

Copies of ^1H and ^{13}C NMR

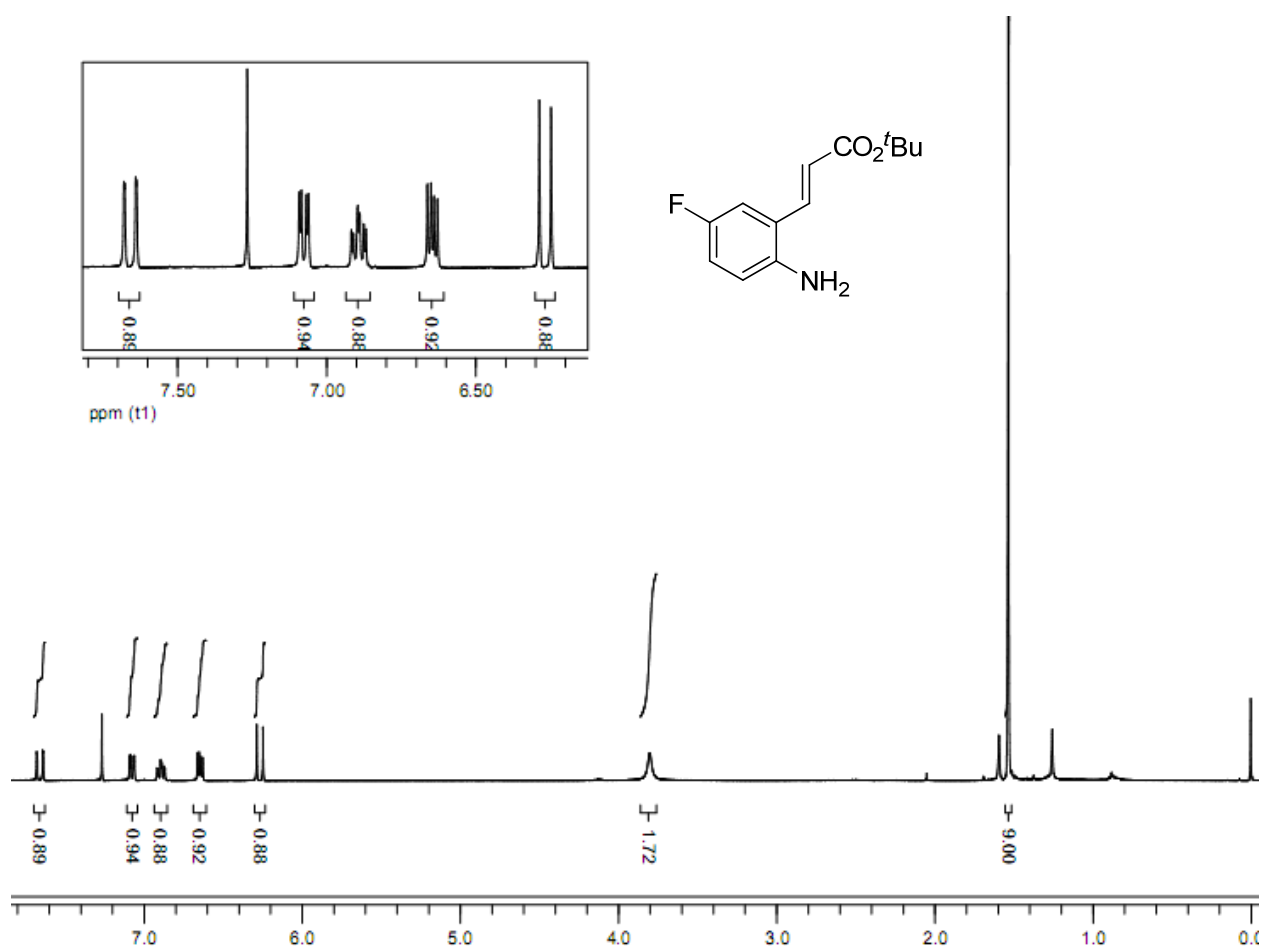


Fig. 1: ^1H NMR spectra of compound **S-2c** (CDCl_3 , 400 MHz)

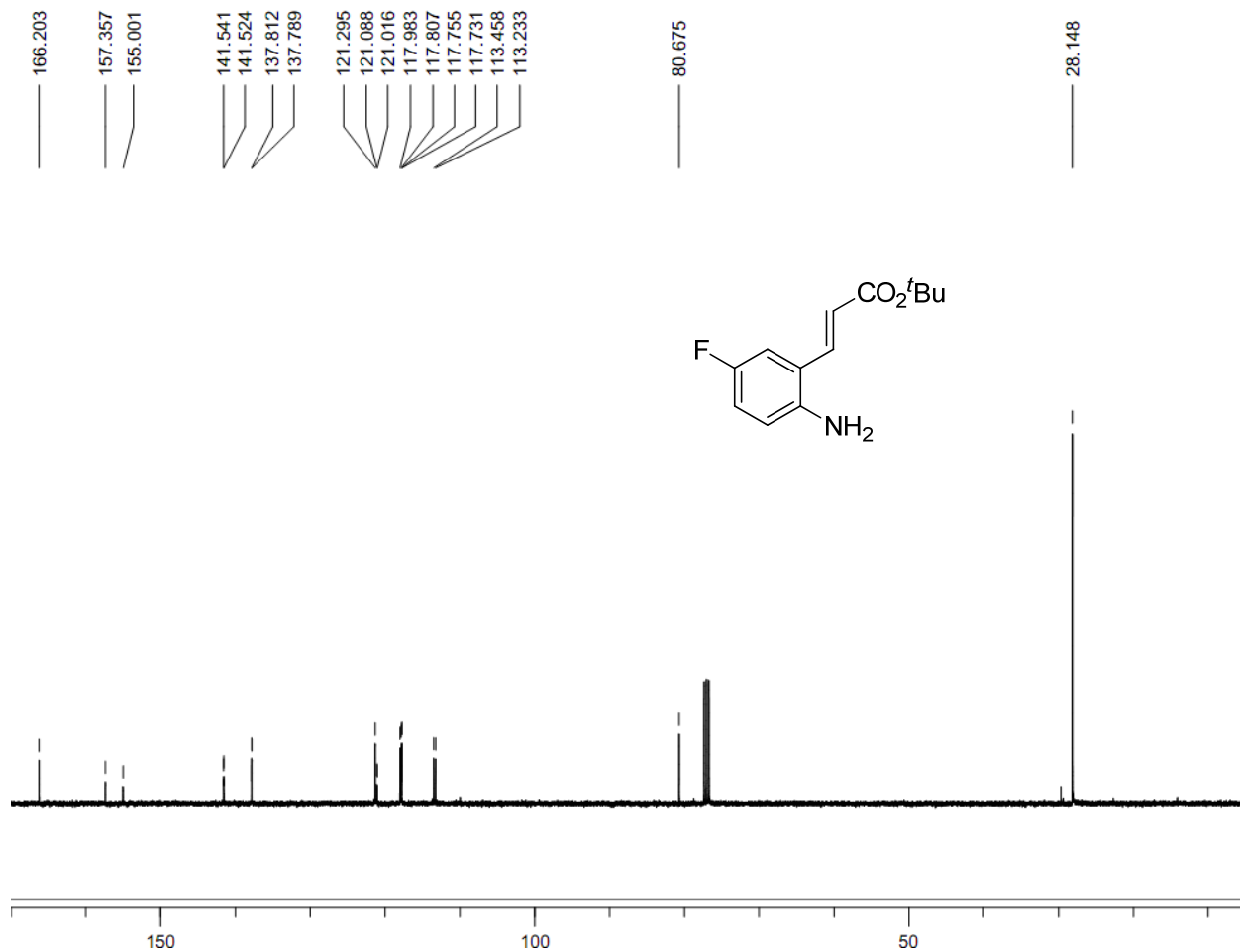


Fig. 2: ^{13}C NMR spectra of compound **S-2c** (CDCl_3 , 100 MHz)

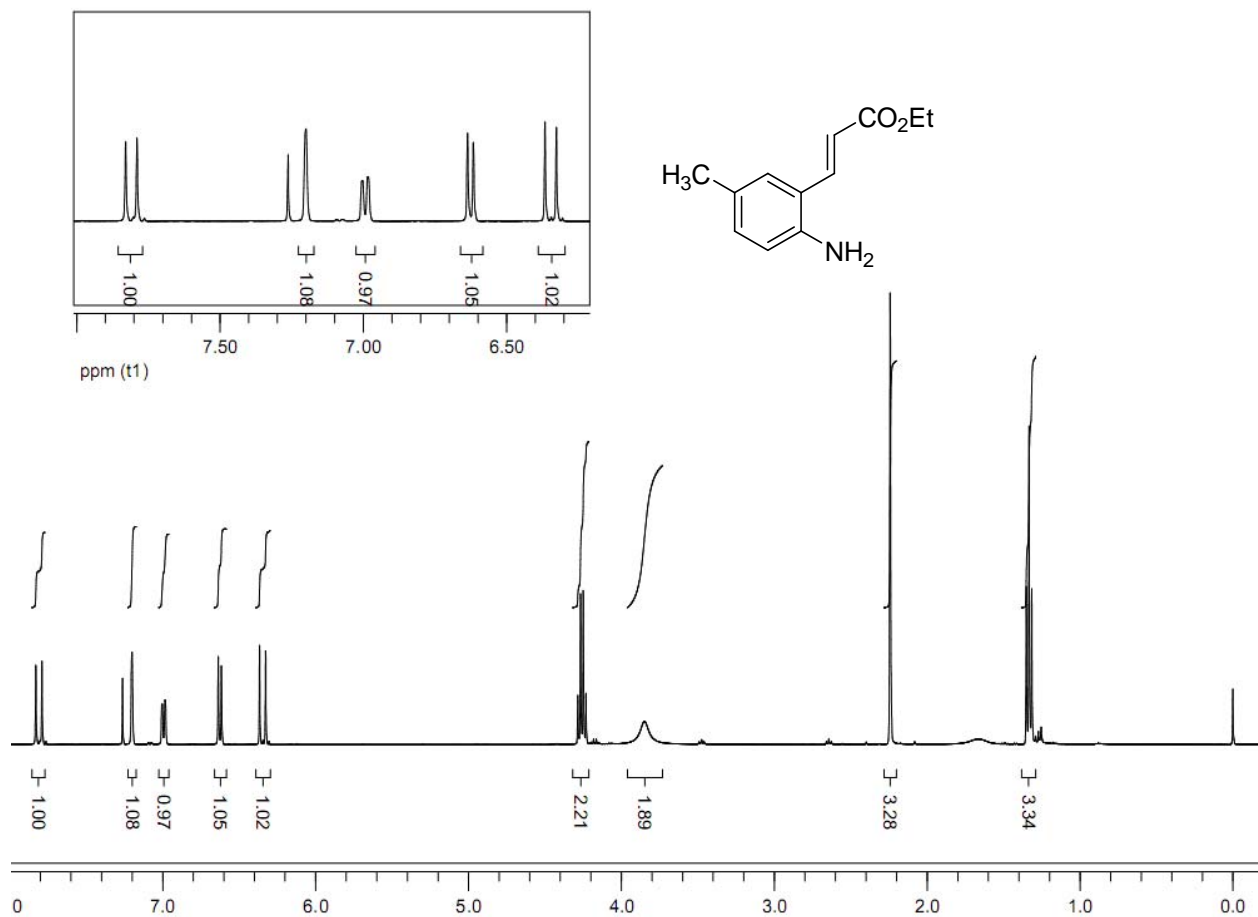


Fig. 3: ¹H NMR spectra of compound **S-2f** (CDCl₃, 400 MHz)

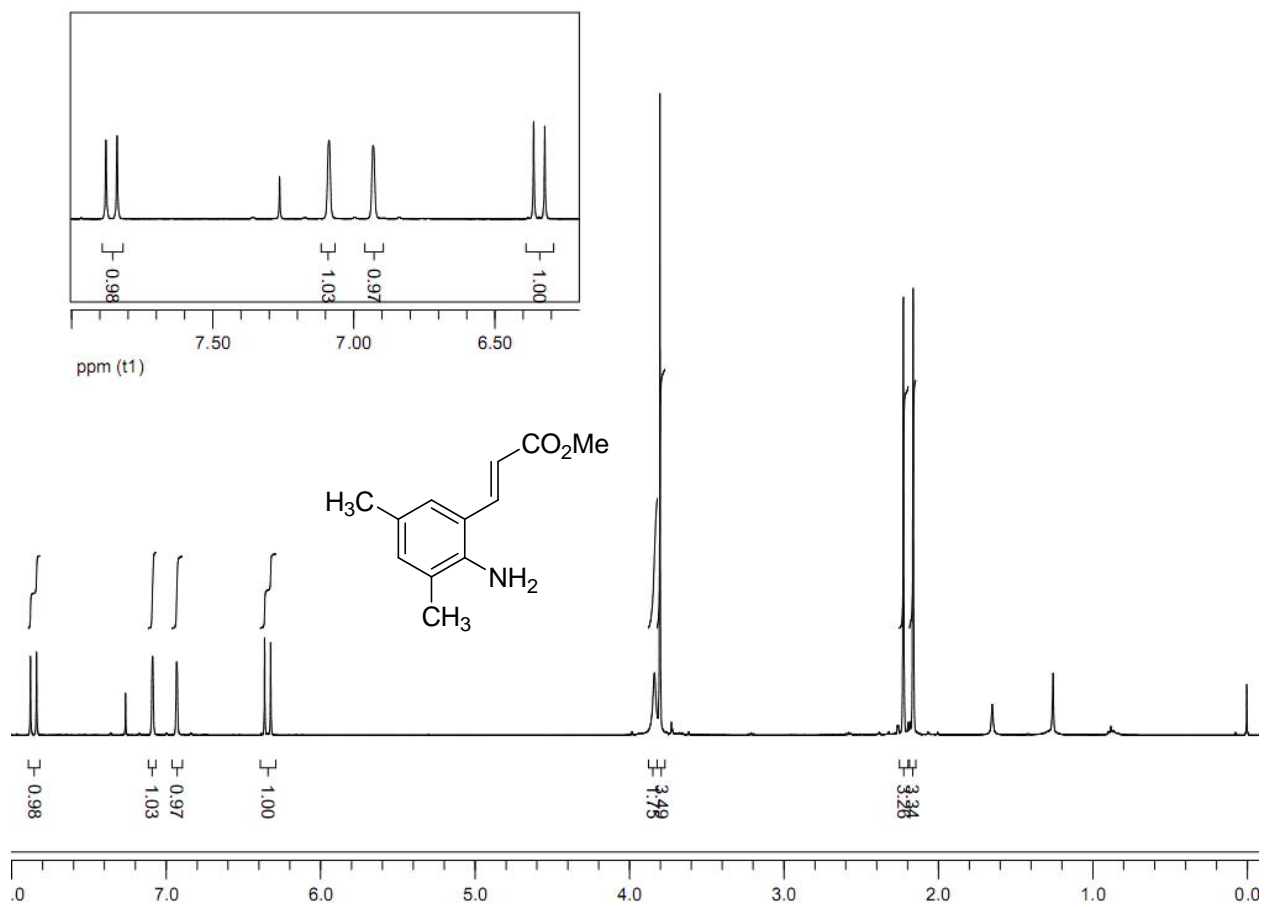


Fig. 4: ^1H NMR spectra of compound **S-2g** (CDCl_3 , 400 MHz)

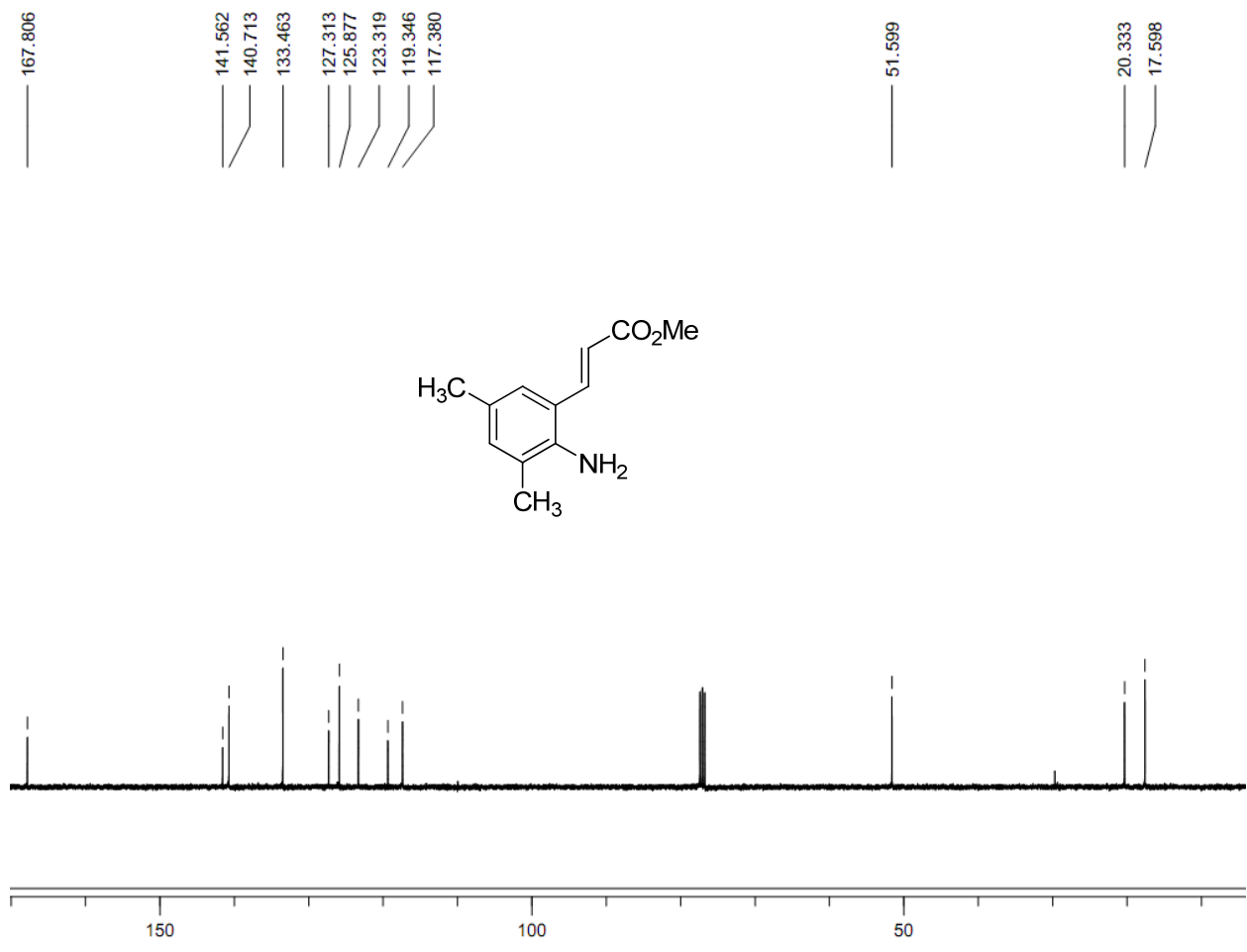


Fig. 5: ¹³C NMR spectra of compound **S-2g** (CDCl₃, 100 MHz)

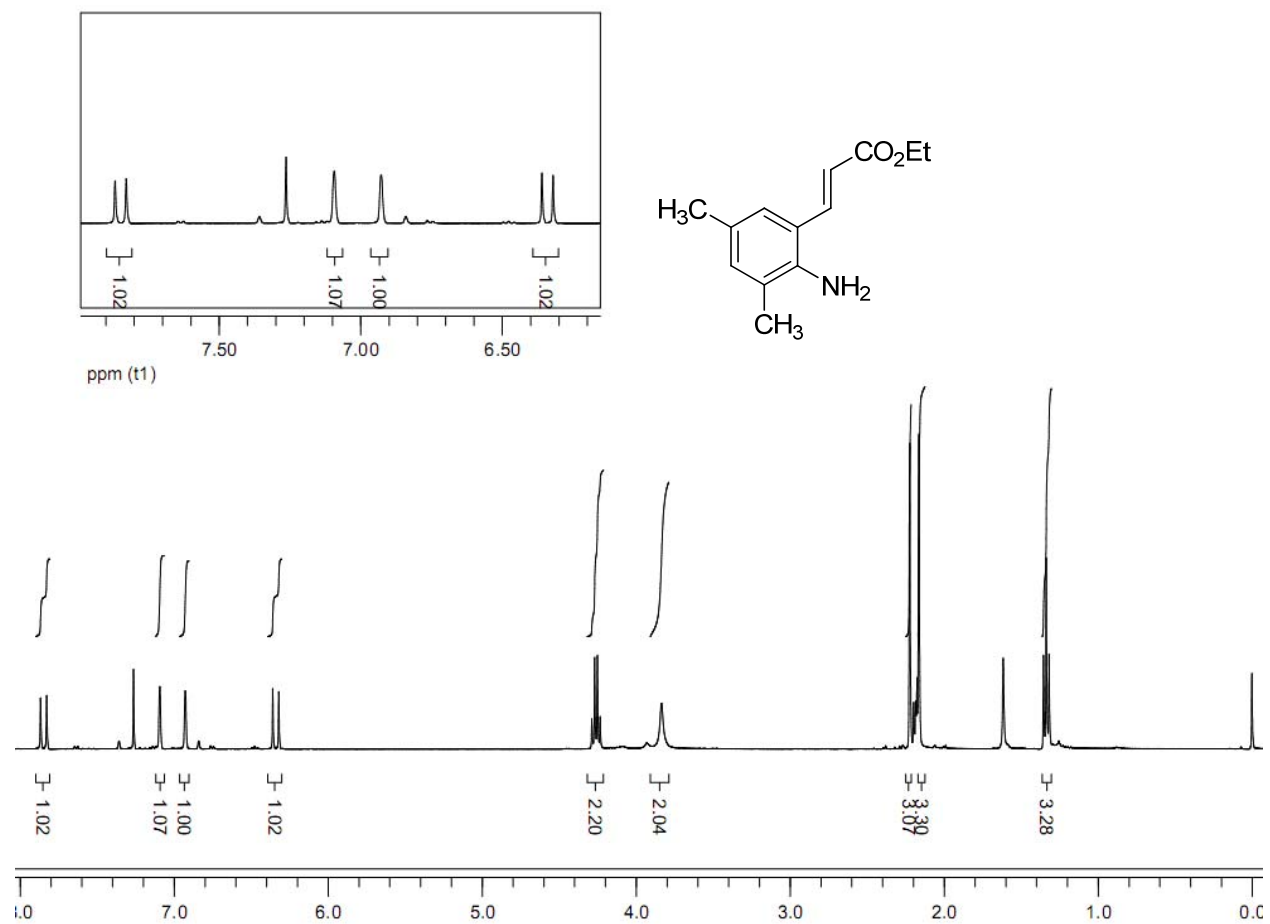


Fig. 6: ^1H NMR spectra of compound **S-2h** (CDCl_3 , 400 MHz)

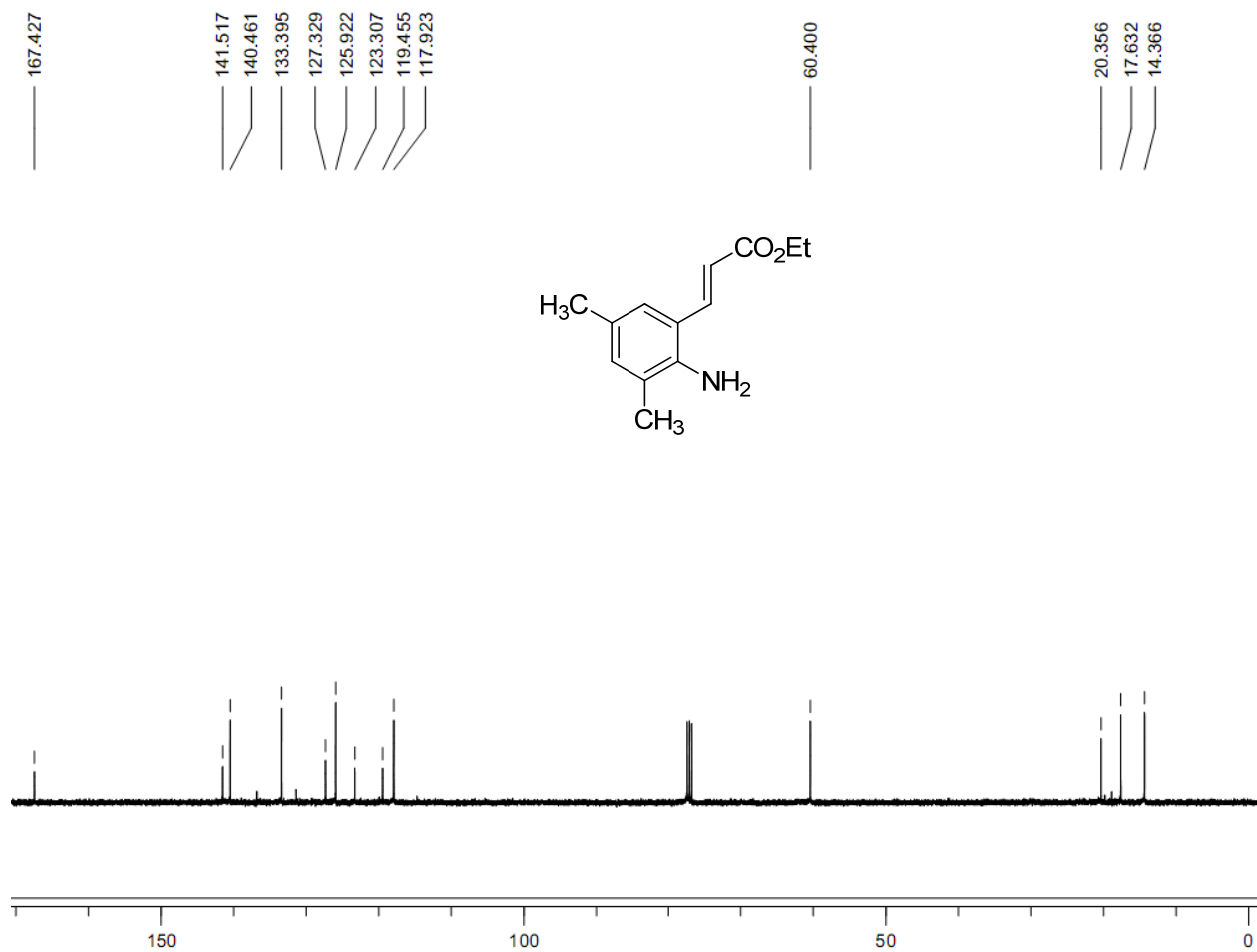


Fig. 7: ^{13}C NMR spectra of compound **S-2h** (CDCl_3 , 100 MHz)

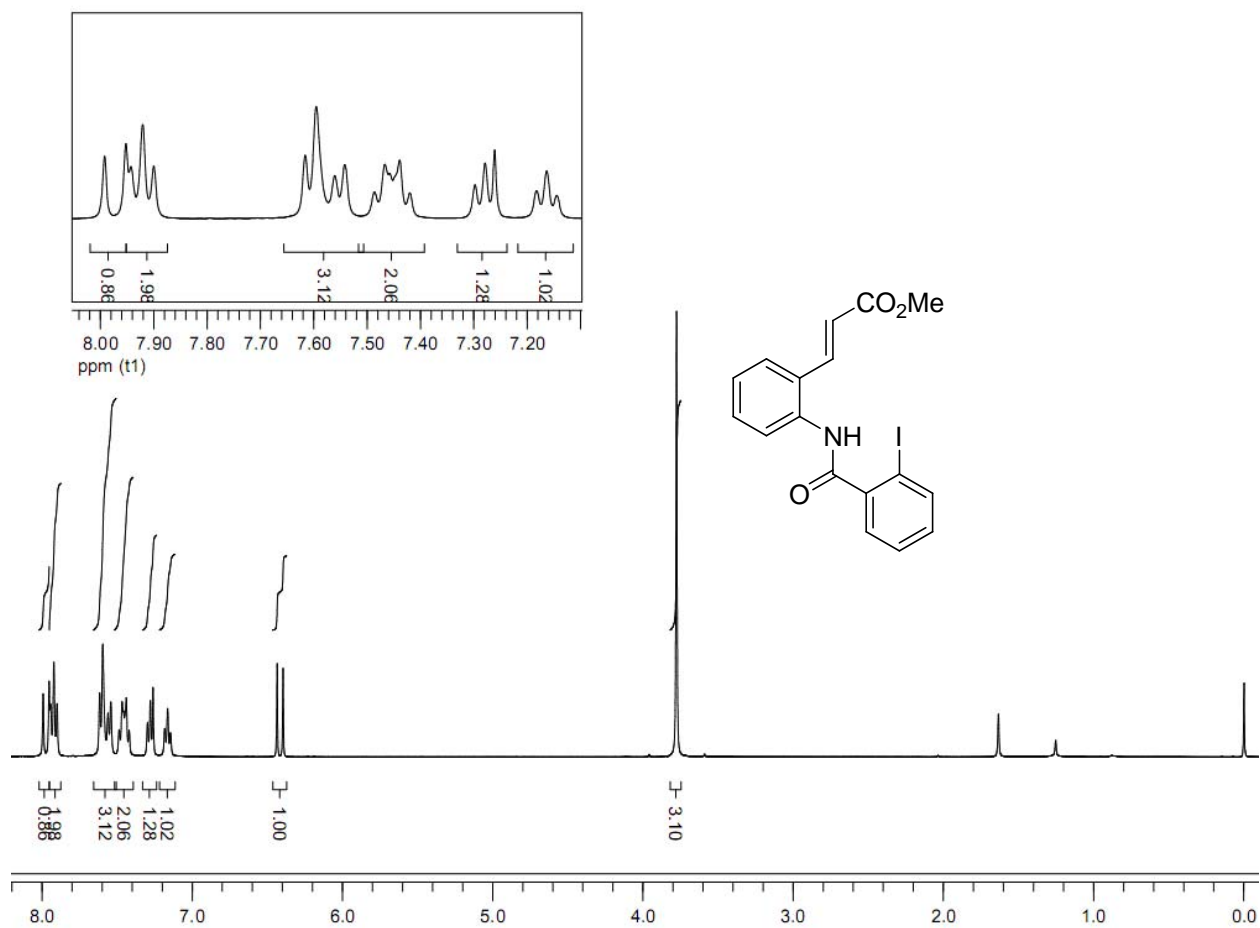


Fig. 8: ^1H NMR spectra of compound **1a** (CDCl_3 , 400 MHz)

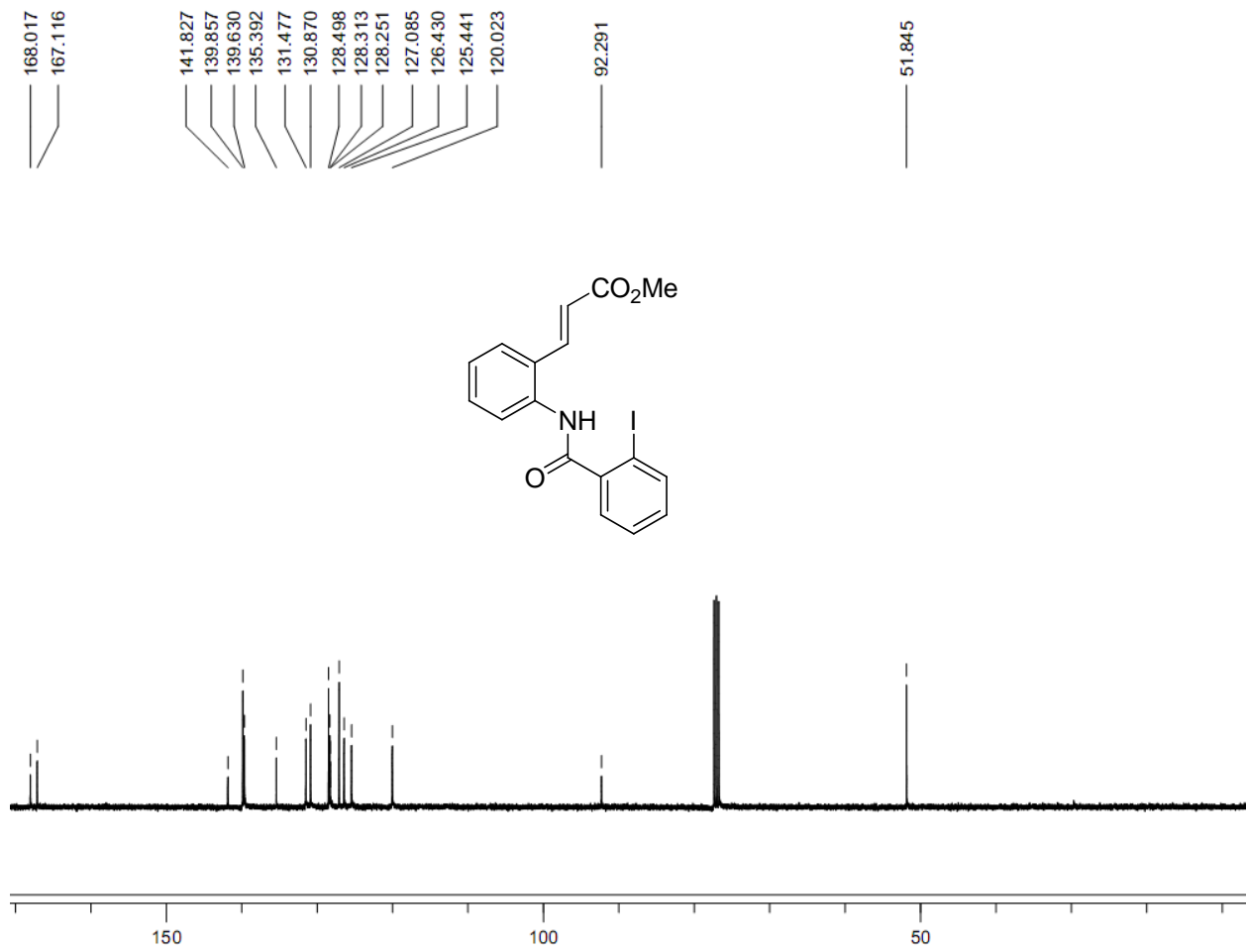


Fig. 9: ^{13}C NMR spectra of **1a** (CDCl_3 , 100 MHz)

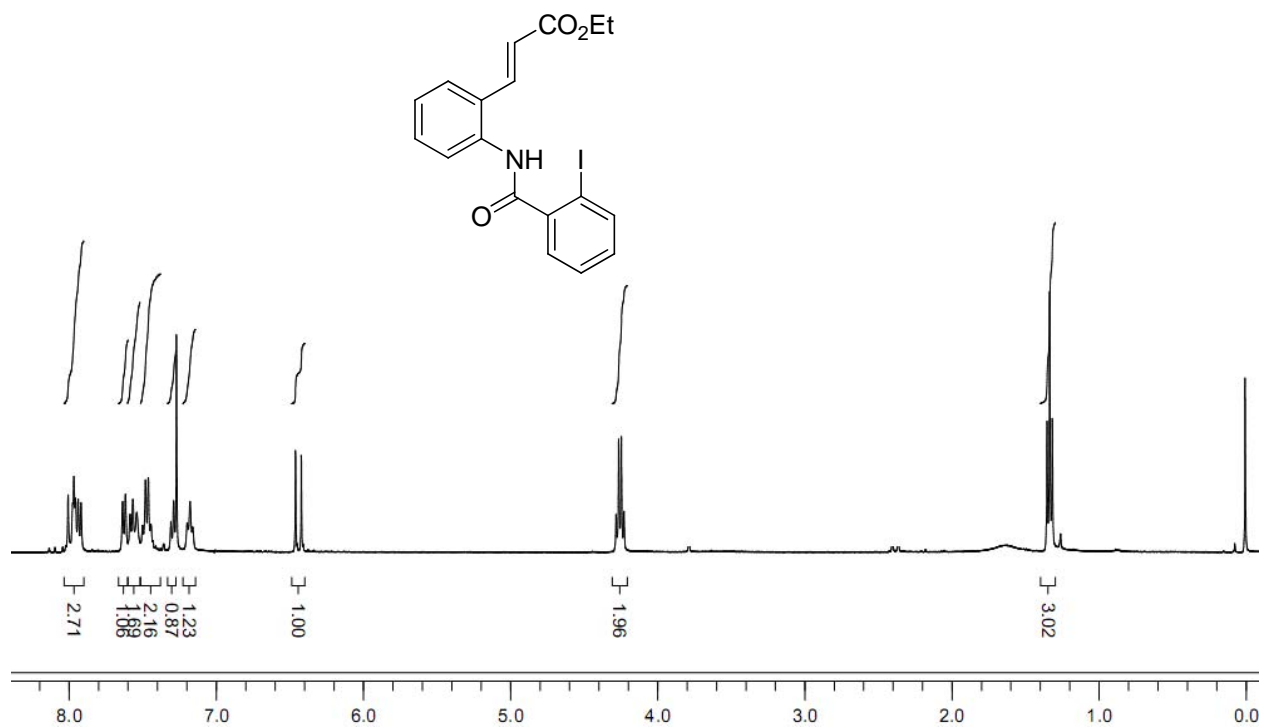


Fig. 10: ^1H NMR spectra of compound **1b** (CDCl_3 , 400 MHz)

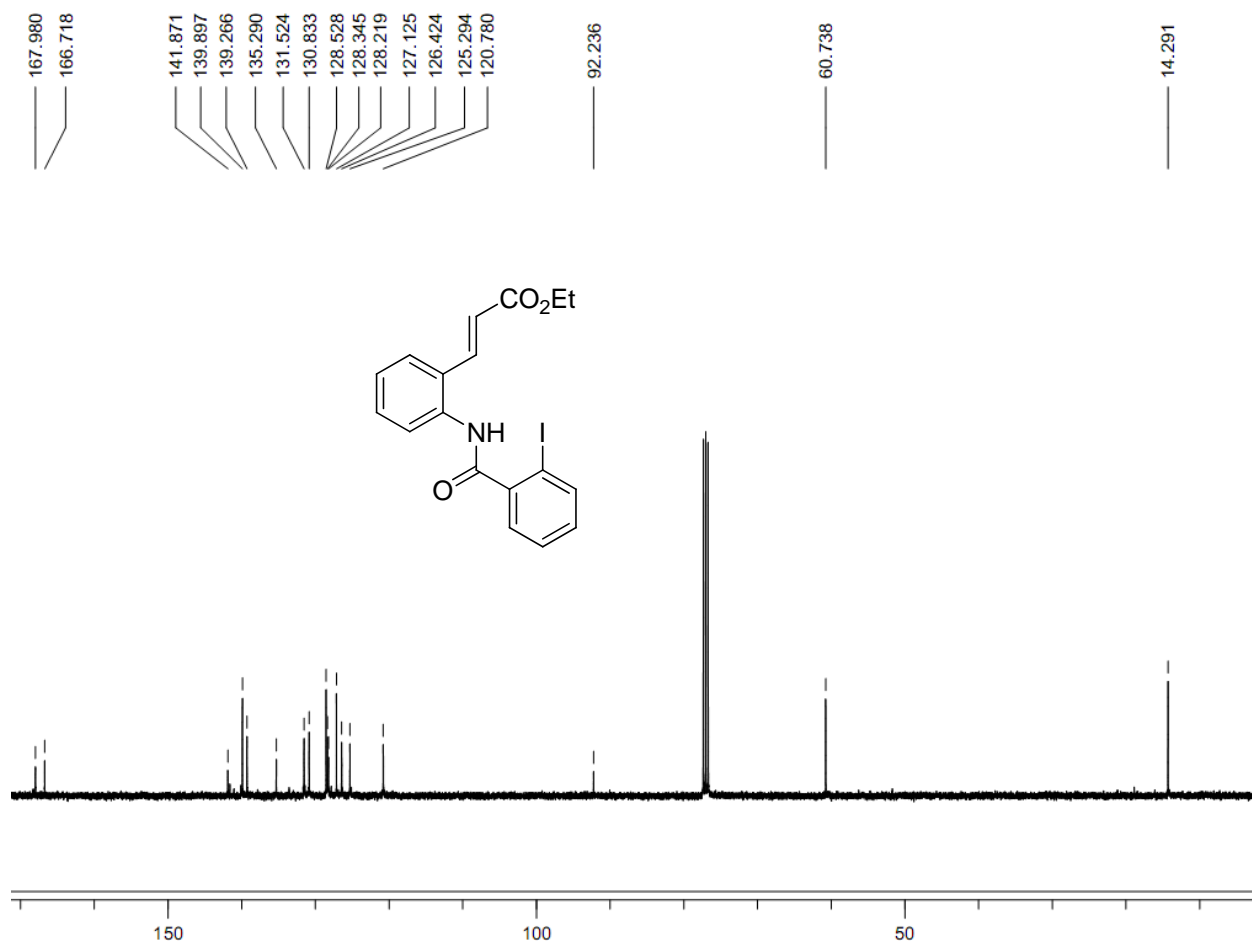


Fig. 11: ^{13}C NMR spectra of compound **1b** (CDCl_3 , 100 MHz)

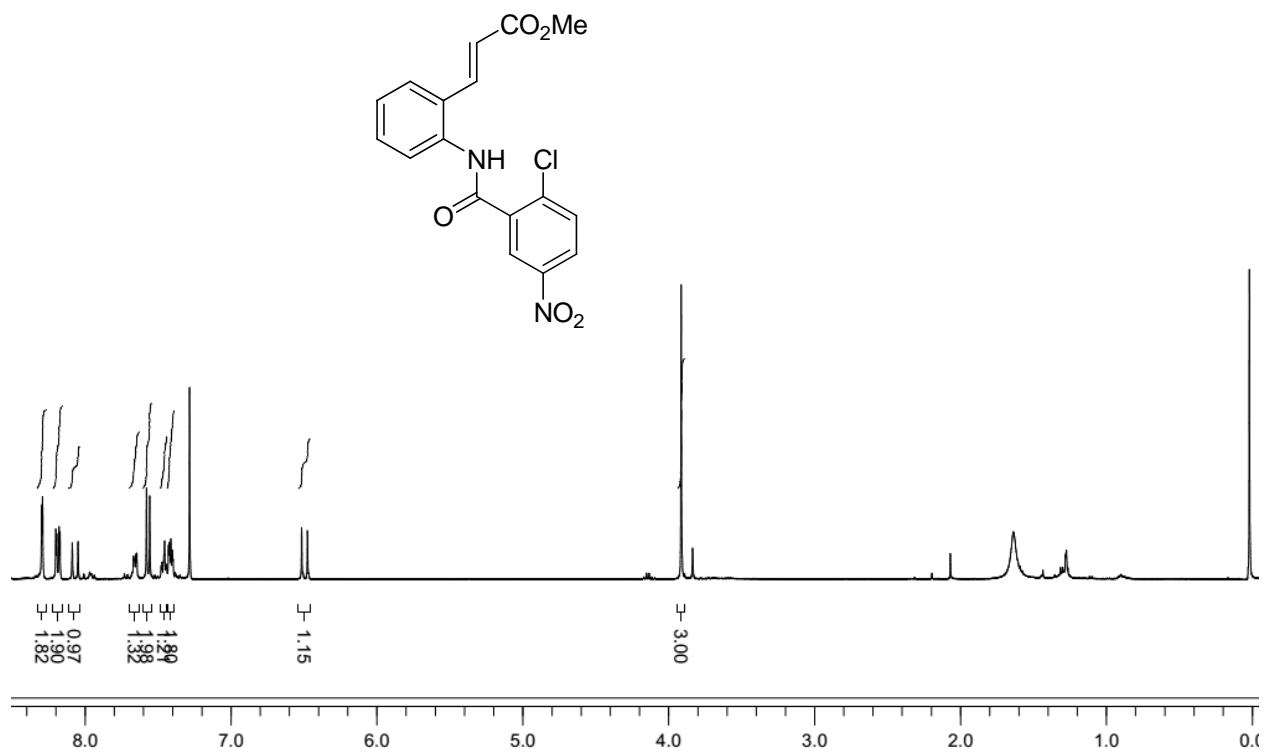


Fig. 12: ¹H NMR spectra of compound **1c** (CDCl₃, 400 MHz)

