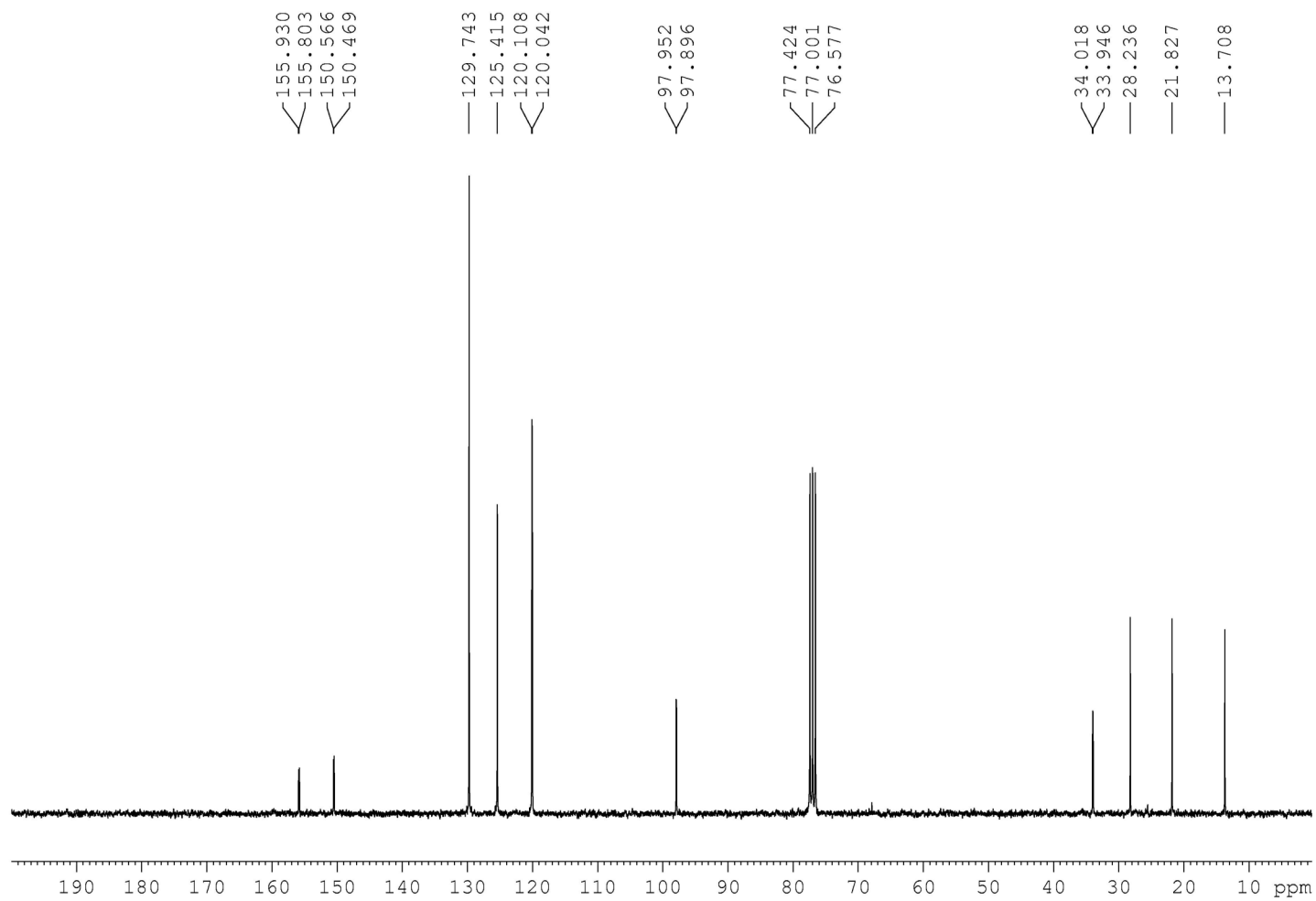
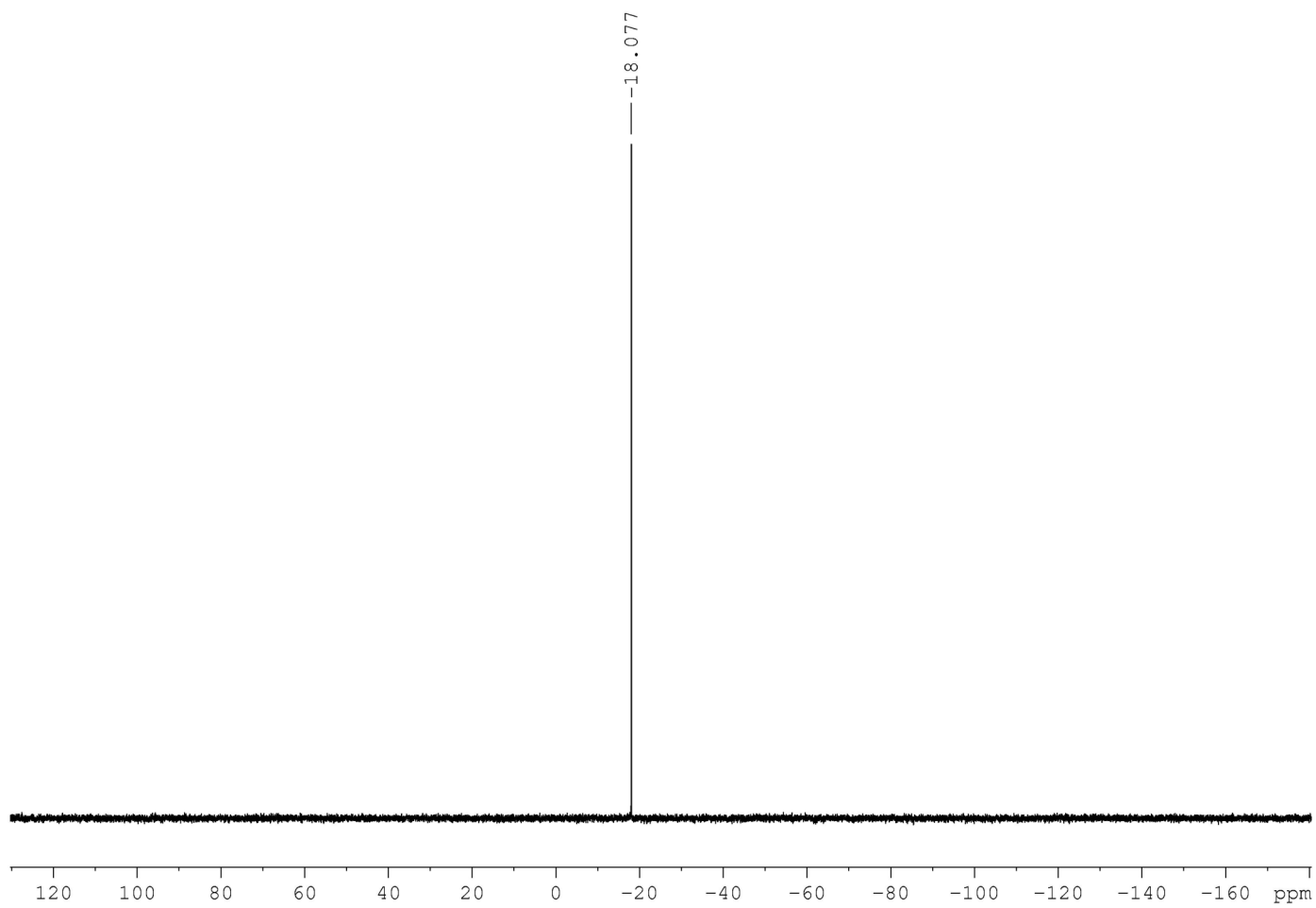


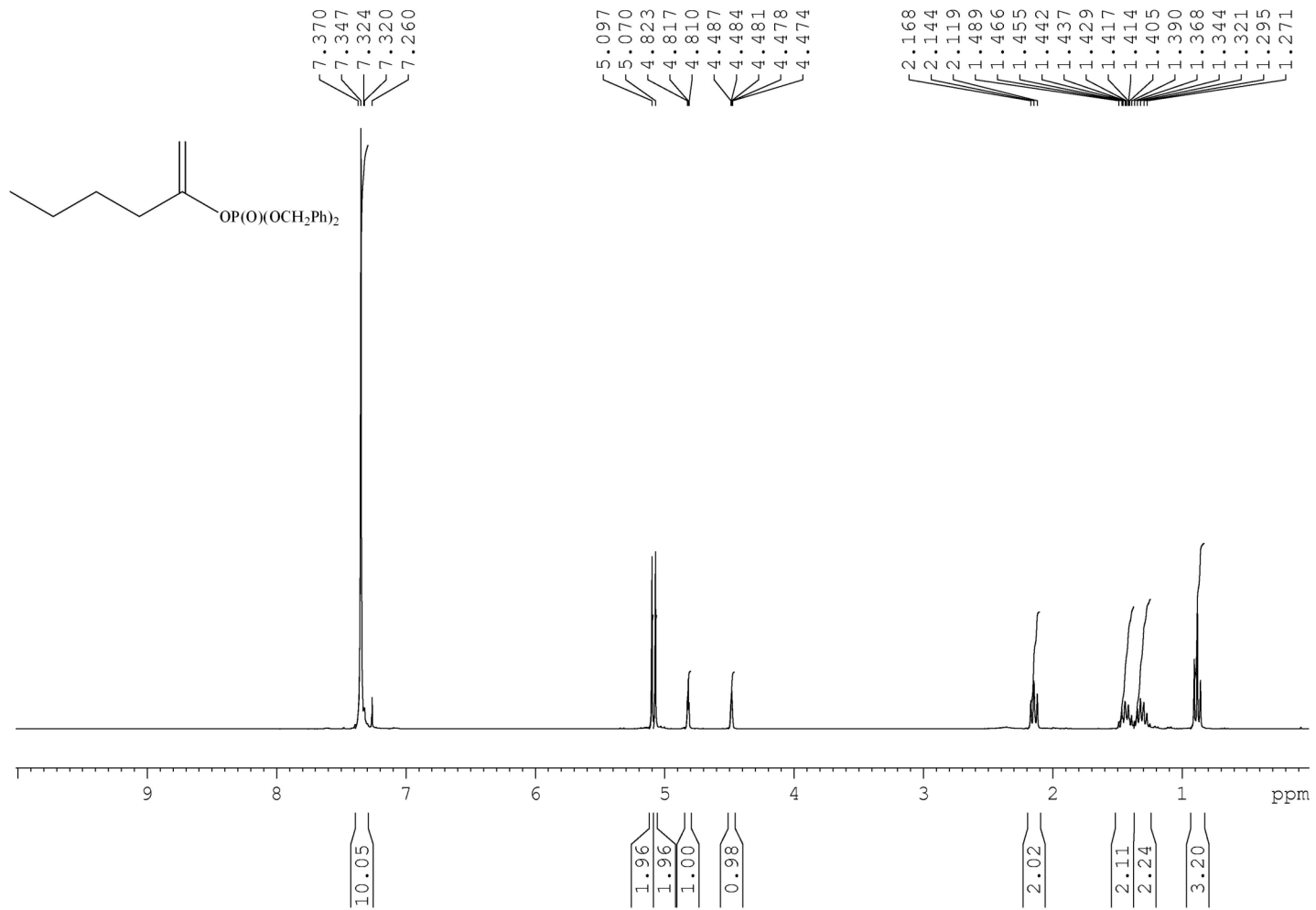
¹H NMR spectrum of (2a) (CDCl₃, 25 °C)



