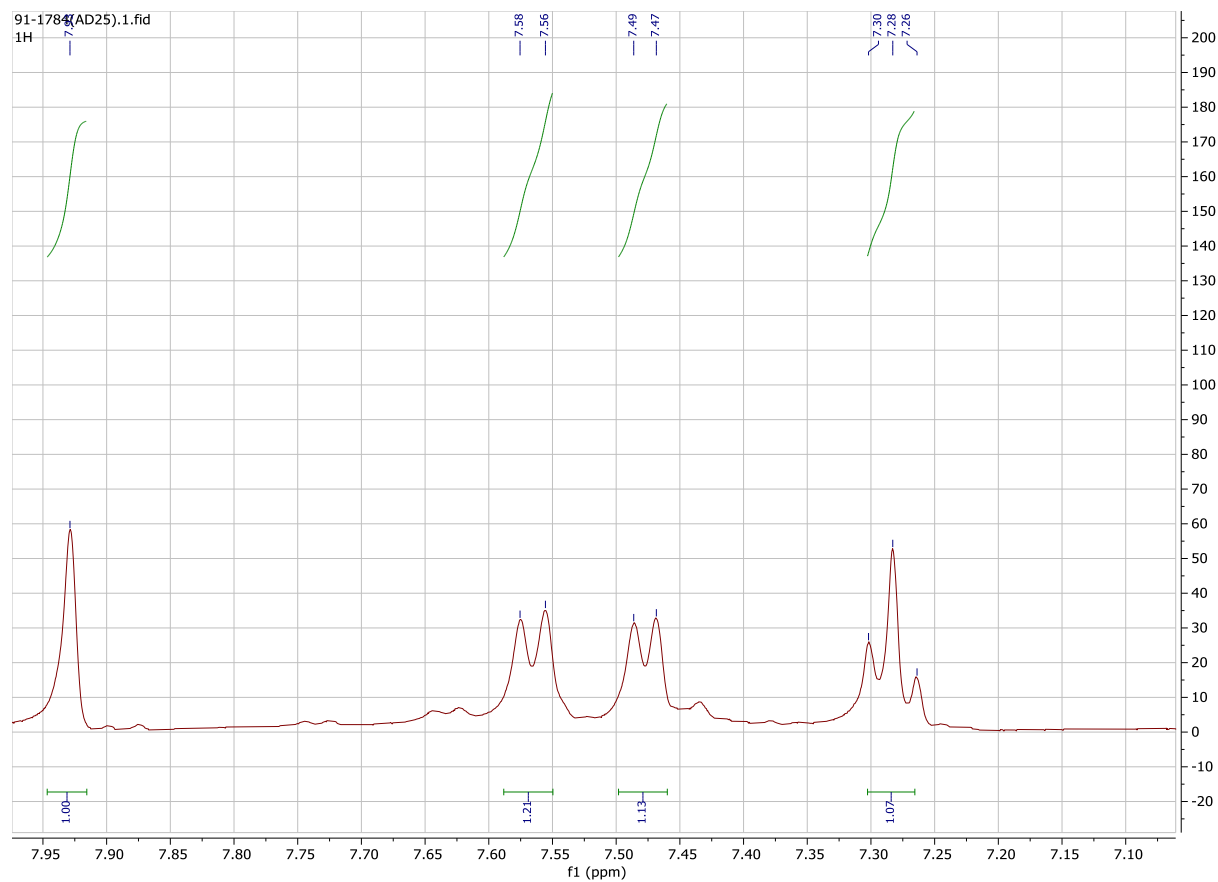


Figure 18: ^1H -NMR (400 MHz; CDCl_3) spectrum of (2-ethoxy-8-methylquinolin-3-yl)methanol (17)





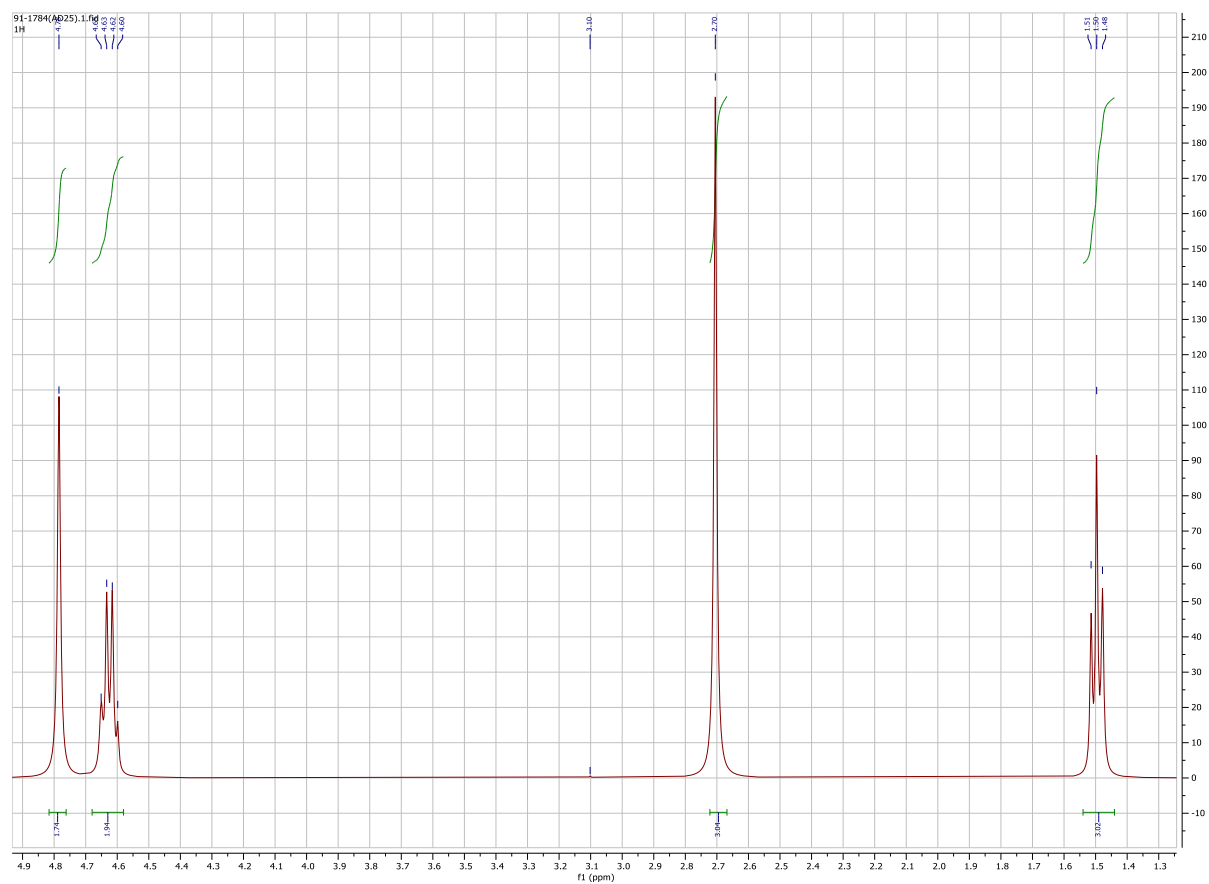


Figure 19: ^{13}C -NMR (100 MHz; CDCl_3) spectrum of (2-ethoxy-8-methylquinolin-3-yl)methanol (17)