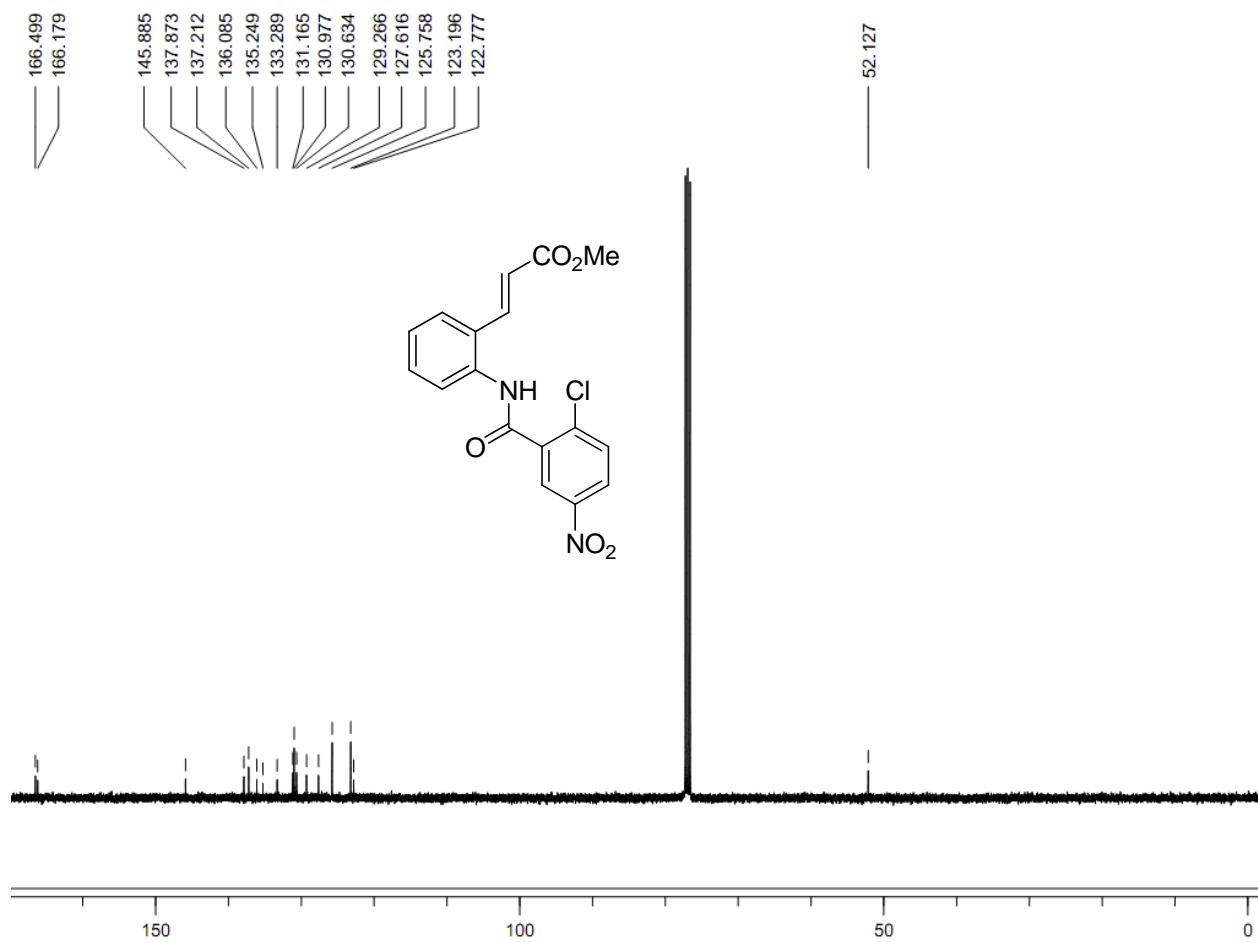


Fig. 13: ^{13}C NMR spectra of compound **1c** (CDCl_3 , 100 MHz)

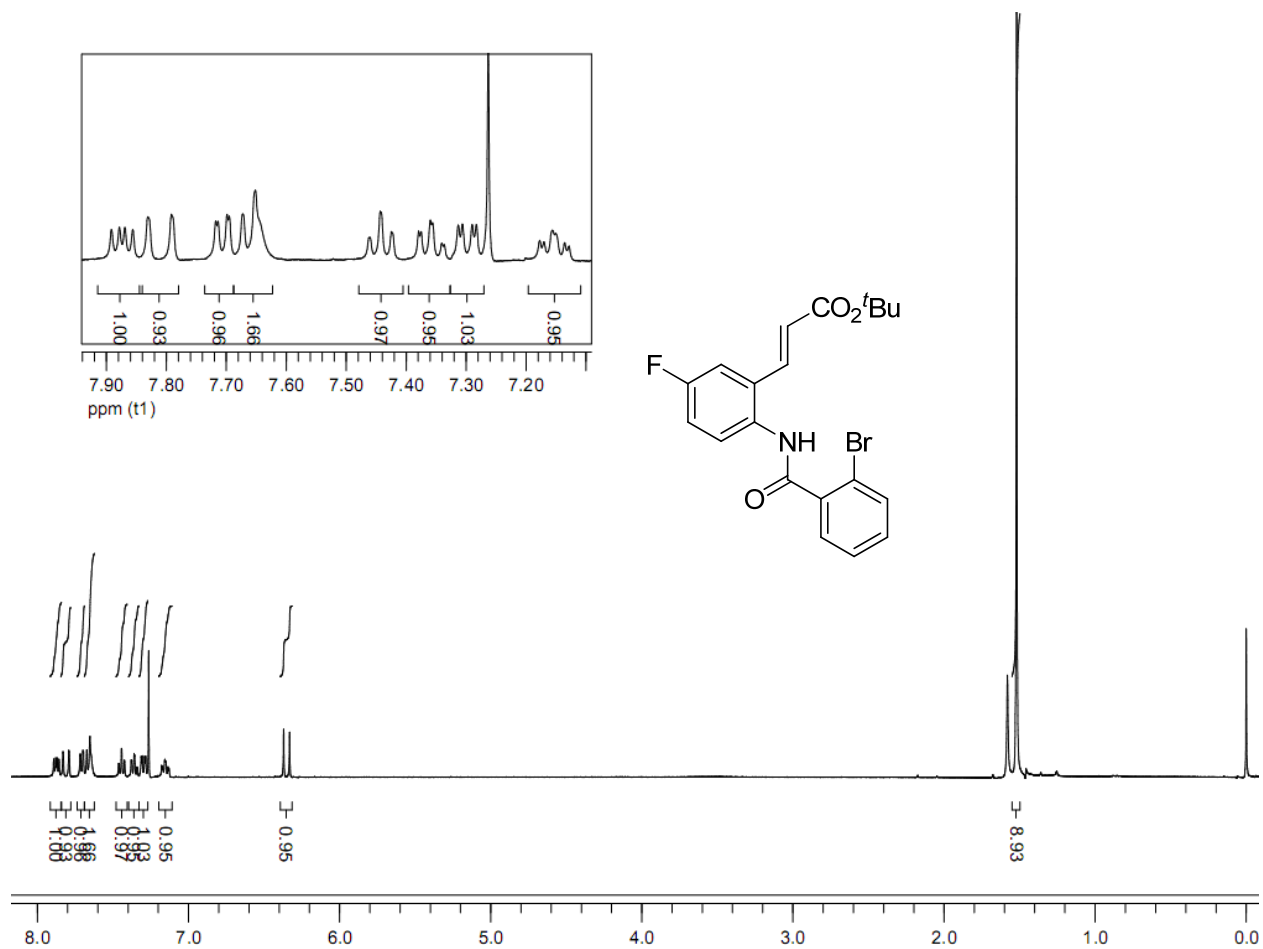


Fig. 14: ¹H NMR spectra of compound **1d** (CDCl₃, 400 MHz)

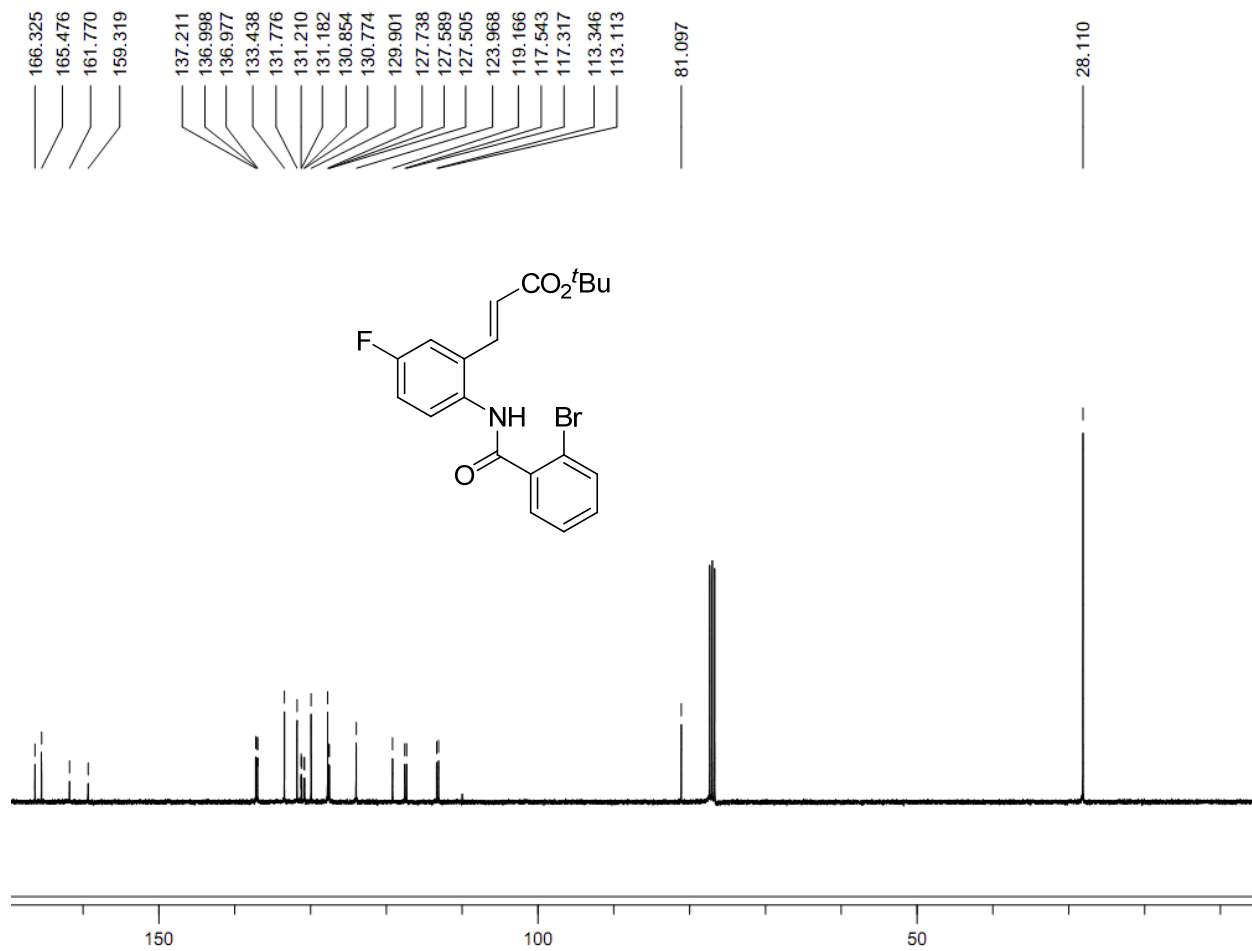


Fig. 15: ¹³C NMR spectra of compound **1d** (CDCl₃, 100 MHz)

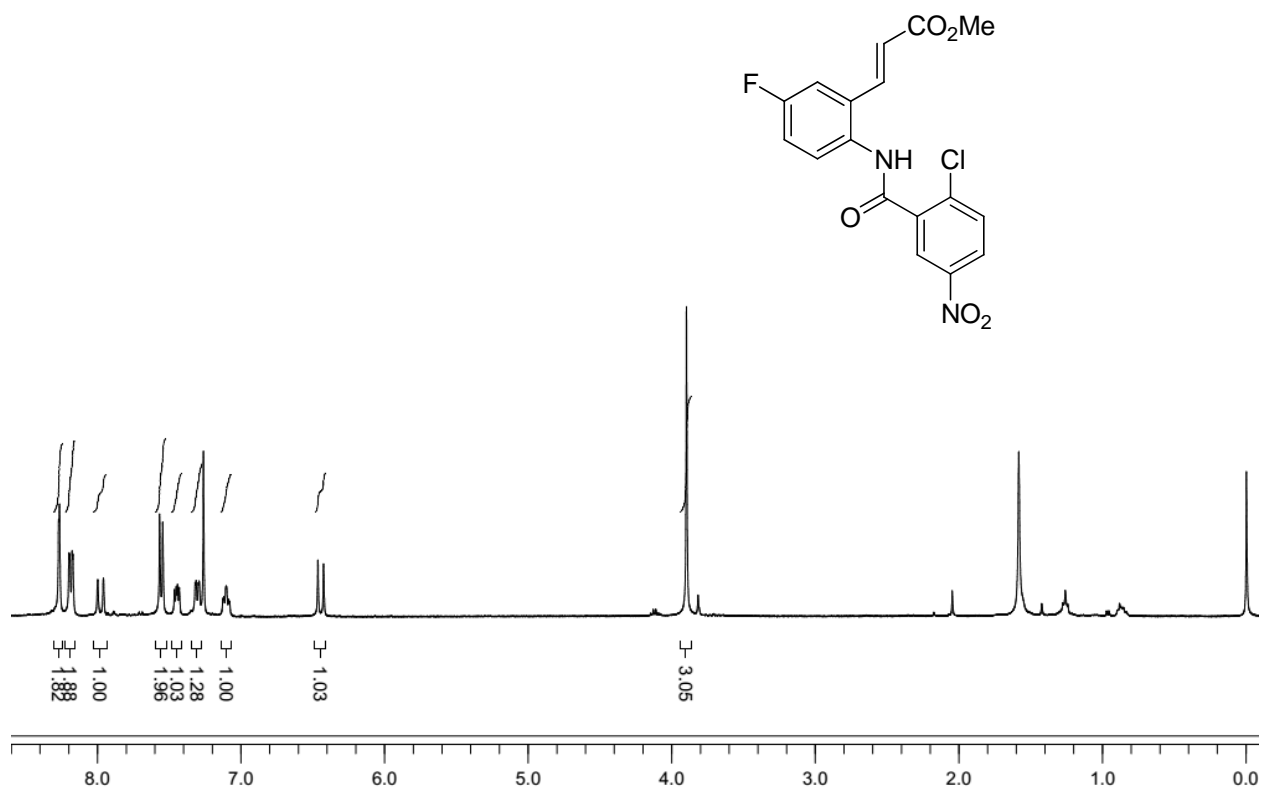


Fig. 16: ¹H NMR spectra of compound **1e** (CDCl₃, 400 MHz)

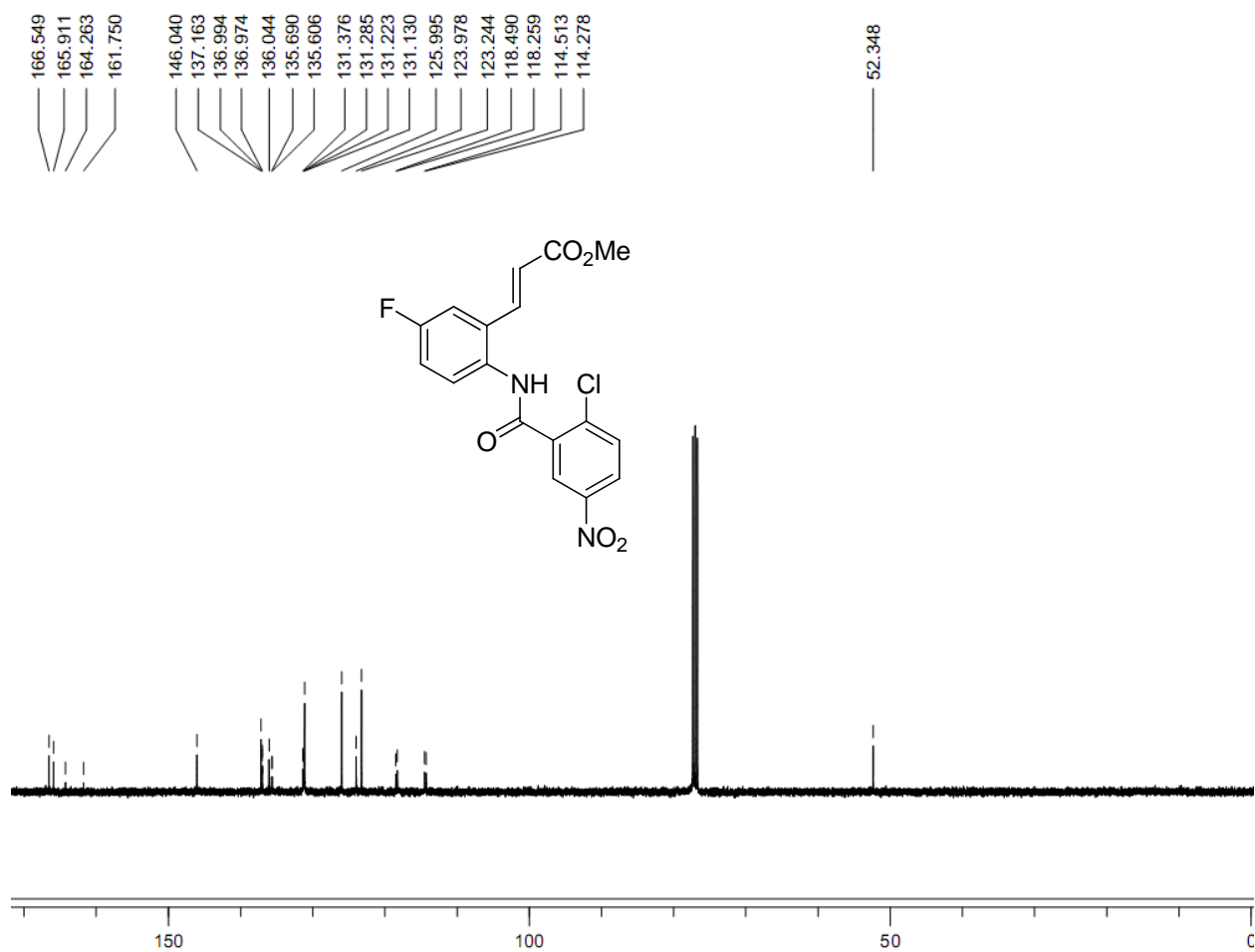


Fig. 17: ¹³C NMR spectra of compound **1e** (CDCl₃, 100 MHz)

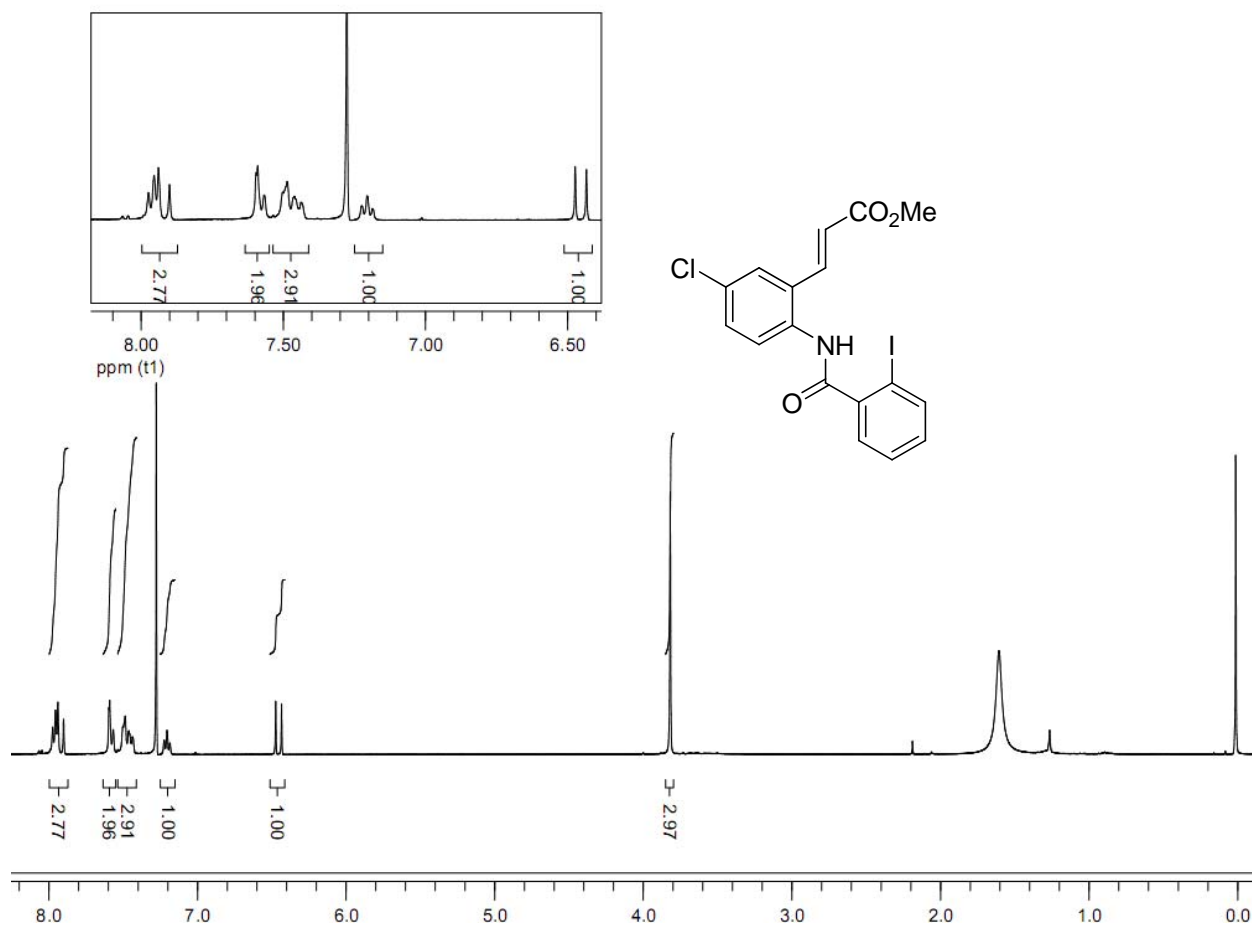


Fig. 18: ^1H NMR spectra of compound **1f** (CDCl_3 , 400 MHz)

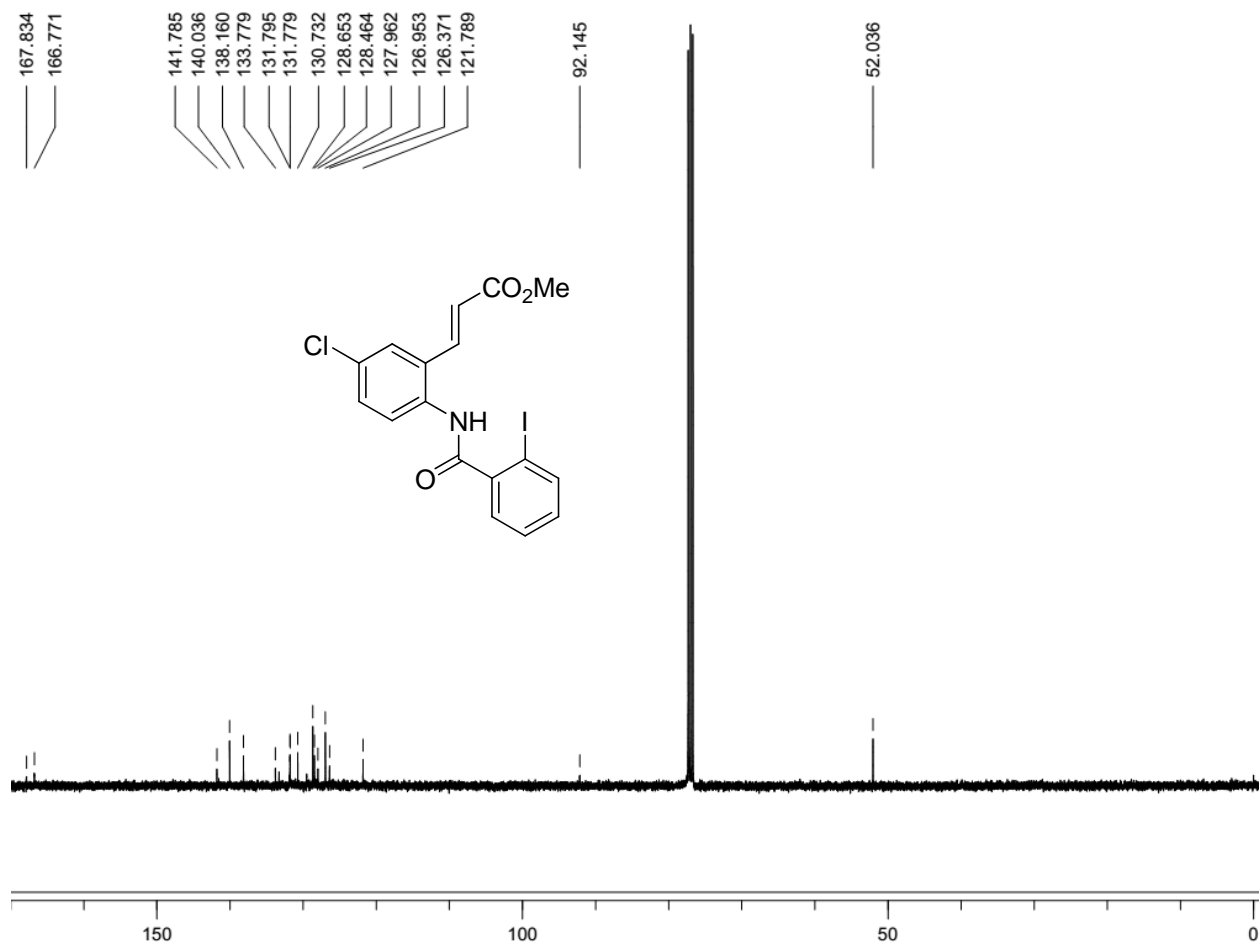


Fig. 19: ¹³C NMR spectra of compound **1f** (CDCl₃, 100 MHz)

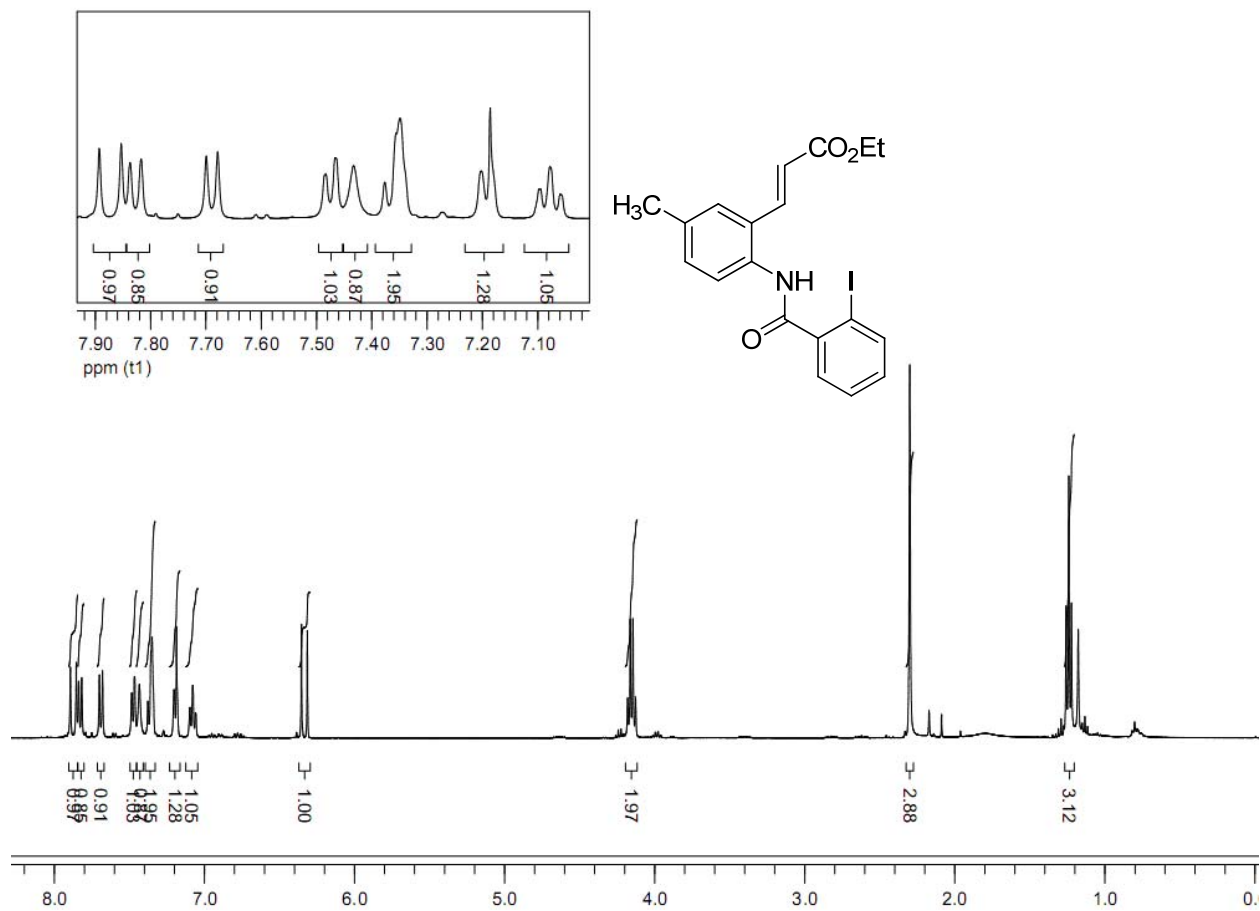


Fig. 20: ^1H NMR spectra of compound **1g** (CDCl_3 , 400 MHz)

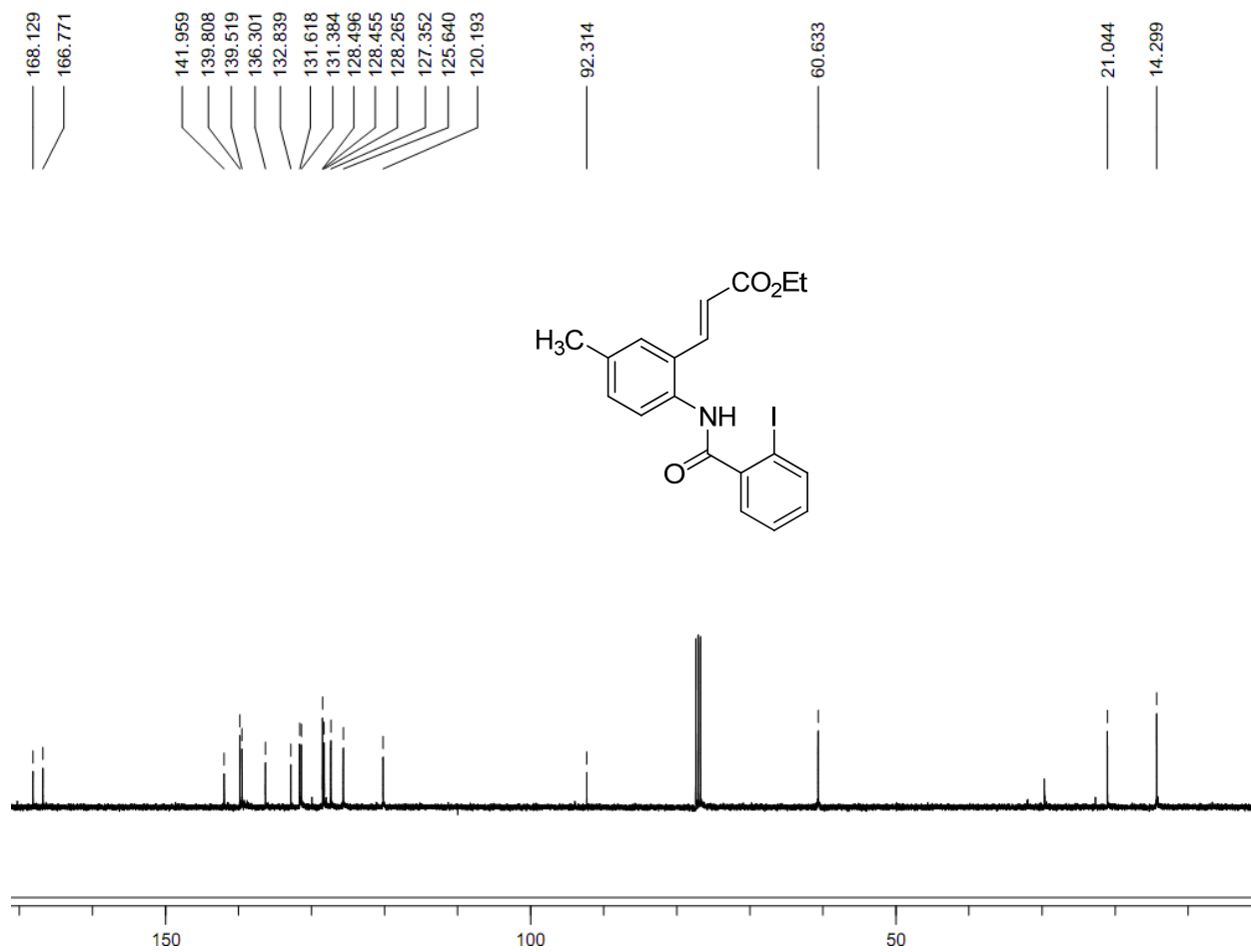


Fig. 21: ^{13}C NMR spectra of compound **1g** (CDCl_3 , 100 MHz)

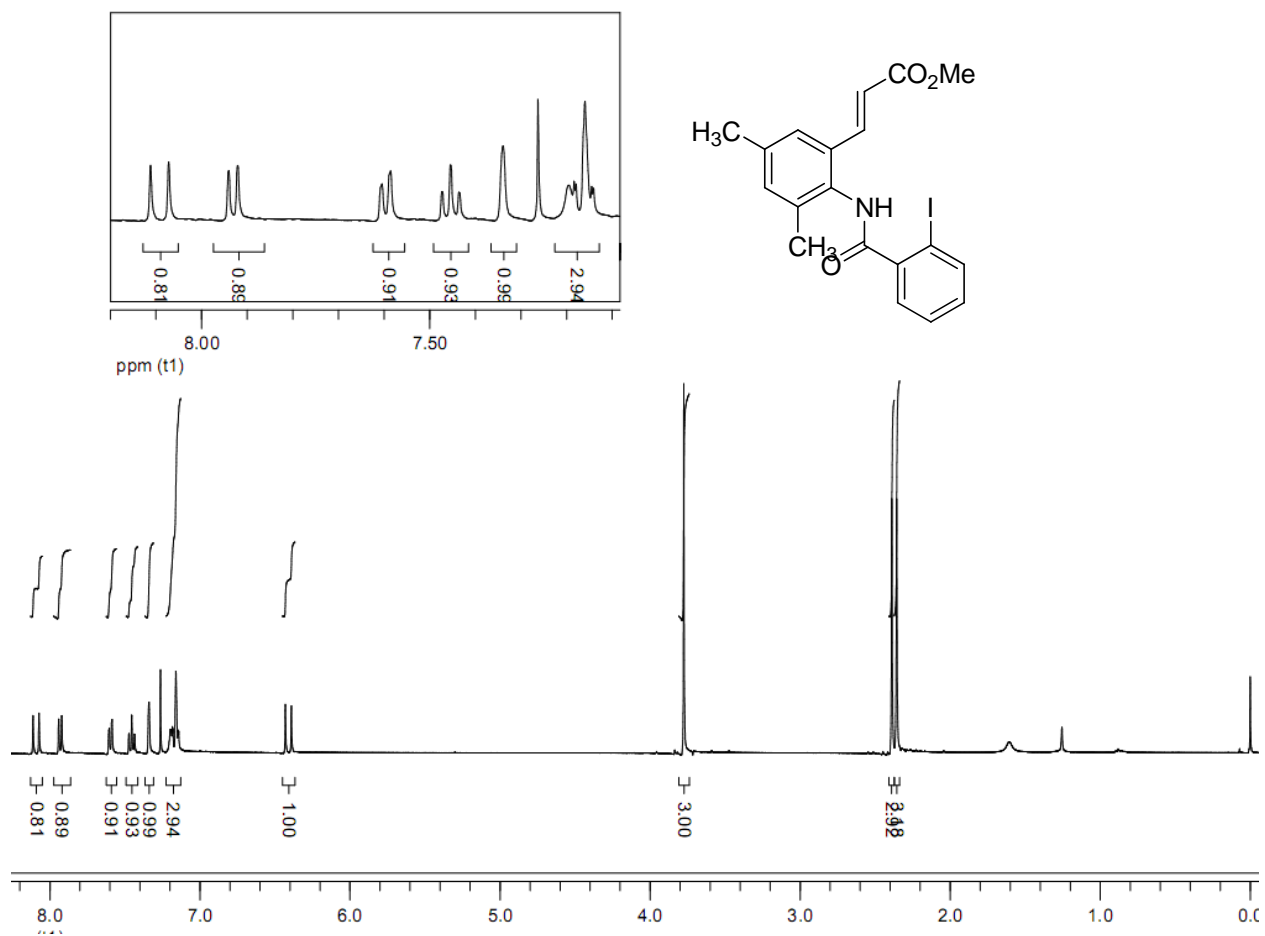


Fig. 22: ¹H NMR spectra of compound **1h** (CDCl₃, 400 MHz)

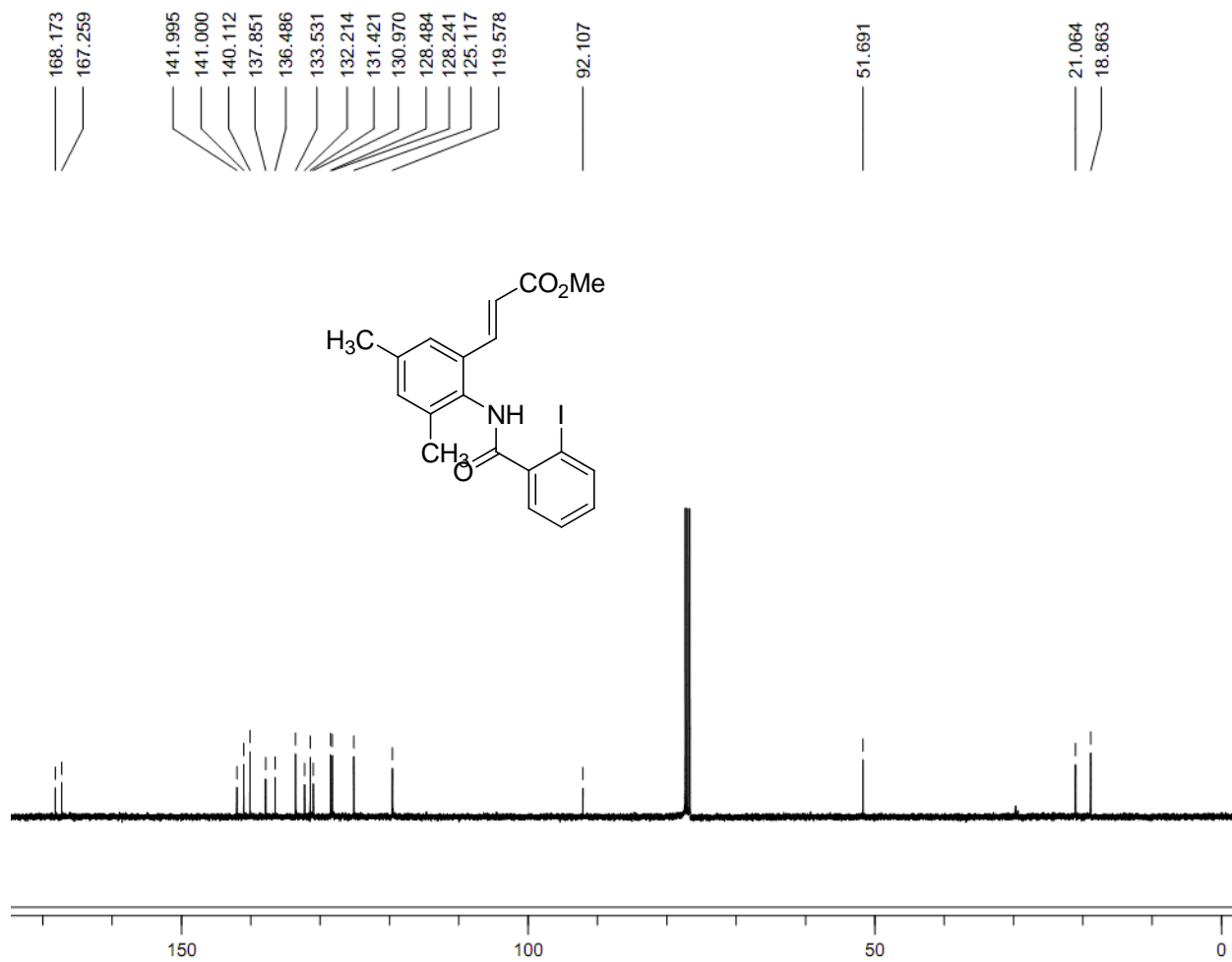


Fig. 23: ¹³C NMR spectra of compound **1h** (CDCl₃, 100 MHz)