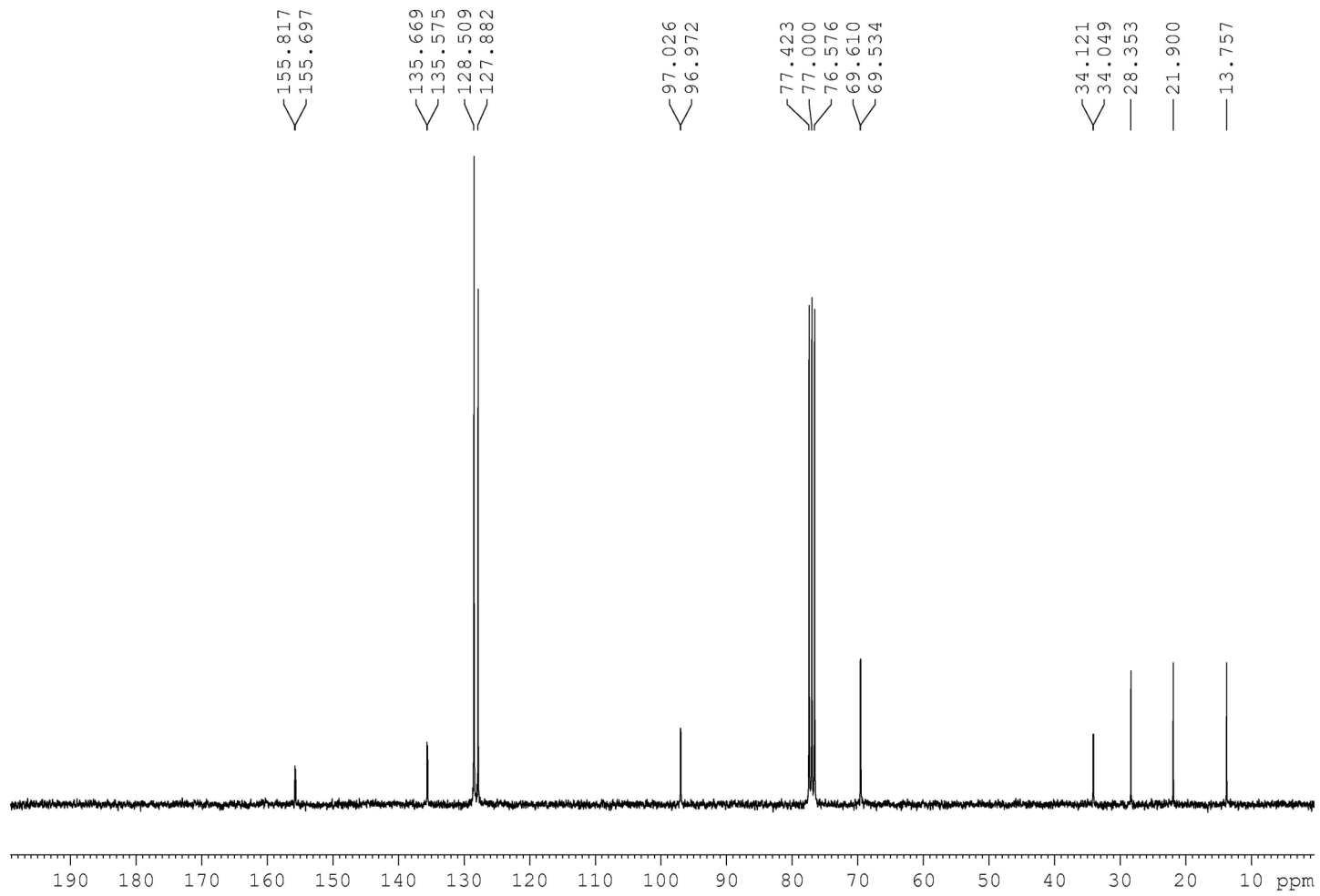
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of (2a) (CDCl_3 , 25 °C)



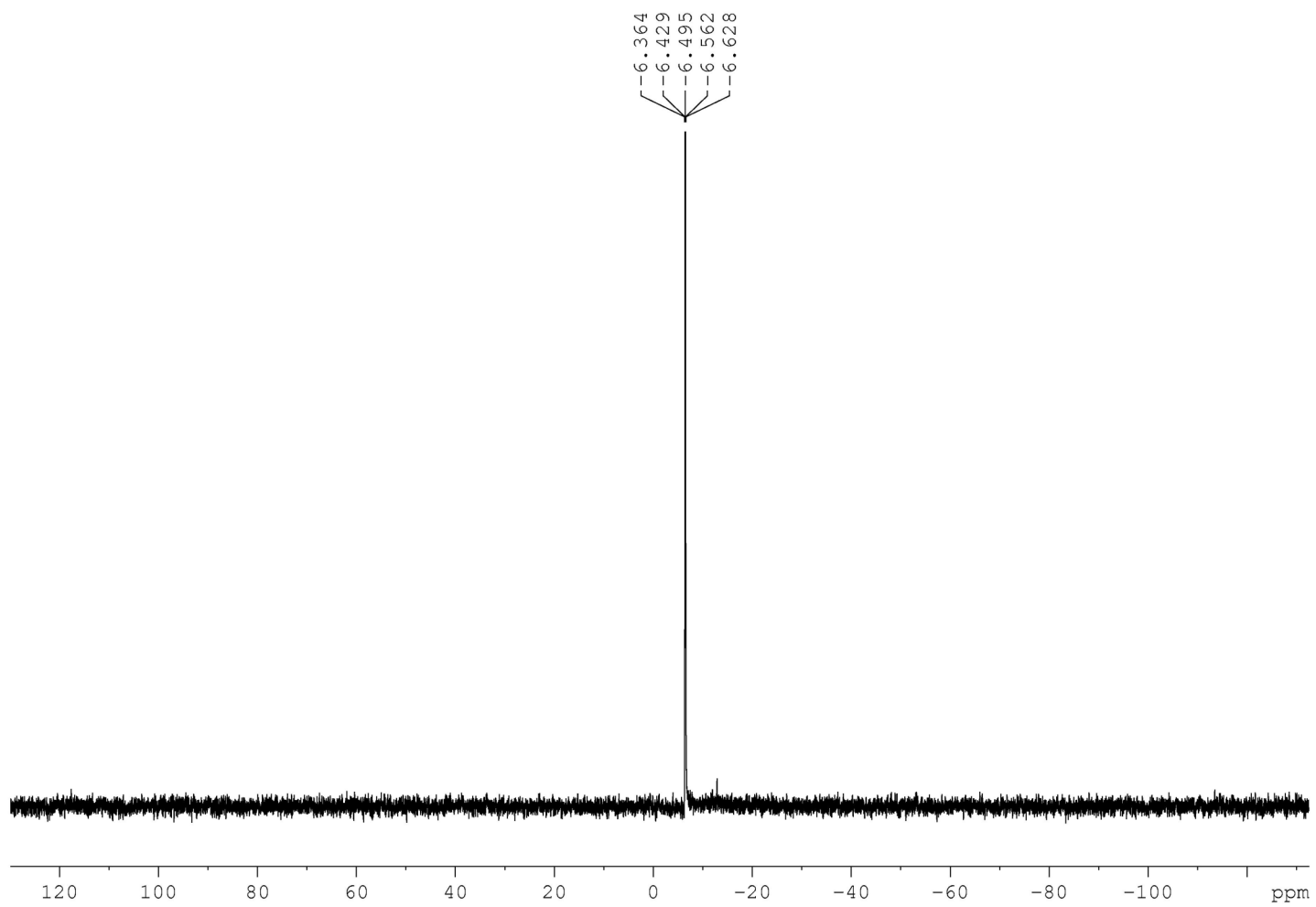
^{31}P NMR spectrum of (2a)



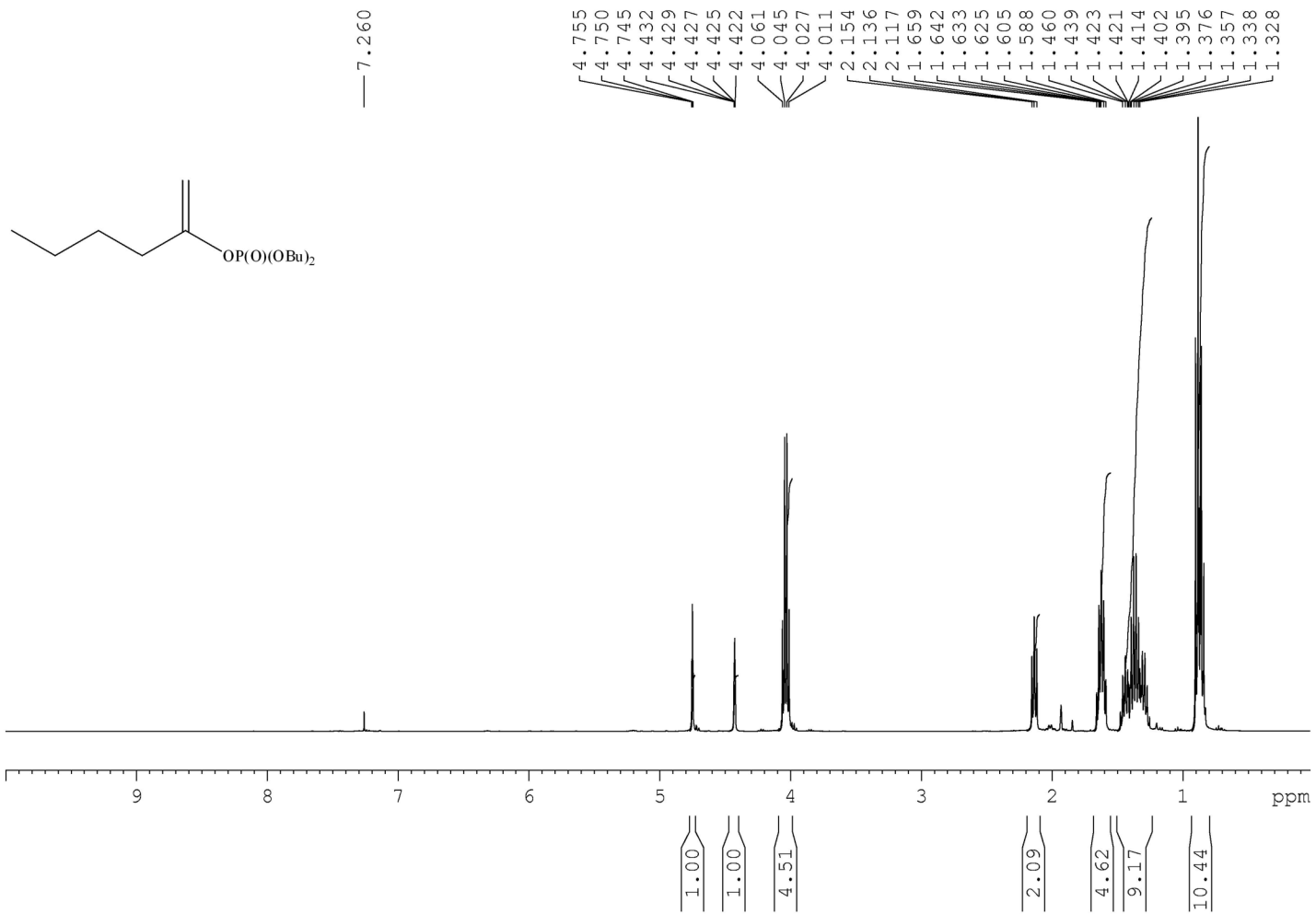
¹H NMR spectrum of (2b) (CDCl₃, 25 °C)



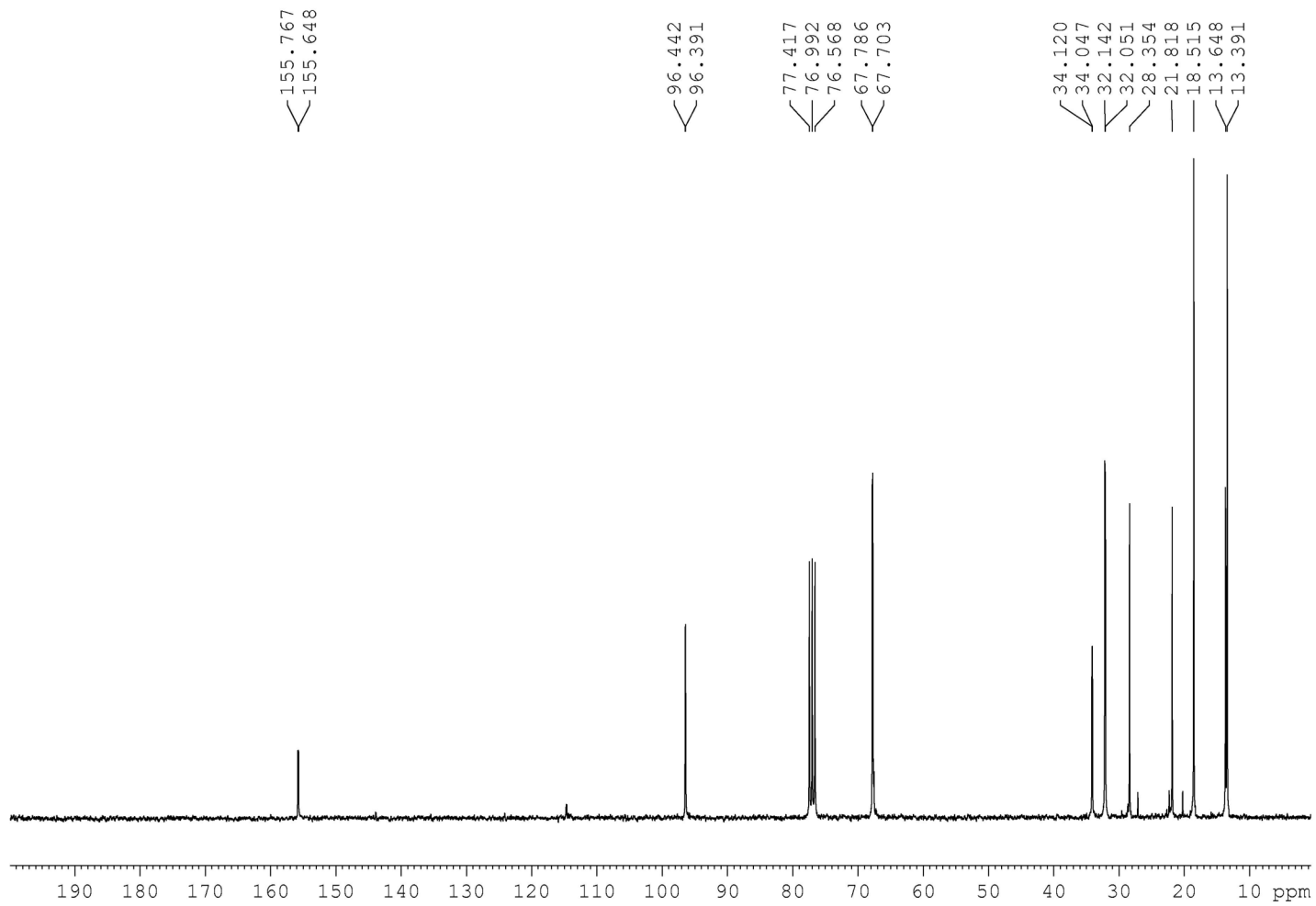
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of (2b) (CDCl_3 , $25\text{ }^\circ\text{C}$)