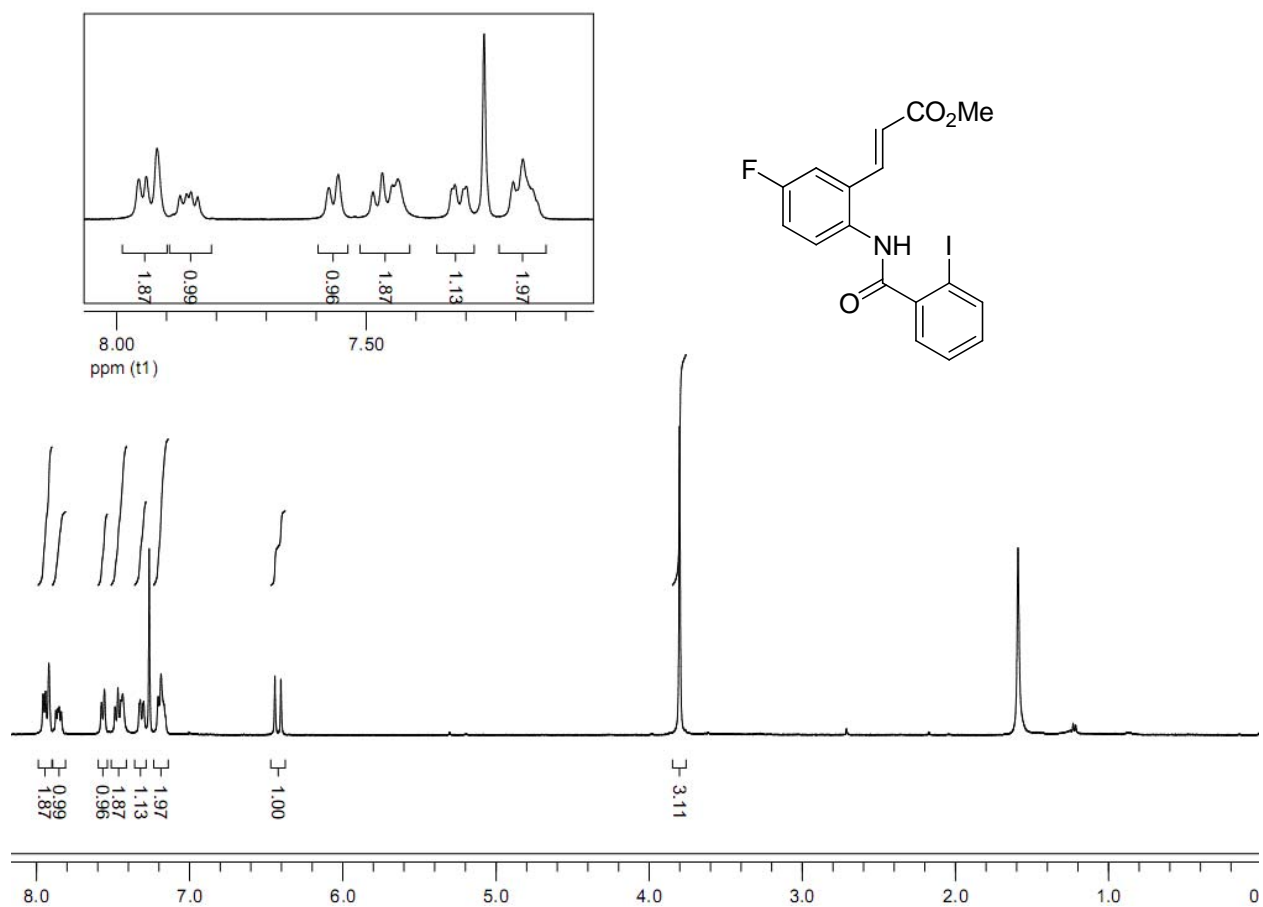


Fig. 24: ¹H NMR spectra of compound **1i** (CDCl₃, 400 MHz)

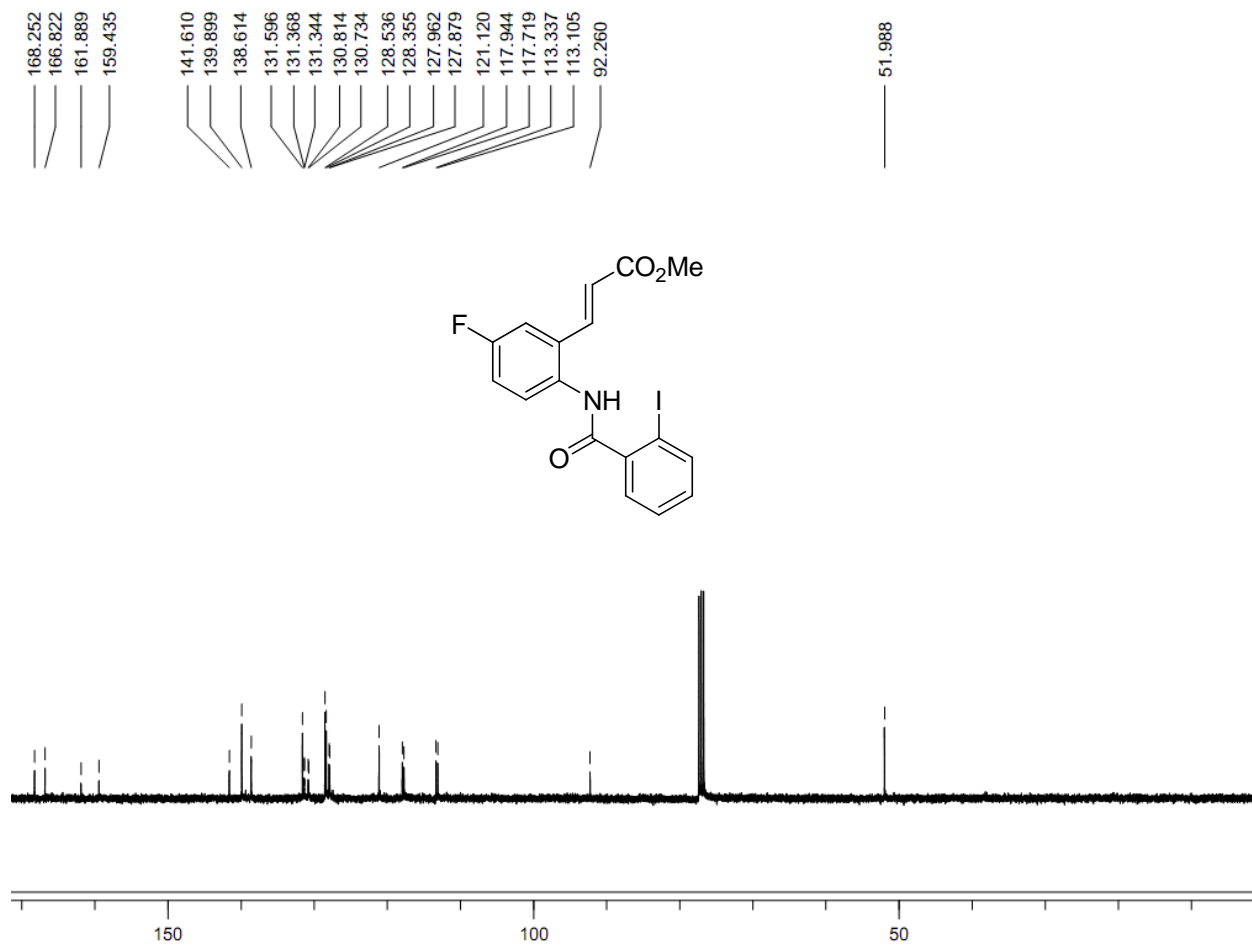


Fig. 25: ^{13}C NMR spectra of **1i** (CDCl_3 , 100 MHz)

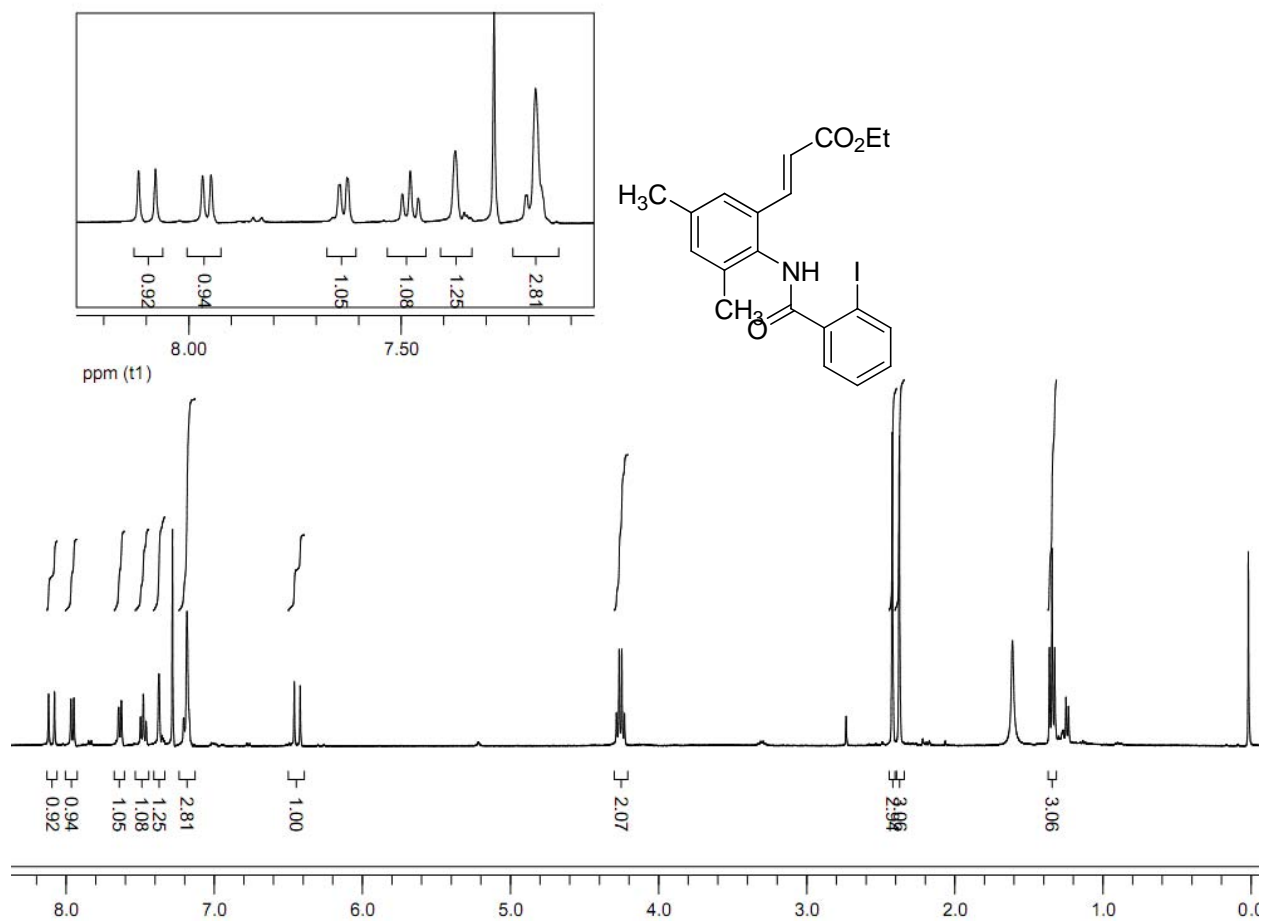


Fig. 26: ^1H NMR spectra of compound **1j** (CDCl_3 , 400 MHz)

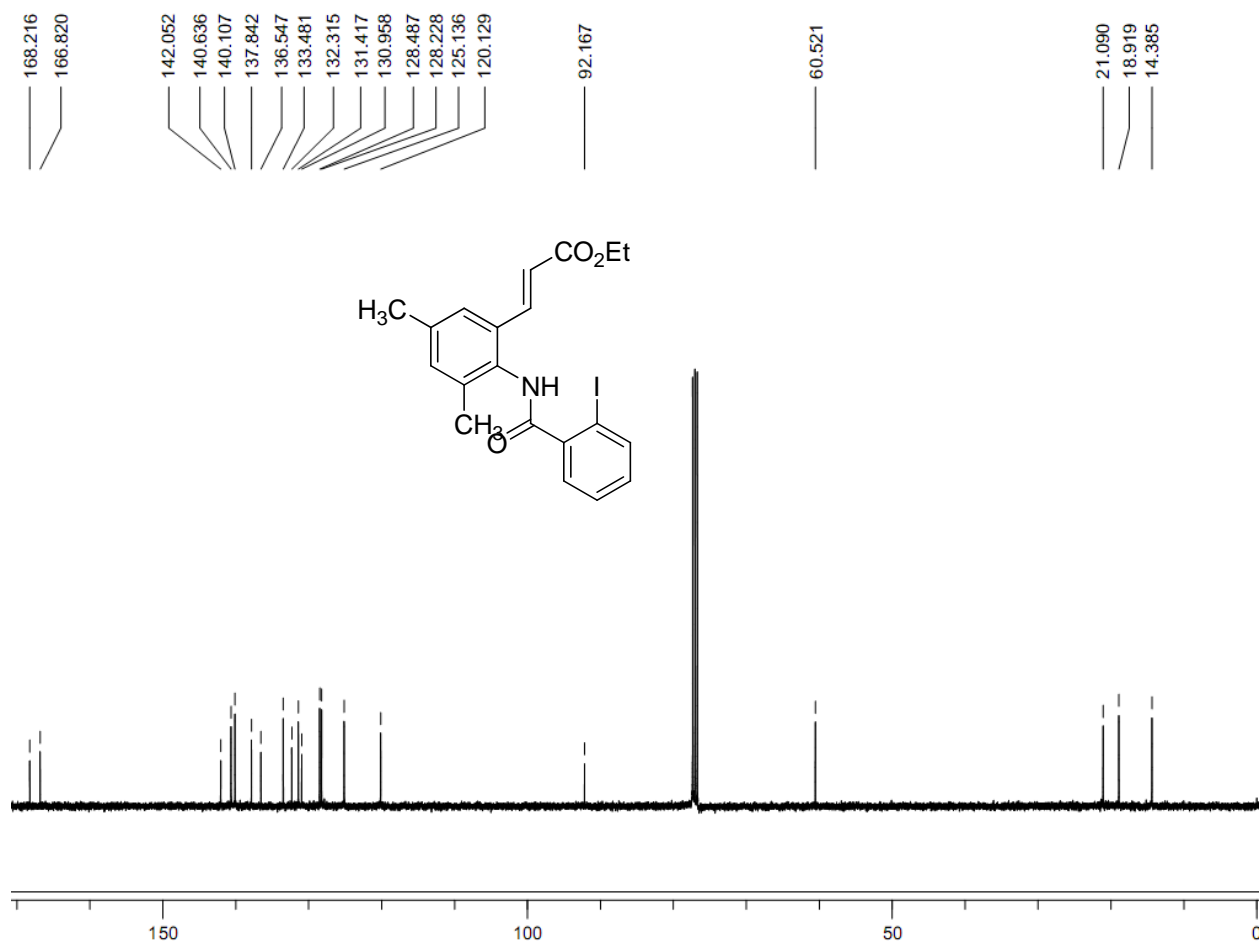


Fig. 27: ^{13}C NMR spectra of compound **1j** (CDCl_3 , 100 MHz)

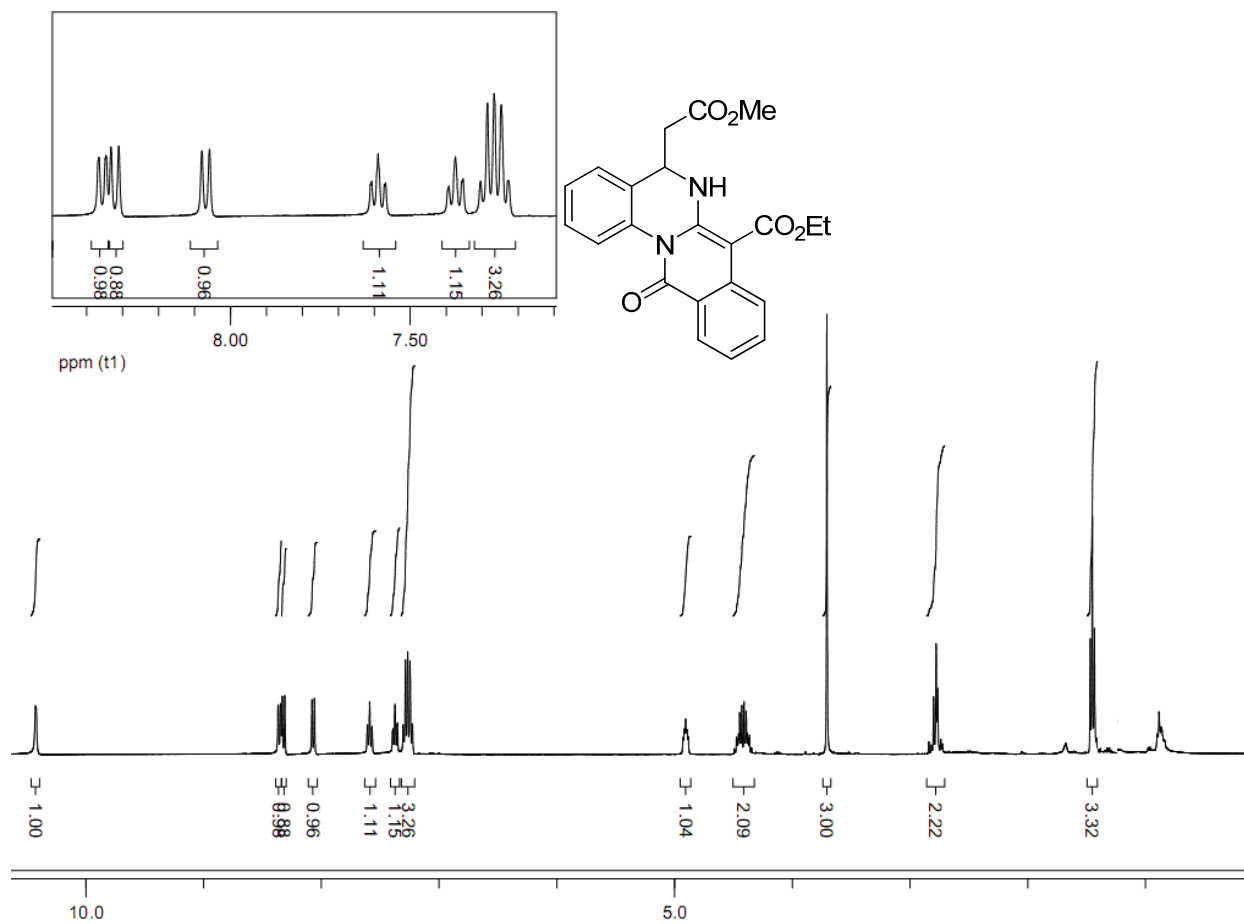


Fig. 28: ¹H NMR spectra of compound **3a** (CDCl₃, 400 MHz)

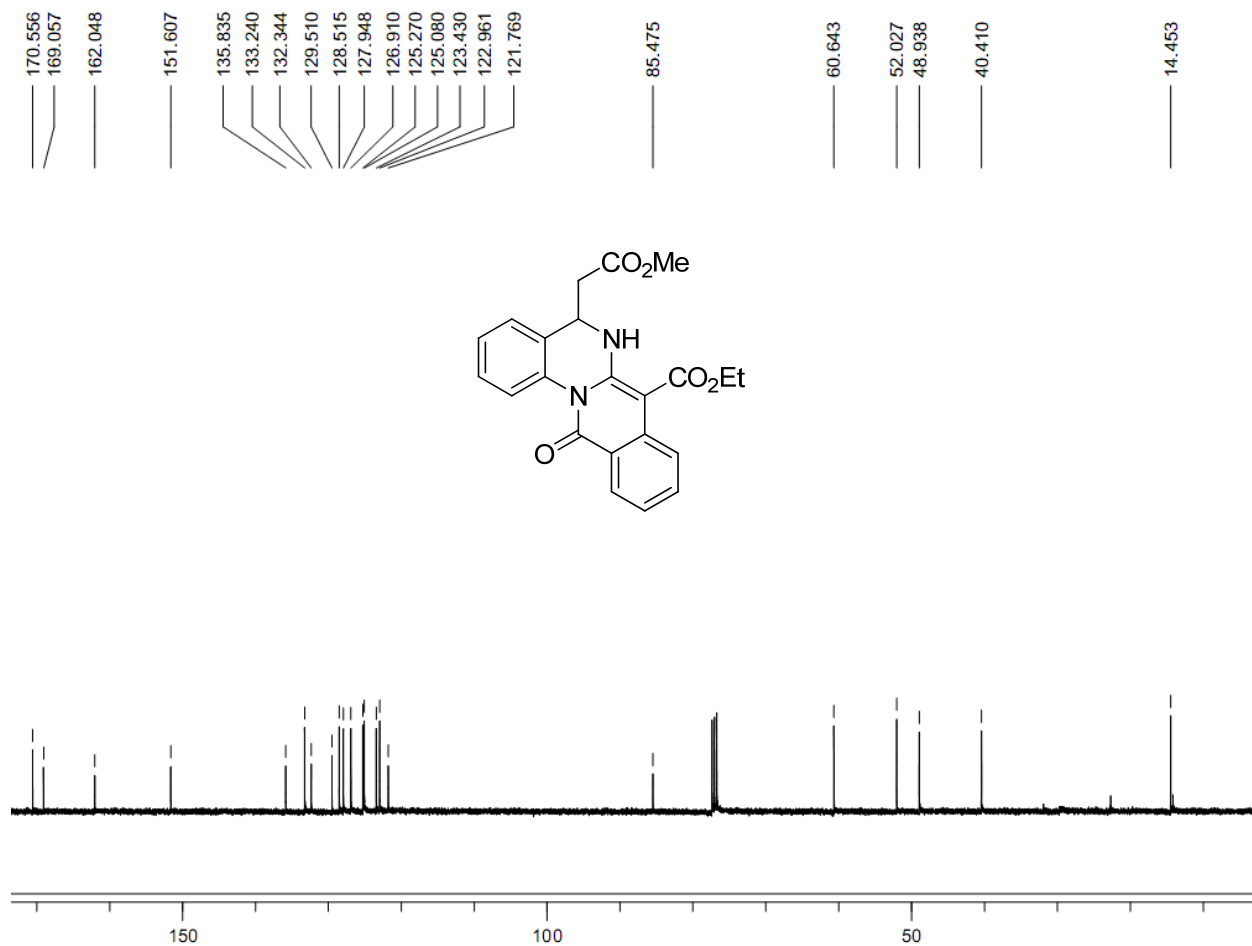


Fig. 29: ^{13}C NMR spectra of compound **3a** (CDCl_3 , 100 MHz)

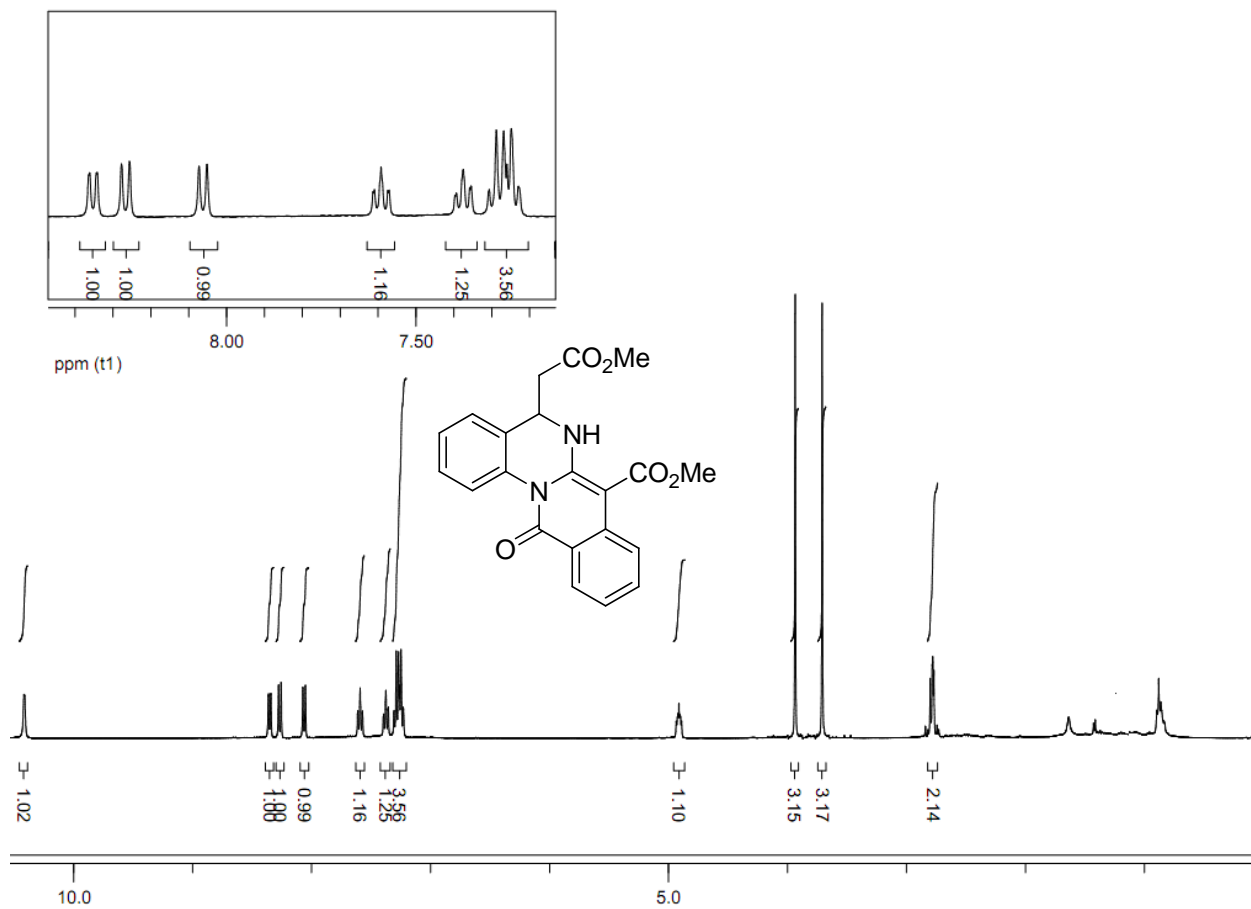


Fig. 30: ¹H NMR spectra of compound **3b** (CDCl₃, 400 MHz)

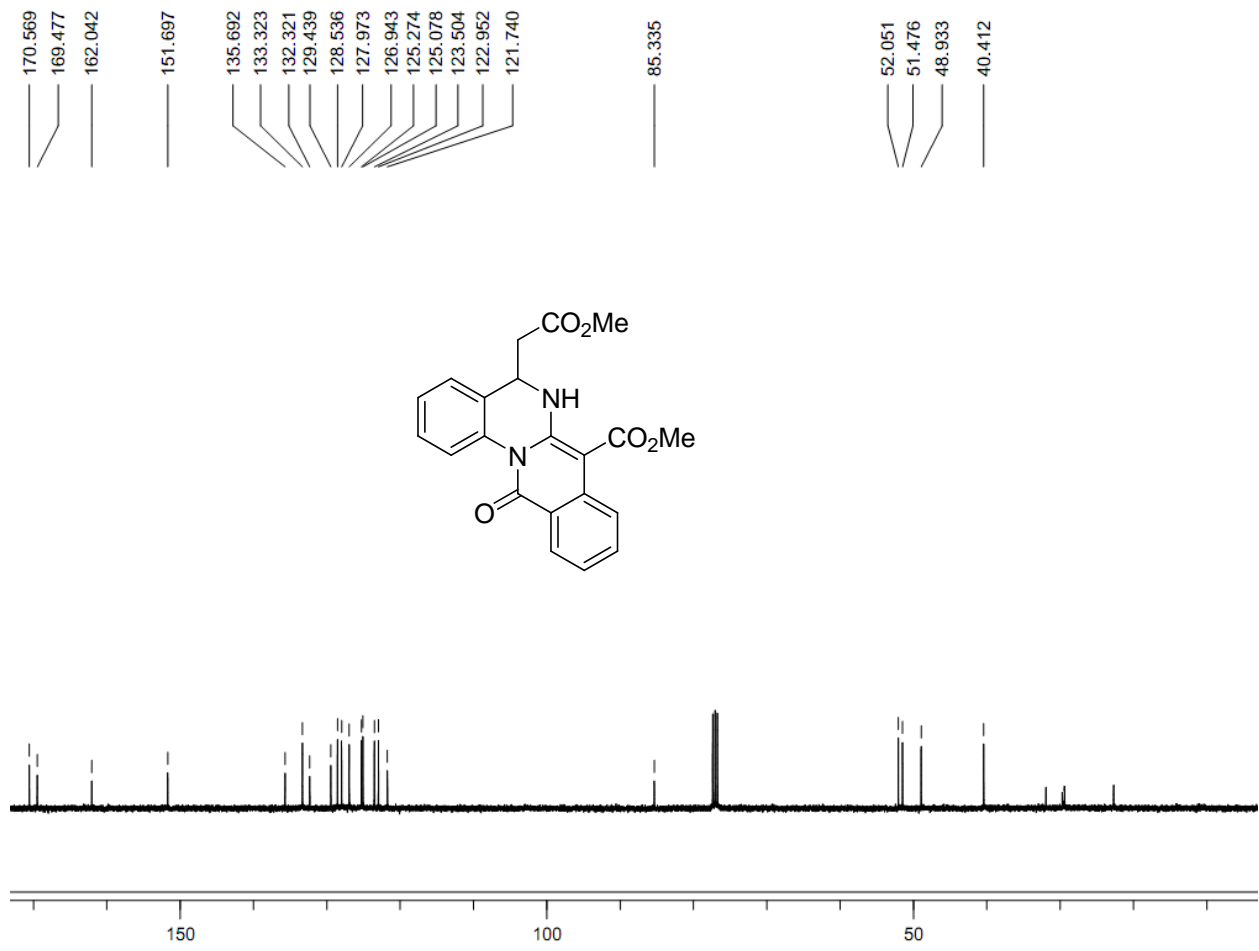


Fig. 31: ¹³C NMR spectra of compound **3b** (CDCl₃, 100 MHz)

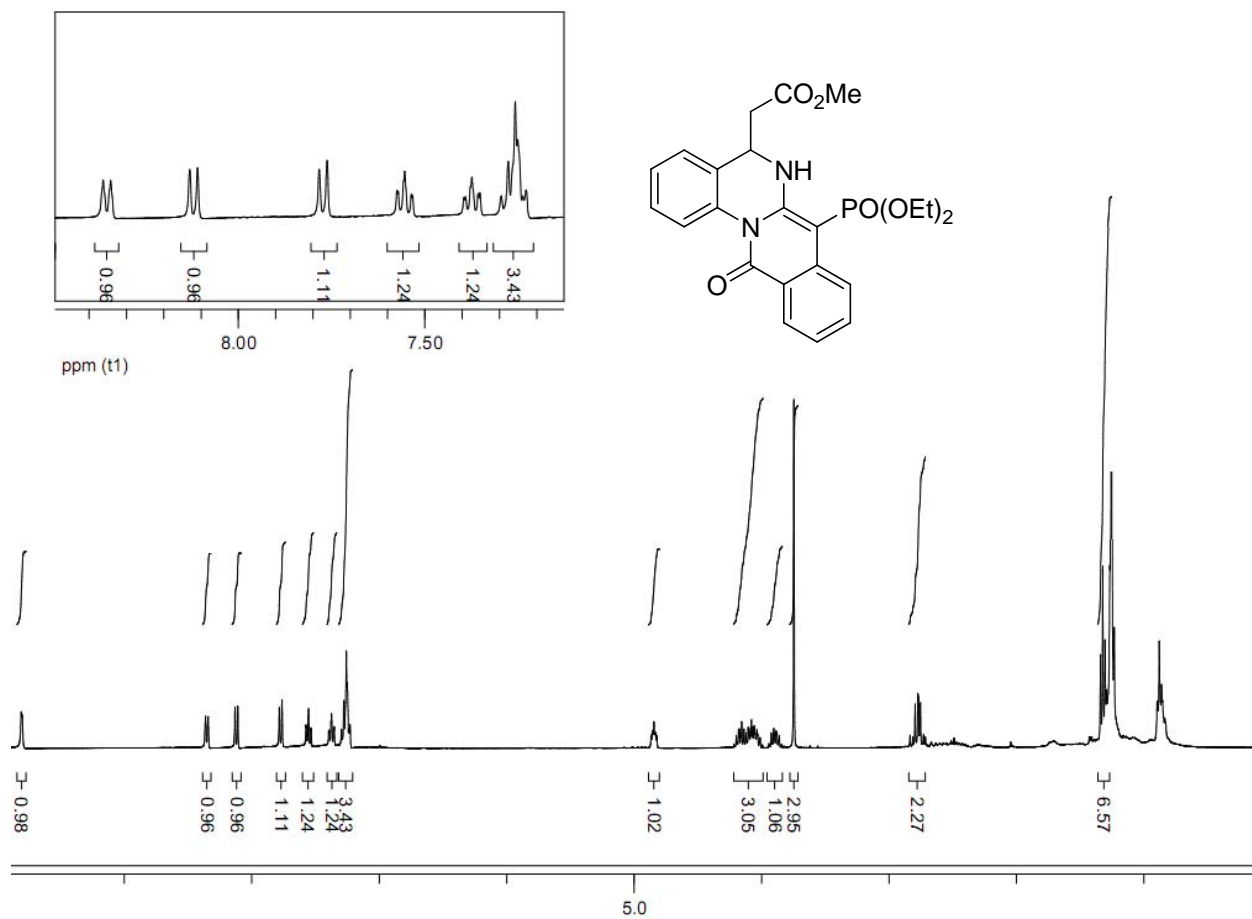


Fig. 32: ^1H NMR spectra of compound **3c** (CDCl_3 , 400 MHz)

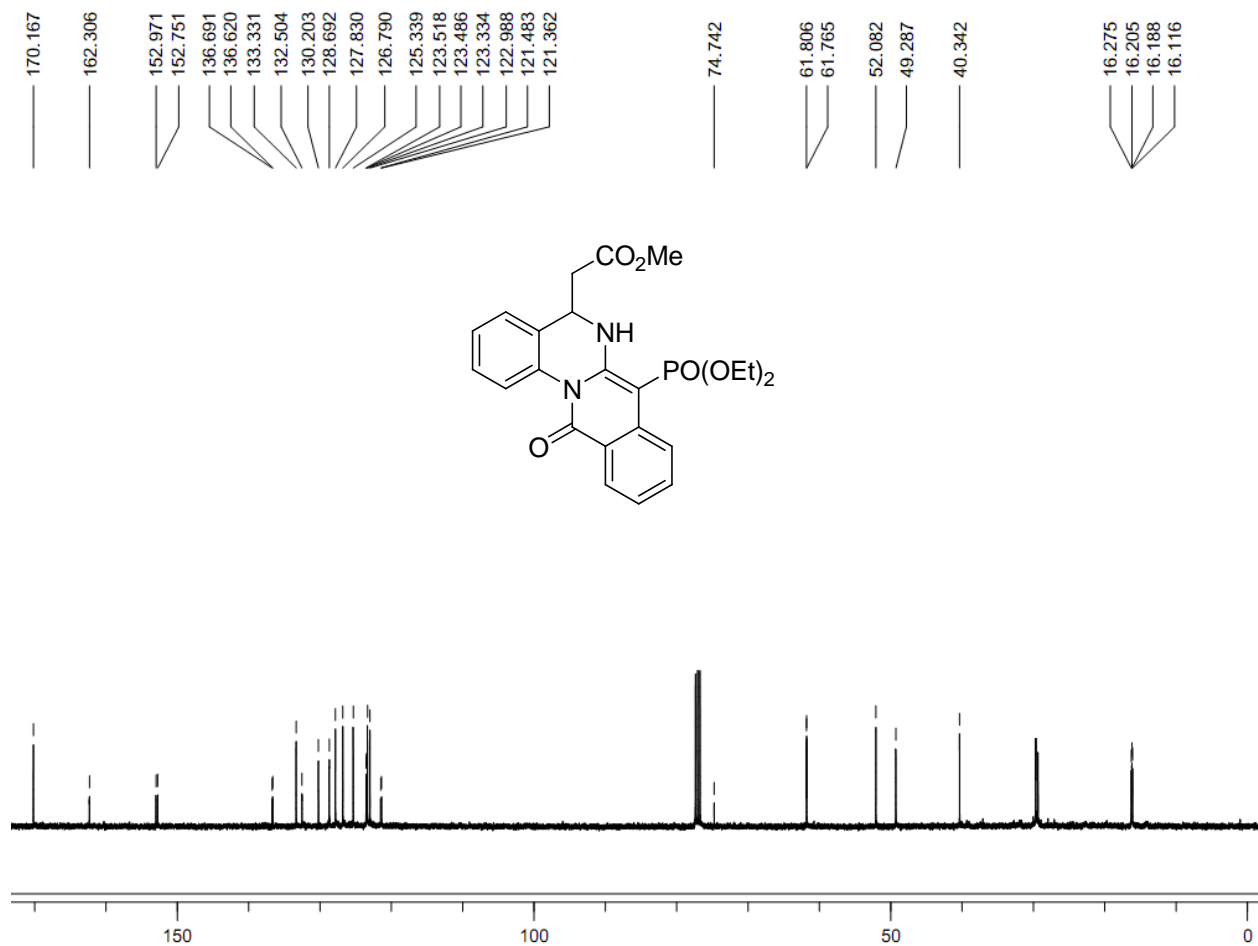


Fig. 33: ¹³C NMR spectra of compound **3c** (CDCl₃, 100 MHz)

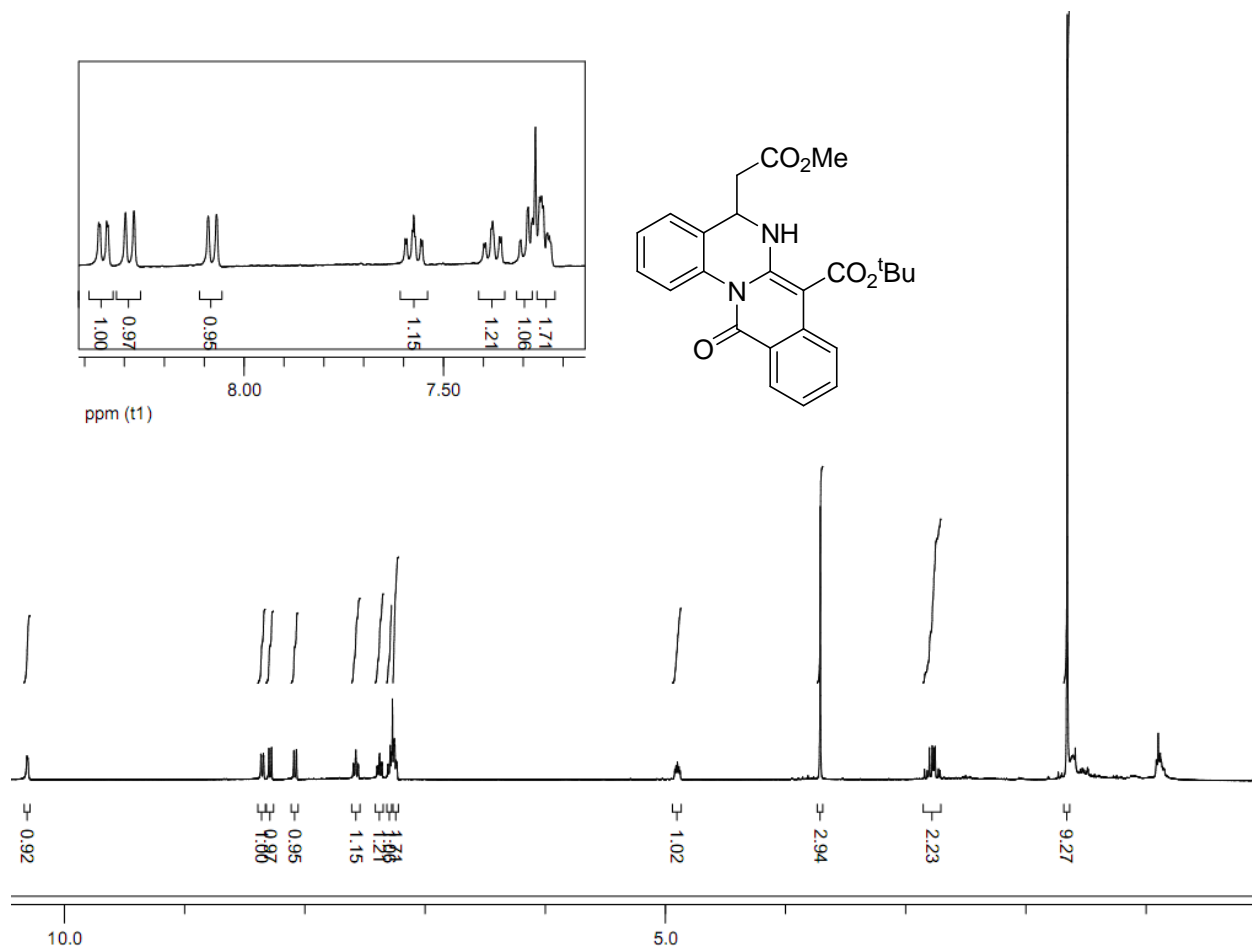


Fig. 34: ¹H NMR spectra of compound **3d** (CDCl₃, 400 MHz)

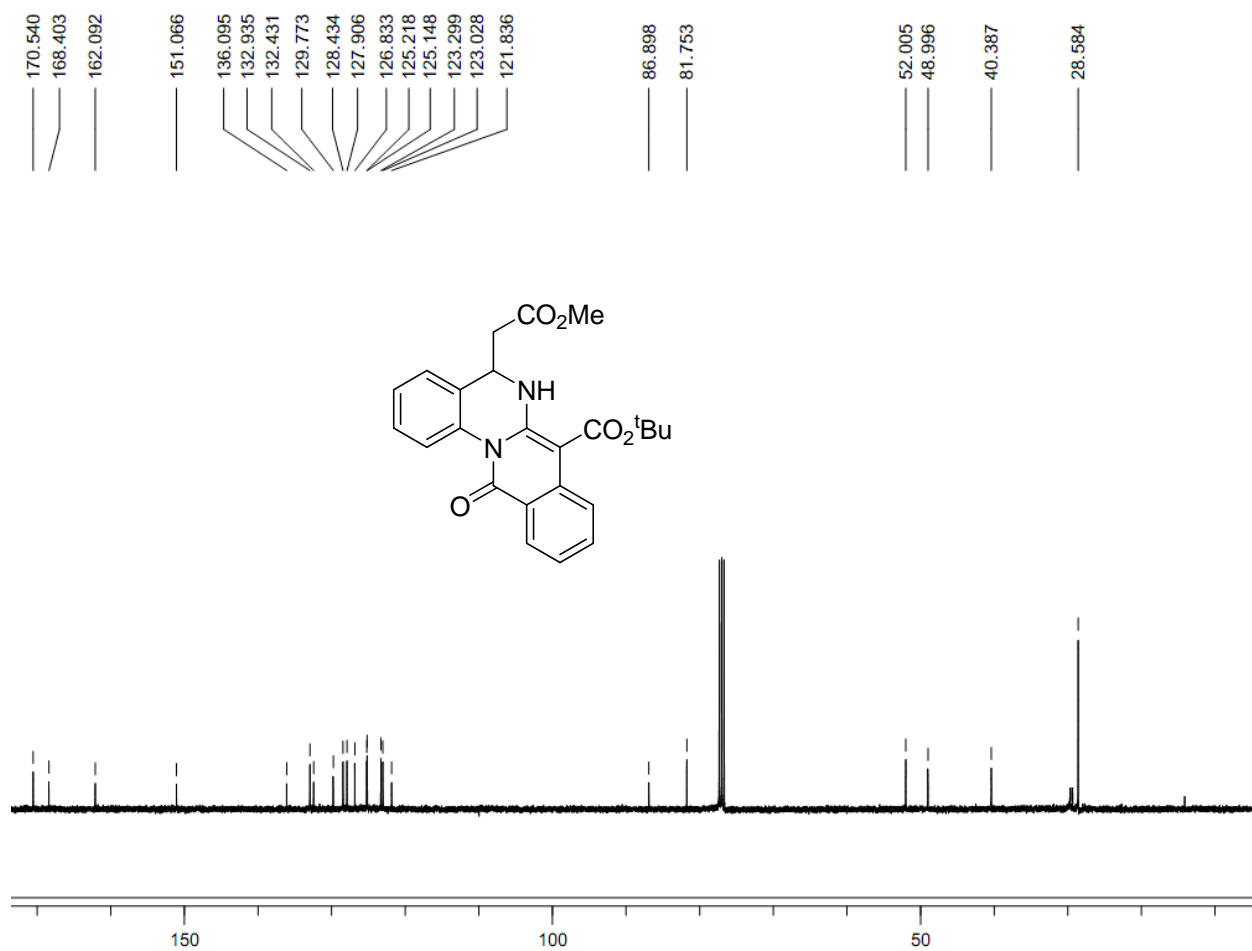


Fig. 35: ^{13}C NMR spectra of compound **3d** (CDCl_3 , 100 MHz)

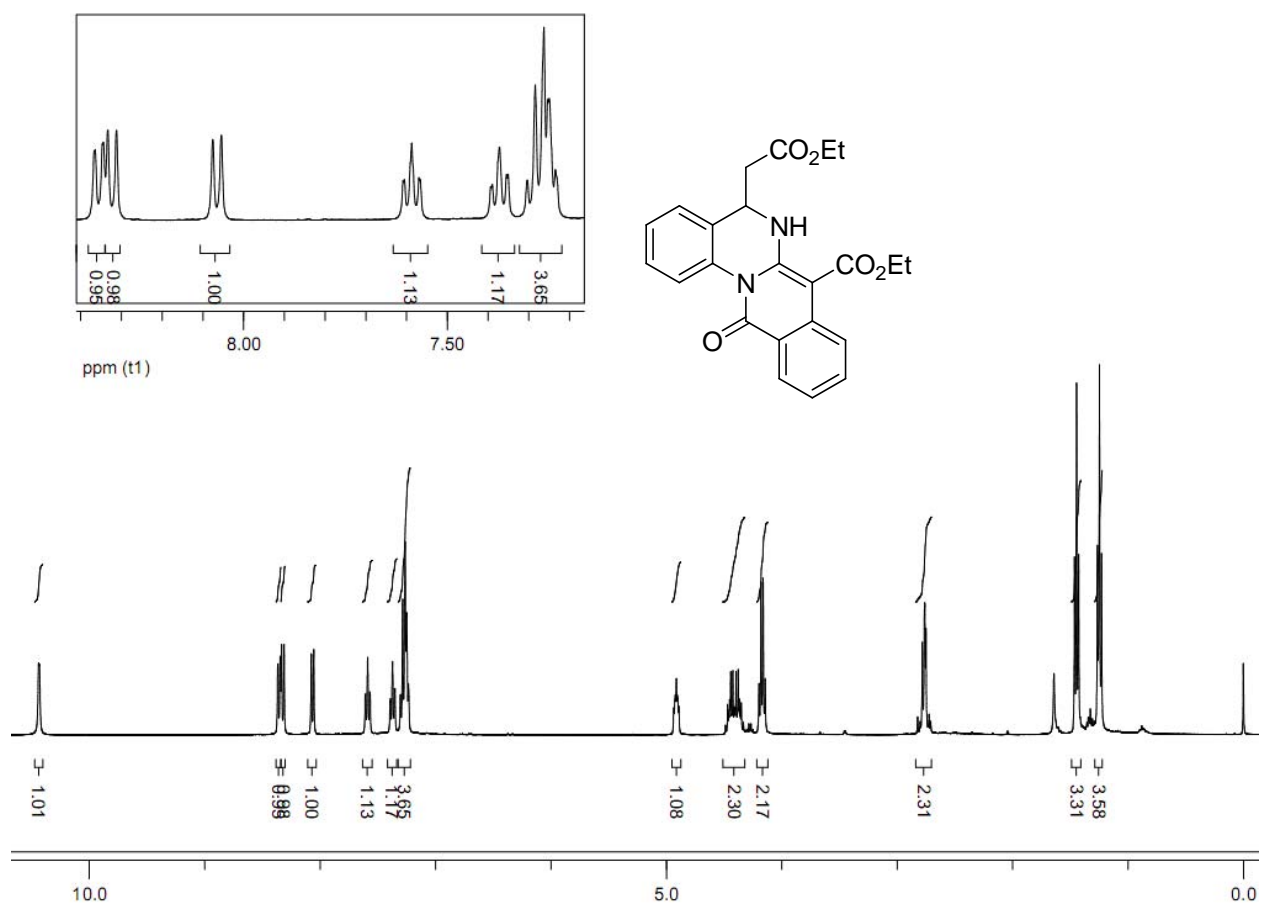


Fig. 36: ¹H NMR spectra of compound **3e** (CDCl₃, 400 MHz)

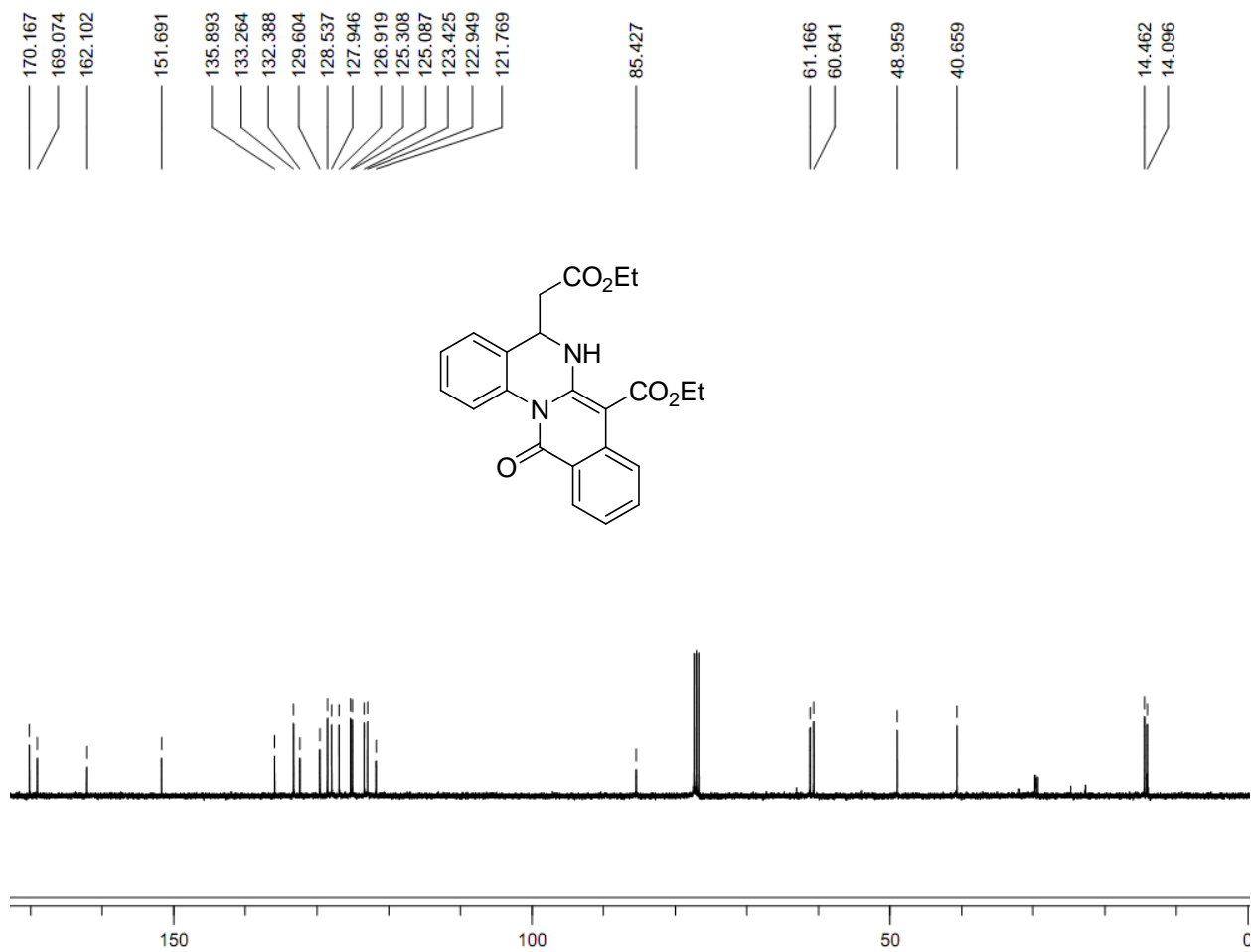


Fig. 37: ^{13}C NMR spectra of compound **3e** (CDCl_3 , 100 MHz)

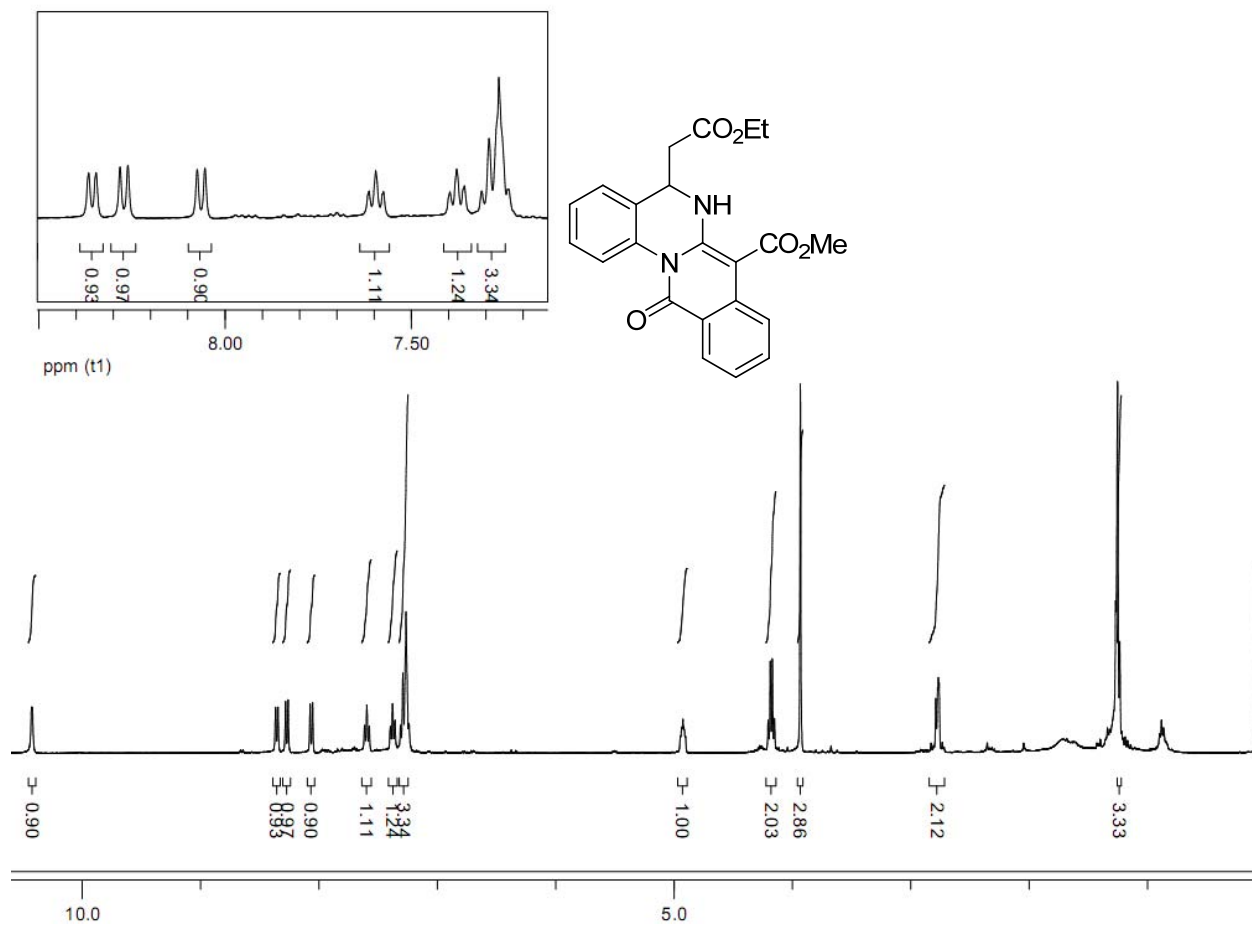


Fig. 38: $^1\text{H NMR}$ spectra of compound **3f** (CDCl₃, 400 MHz)

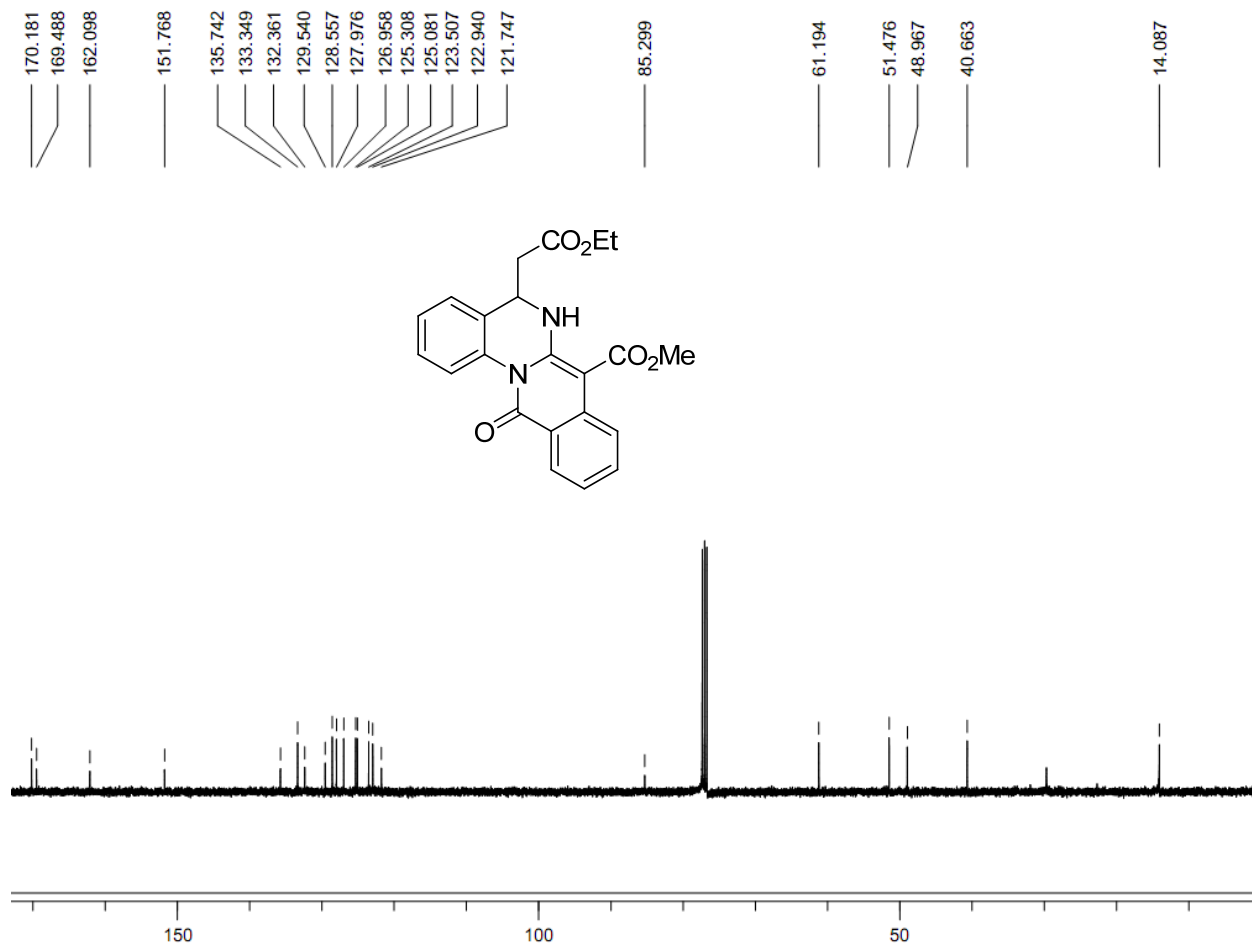


Fig. 39: ¹³C NMR spectra of compound **3f** (CDCl₃, 100 MHz)

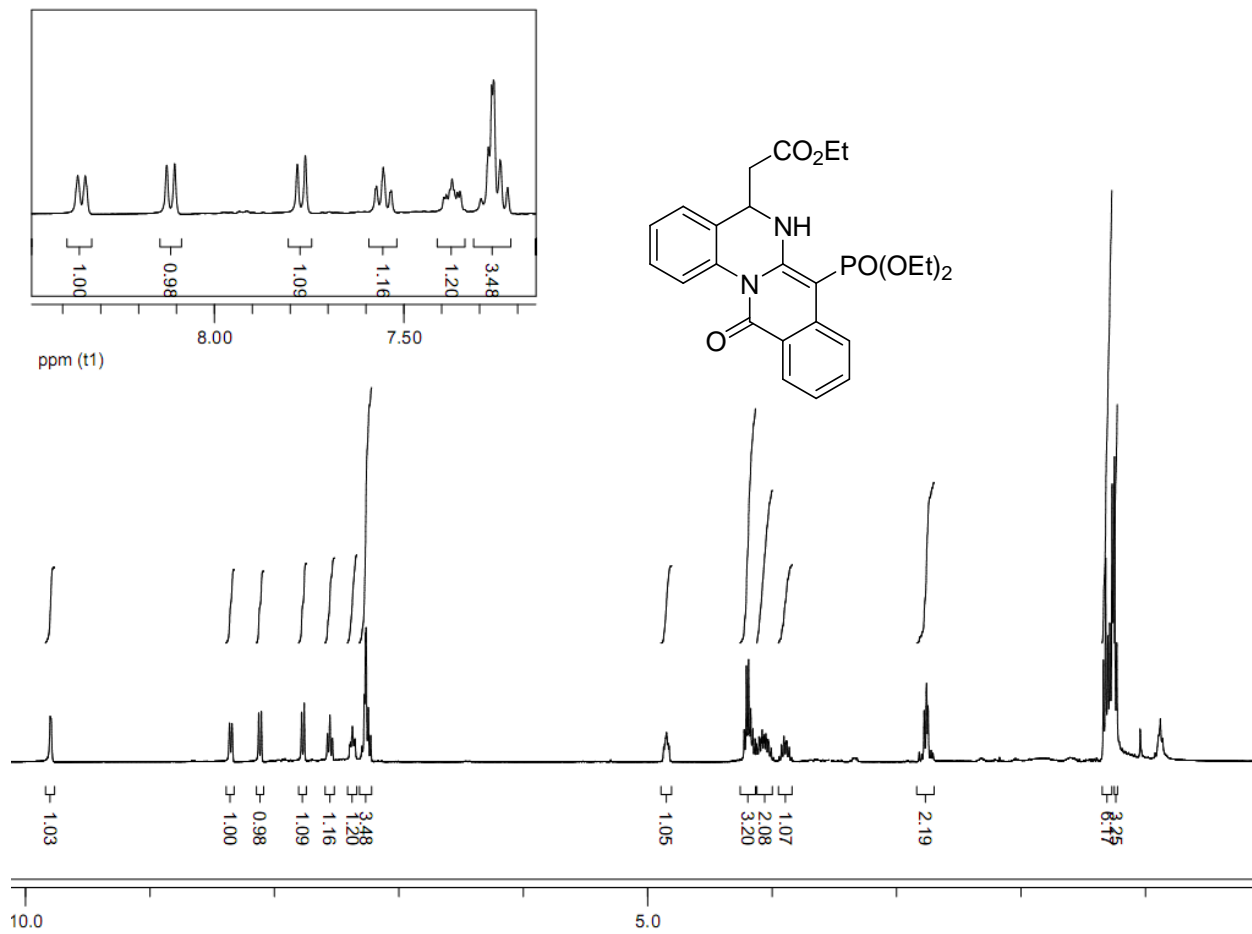


Fig. 40: ^1H NMR spectra of compound **3g** (CDCl_3 , 400 MHz)

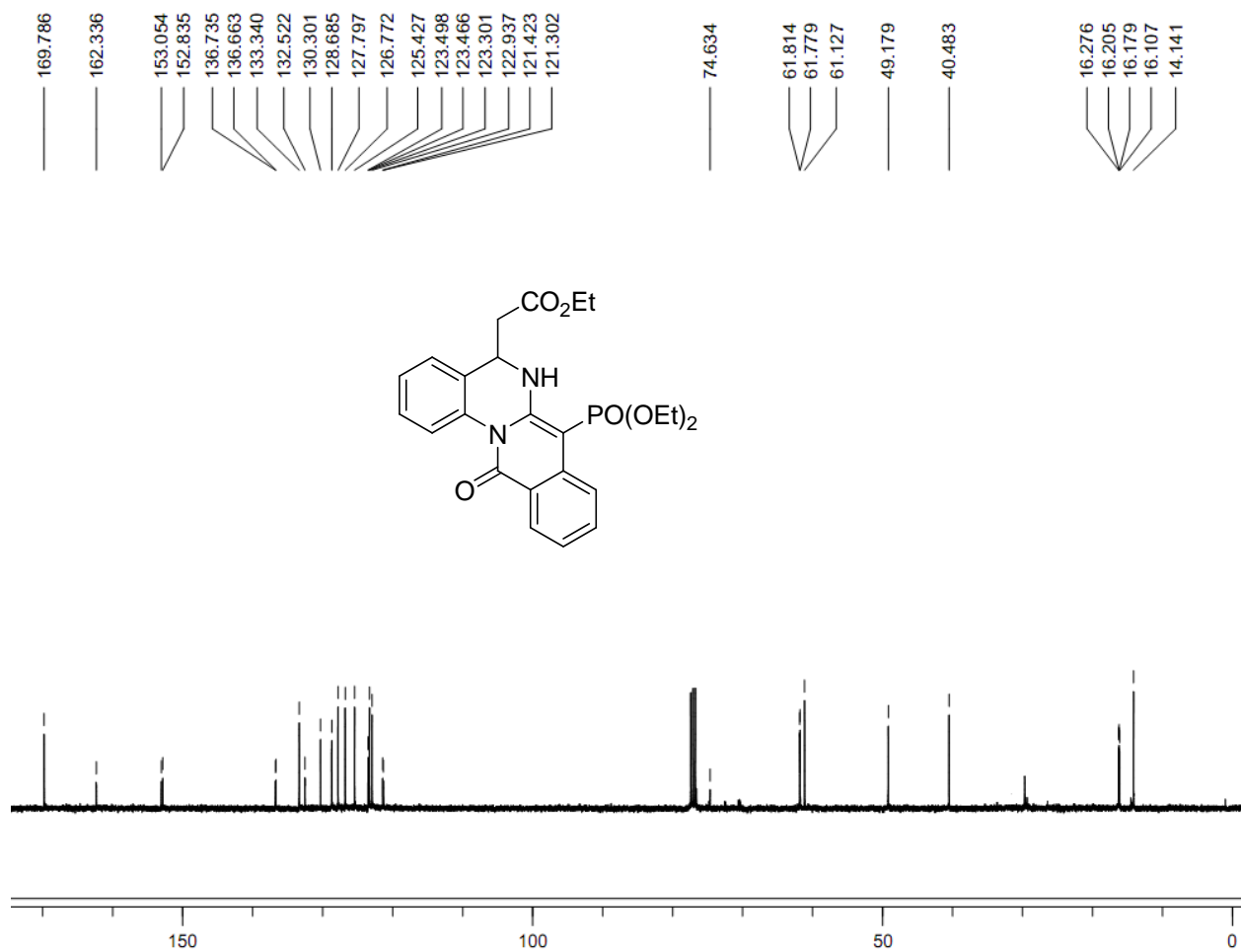


Fig. 41: ^{13}C NMR spectra of compound **3g** (CDCl_3 , 100 MHz)

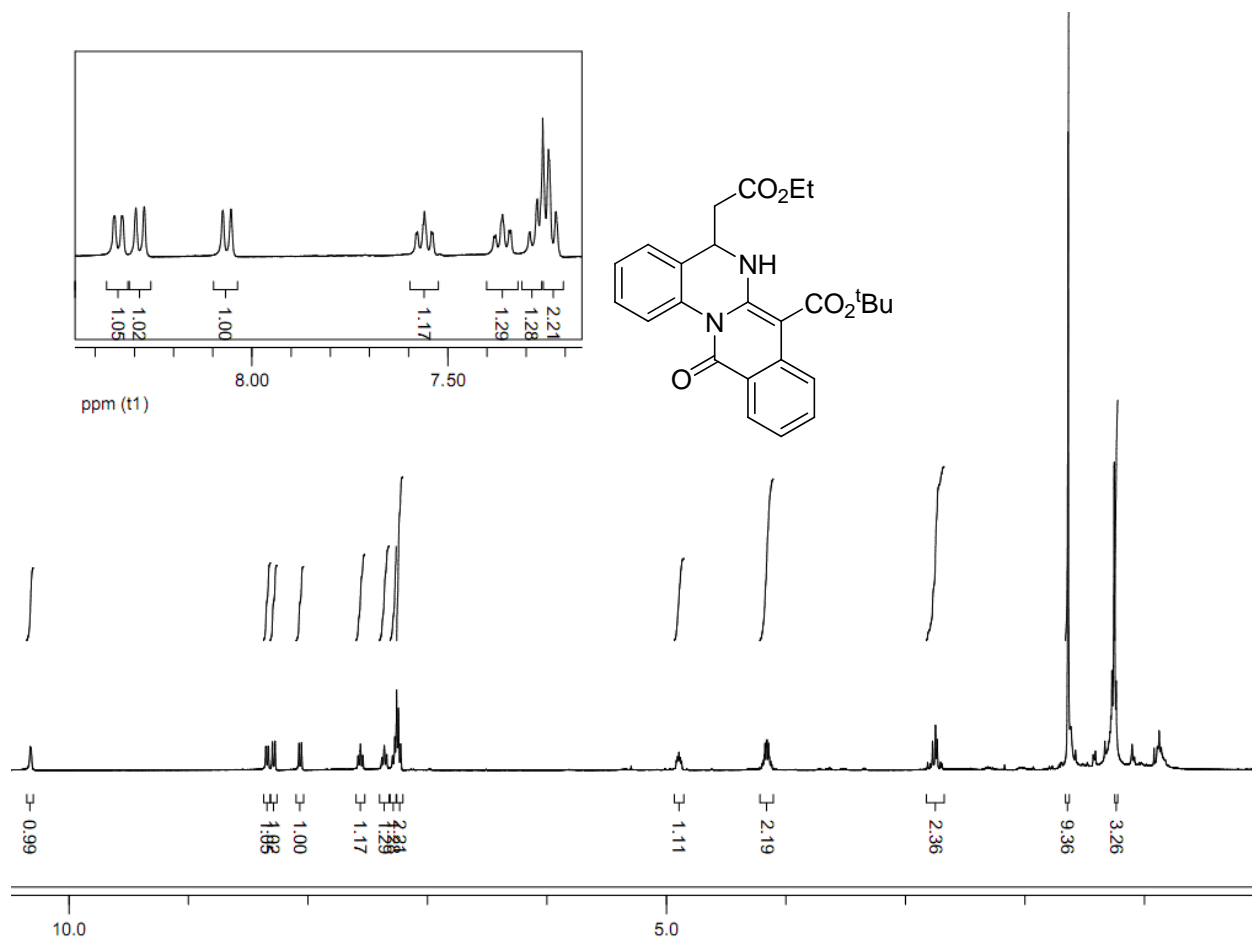


Fig. 42: ¹H NMR spectra of compound **3h** (CDCl₃, 400 MHz)

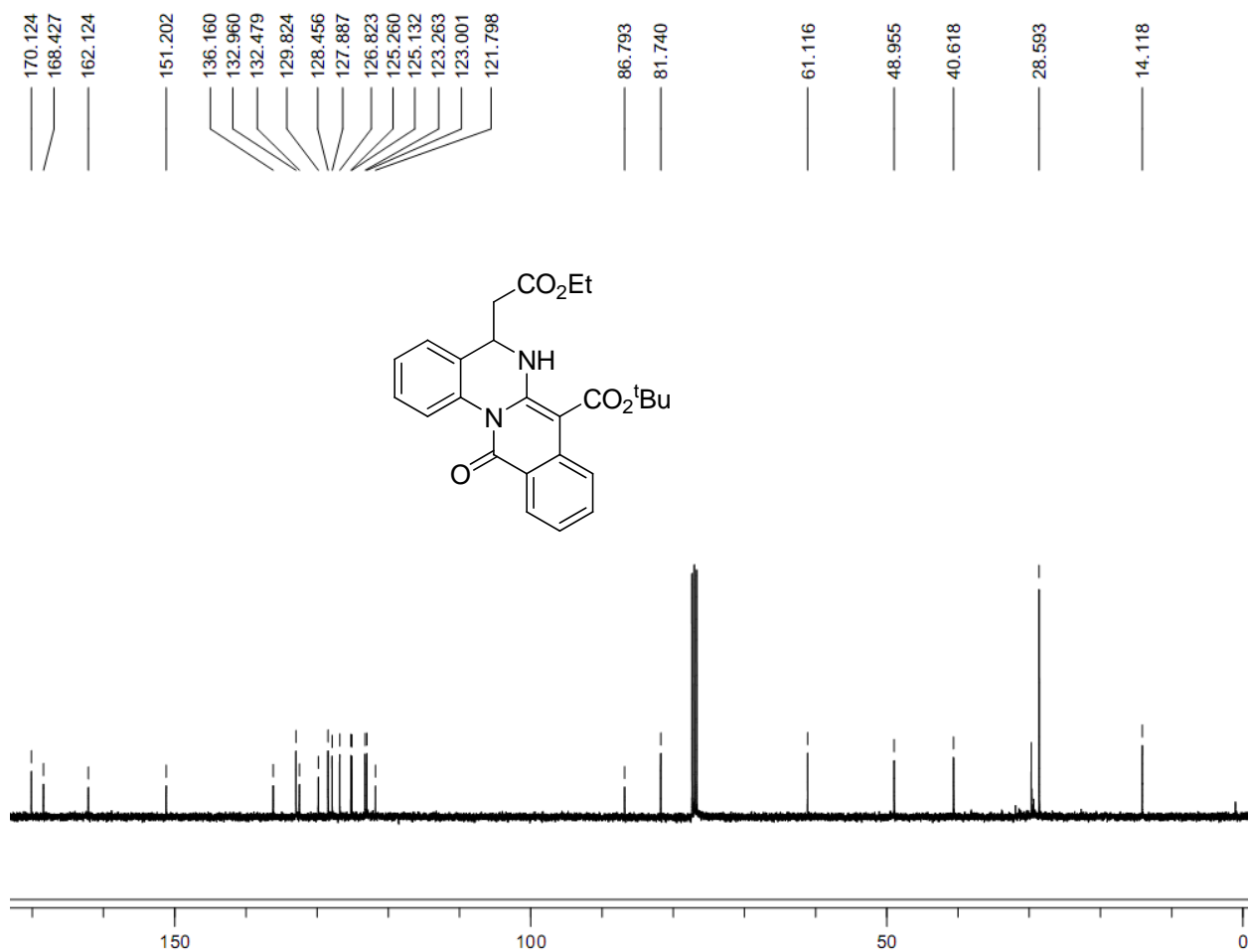


Fig. 43: ^{13}C NMR spectra of compound **3h** (CDCl_3 , 100 MHz)

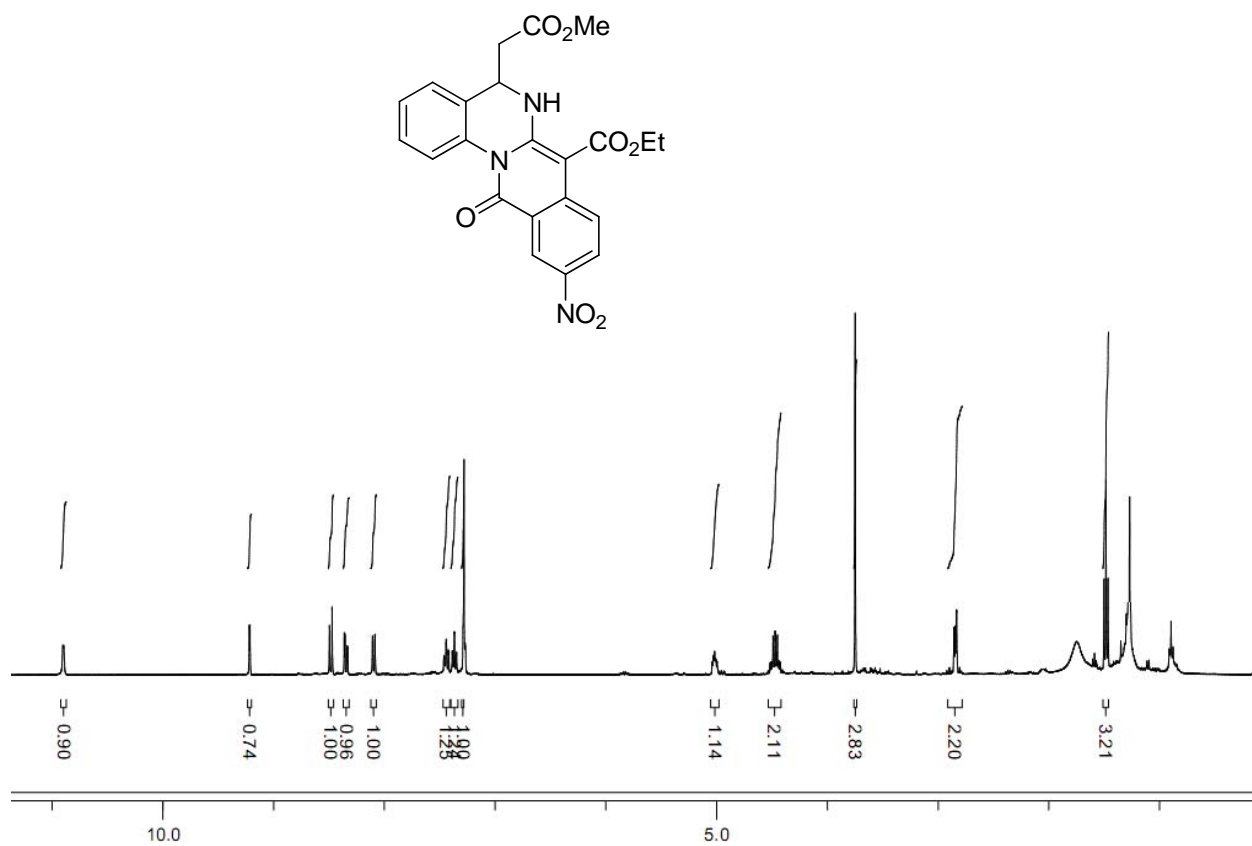


Fig. 44: ¹H NMR spectra of compound **3i** (CDCl₃, 400 MHz)

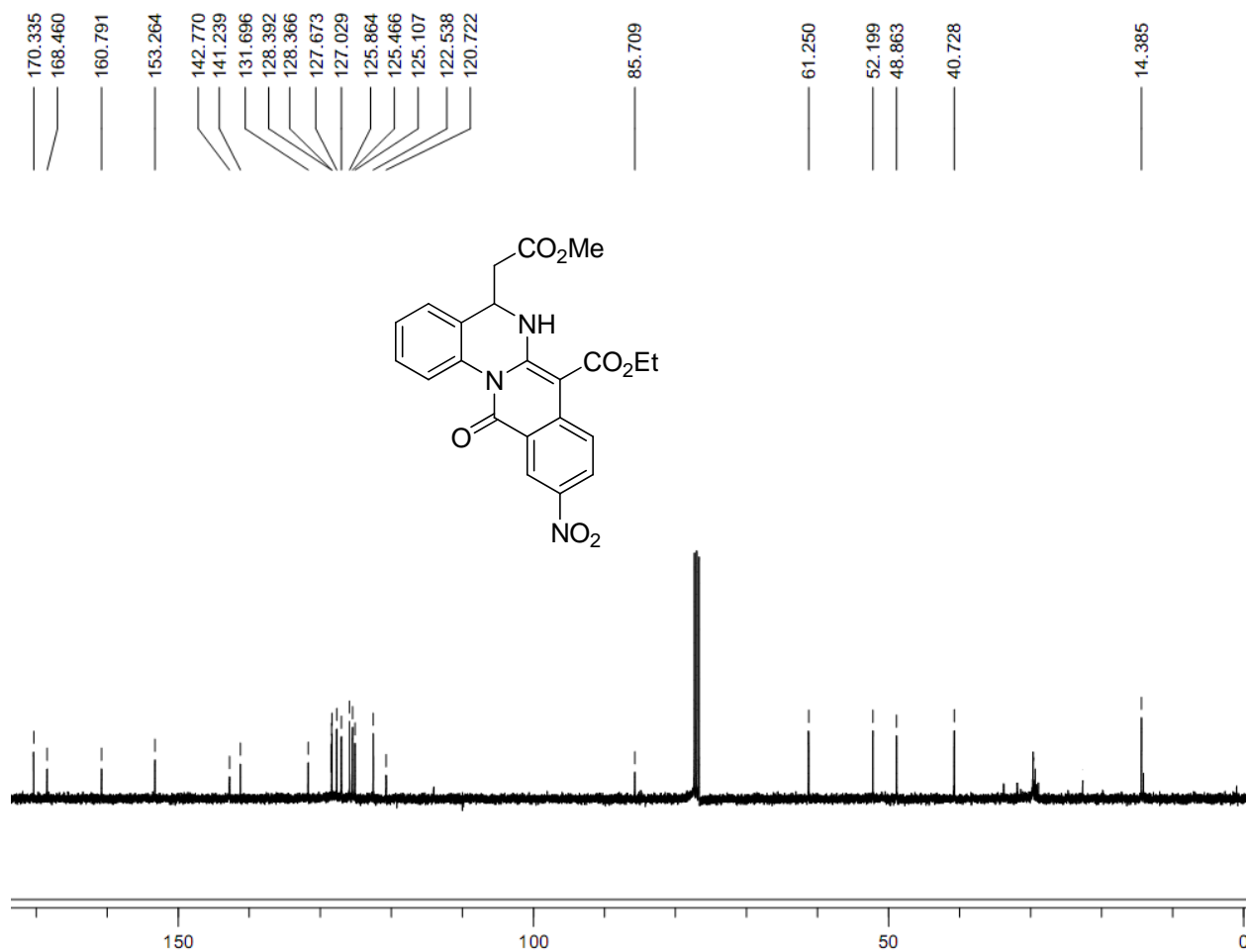


Fig. 45: ^{13}C NMR spectra of compound **3i** (CDCl_3 , 100 MHz)

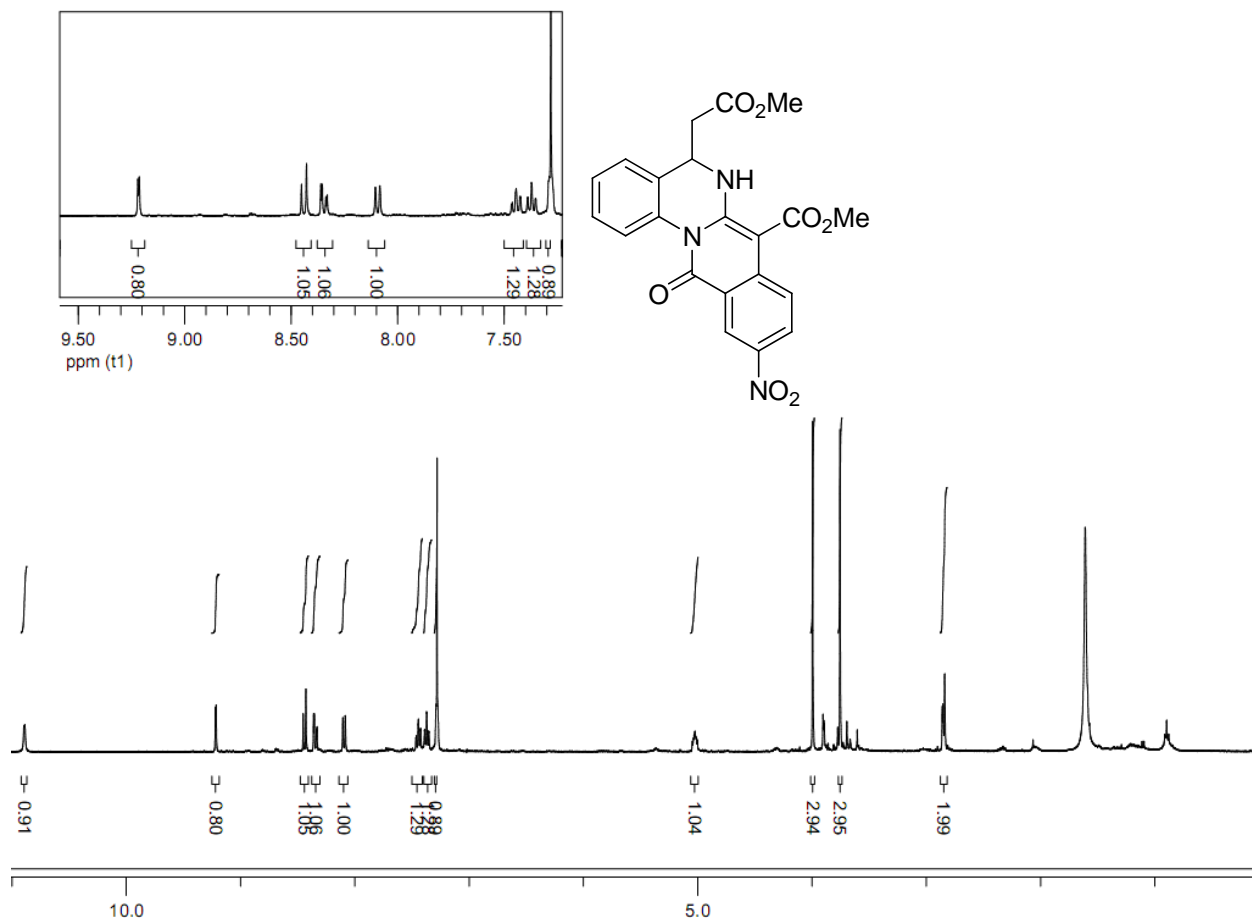


Fig. 46: ¹H NMR spectra of compound **3j** (CDCl₃, 400 MHz)