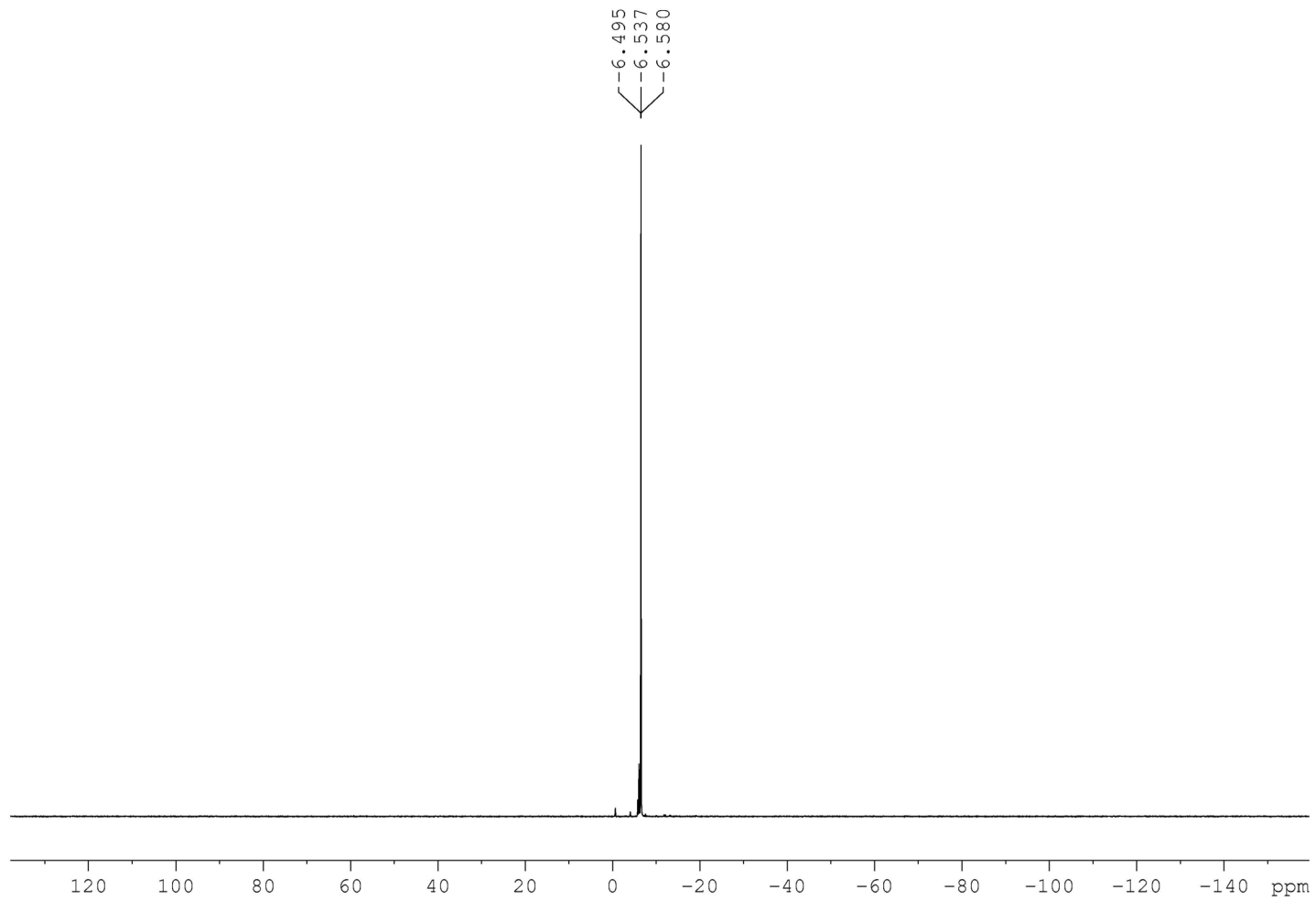
^{31}P NMR spectrum of (2b)



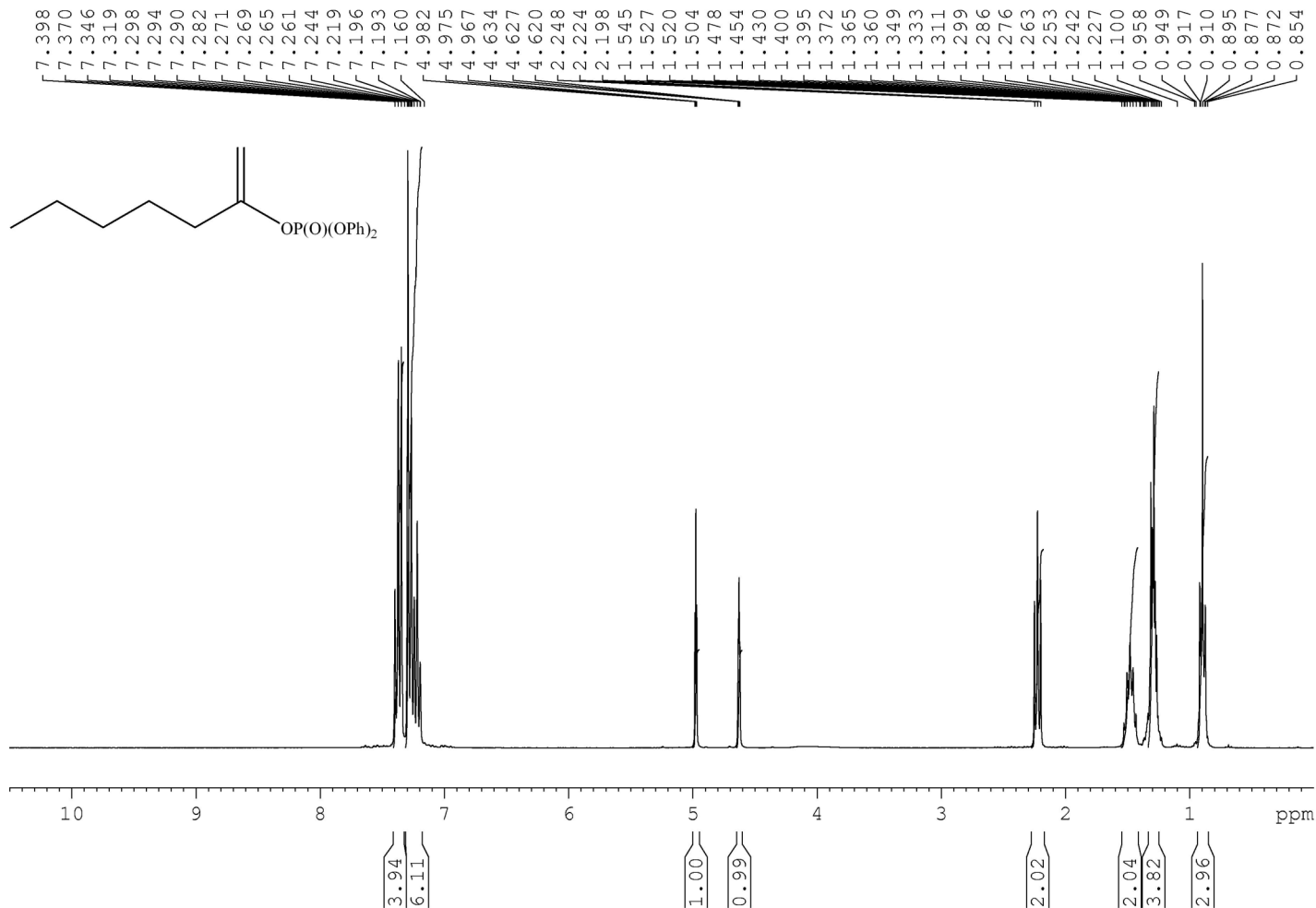
^1H NMR spectrum of (2c) (CDCl_3 , 25 °C)



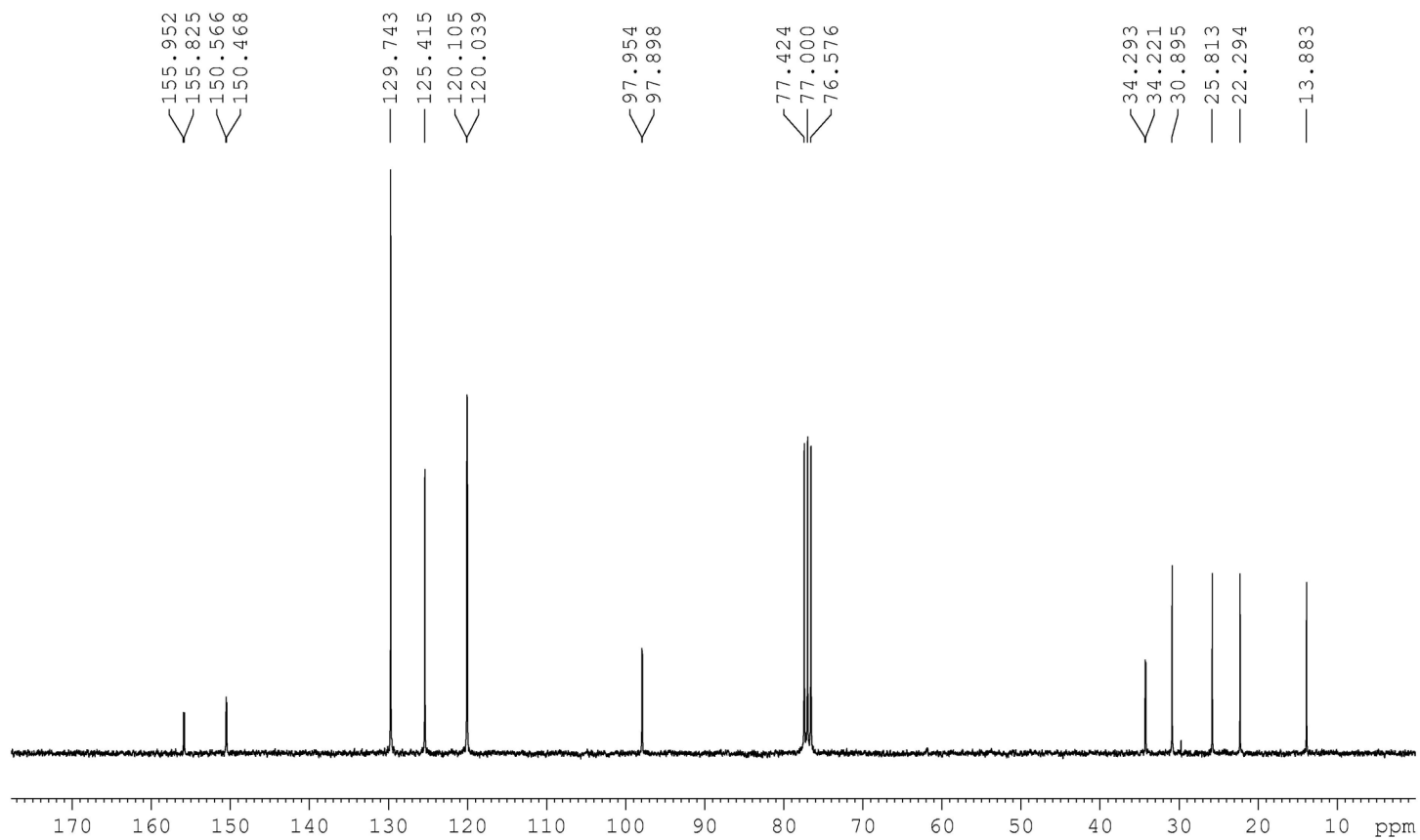
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of (2c) (CDCl_3 , 25 °C)



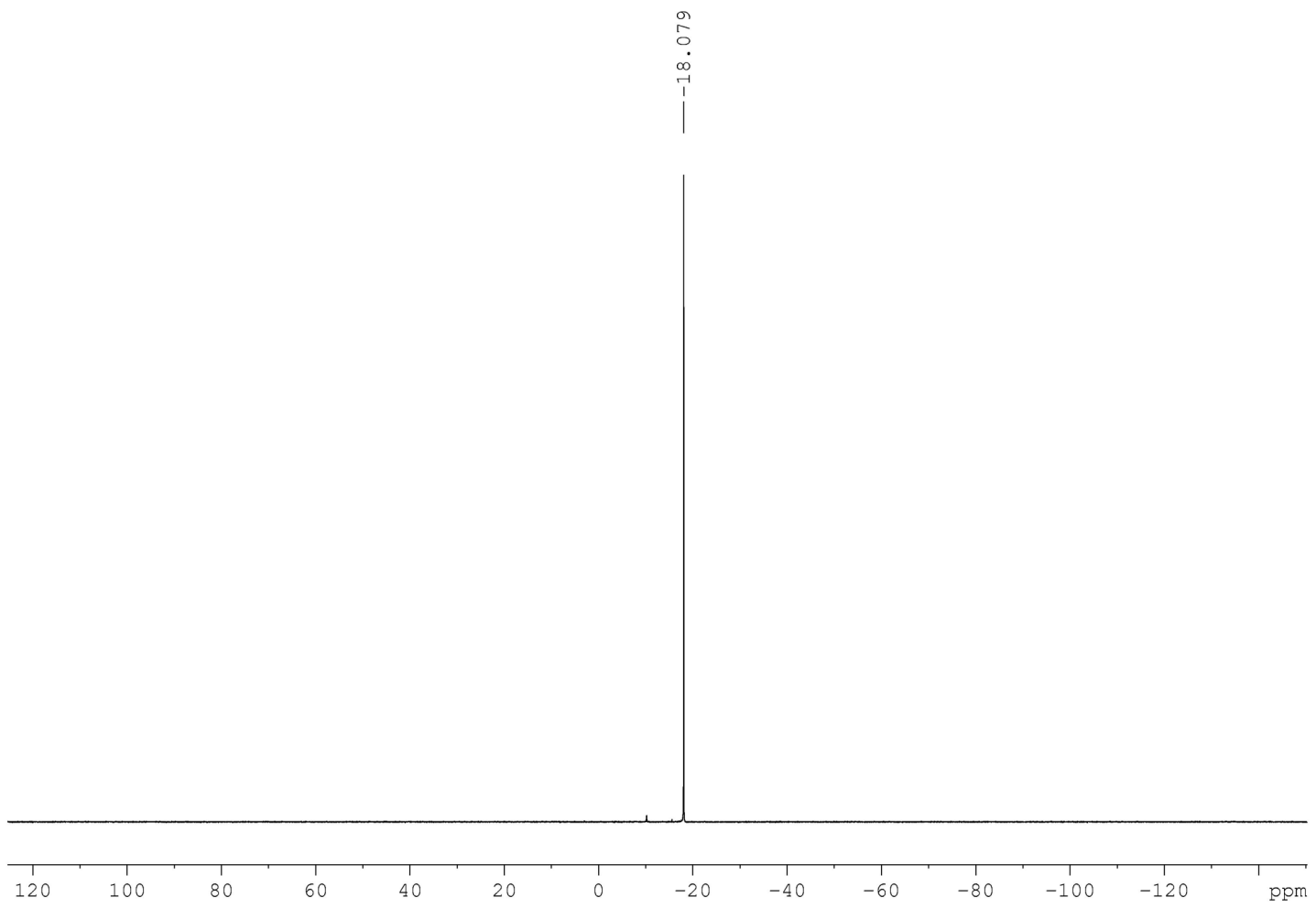
^{31}P NMR spectrum of (2c)



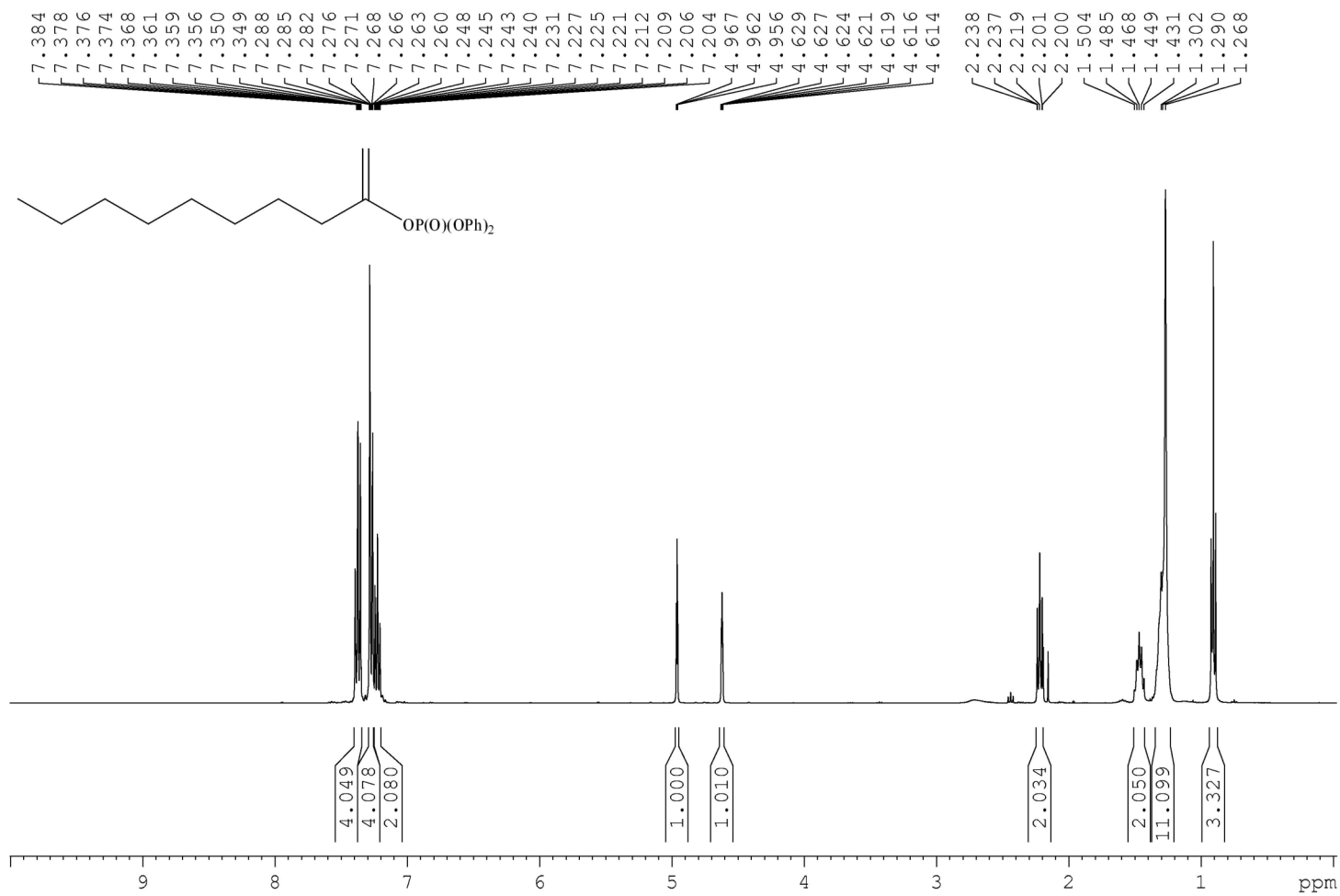
¹H NMR spectrum of (3a) (CDCl₃, 25 °C)



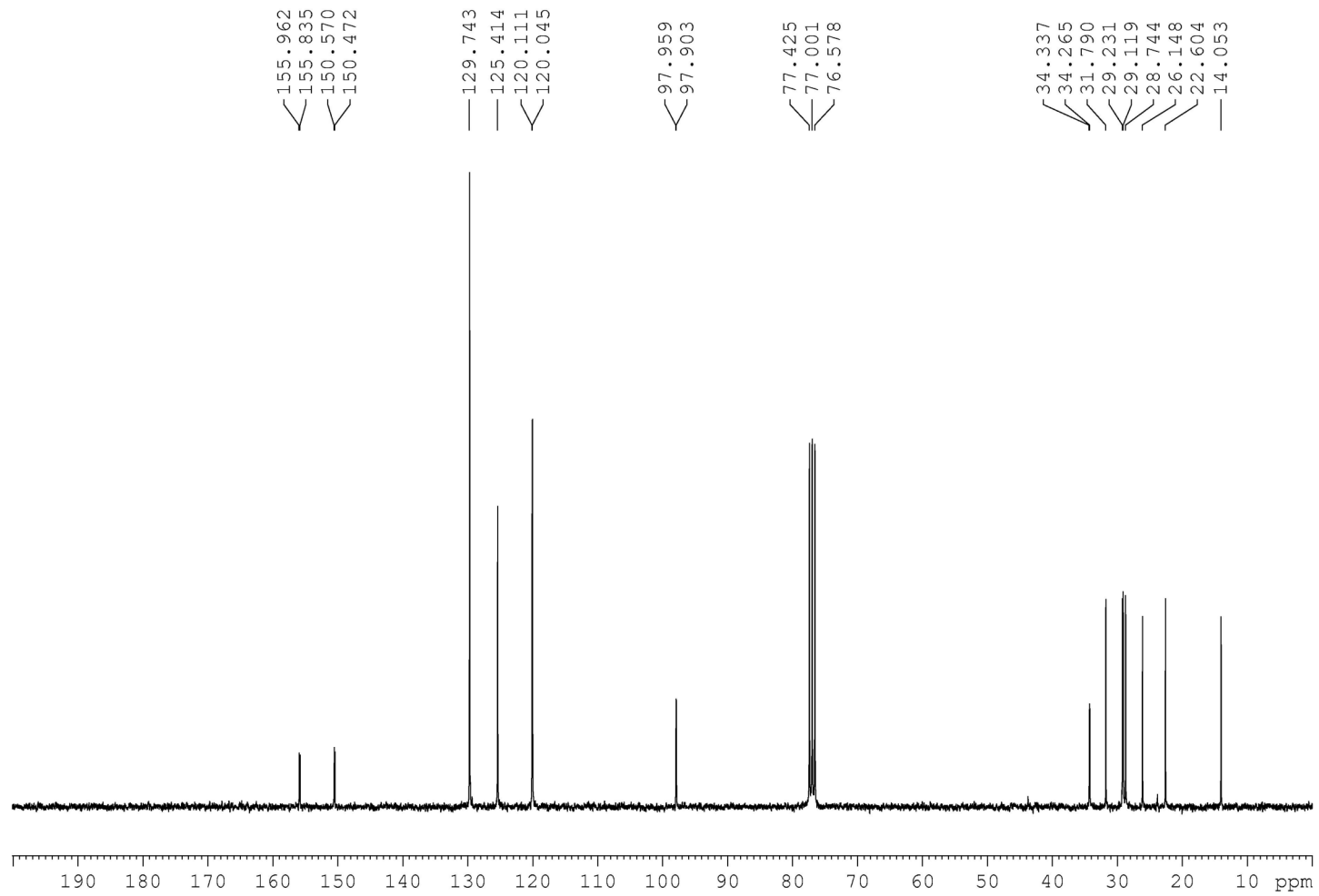
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of (3a) (CDCl_3 , $25\text{ }^\circ\text{C}$)