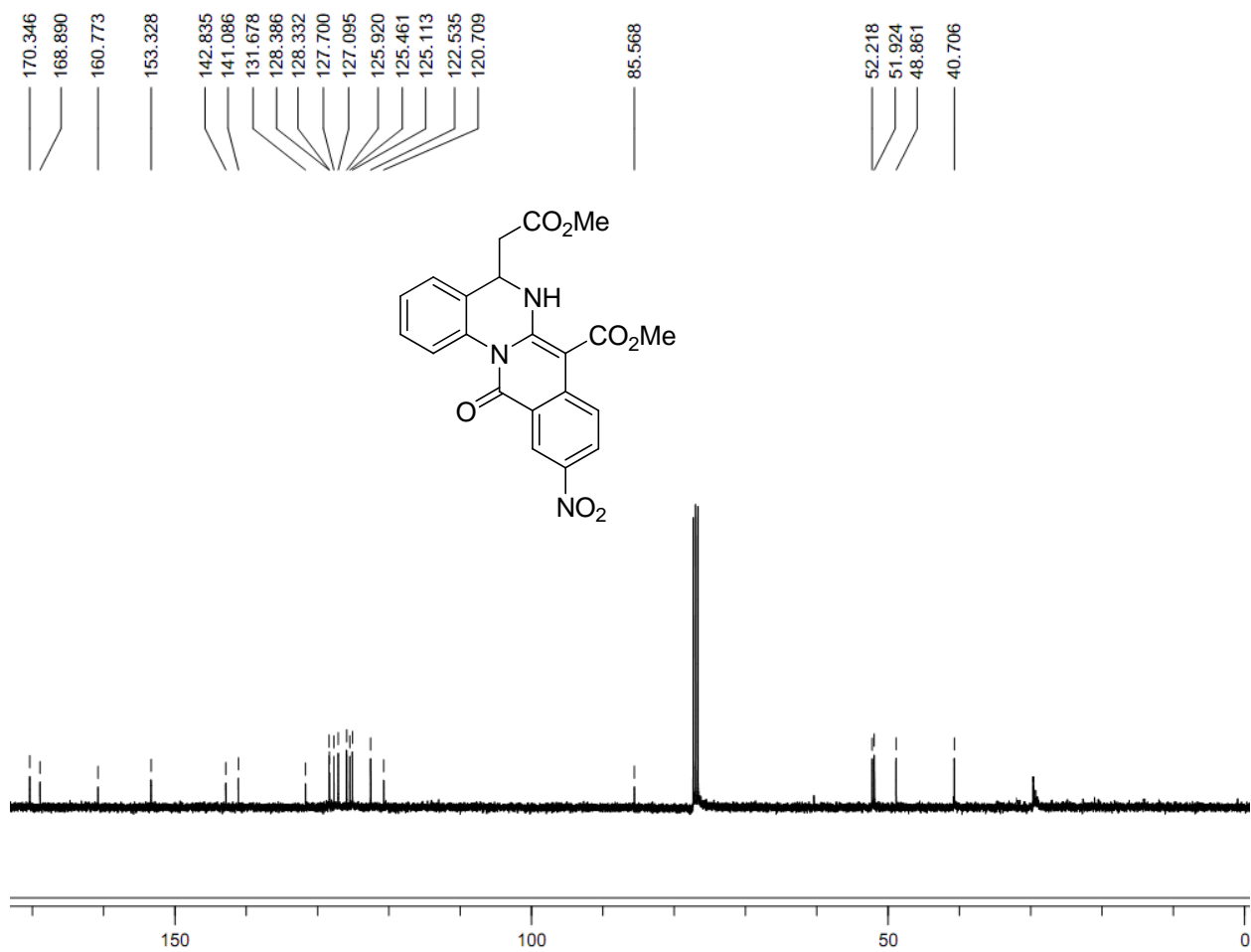


Fig. 47: ¹³C NMR spectra of compound **3j** (CDCl₃, 100 MHz)

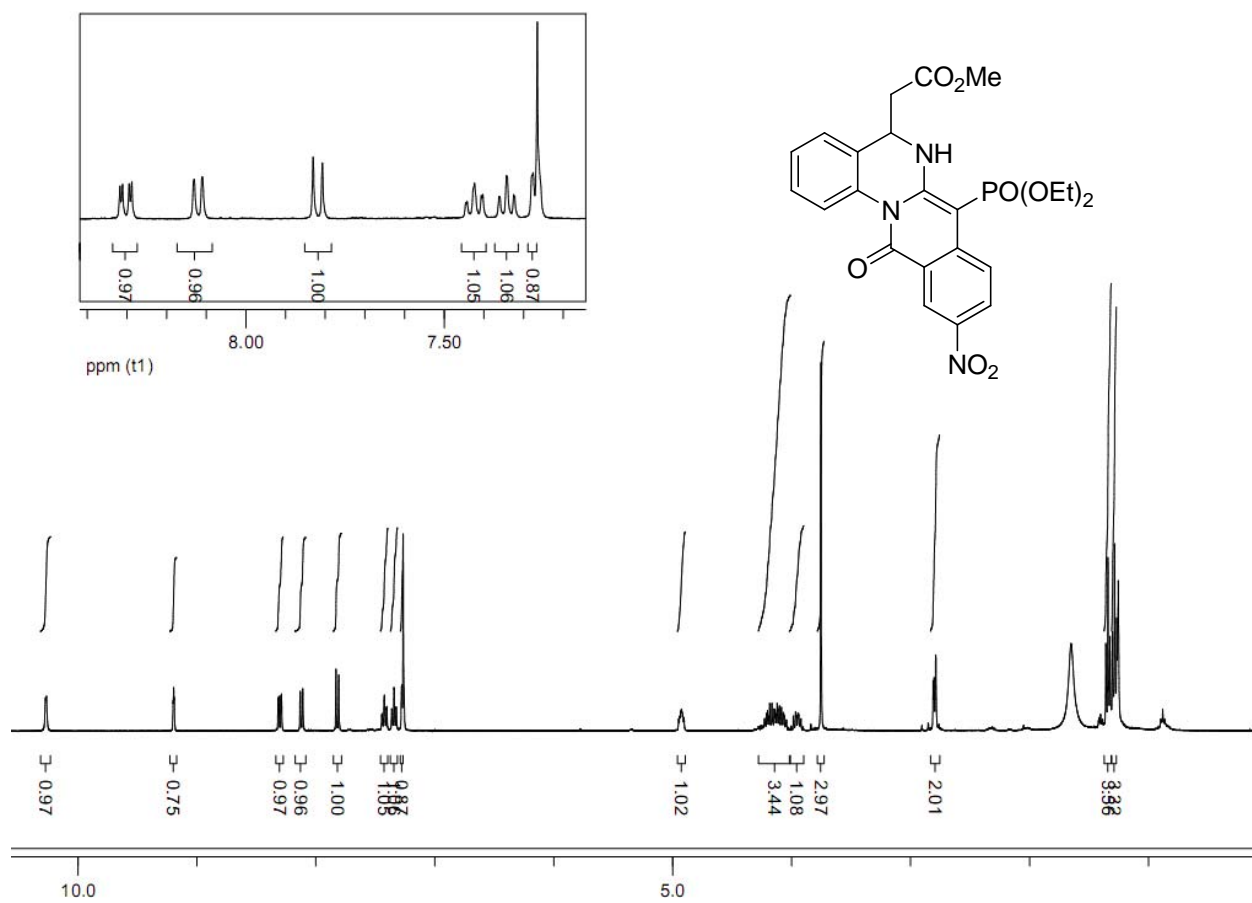


Fig. 48: ¹H NMR spectra of compound **3k** (CDCl₃, 400 MHz)

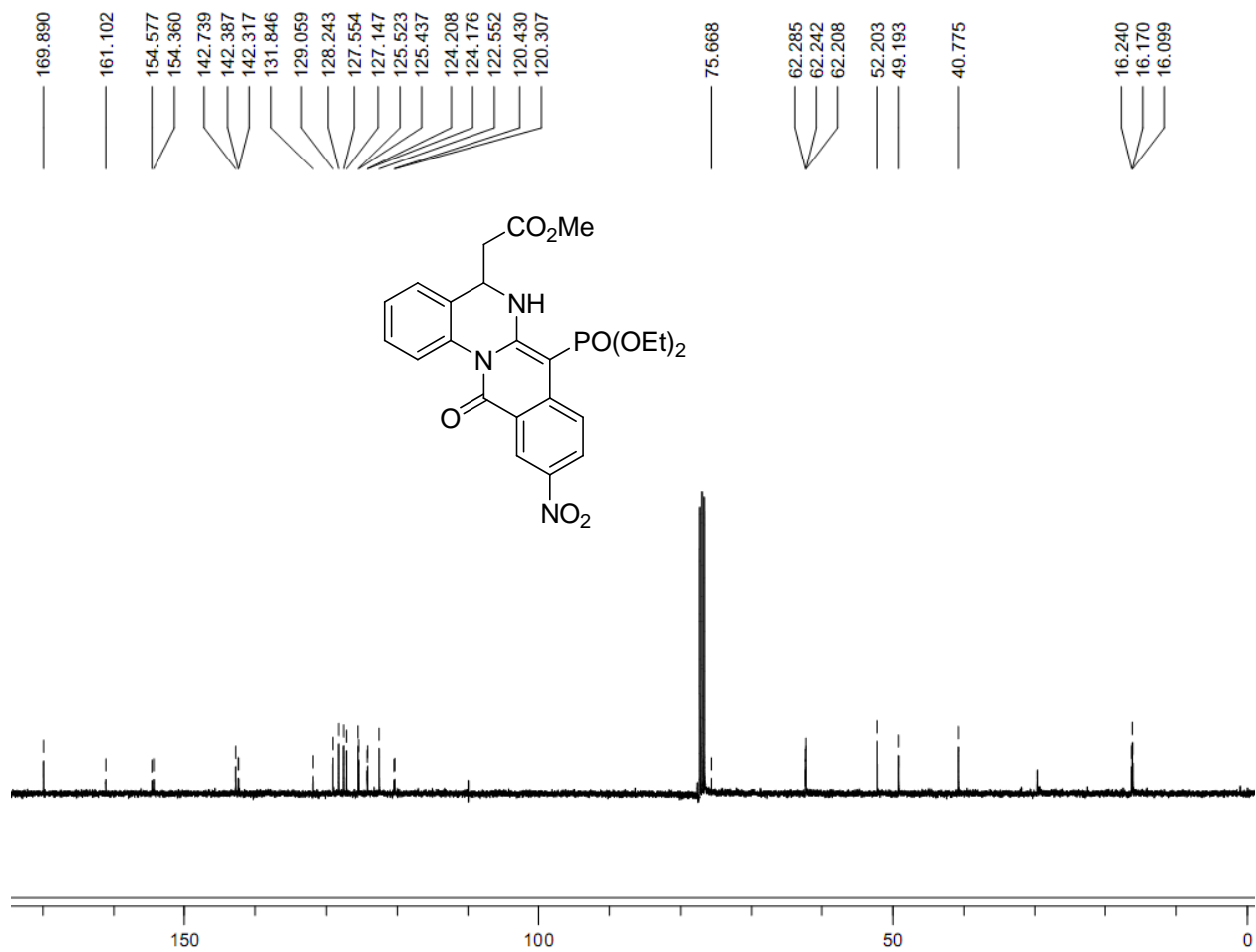


Fig. 49: ¹³C NMR spectra of compound **3k** (CDCl₃, 100 MHz)

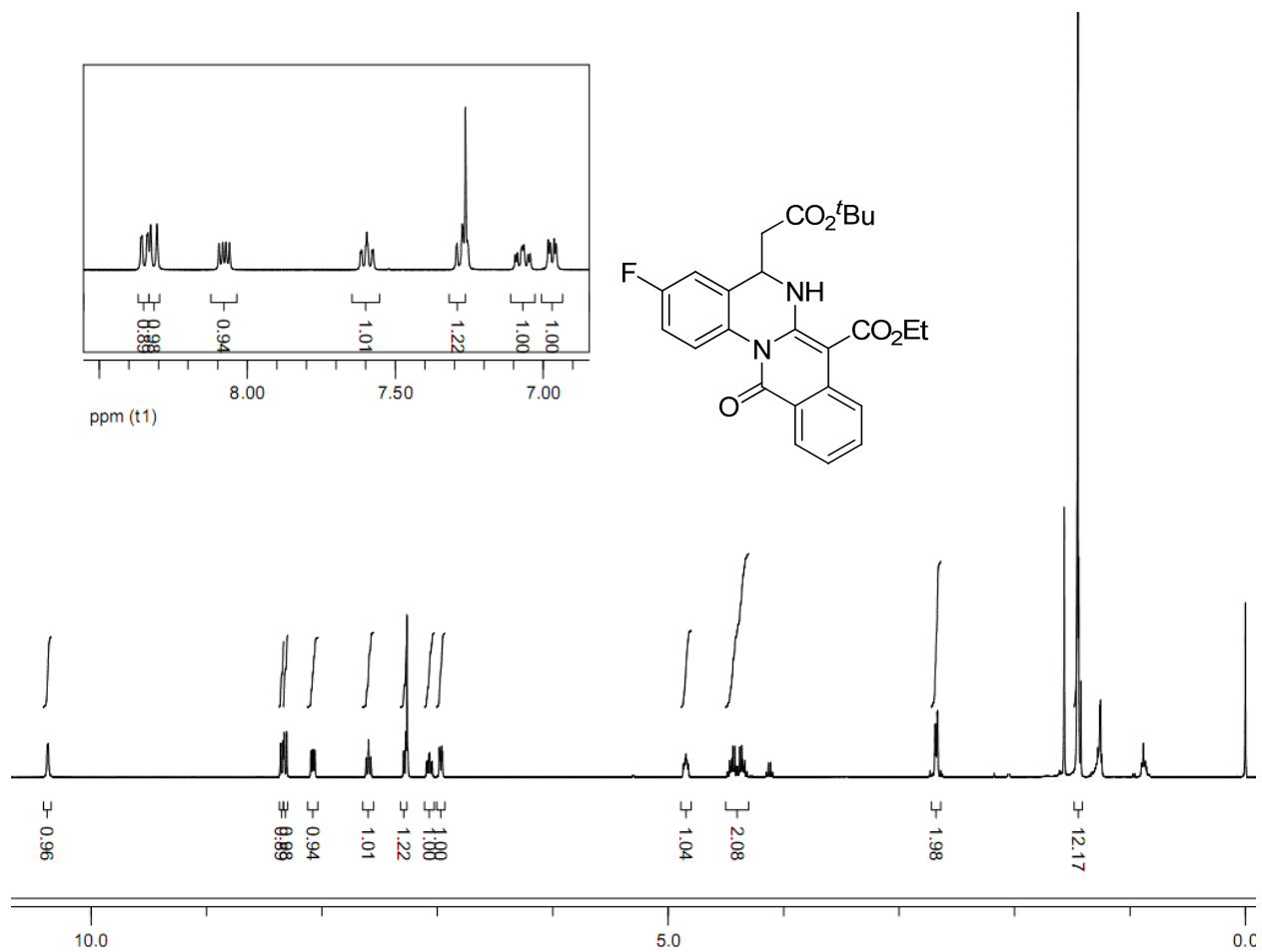


Fig. 50: ¹H NMR spectra of compound **3I** (CDCl₃, 400 MHz)

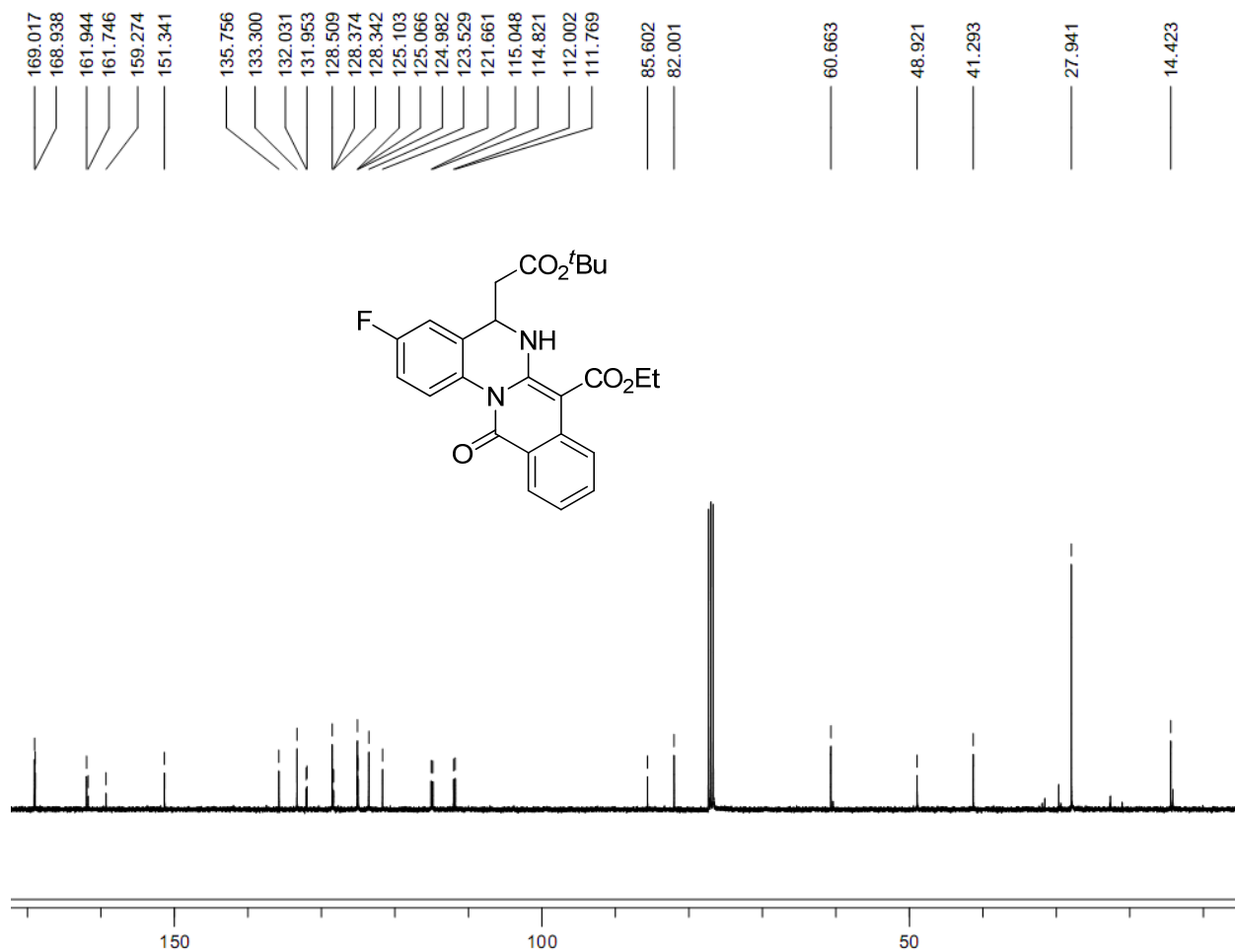


Fig. 51: ¹³C NMR spectra of compound **31** (CDCl₃, 100 MHz)

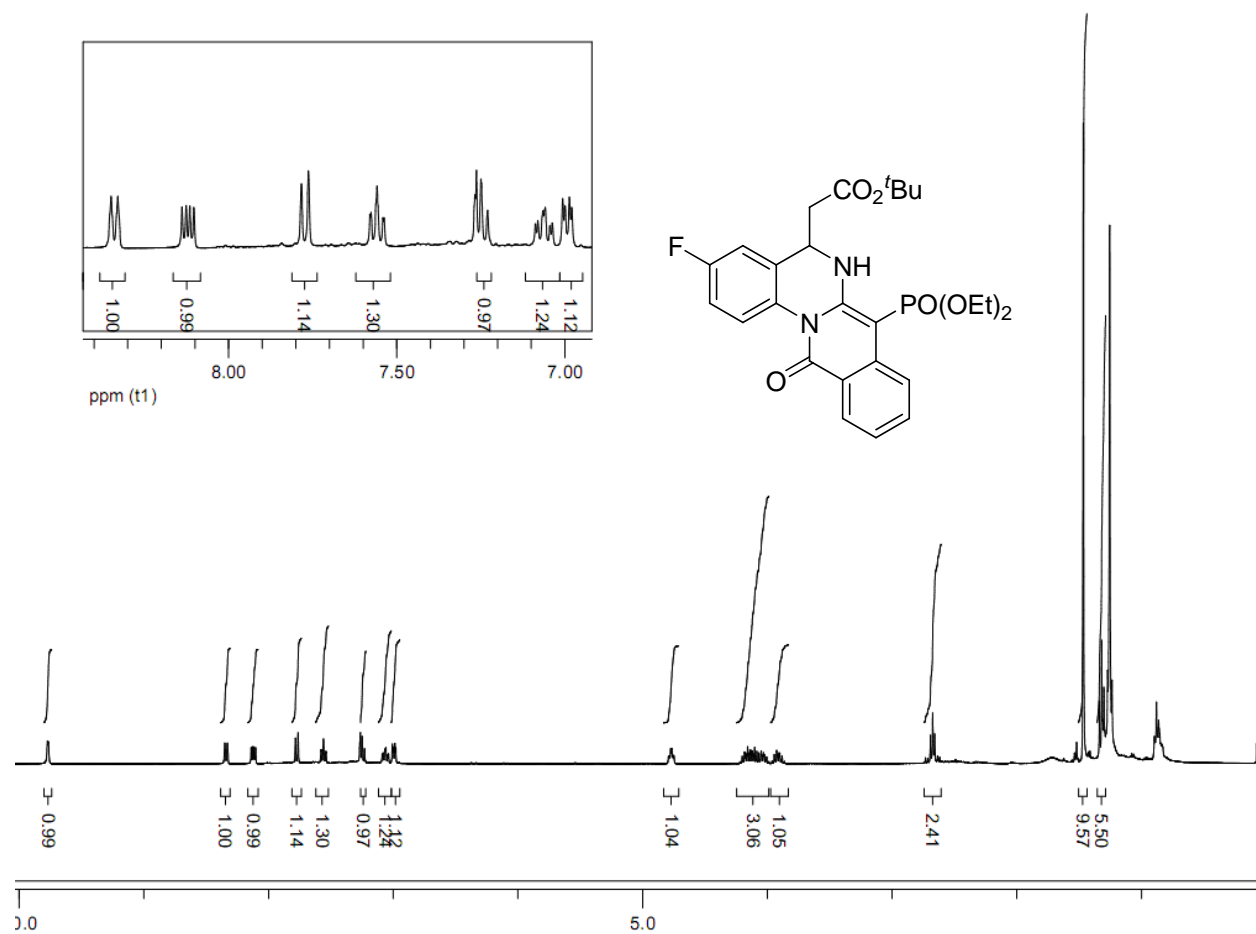


Fig. 52: ¹H NMR spectra of compound **3m** (CDCl₃, 400 MHz)

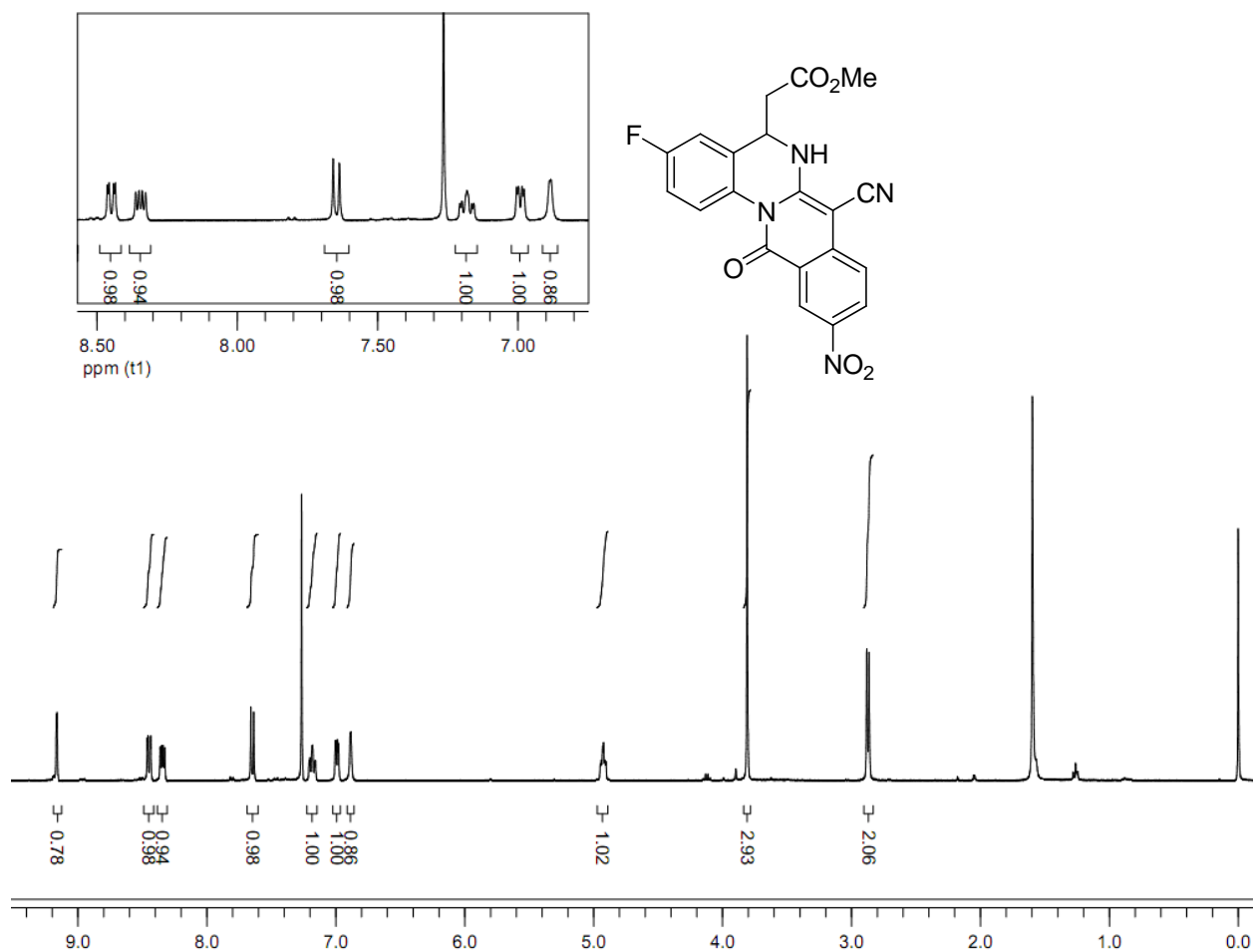


Fig. 54: ^1H NMR spectra of compound **3n** (CDCl_3 , 400 MHz)

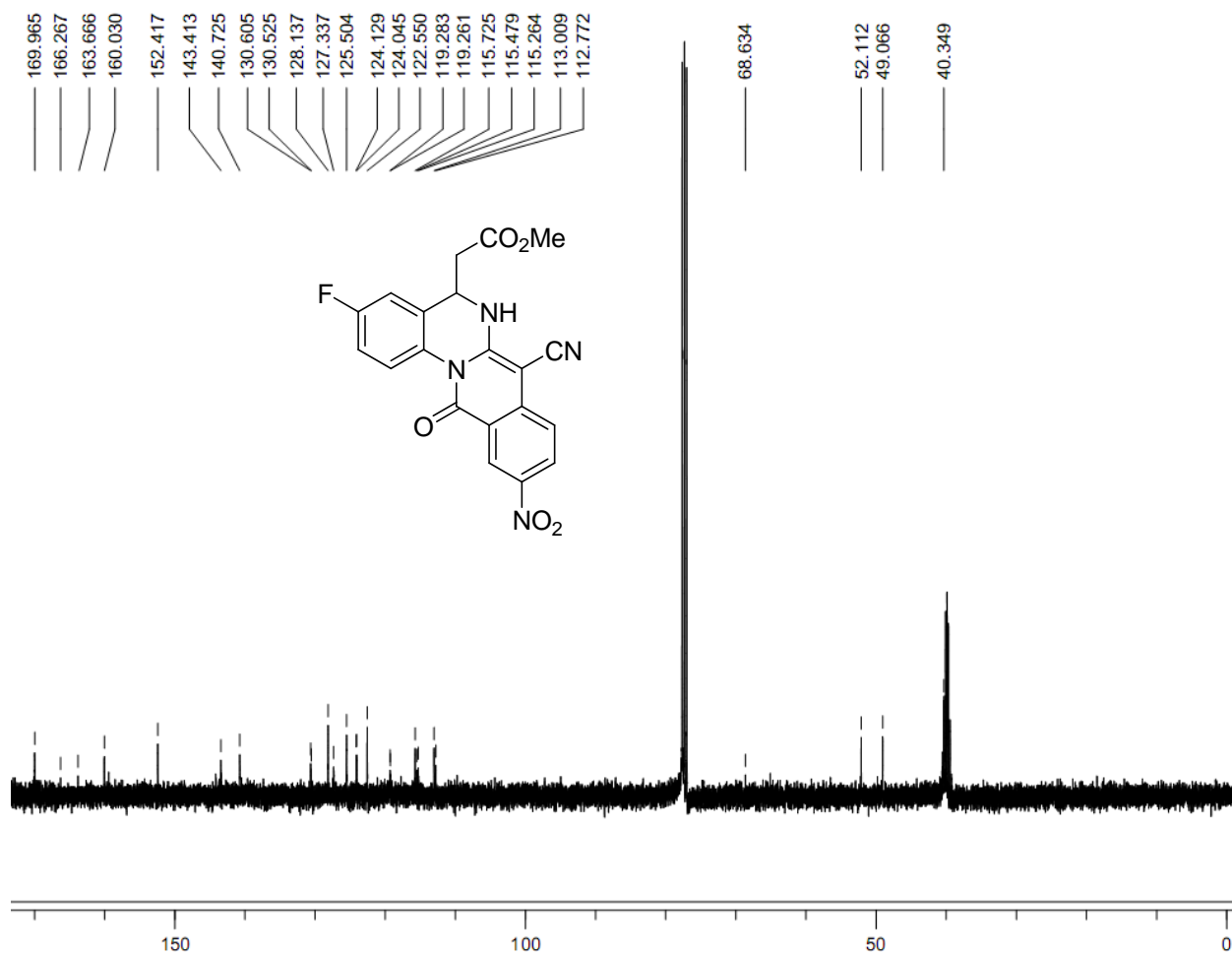


Fig. 55: ¹³C NMR spectra of compound **3n** (CDCl₃ + 1 drop DMSO-*d*₆, 100 MHz)

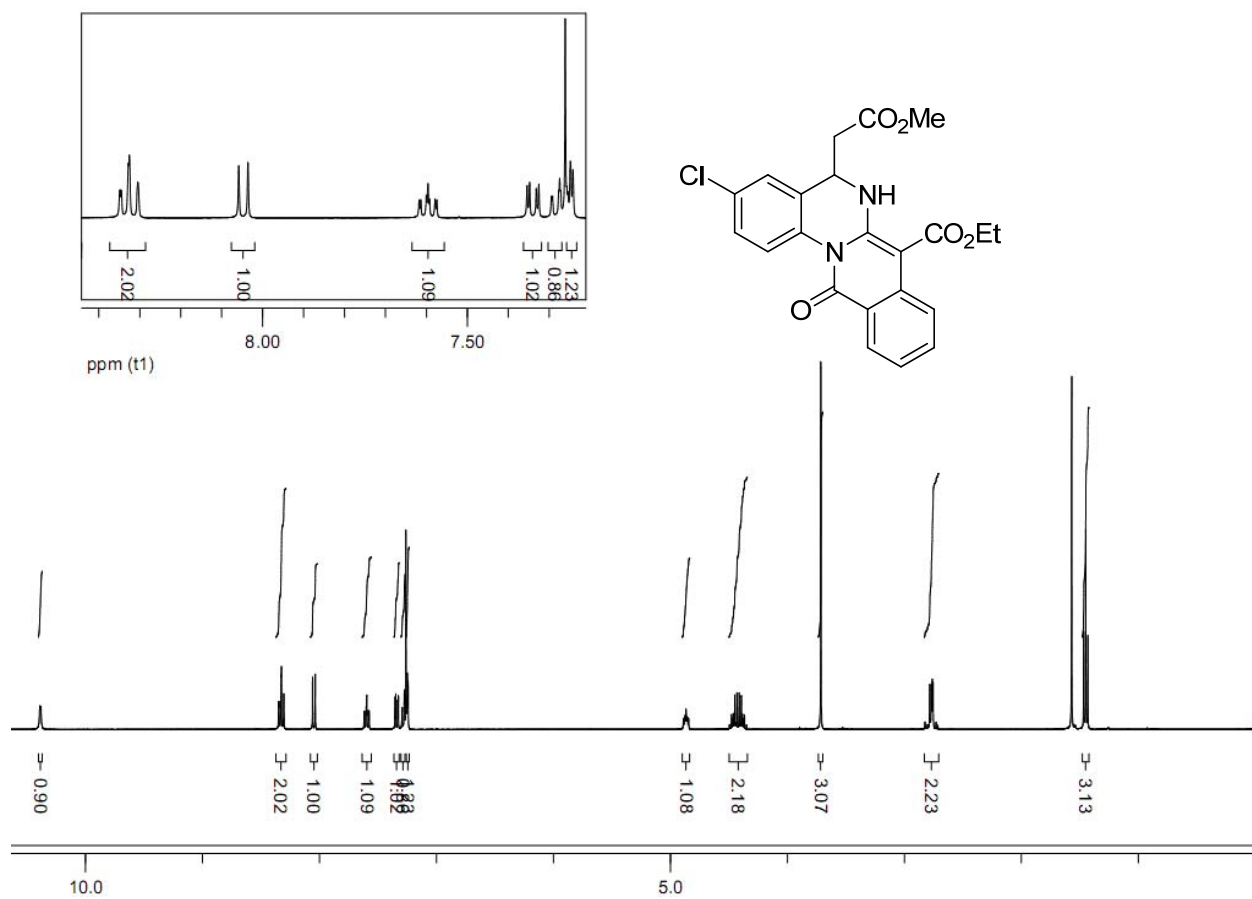


Fig. 56: ¹H NMR spectra of compound **3o** (CDCl₃, 400 MHz)

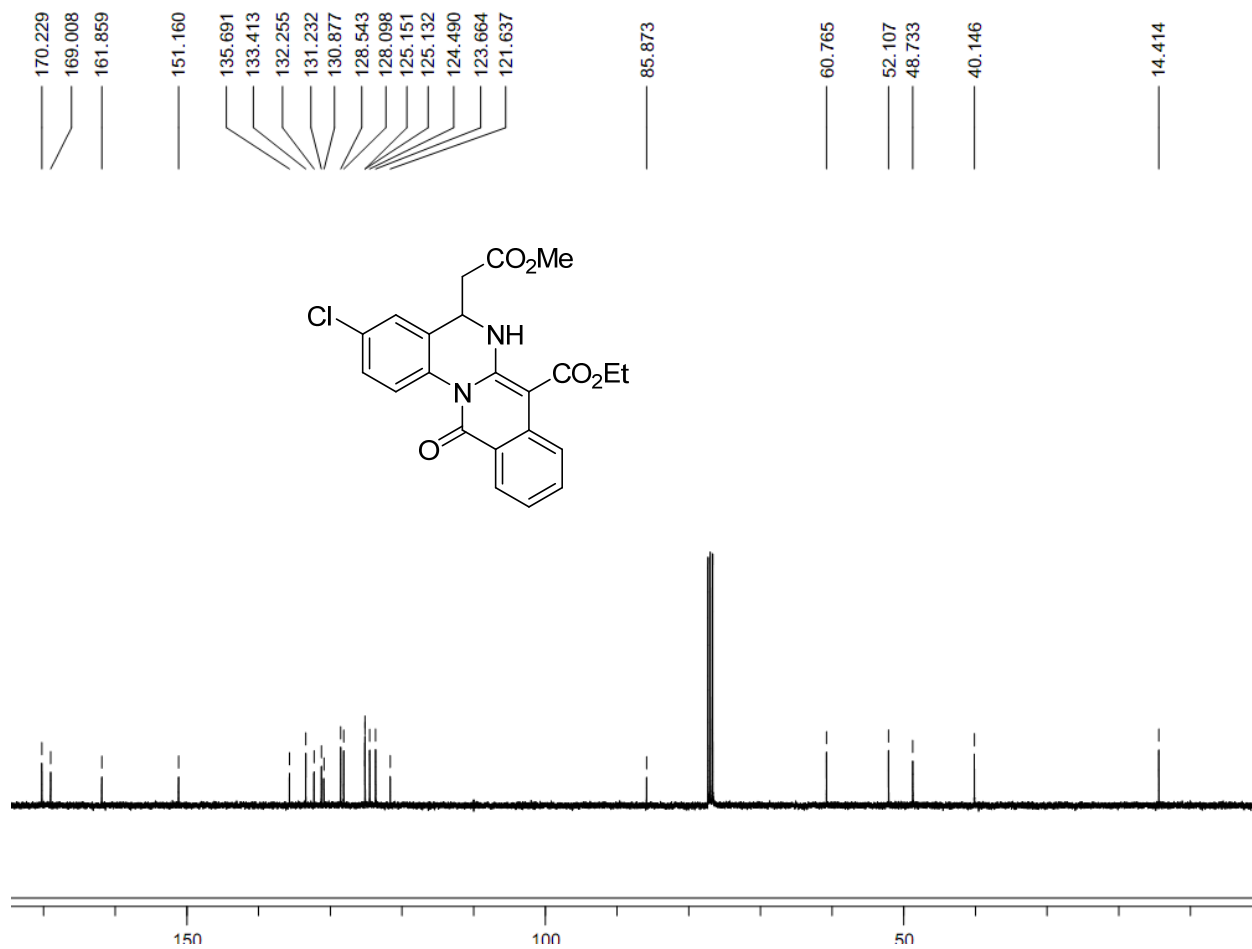


Fig. 57: ^{13}C NMR spectra of compound **3o** (CDCl_3 , 100 MHz)

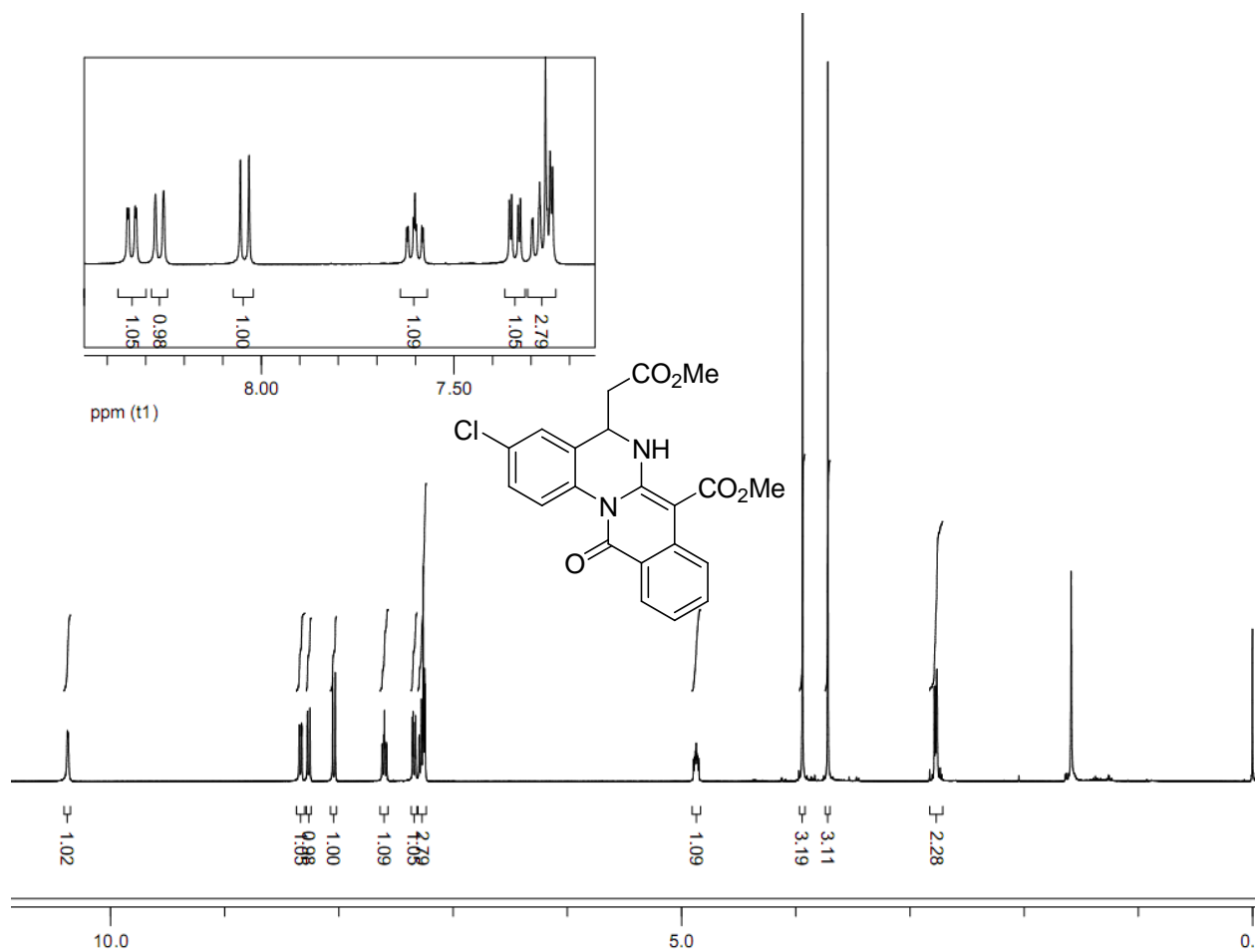


Fig. 58: ¹H NMR spectra of **3p** (CDCl₃, 400 MHz)