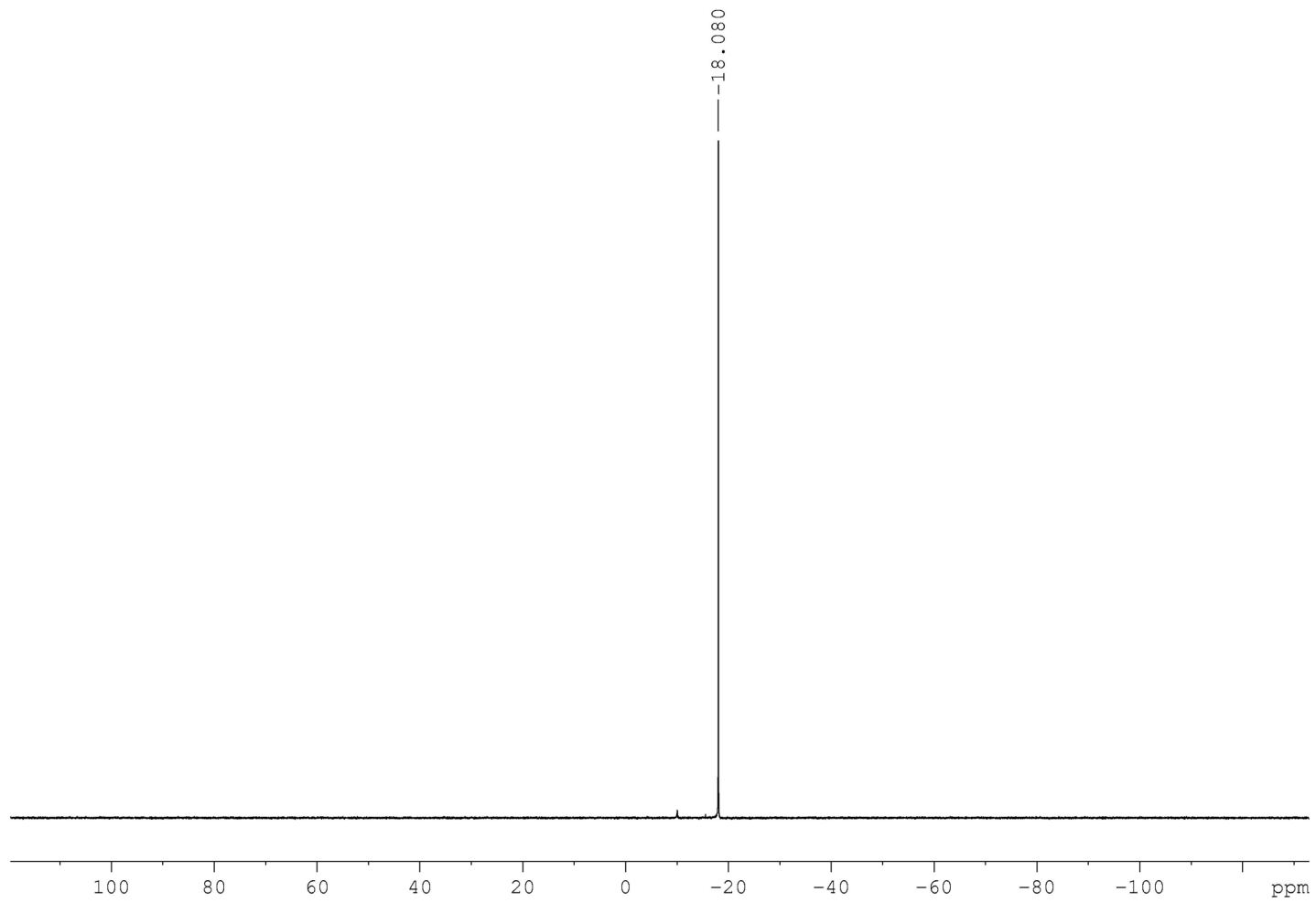
^{31}P NMR spectrum of (3a)



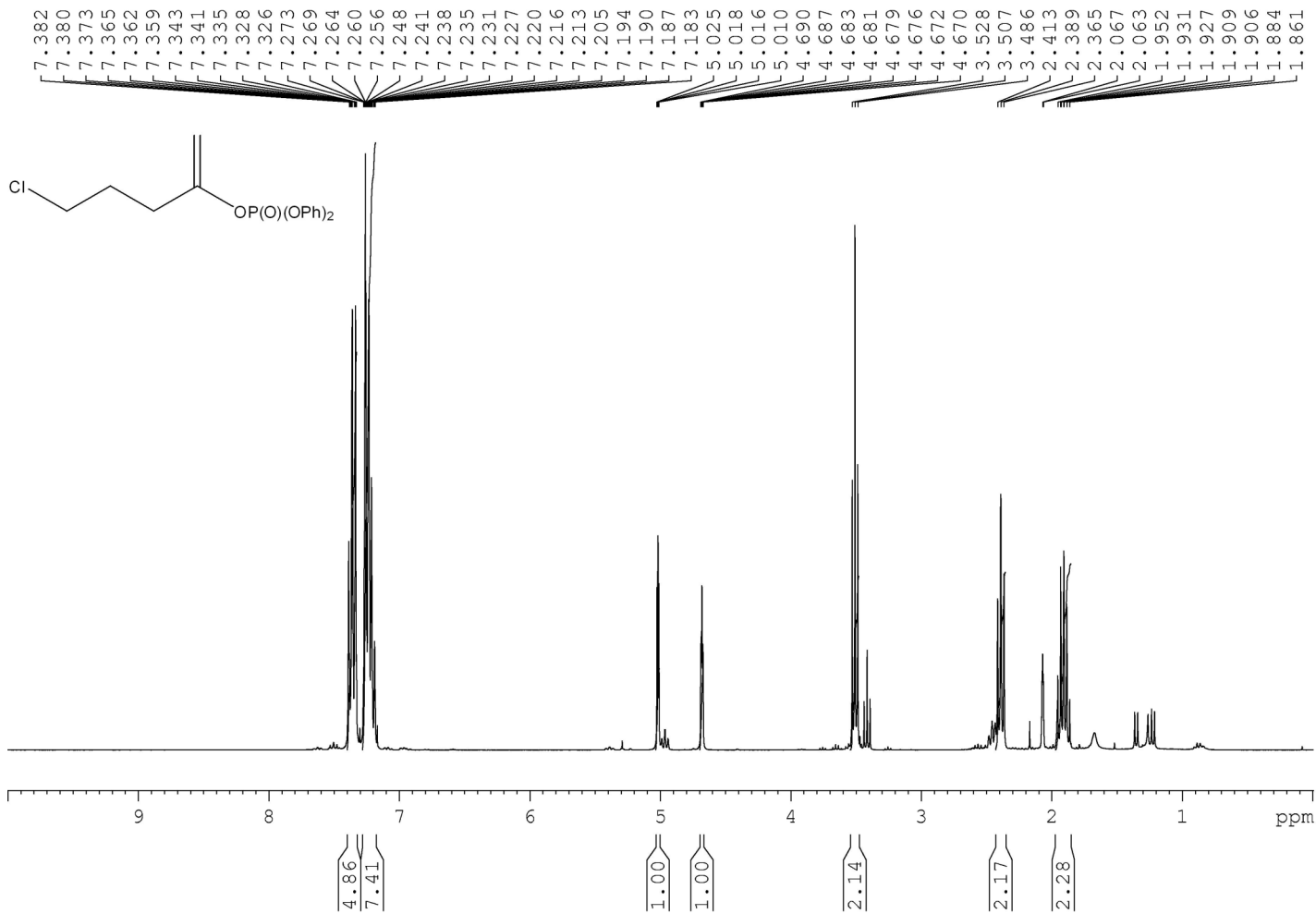
¹H NMR spectrum of (3b) (CDCl₃, 25 °C)



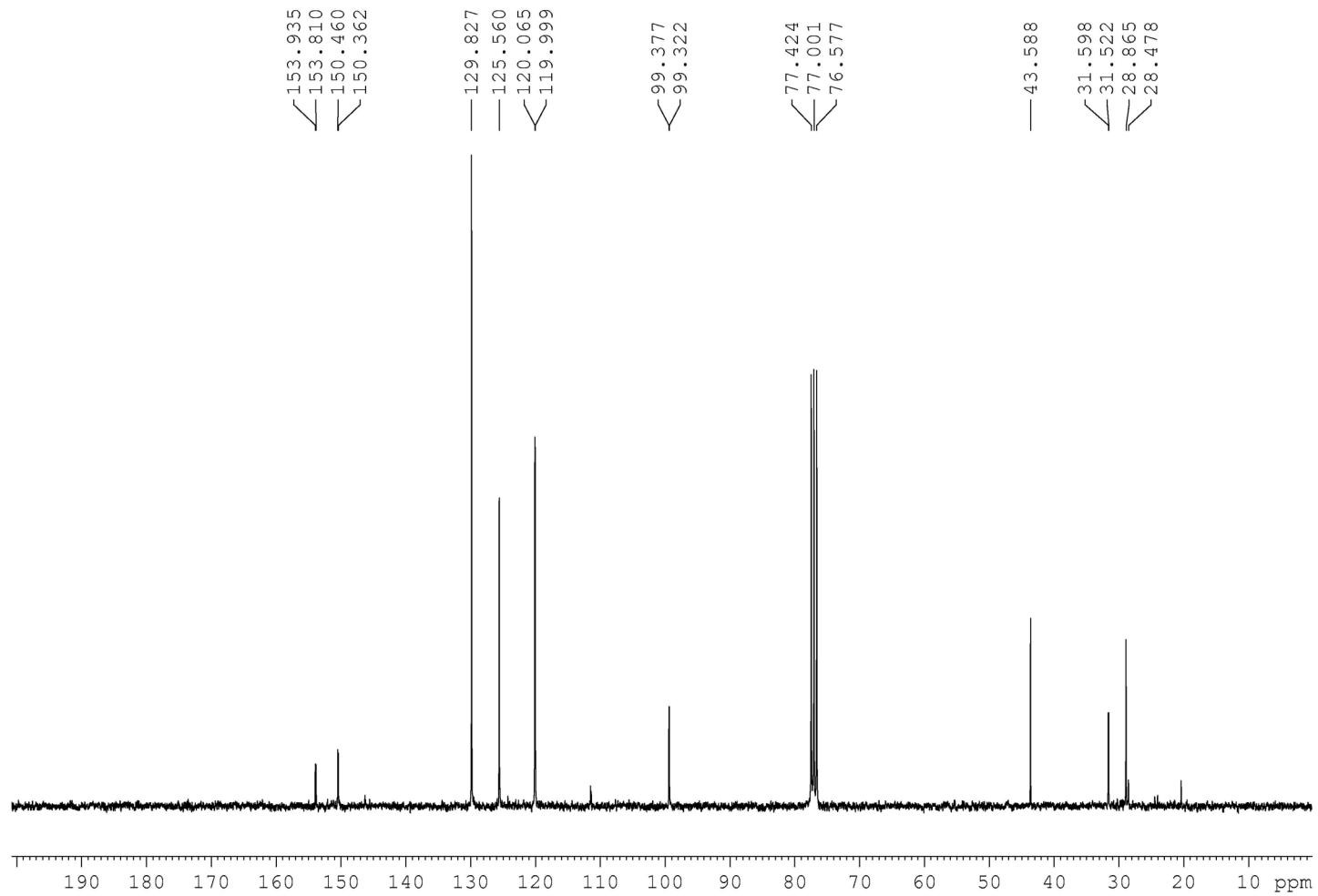
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of (3b) (CDCl_3 , $25\text{ }^\circ\text{C}$)



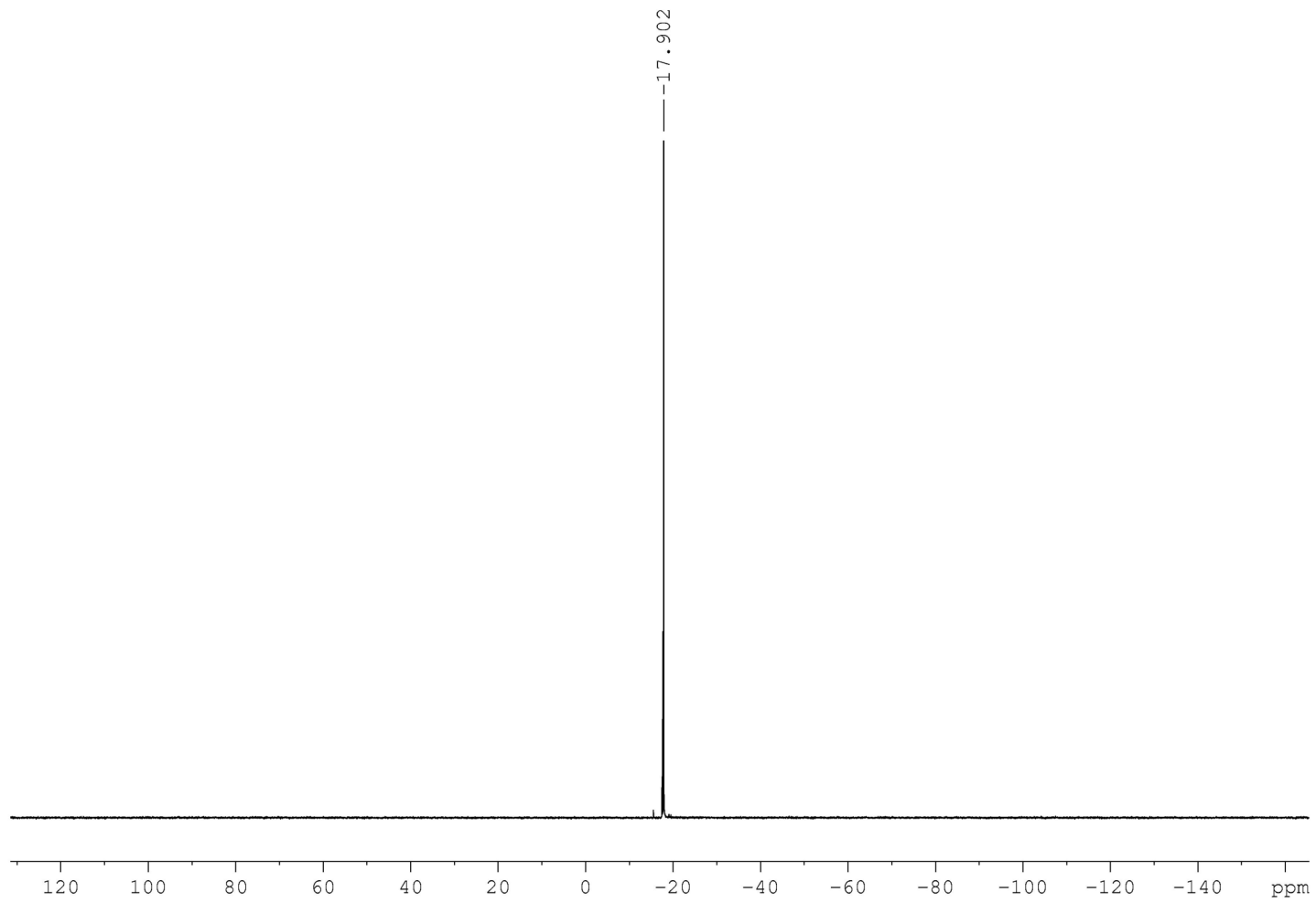
^{31}P NMR spectrum of (3b)



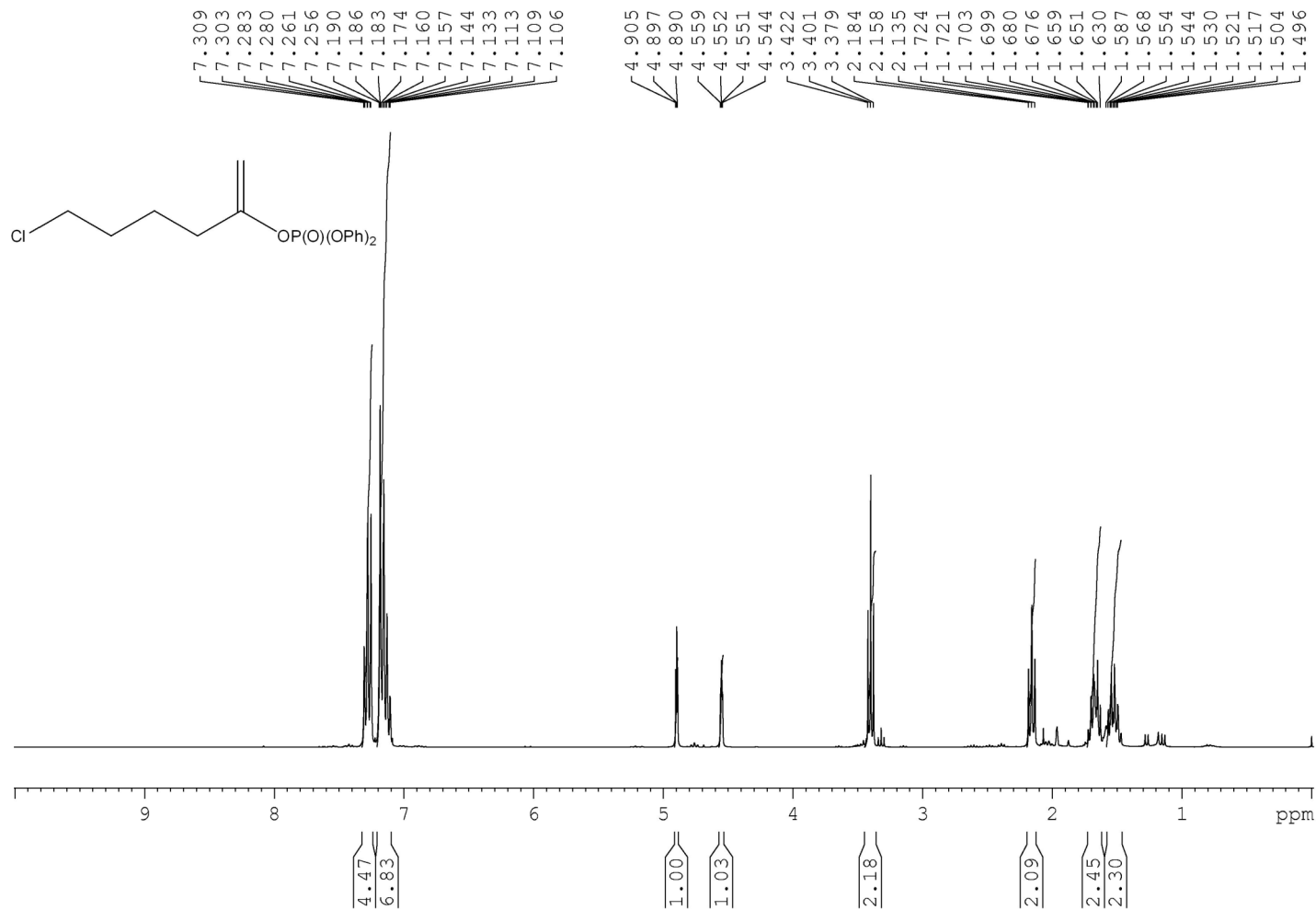
¹H NMR spectrum of (3d) (CDCl₃, 25 °C)



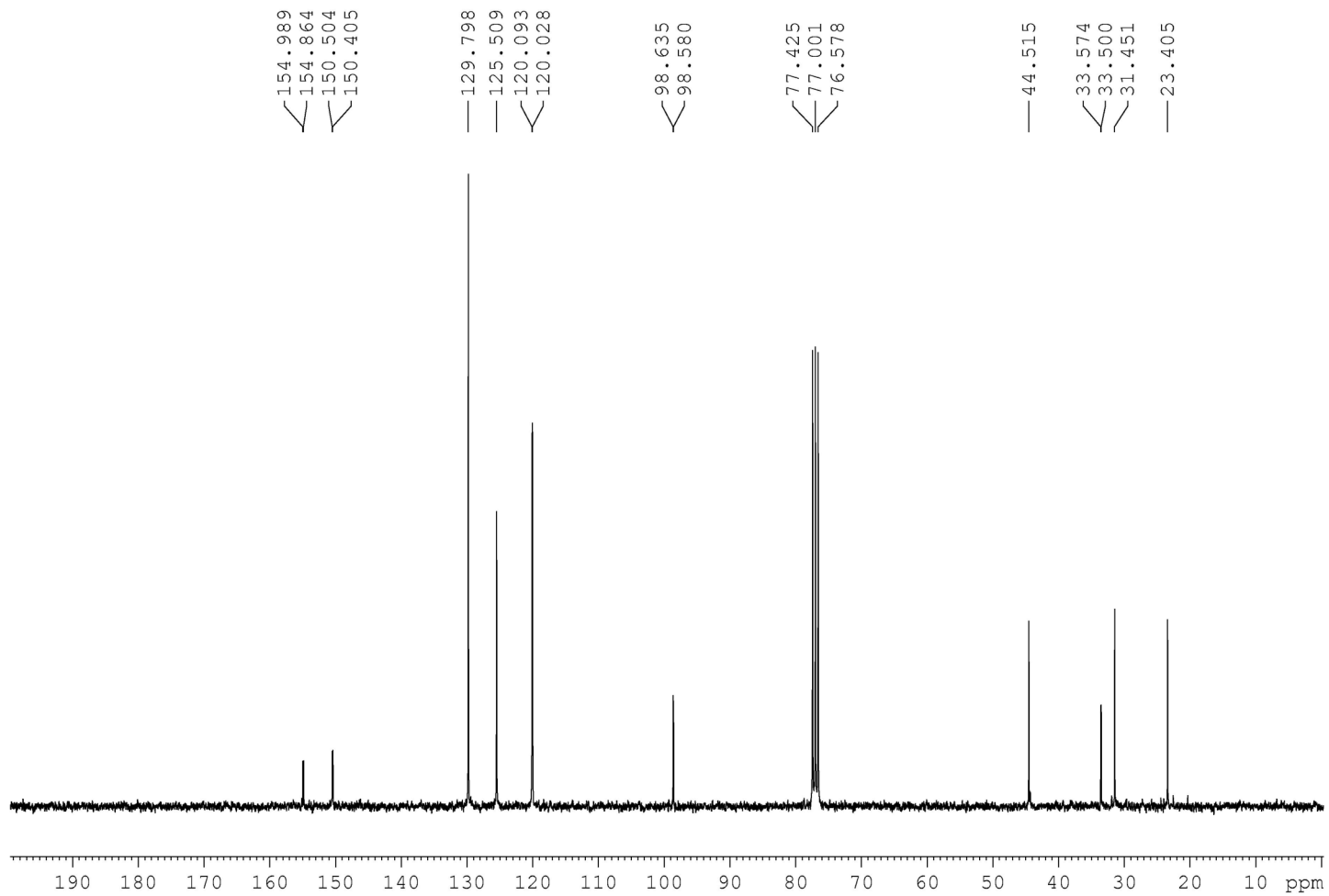
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of (3d) (CDCl_3 , $25\text{ }^\circ\text{C}$)



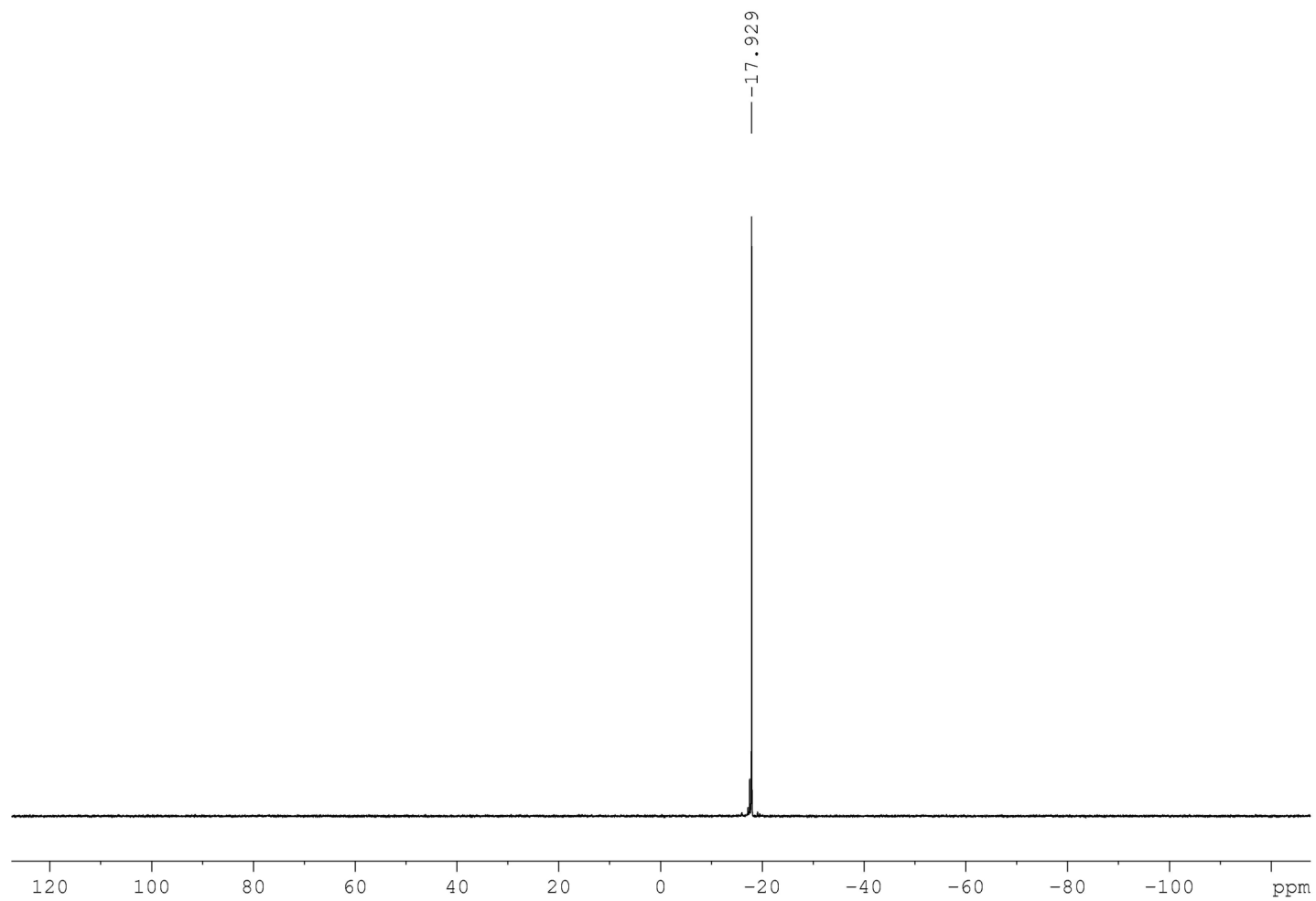
^{31}P NMR spectrum of (3d)