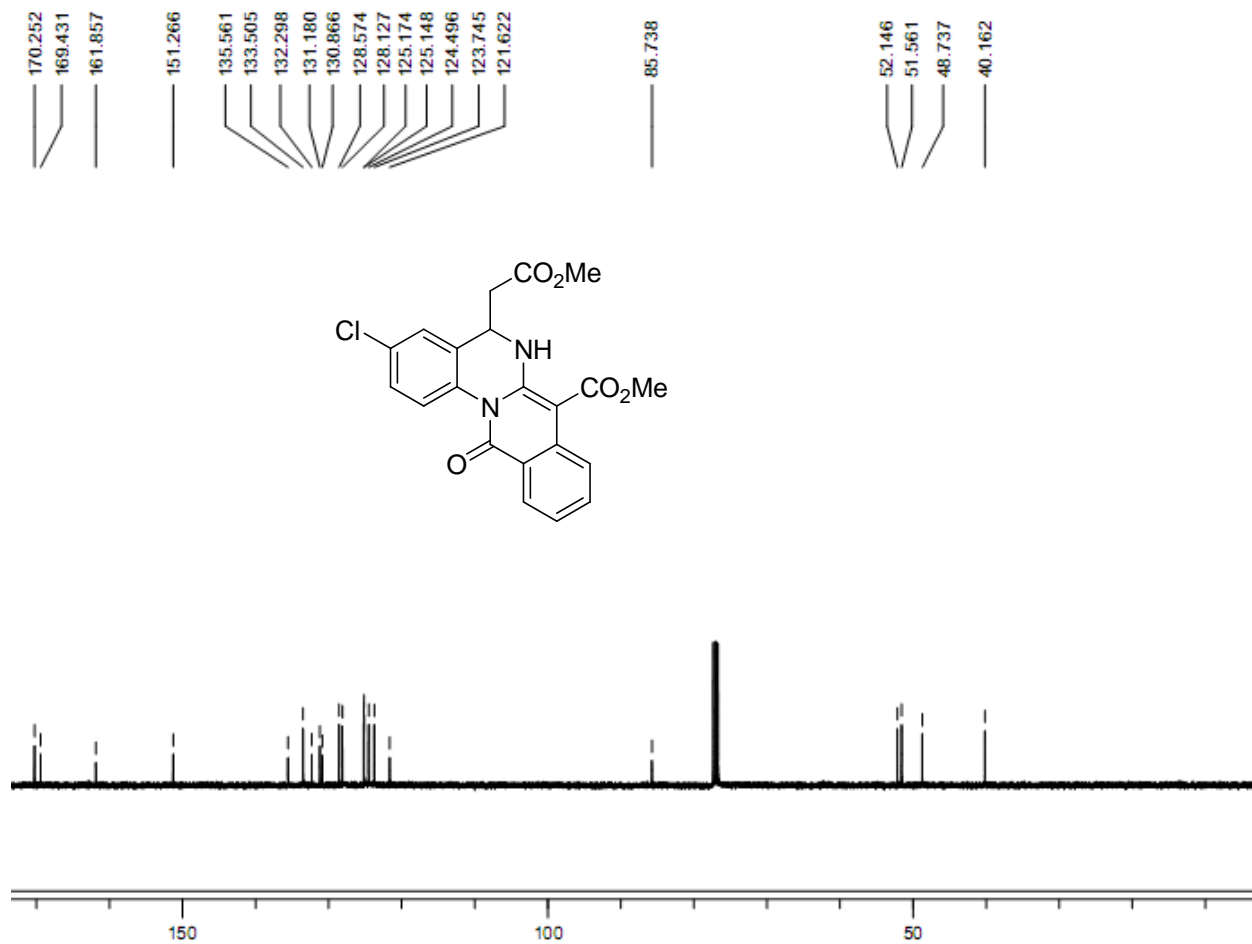


Fig. 59: ¹³C NMR spectra of compound **3p** (CDCl₃, 100 MHz)

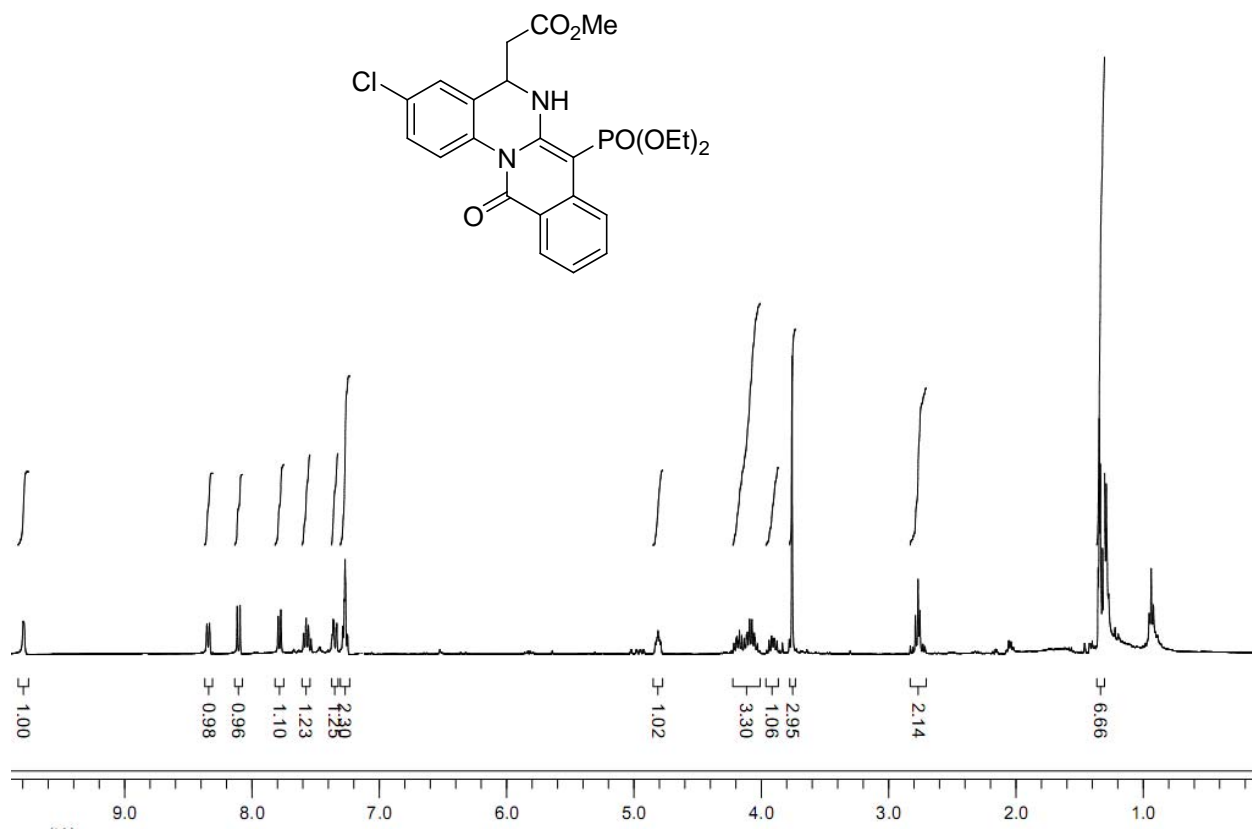


Fig. 60: ¹H NMR spectra of compound **3q** (CDCl₃, 400 MHz)

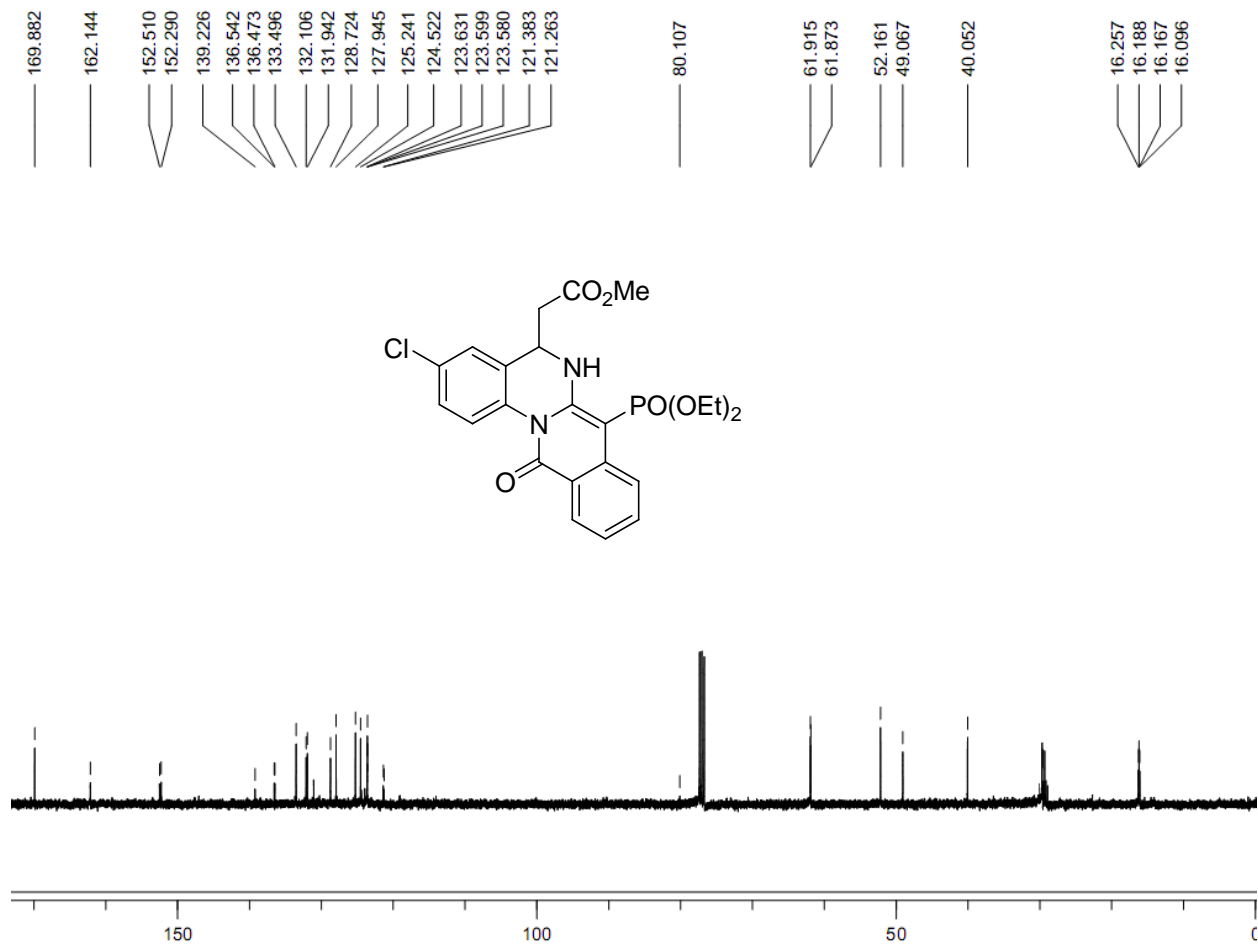


Fig. 61: ¹³C NMR spectra of compound **3q** (CDCl₃, 100 MHz)

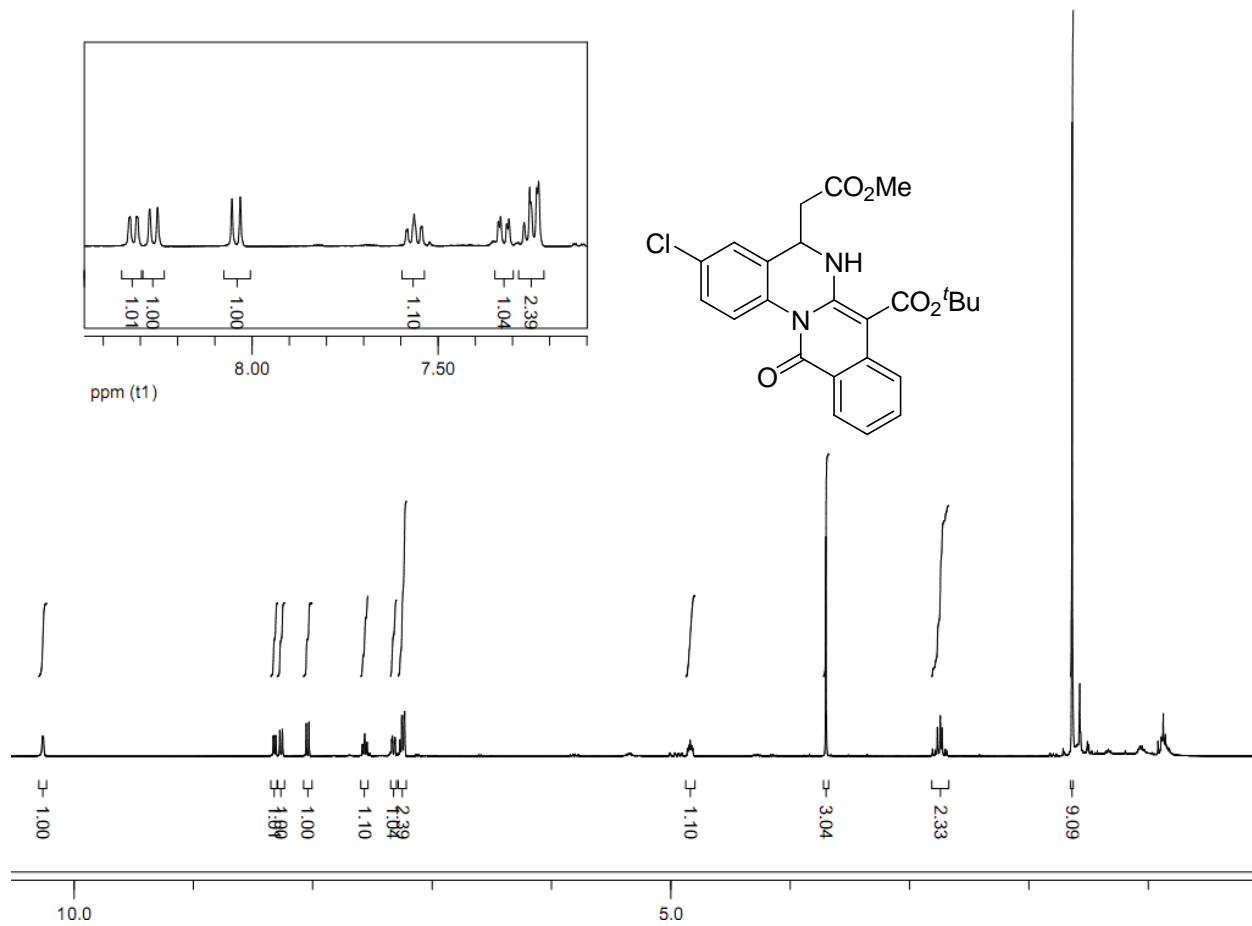


Fig. 62: ^1H NMR spectra of compound **3r** (CDCl_3 , 400 MHz)

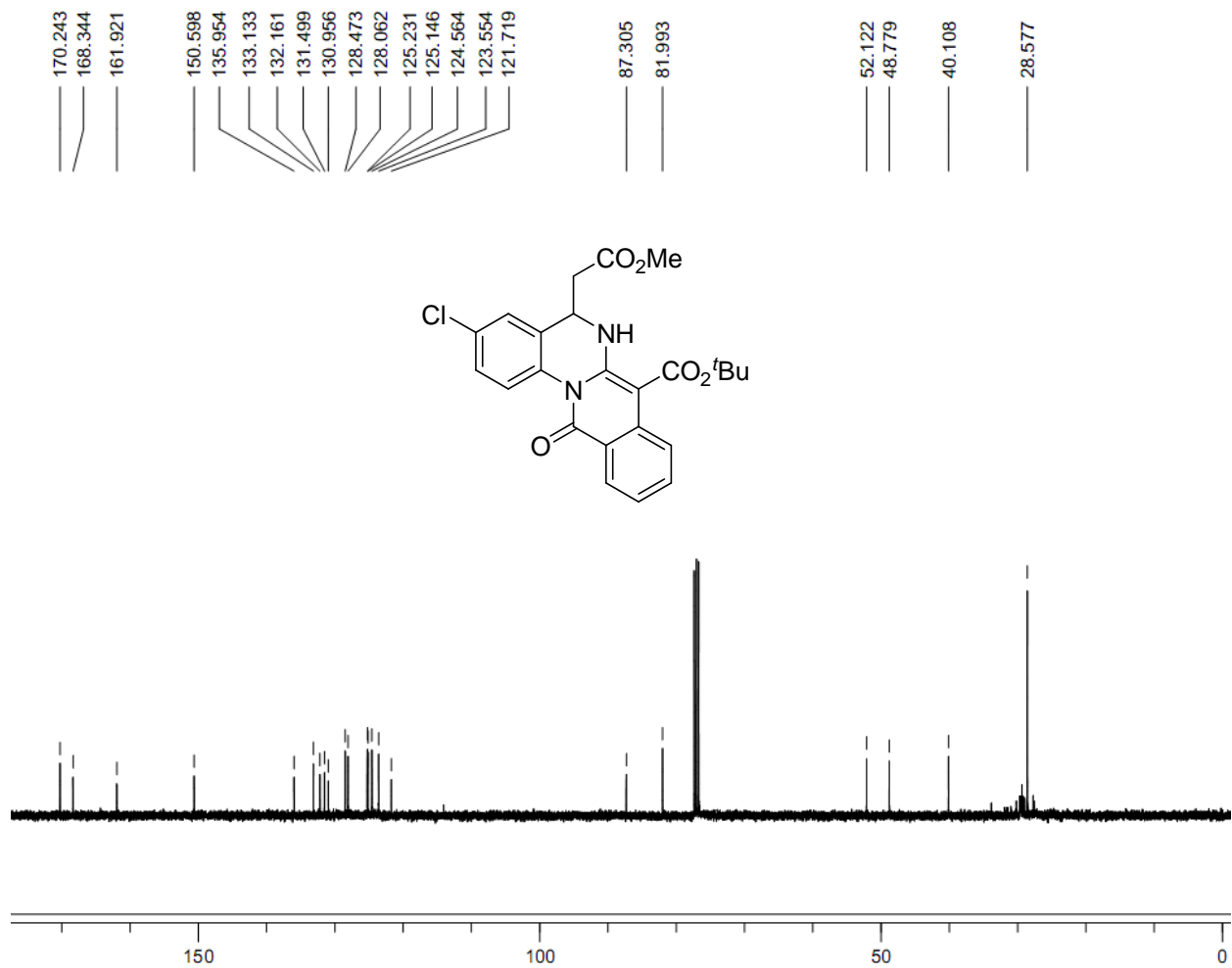


Fig. 63: ^{13}C NMR spectra of compound **3r** (CDCl_3 , 100 MHz)

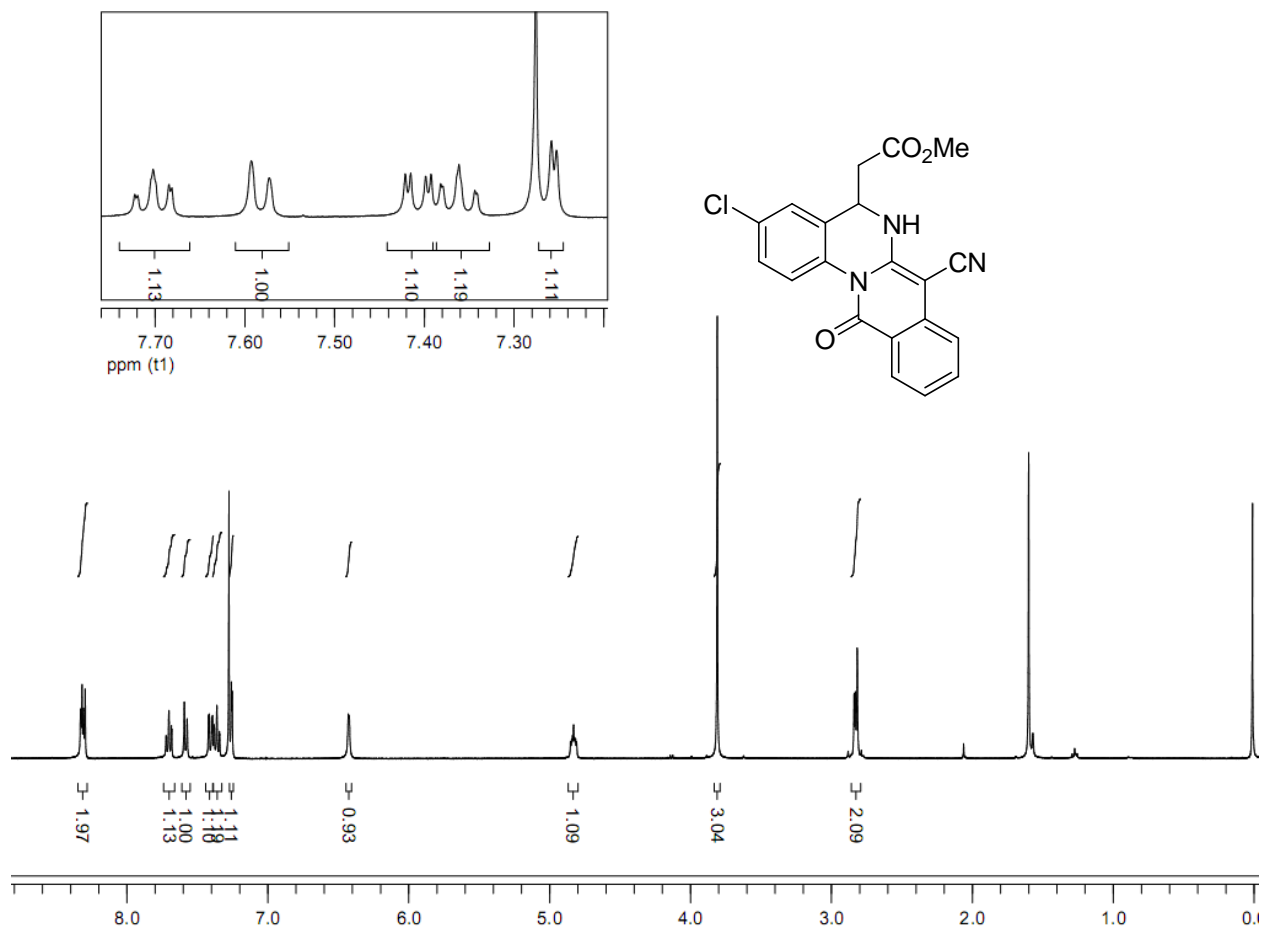


Fig. 64: ¹H NMR spectra of compound **3s** (CDCl₃, 400 MHz)

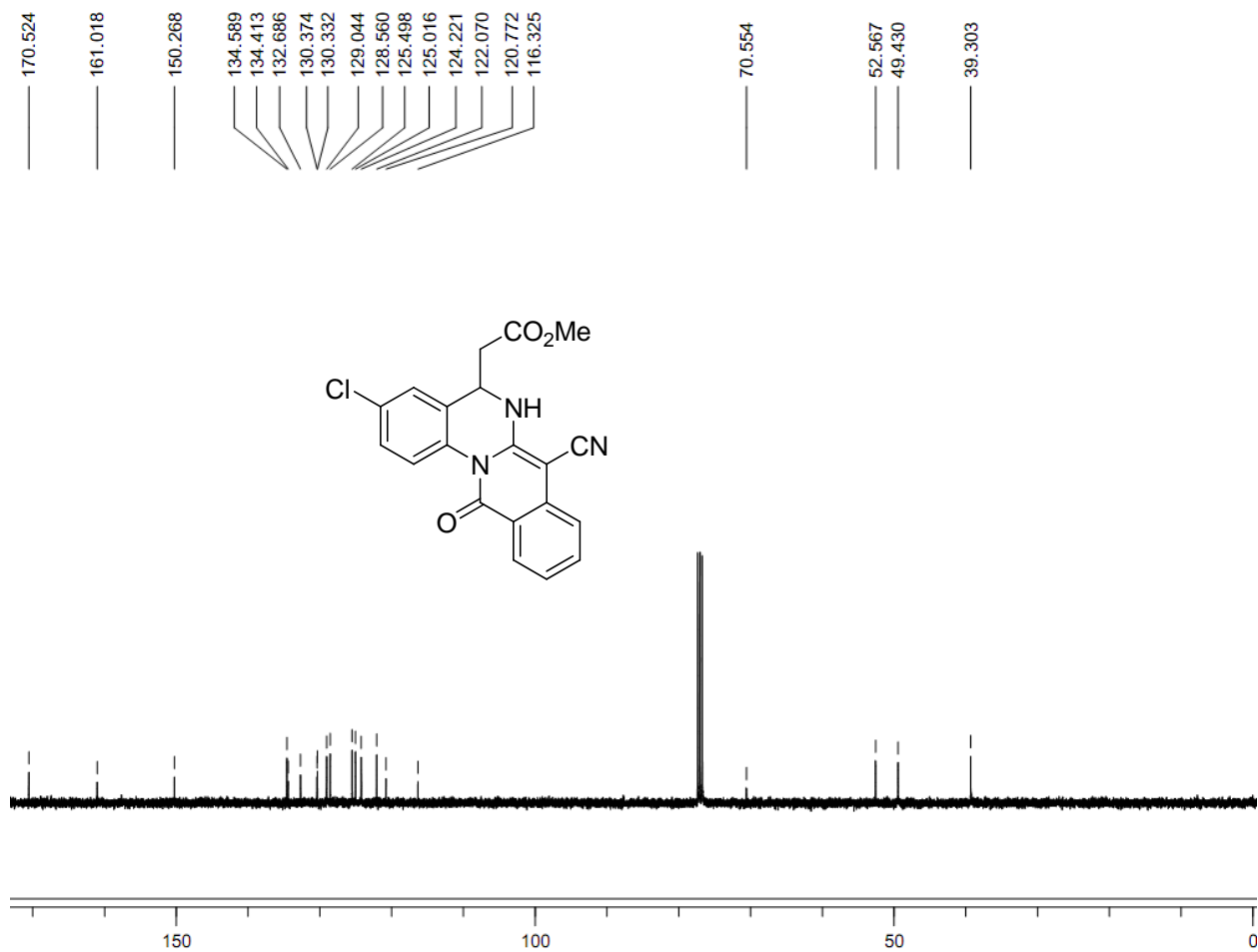


Fig. 65: ^{13}C NMR spectra of compound **3s** (CDCl_3 , 100 MHz)

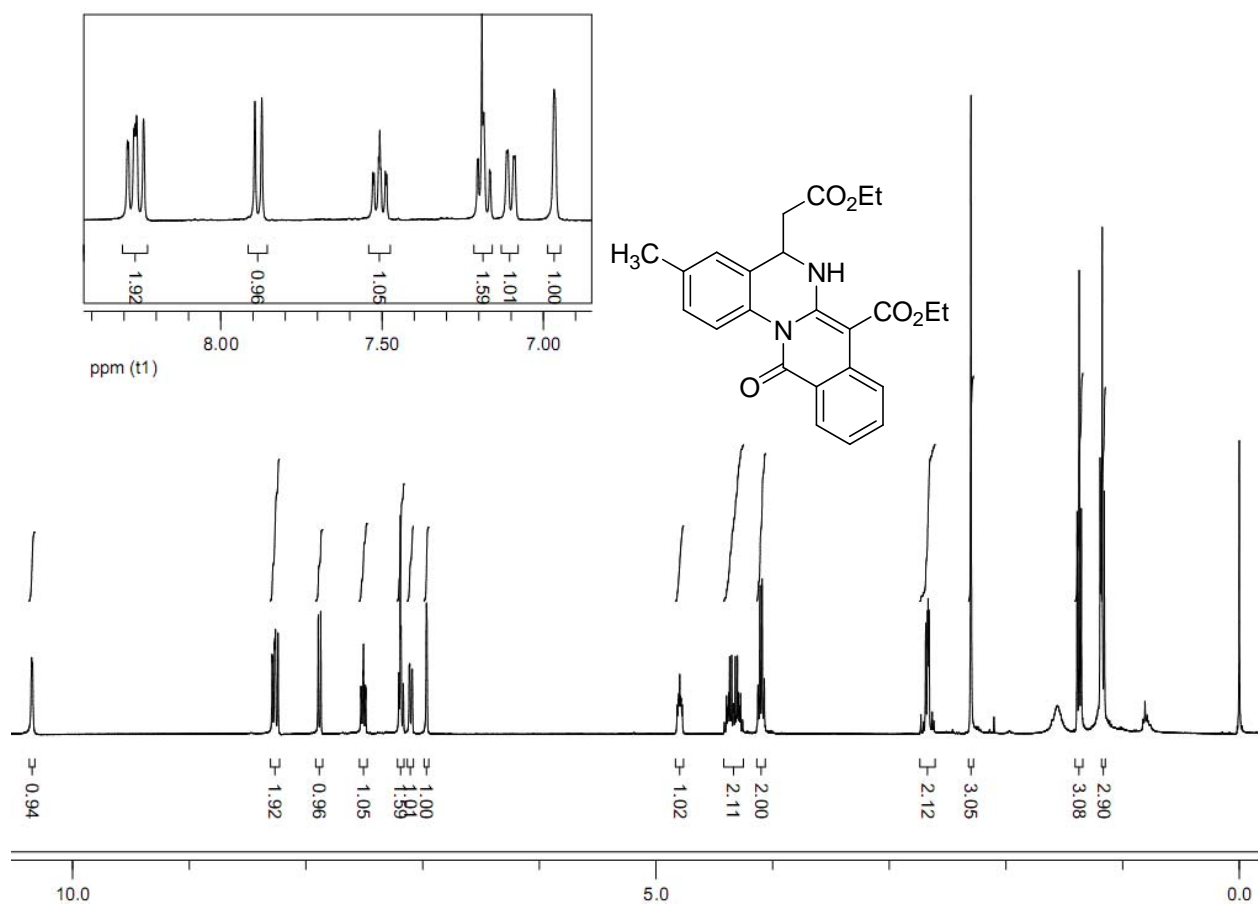


Fig. 66: ^1H NMR spectra of compound **3t** (CDCl_3 , 400 MHz)

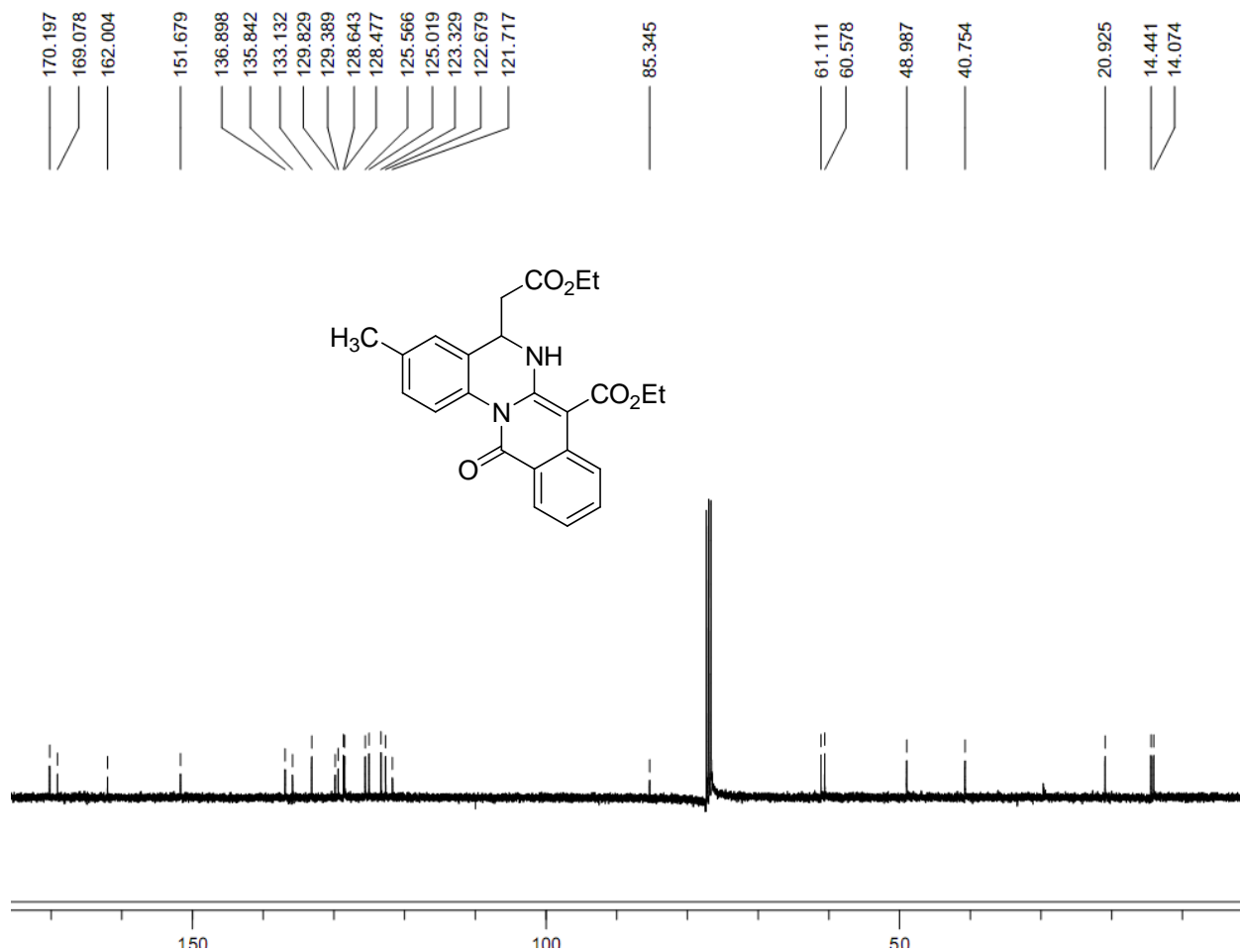


Fig. 67: ^{13}C NMR spectra of compound **3t** (CDCl_3 , 100 MHz)

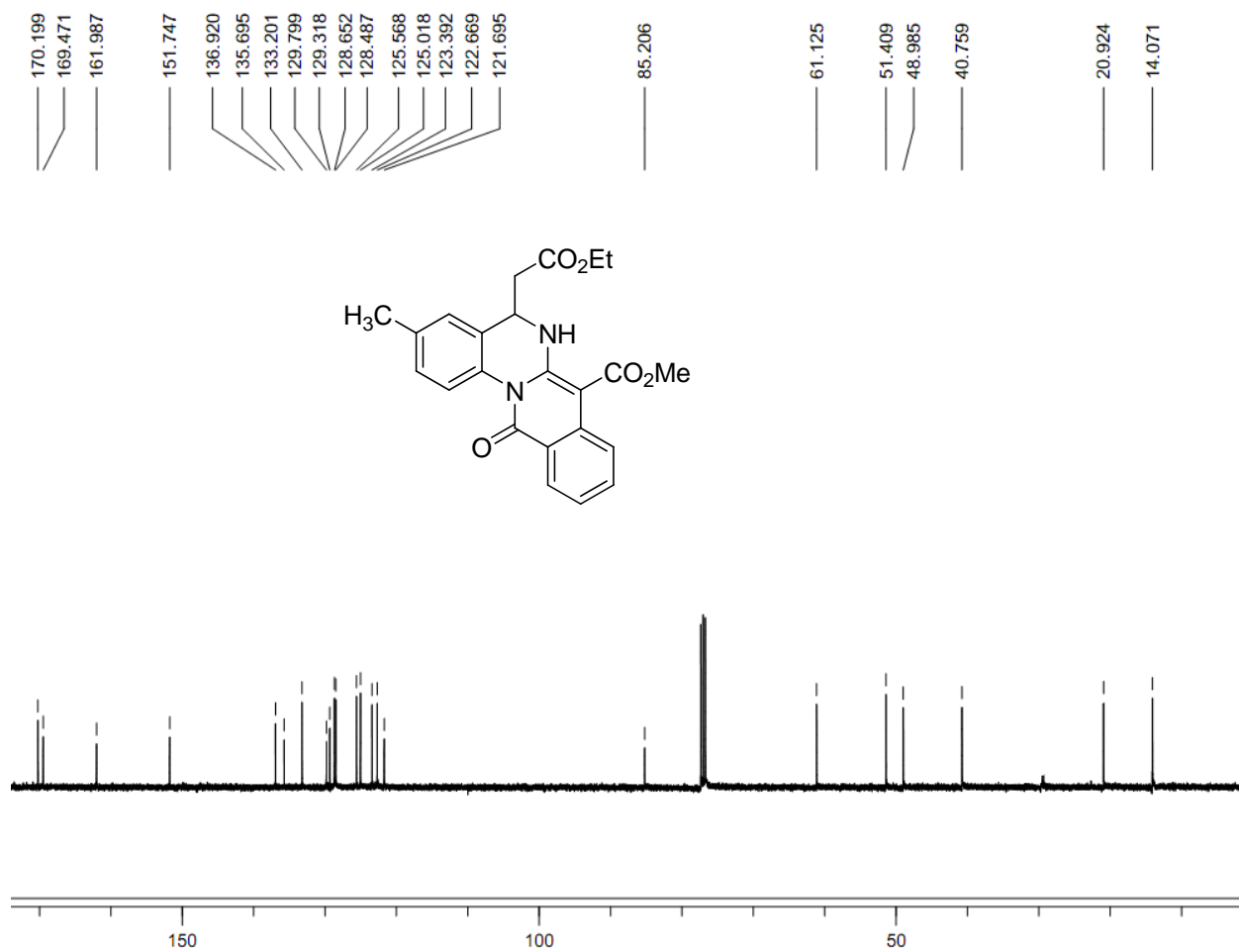


Fig. 69: ^{13}C NMR spectra of compound **3u** (CDCl_3 , 100 MHz)

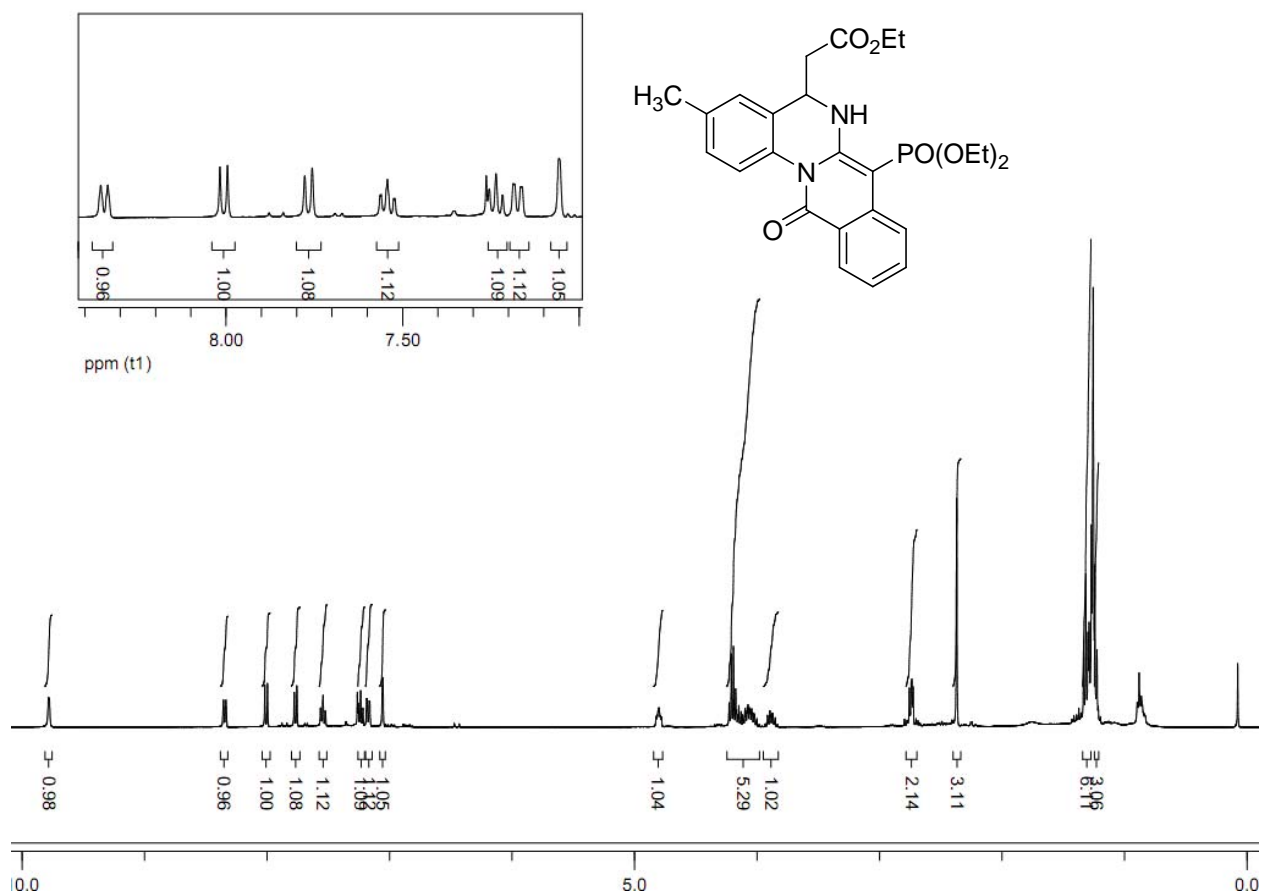


Fig. 70: ¹H NMR spectra of compound **3v** (CDCl₃, 400 MHz)