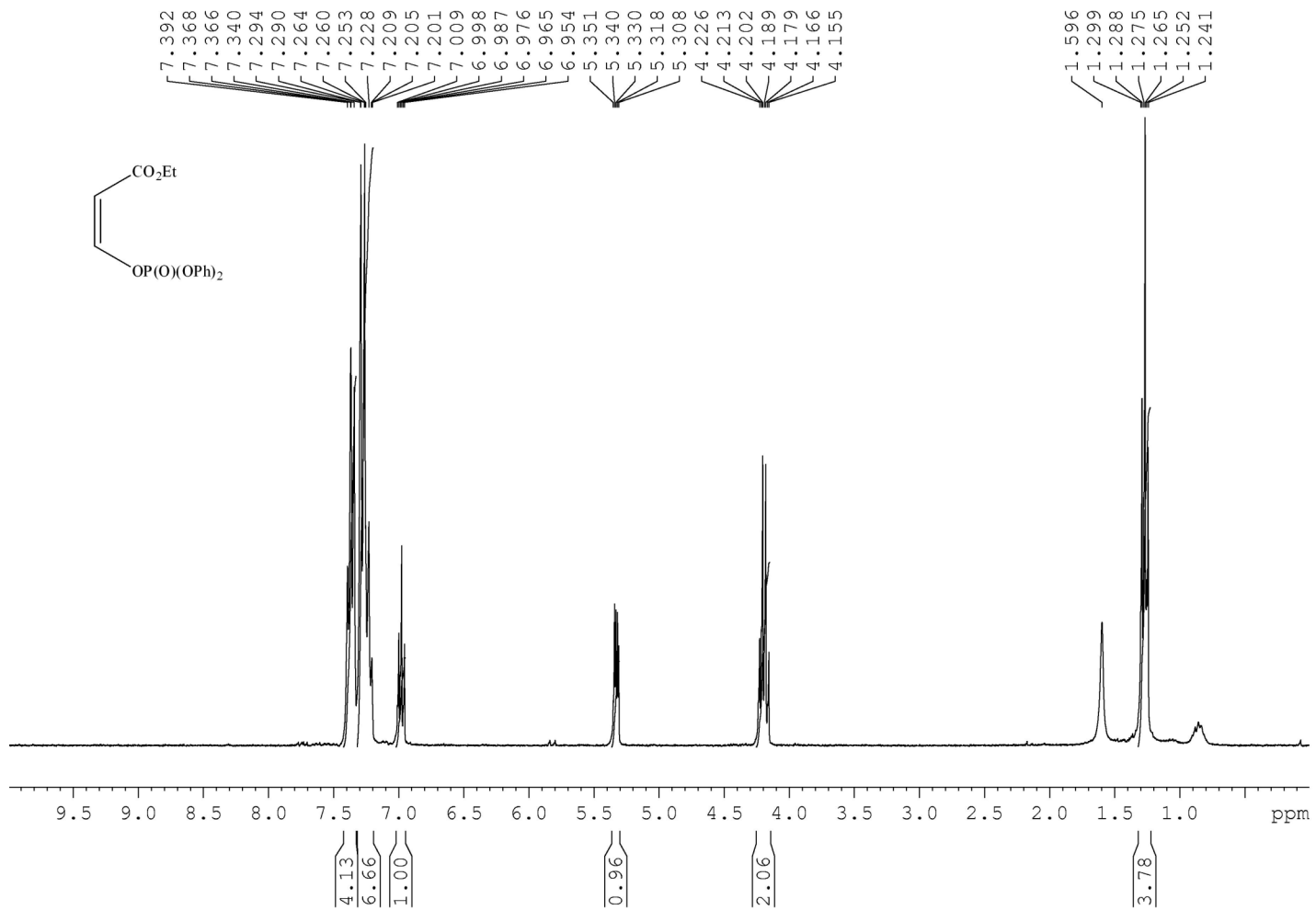
¹H NMR spectrum of (3e) (CDCl₃, 25 °C)



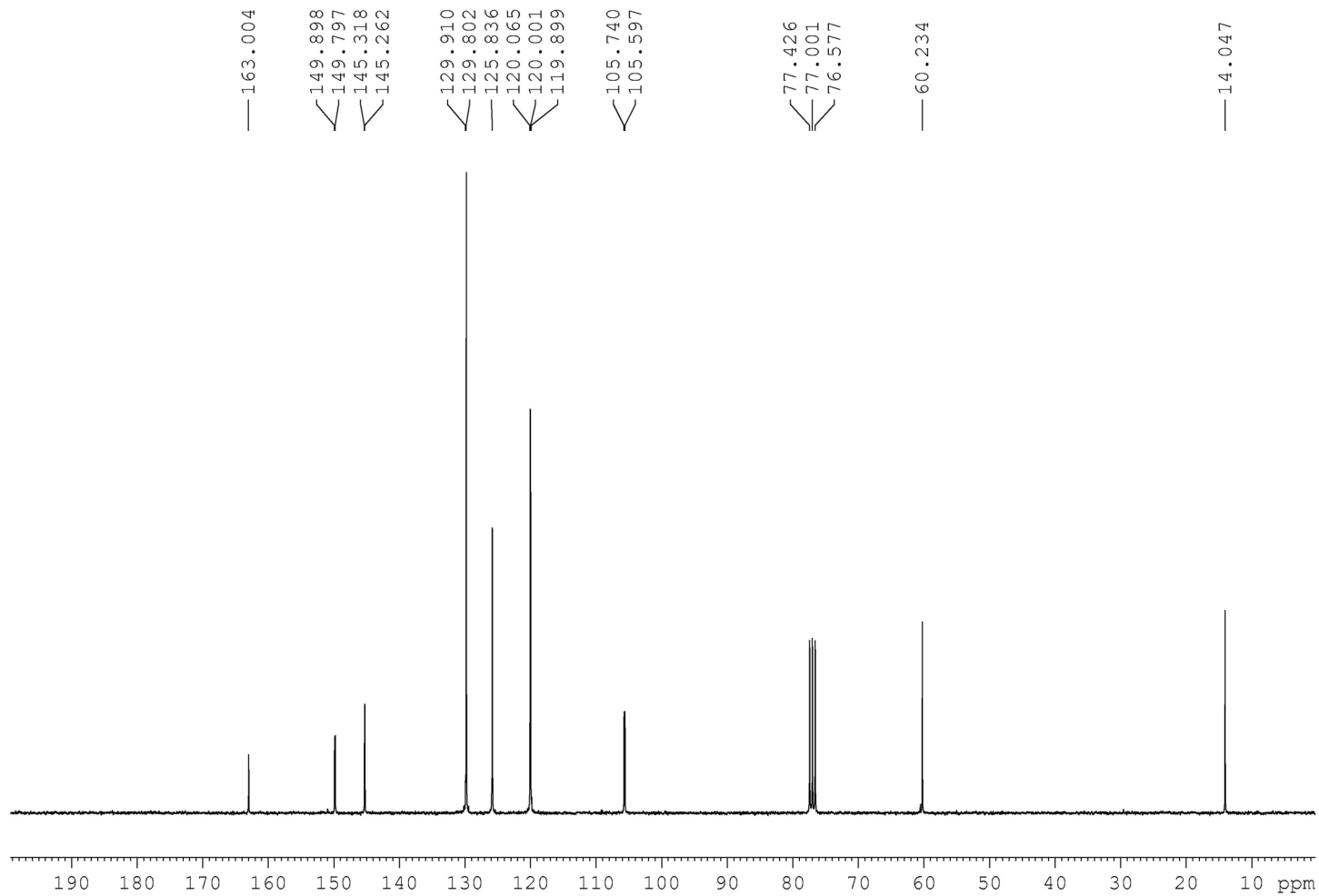
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of (3e) (CDCl_3 , $25\text{ }^\circ\text{C}$)



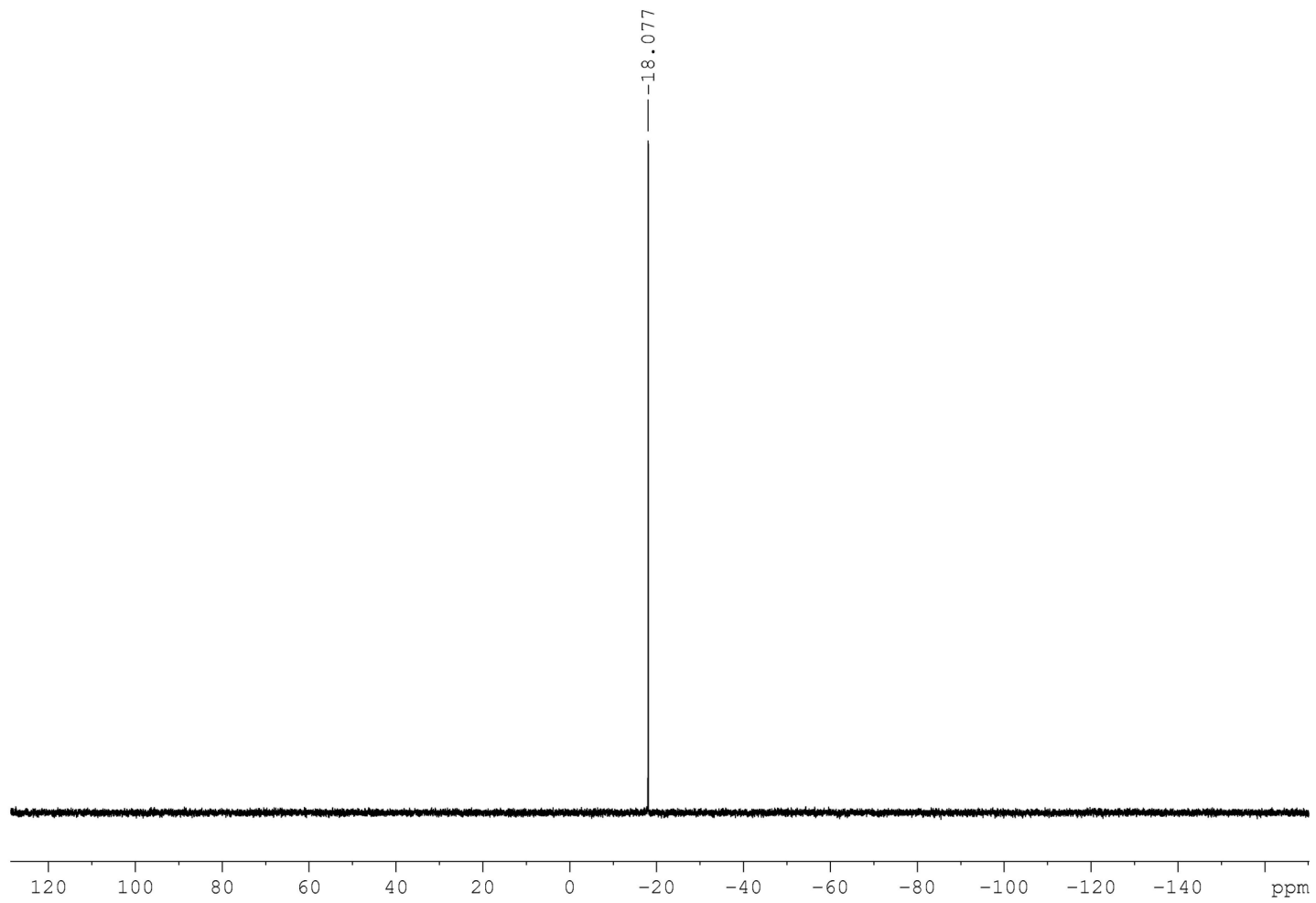
^{31}P NMR spectrum of (3e)