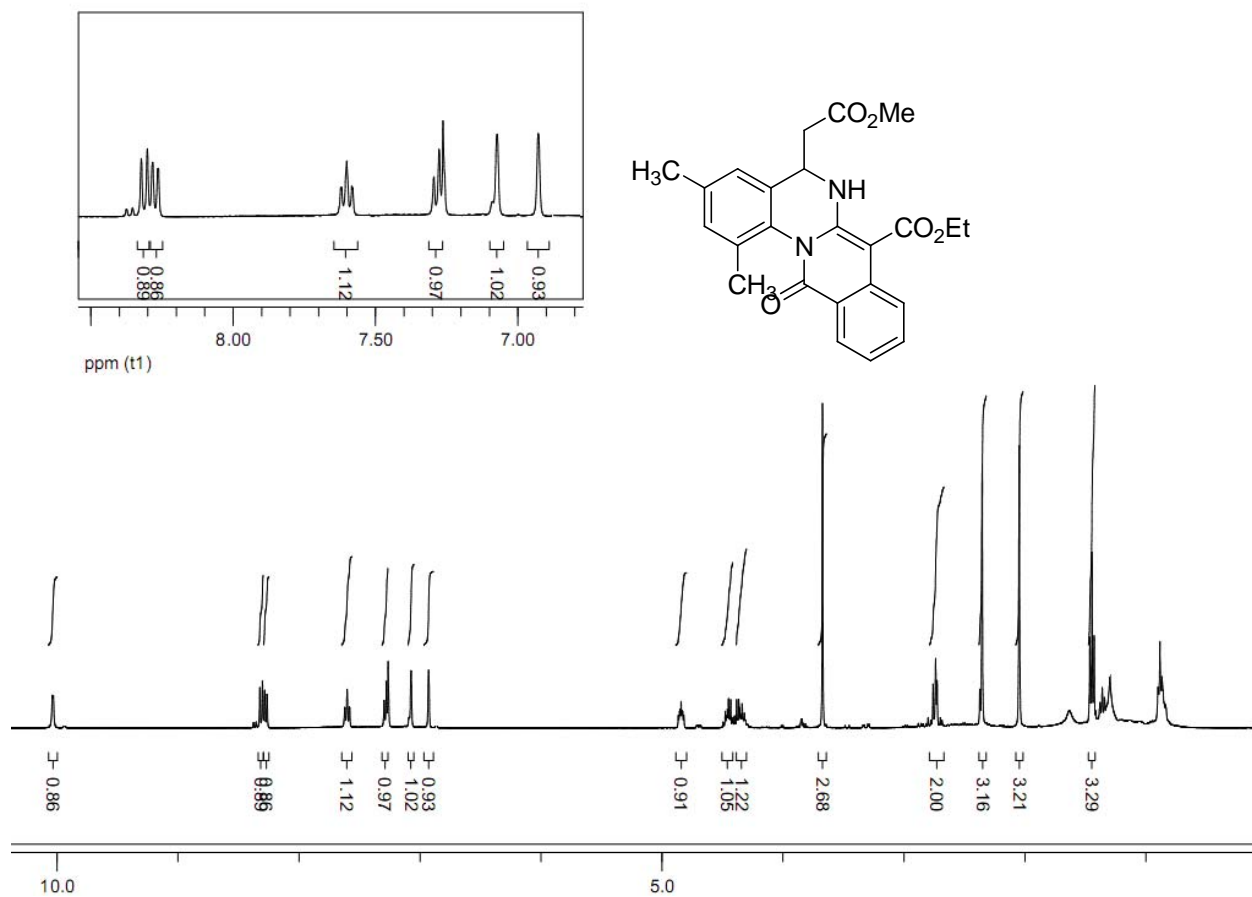


Fig. 72: ^1H NMR spectra of compound **3w** (CDCl_3 , 400 MHz)

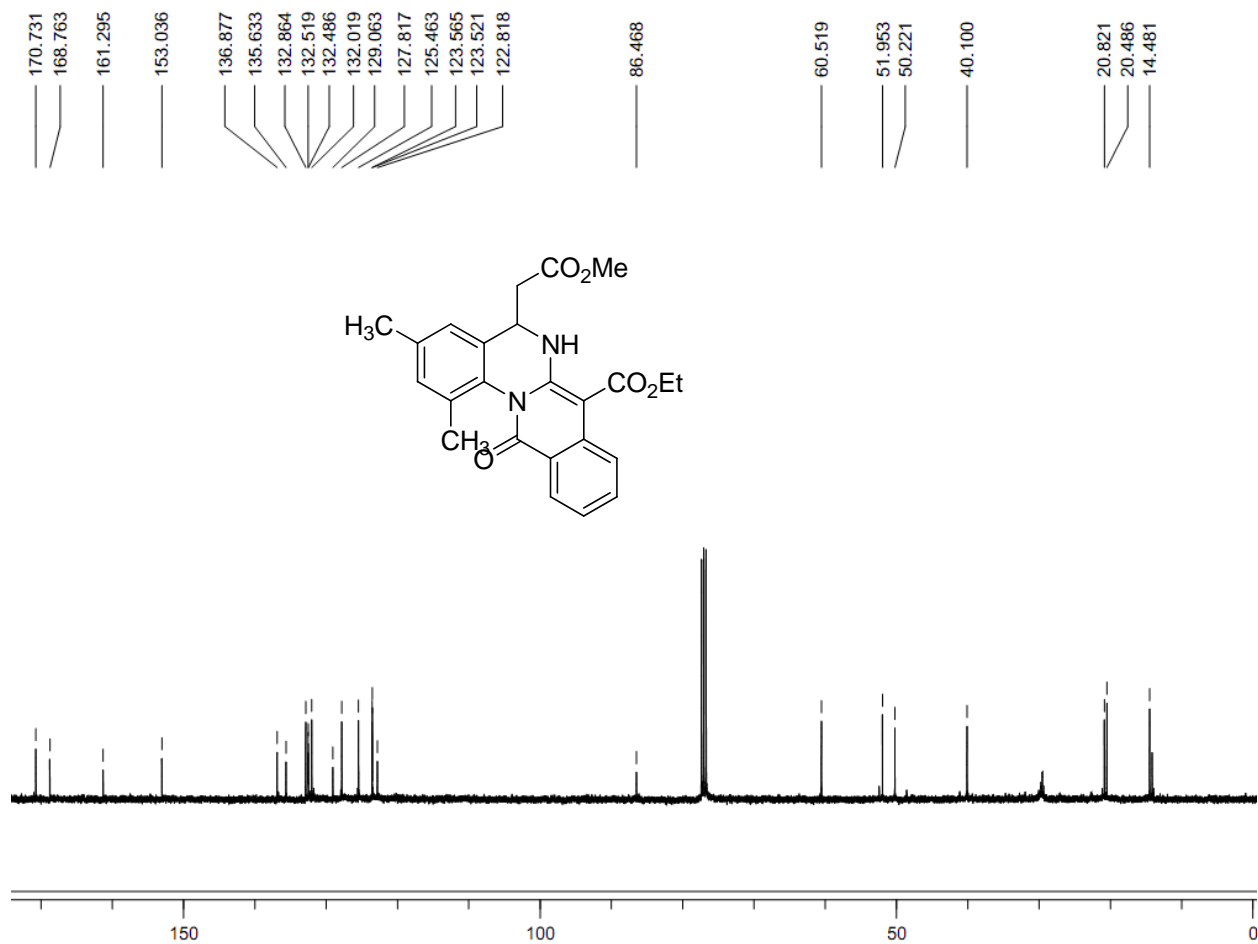


Fig. 73: ^{13}C NMR spectra of compound **3w** (CDCl_3 , 100 MHz)

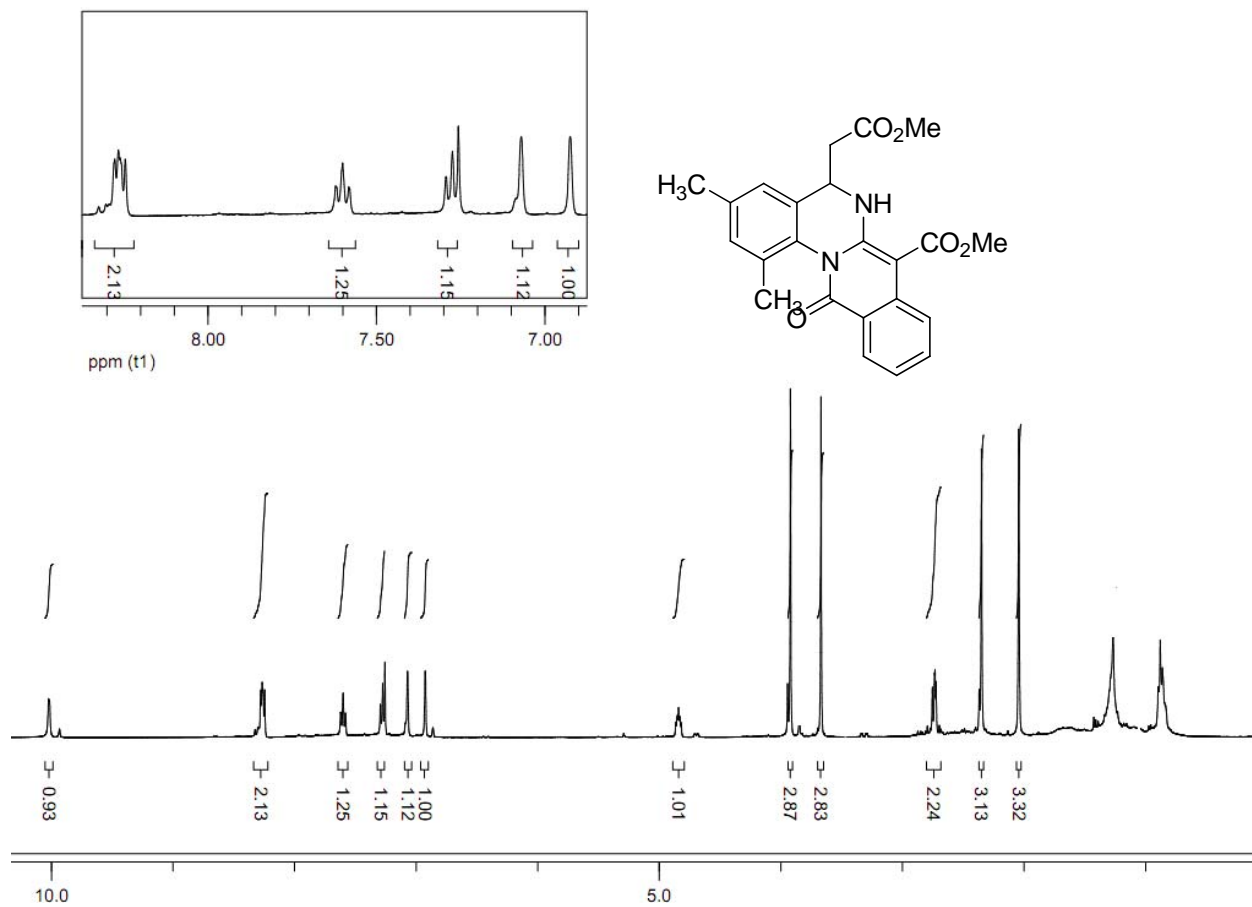


Fig. 74: ¹H NMR spectra of compound **3x** (CDCl₃, 400 MHz)

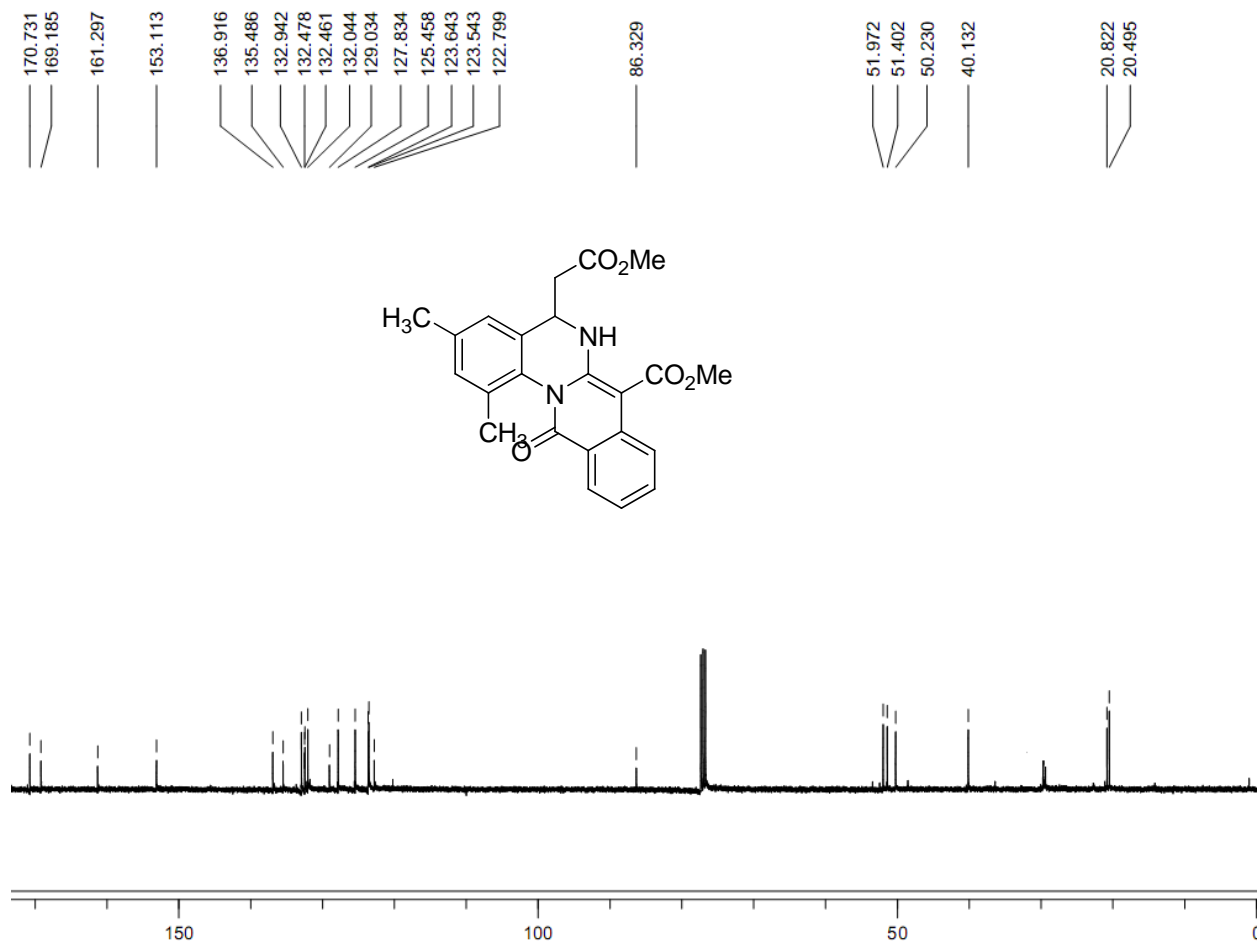


Fig. 75: ¹³C NMR spectra of compound **3x** (CDCl₃, 100 MHz)

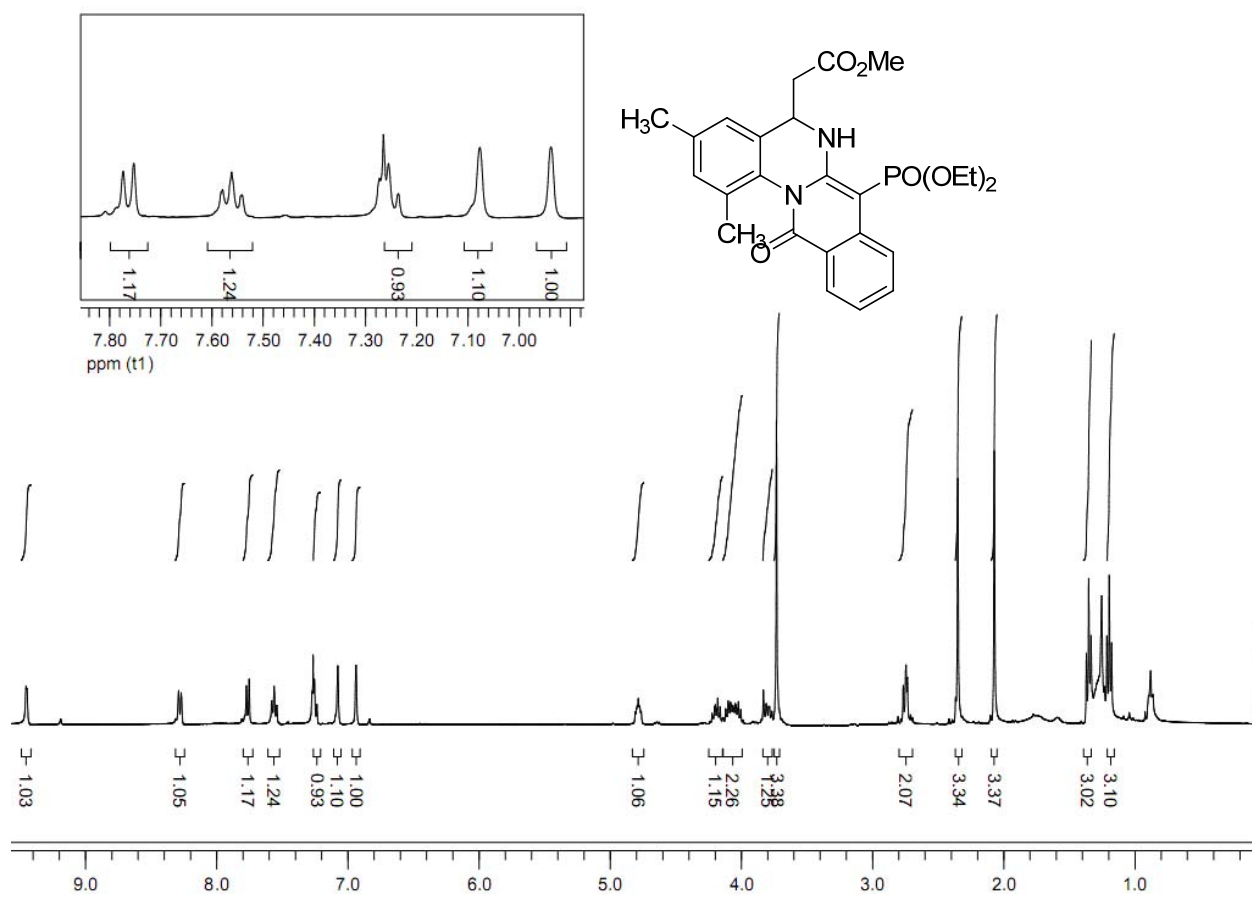


Fig. 76: ^1H NMR spectra of compound **3y** (CDCl_3 , 400 MHz)

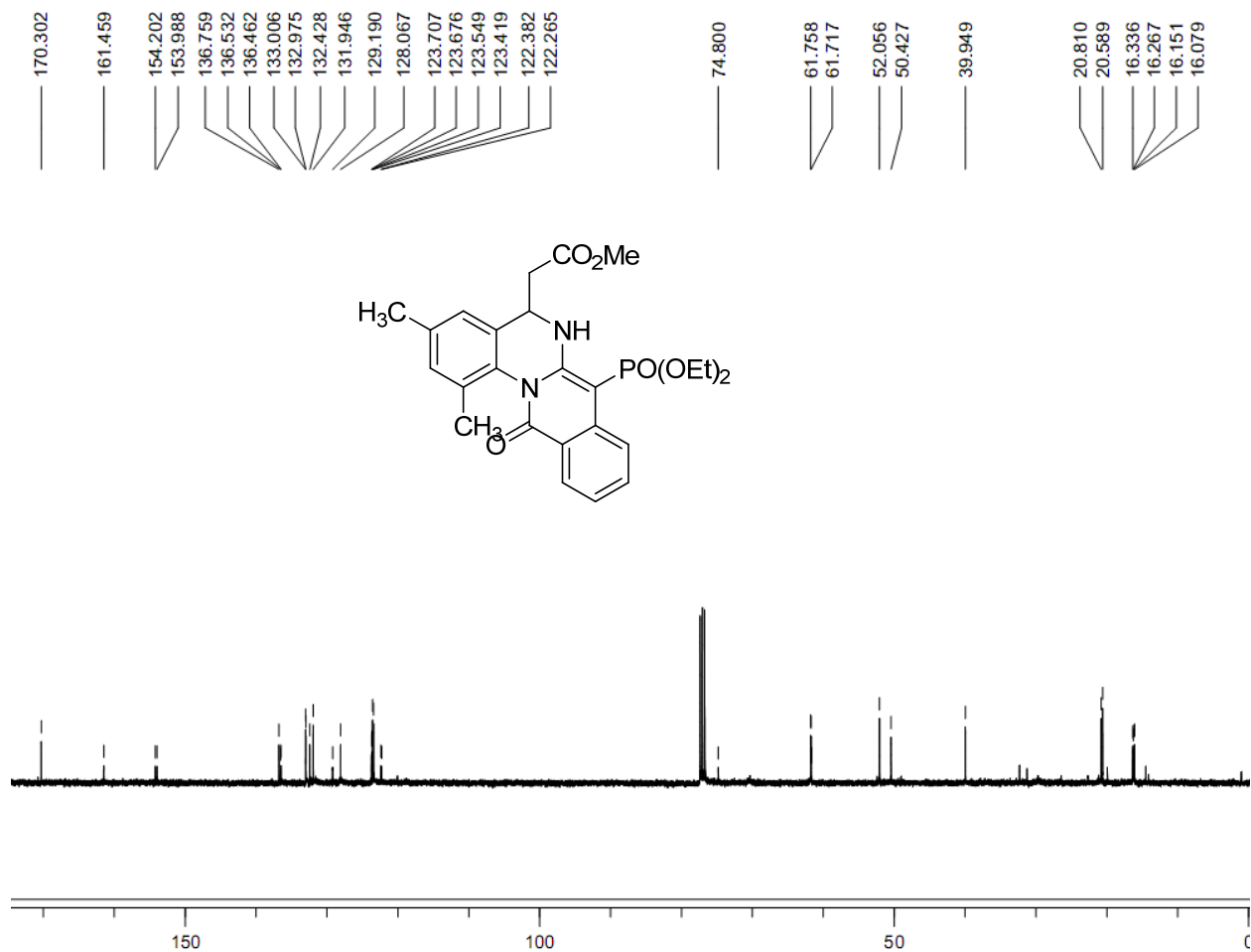


Fig. 77: ¹³C NMR spectra of compound **3y** (CDCl₃, 100 MHz)

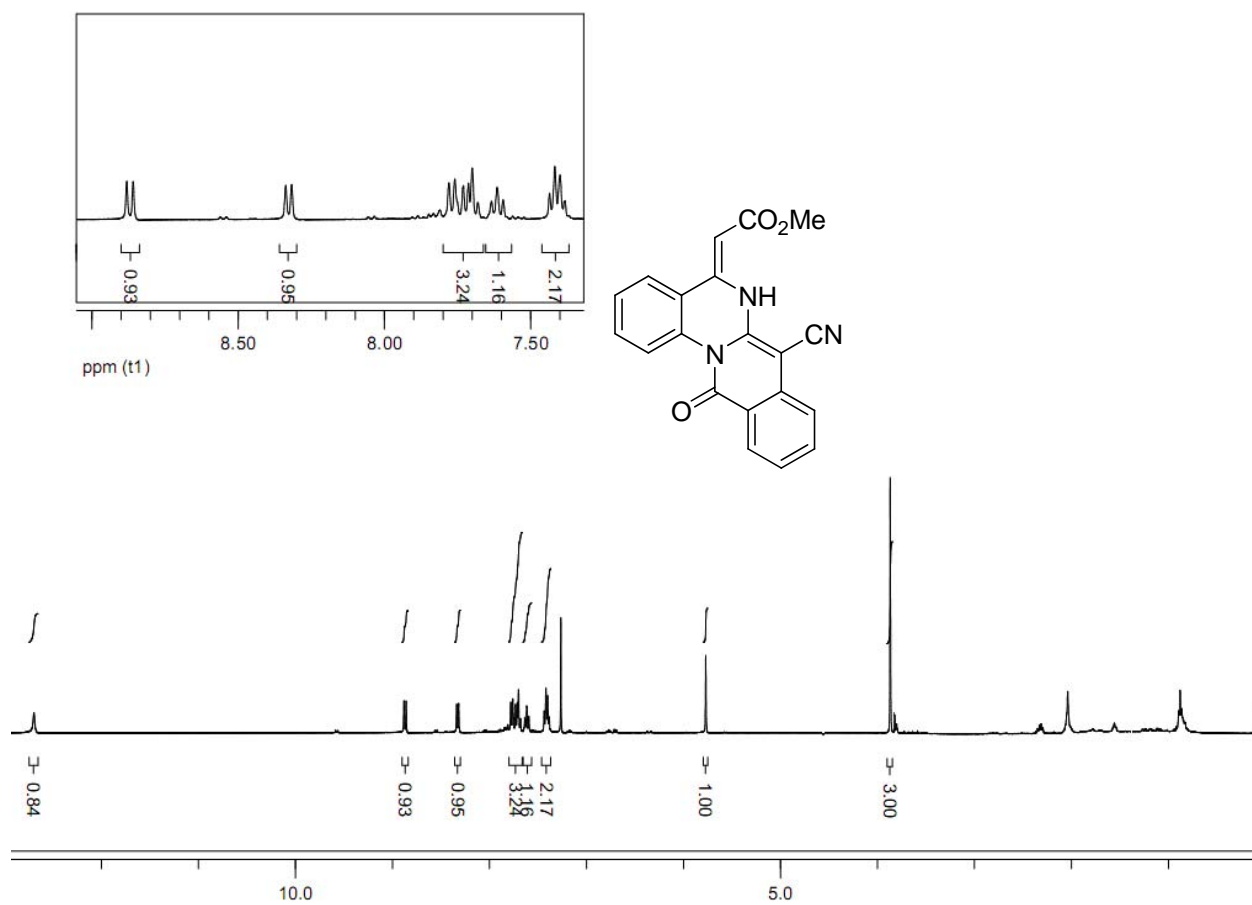


Fig. 78: ¹H NMR spectra of compound **4a** (CDCl₃, 400 MHz)

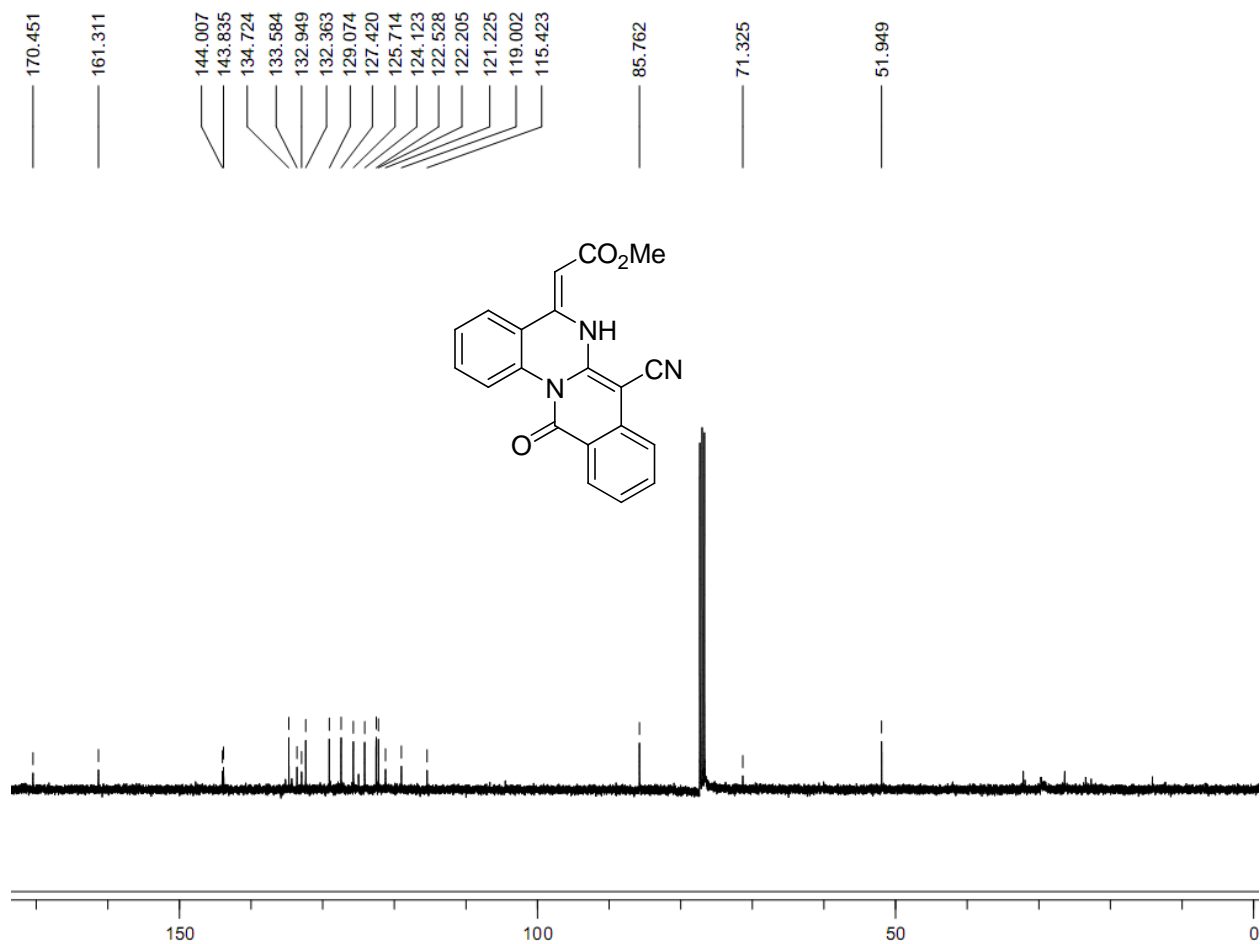


Fig. 79: ¹³C NMR spectra of compound **4a** (CDCl₃, 100 MHz)

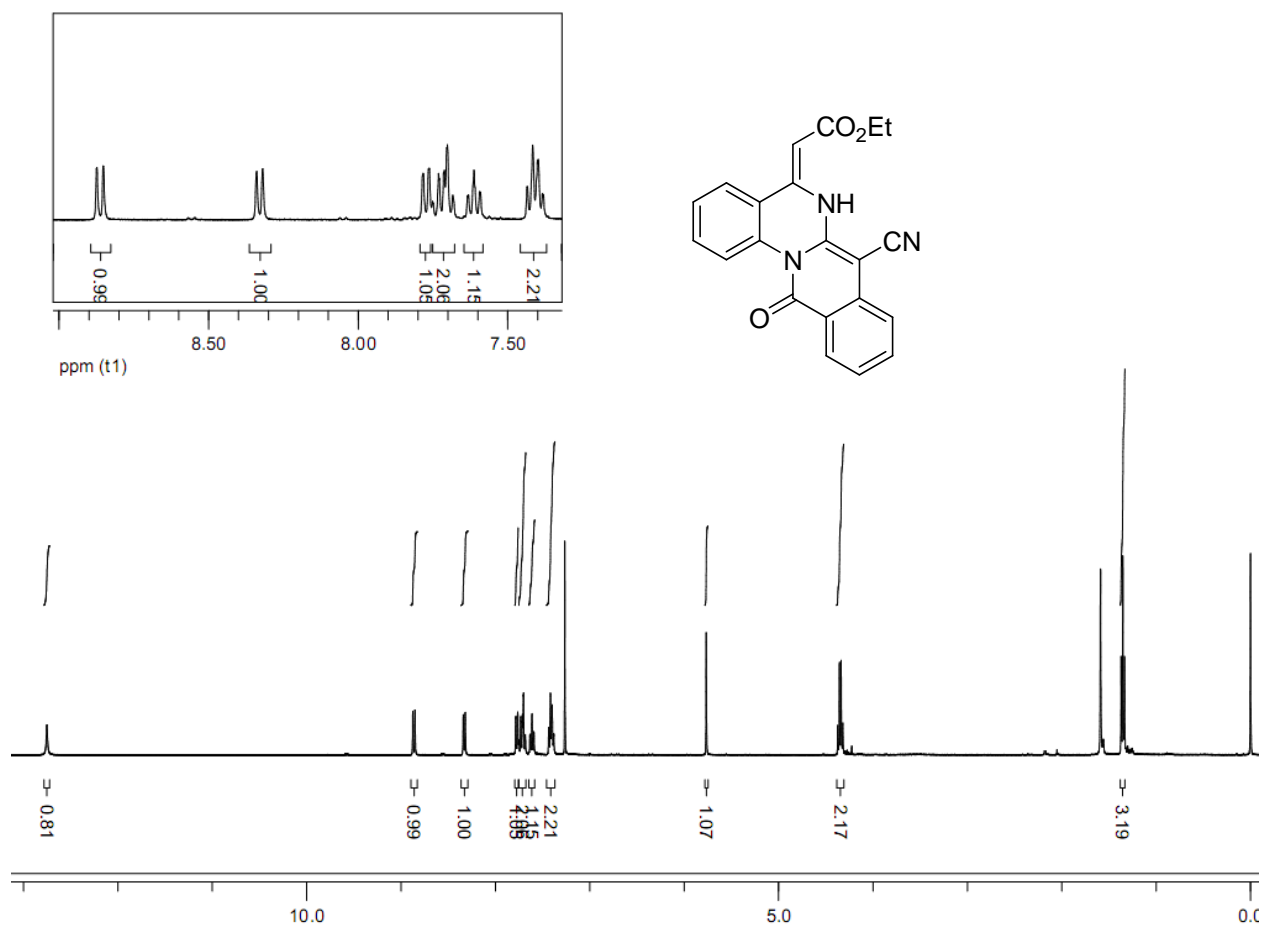


Fig. 80: ¹H NMR spectra of compound **4b** (CDCl₃, 400 MHz)

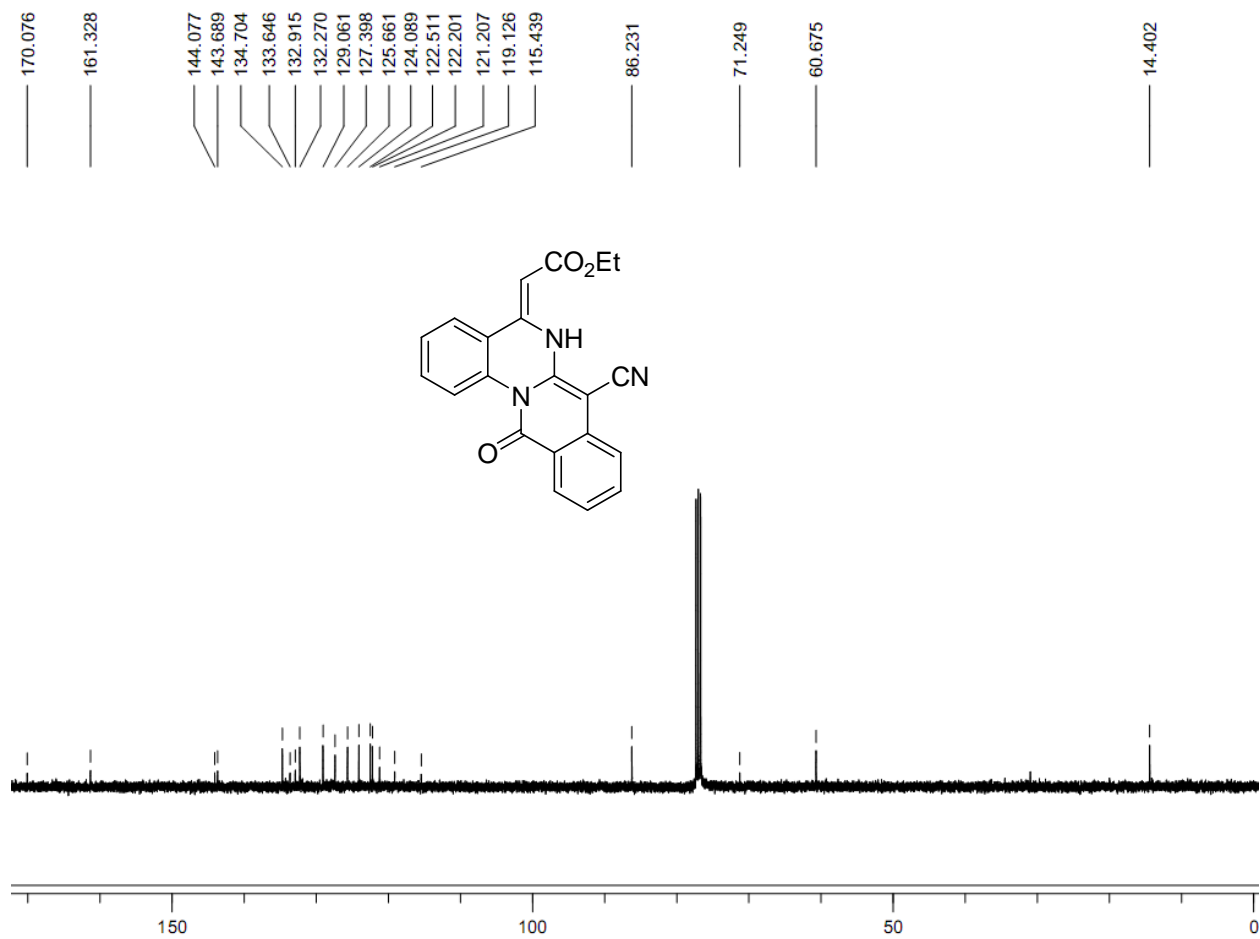


Fig. 81: ^{13}C NMR spectra of compound **4b** (CDCl_3 , 100 MHz)

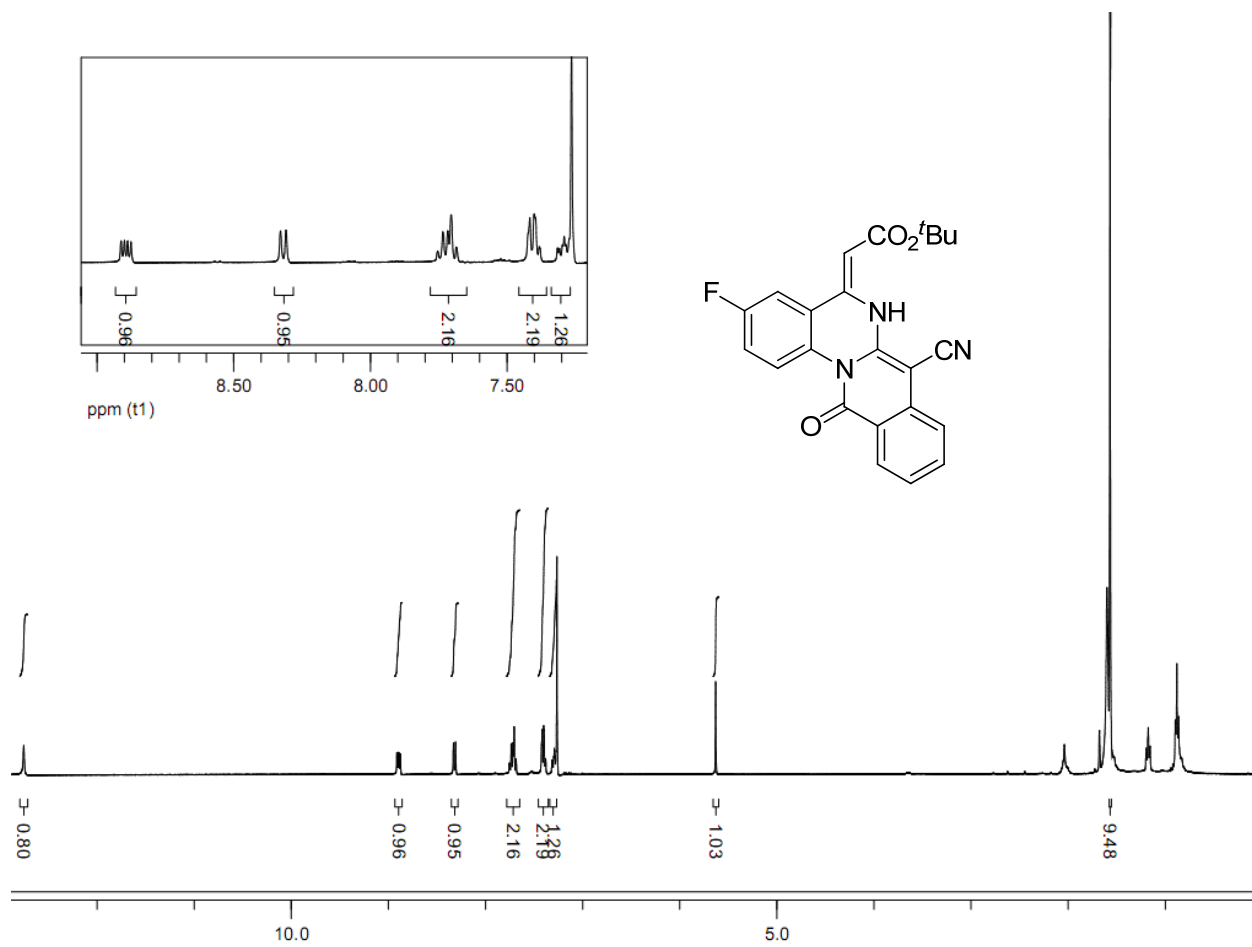


Fig. 82: ^1H NMR spectra of compound **4c** (CDCl_3 , 400 MHz)

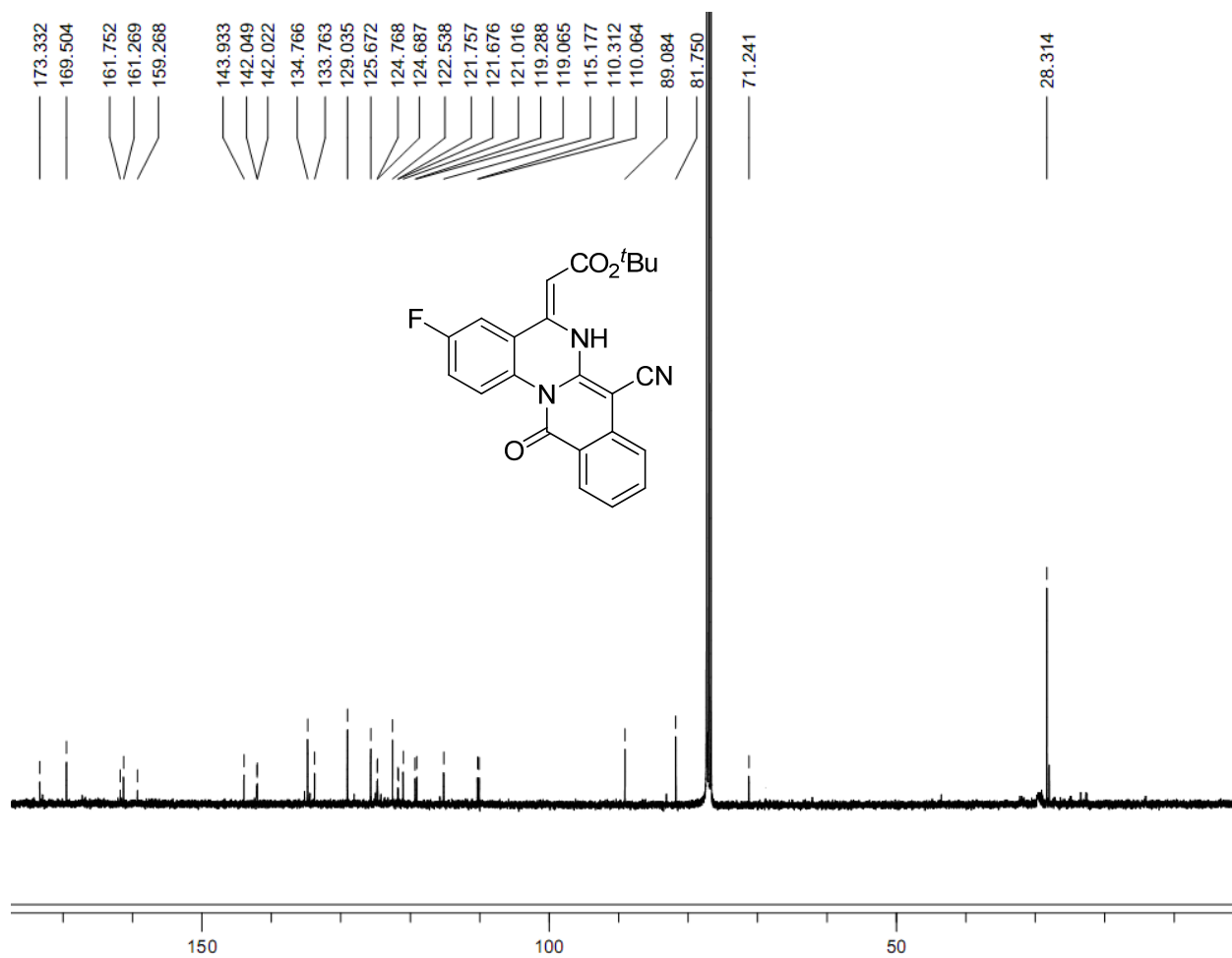


Fig. 83: ^{13}C NMR spectra of compound **4c** (CDCl_3 , 100 MHz)

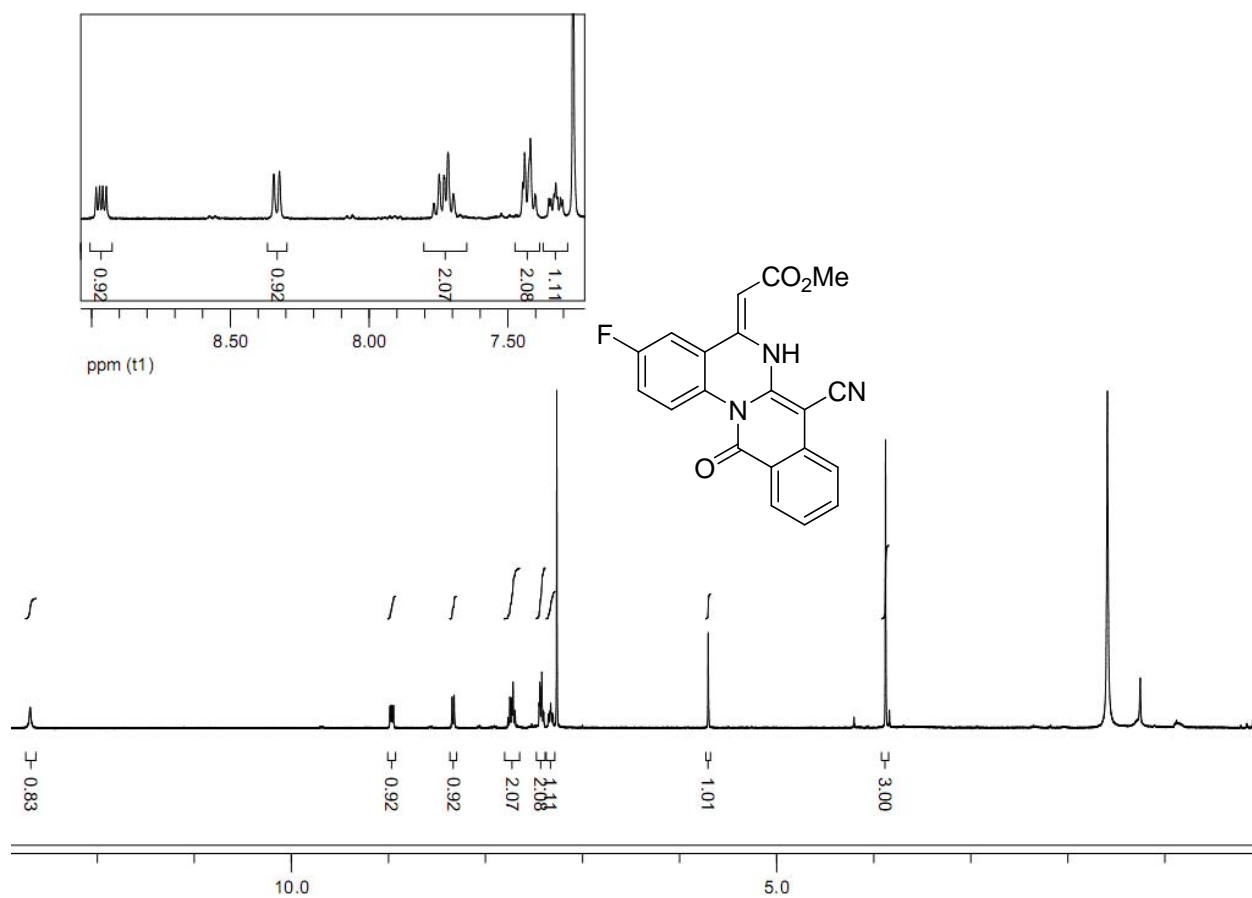


Fig. 84: ^1H NMR spectra of compound **4d** (CDCl_3 , 400 MHz)

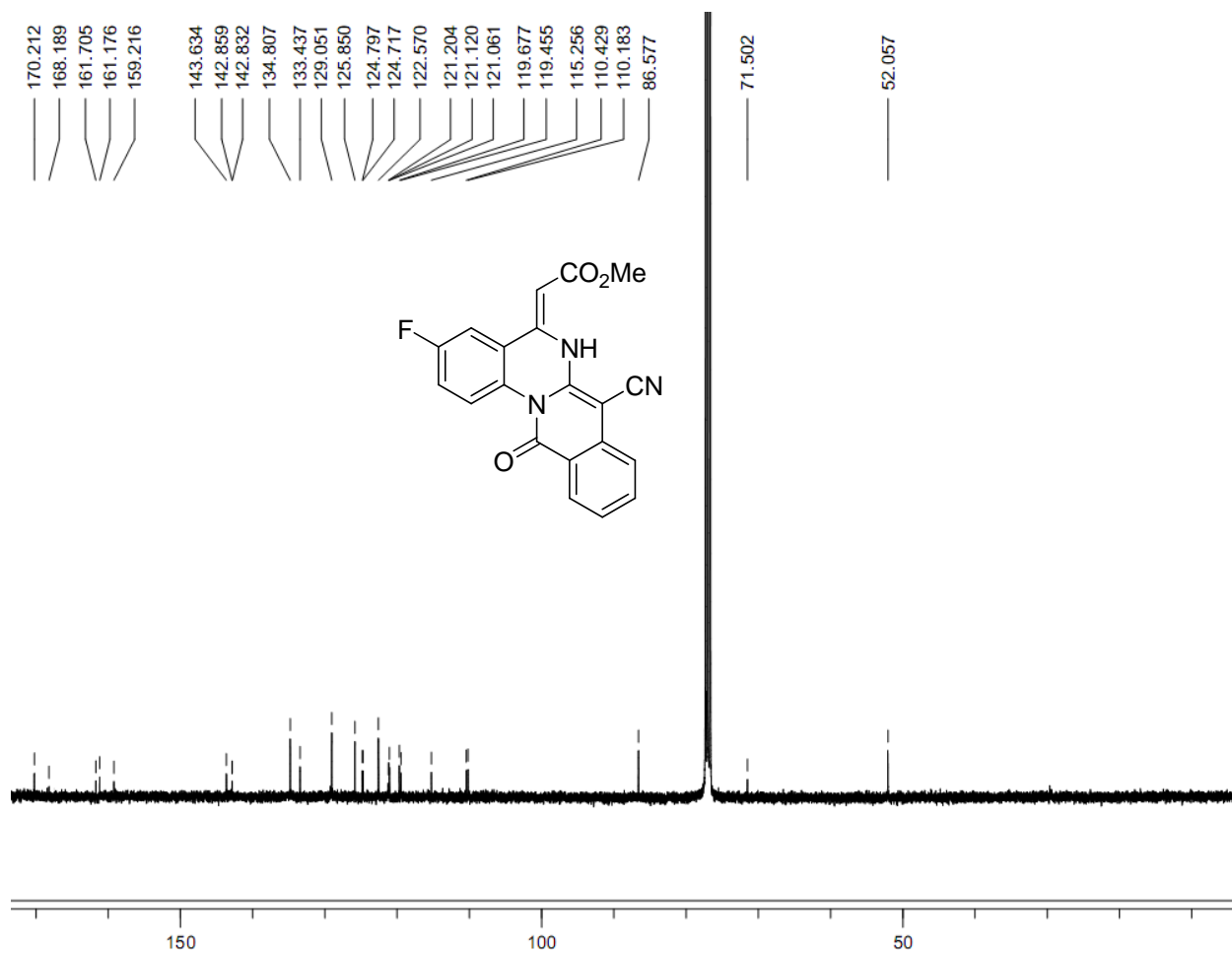


Fig. 85: ^{13}C NMR spectra of compound **4d** (CDCl_3 , 100 MHz)

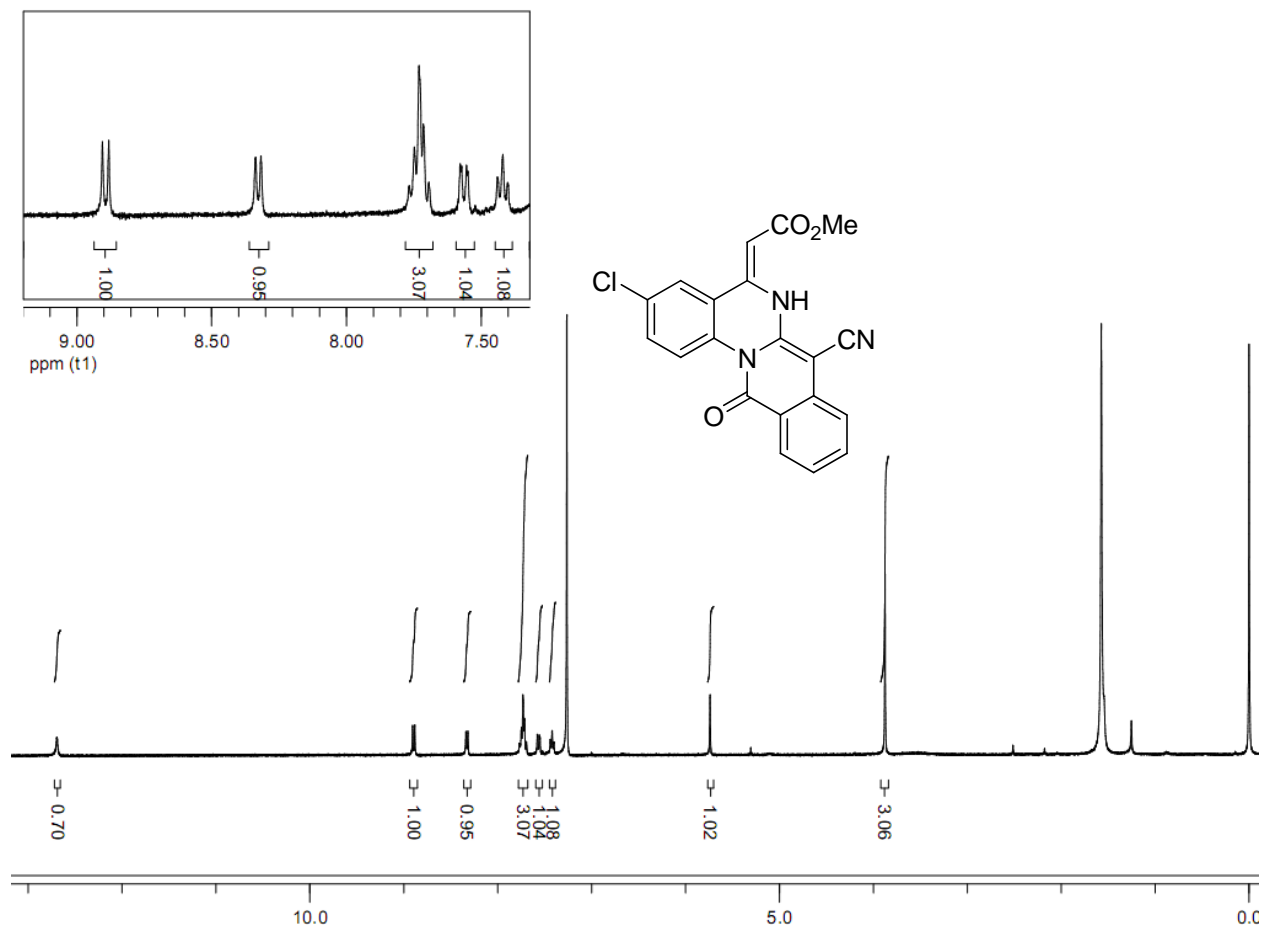


Fig. 86: ¹H NMR spectra of compound **4e** (CDCl₃, 400 MHz)

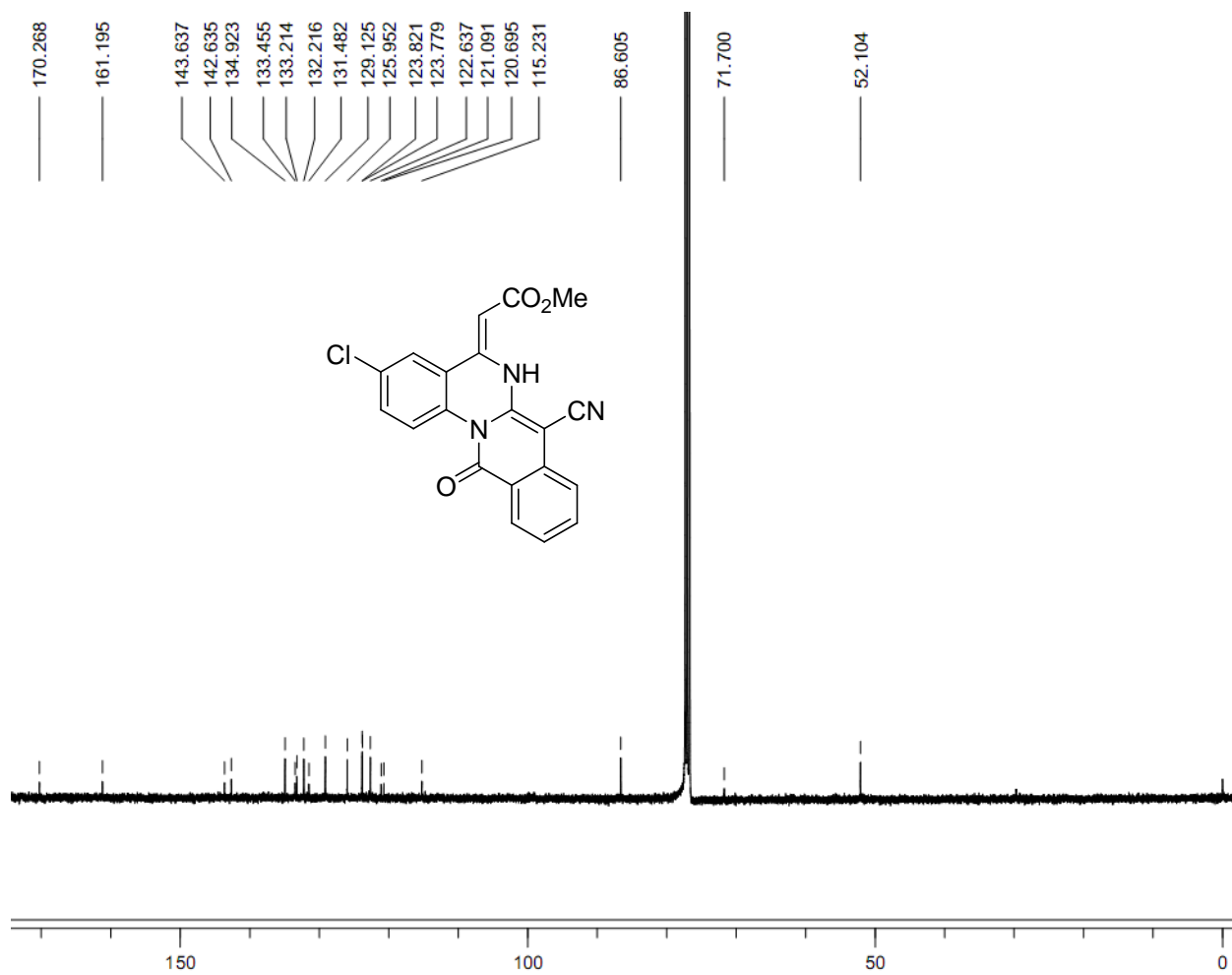


Fig. 87: ^{13}C NMR spectra of compound **4e** (CDCl_3 , 100 MHz)

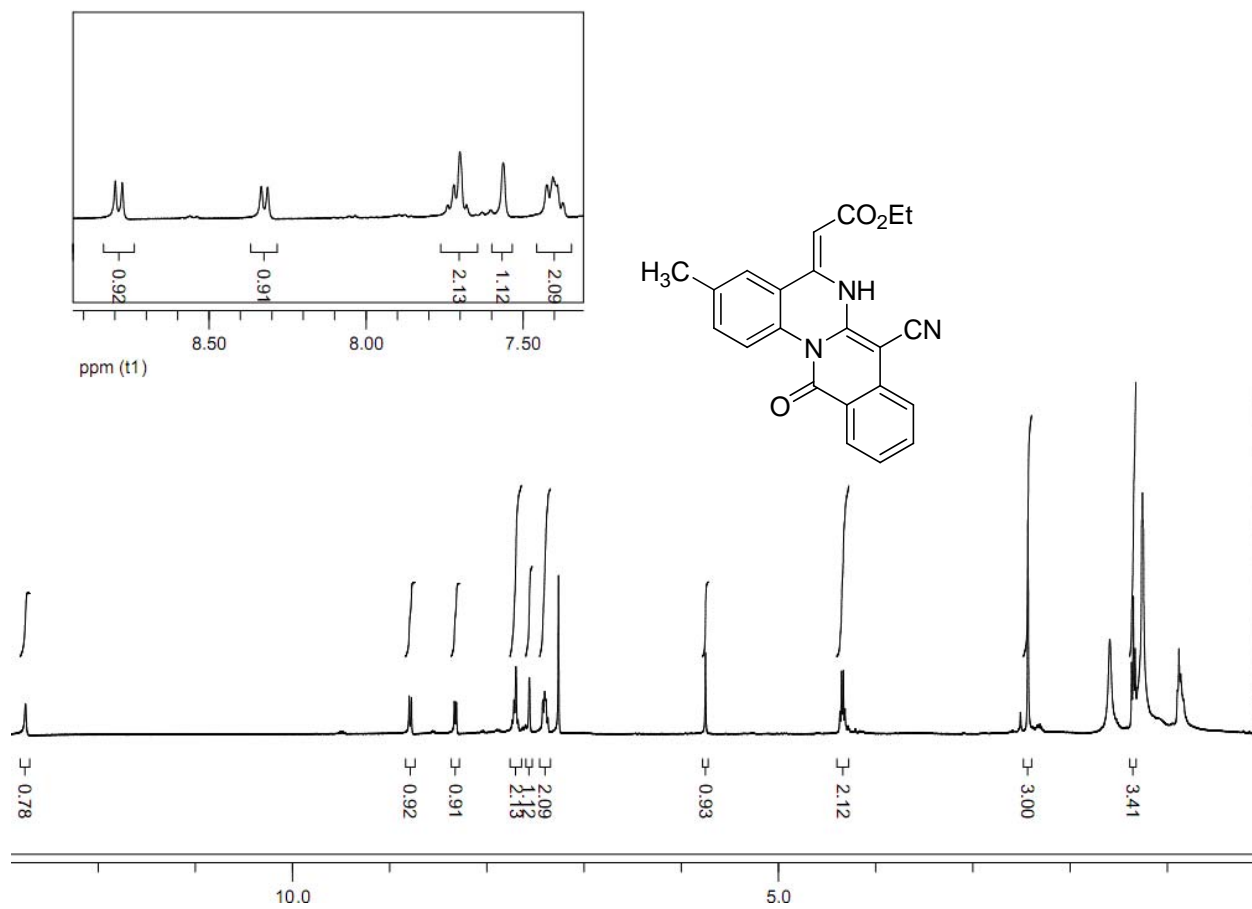


Fig. 88: ¹H NMR spectra of compound **4f** (CDCl₃, 400 MHz)

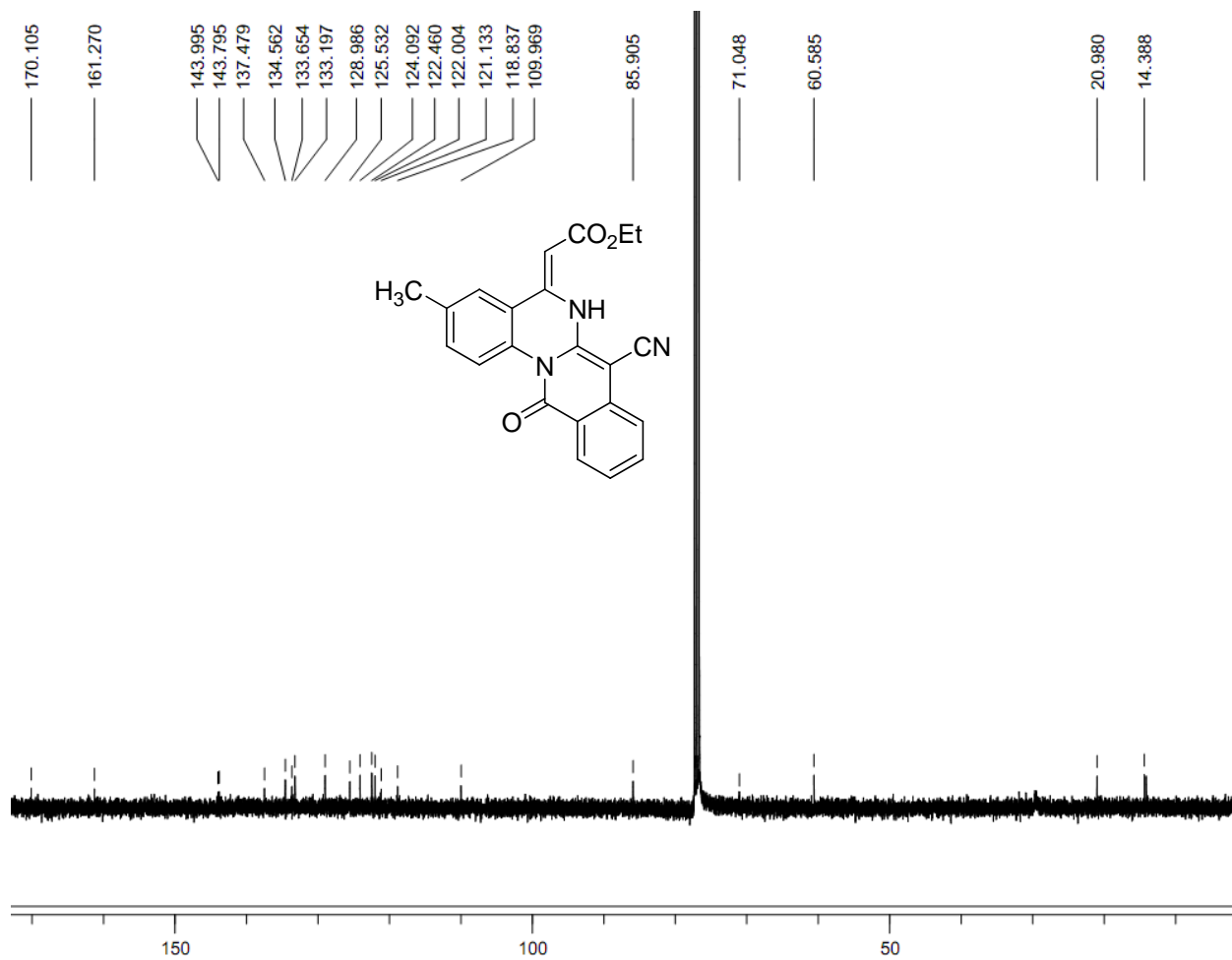


Fig. 89: ^{13}C NMR spectra of compound **4f** (CDCl_3 , 100 MHz)

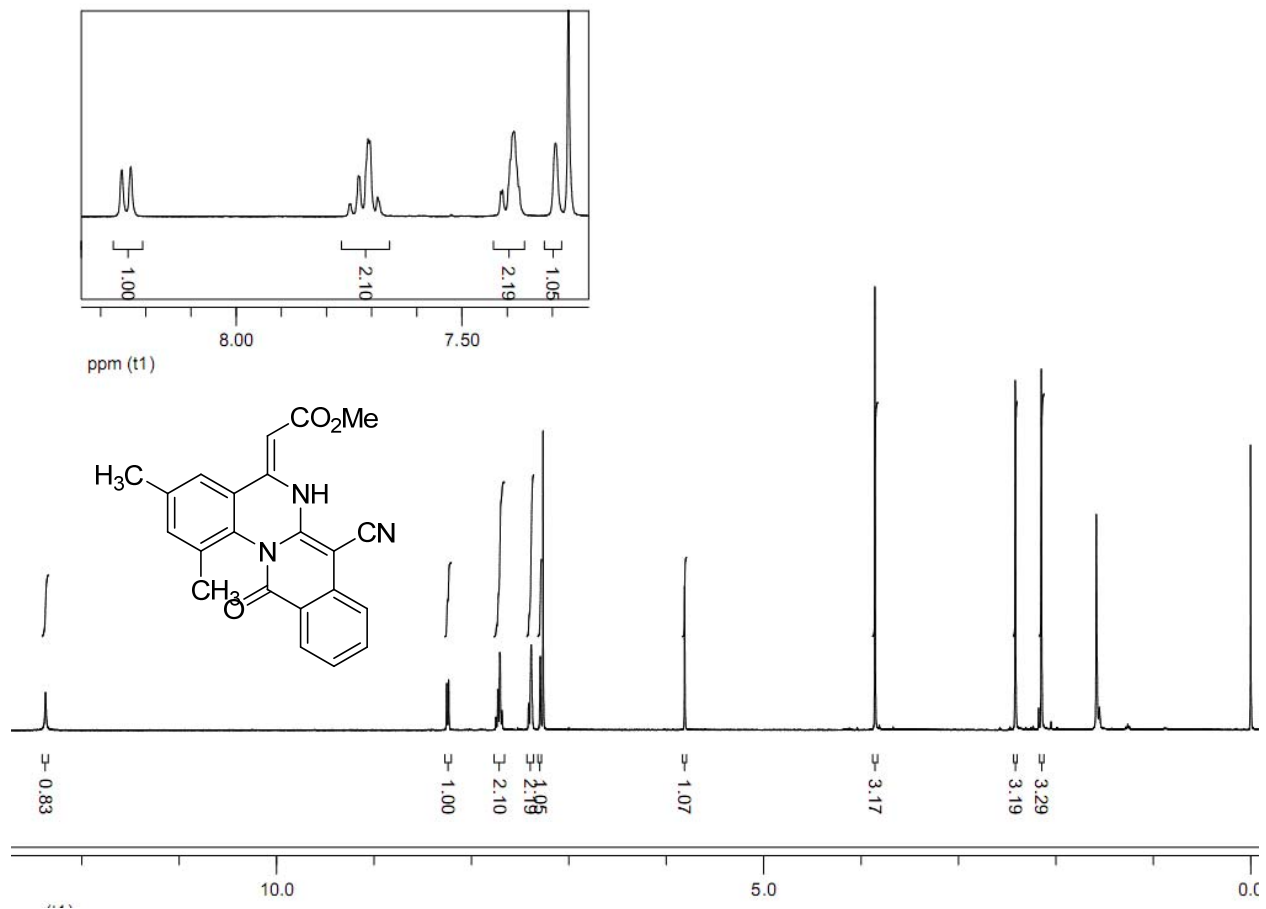


Fig. 90: ^1H NMR spectra of compound **4g** (CDCl₃, 400 MHz)

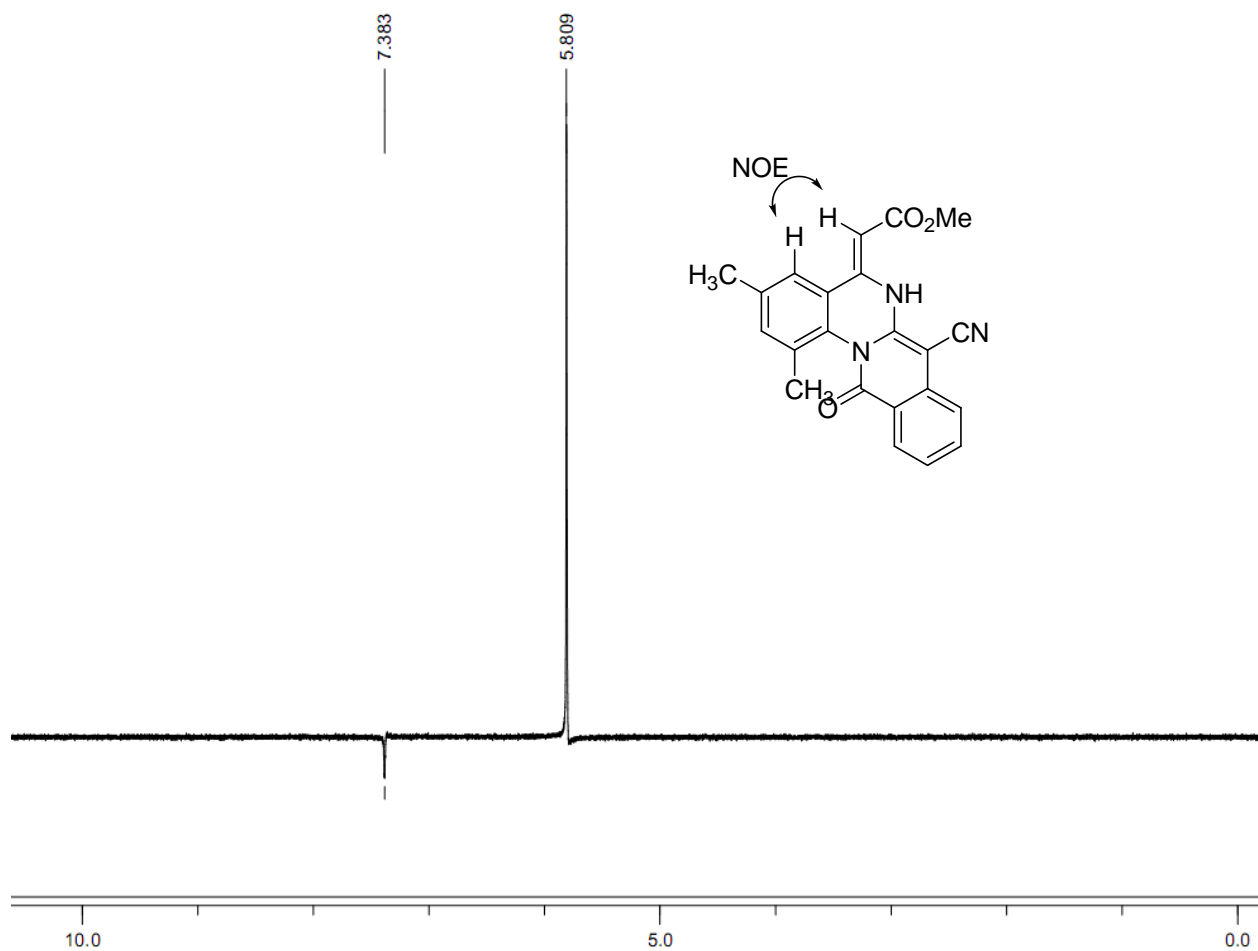


Fig. 91: 1D-NOE spectra of compound **4g** (CDCl₃, 400 MHz)

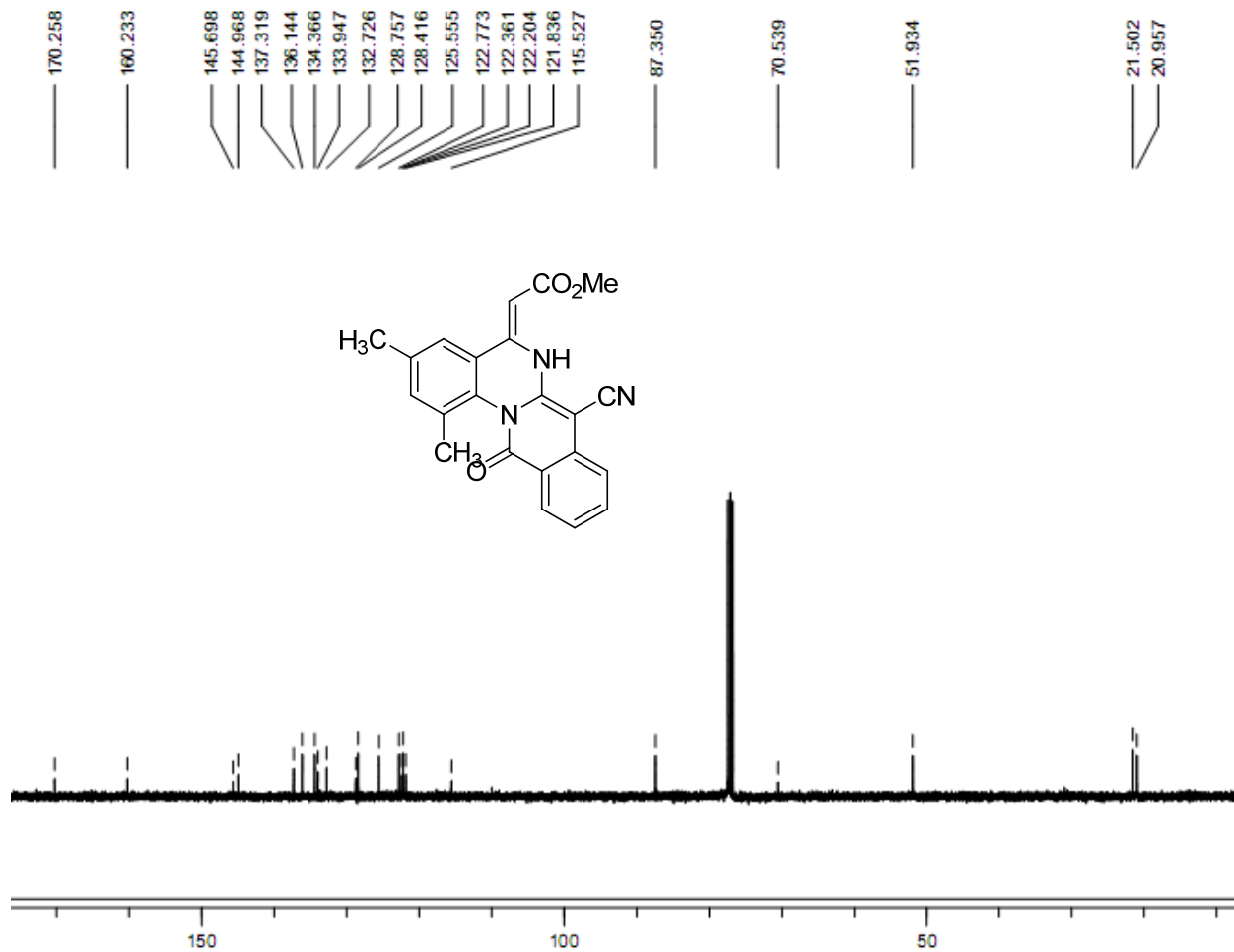


Fig. 92: ^{13}C NMR spectra of compound **4g** (CDCl_3 , 100 MHz)

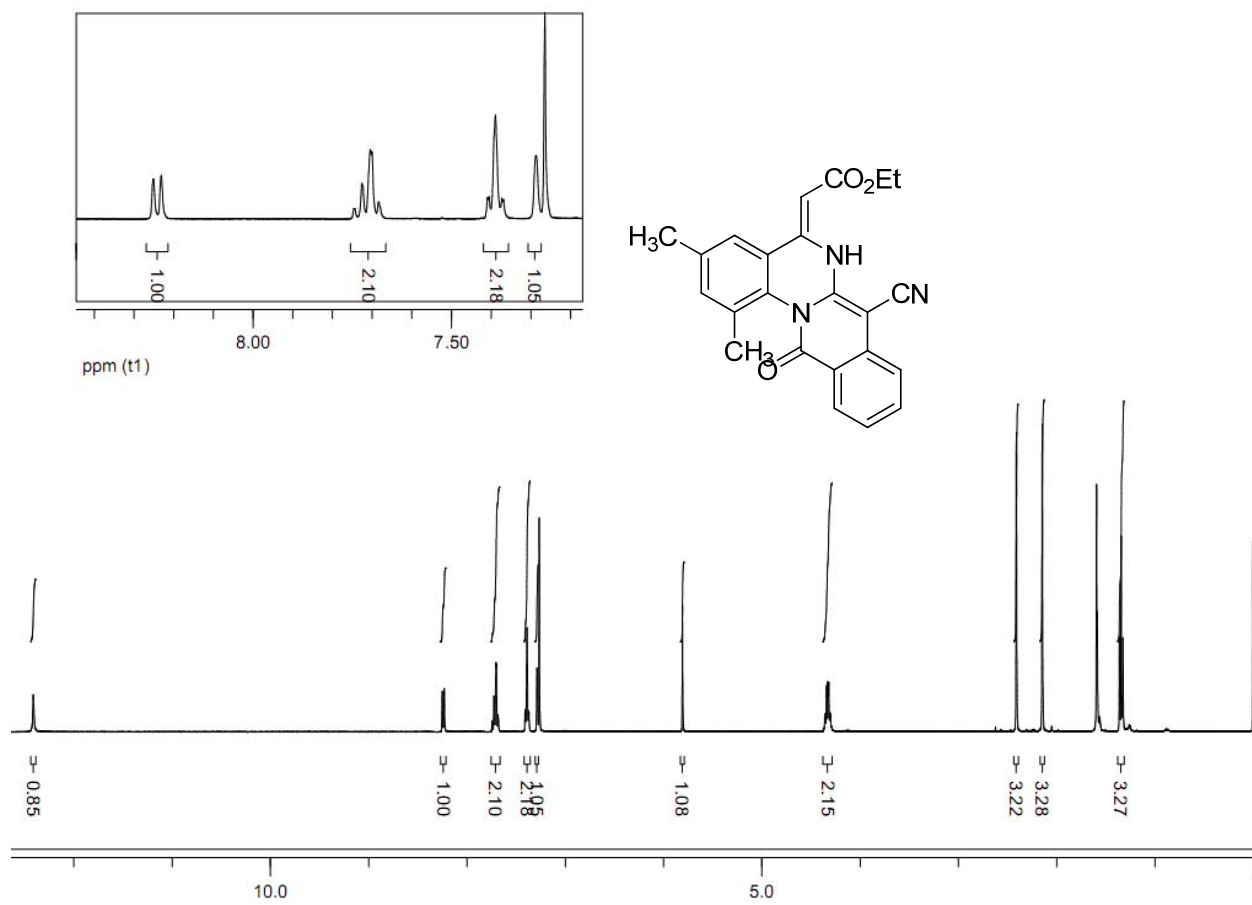


Fig. 93: ^1H NMR spectra of compound **4h** (CDCl_3 , 400 MHz)

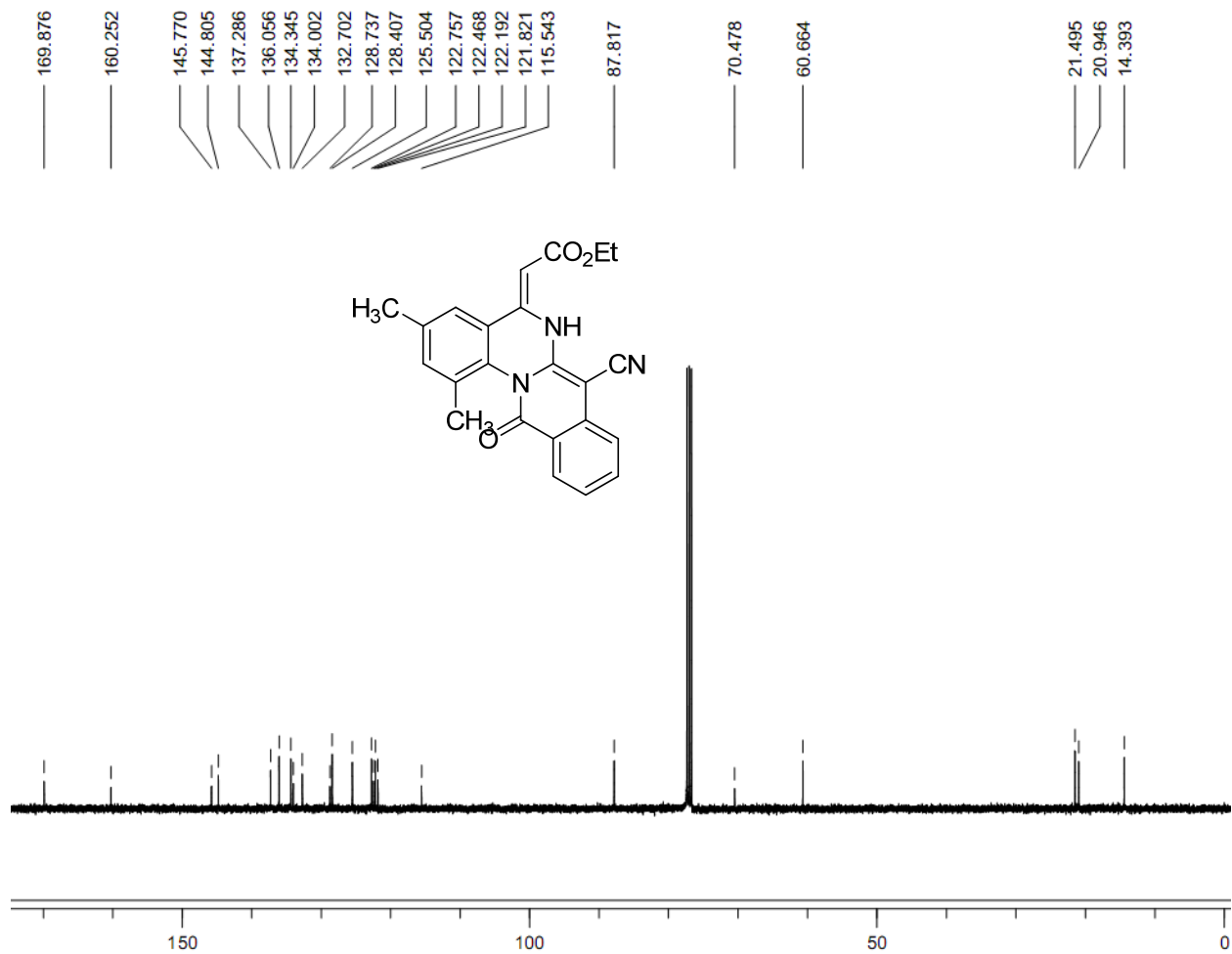


Fig. 94: ¹³C NMR spectra of **4h** (CDCl₃, 100 MHz)