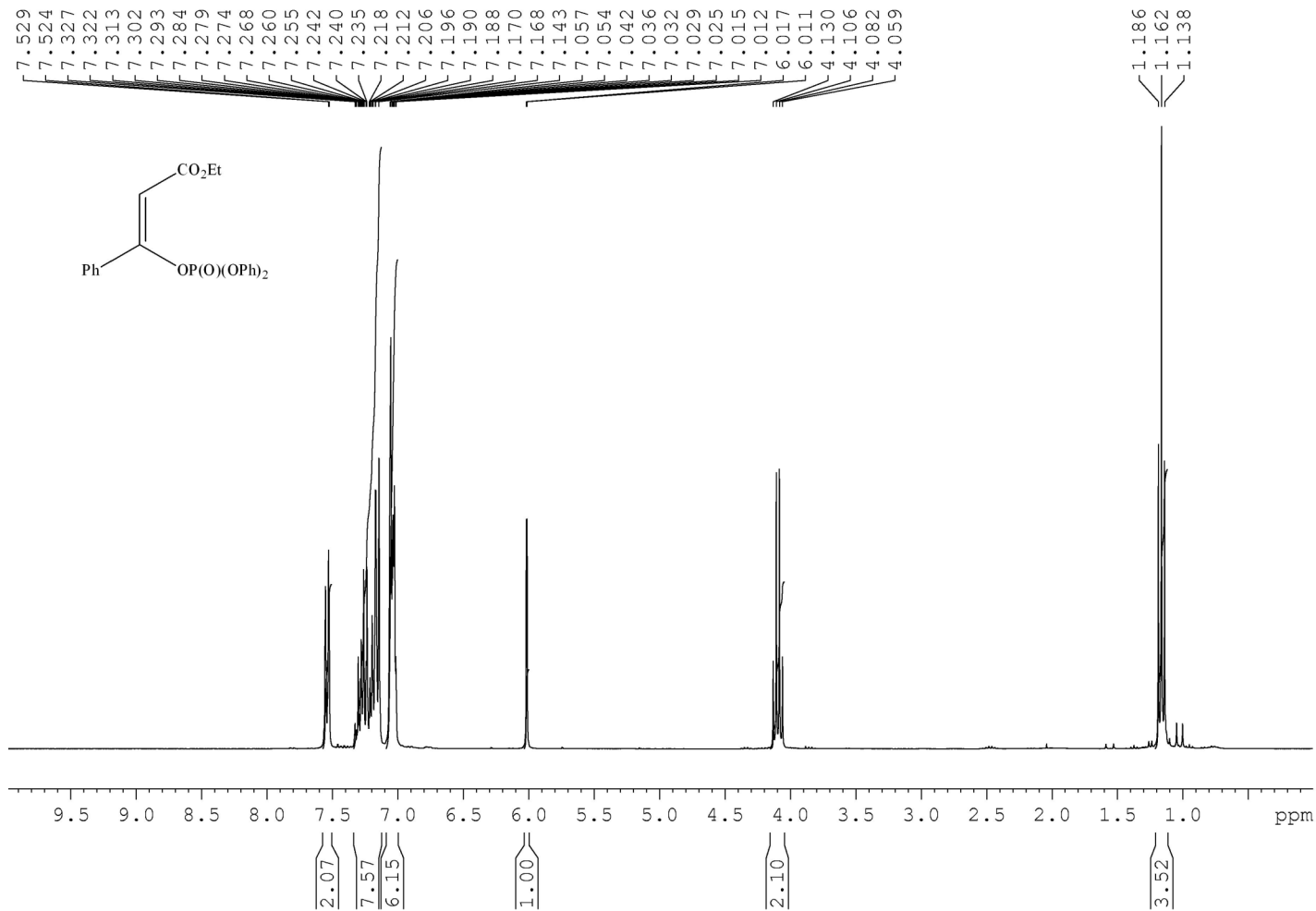
¹H NMR spectrum of (3f) (CDCl₃, 25 °C)



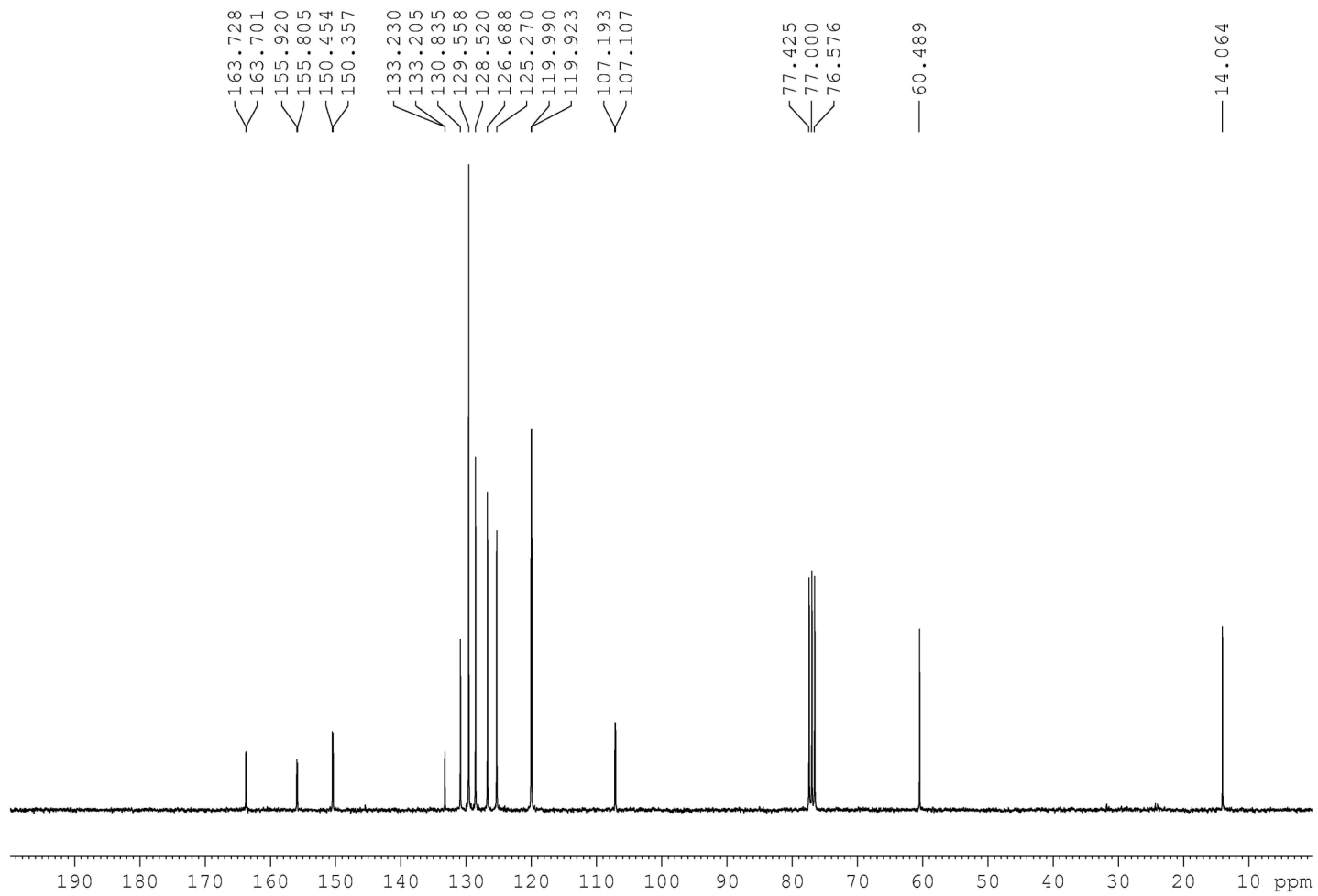
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of (3f) (CDCl_3 , $25\text{ }^\circ\text{C}$)



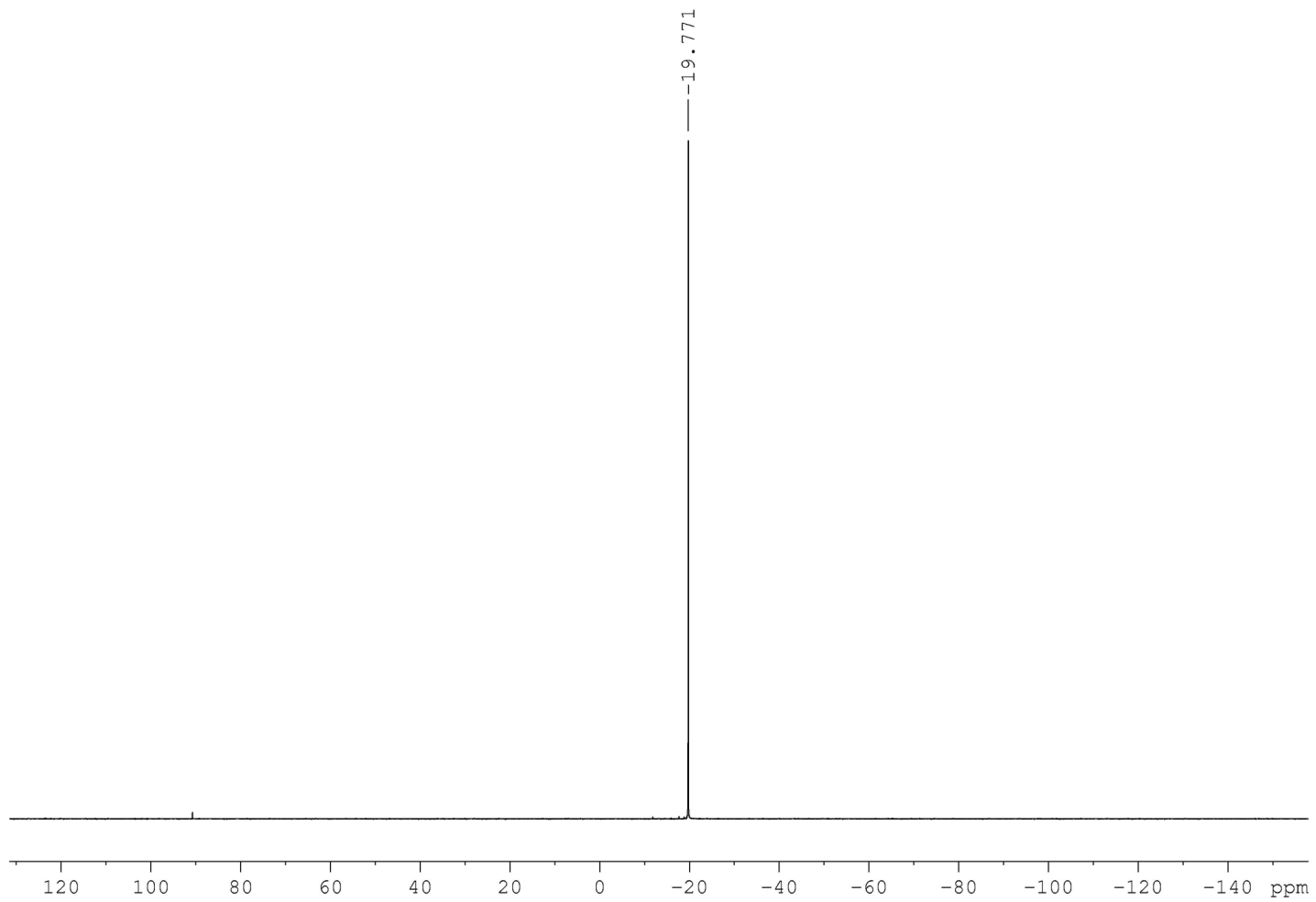
^{31}P NMR spectrum of (3f)



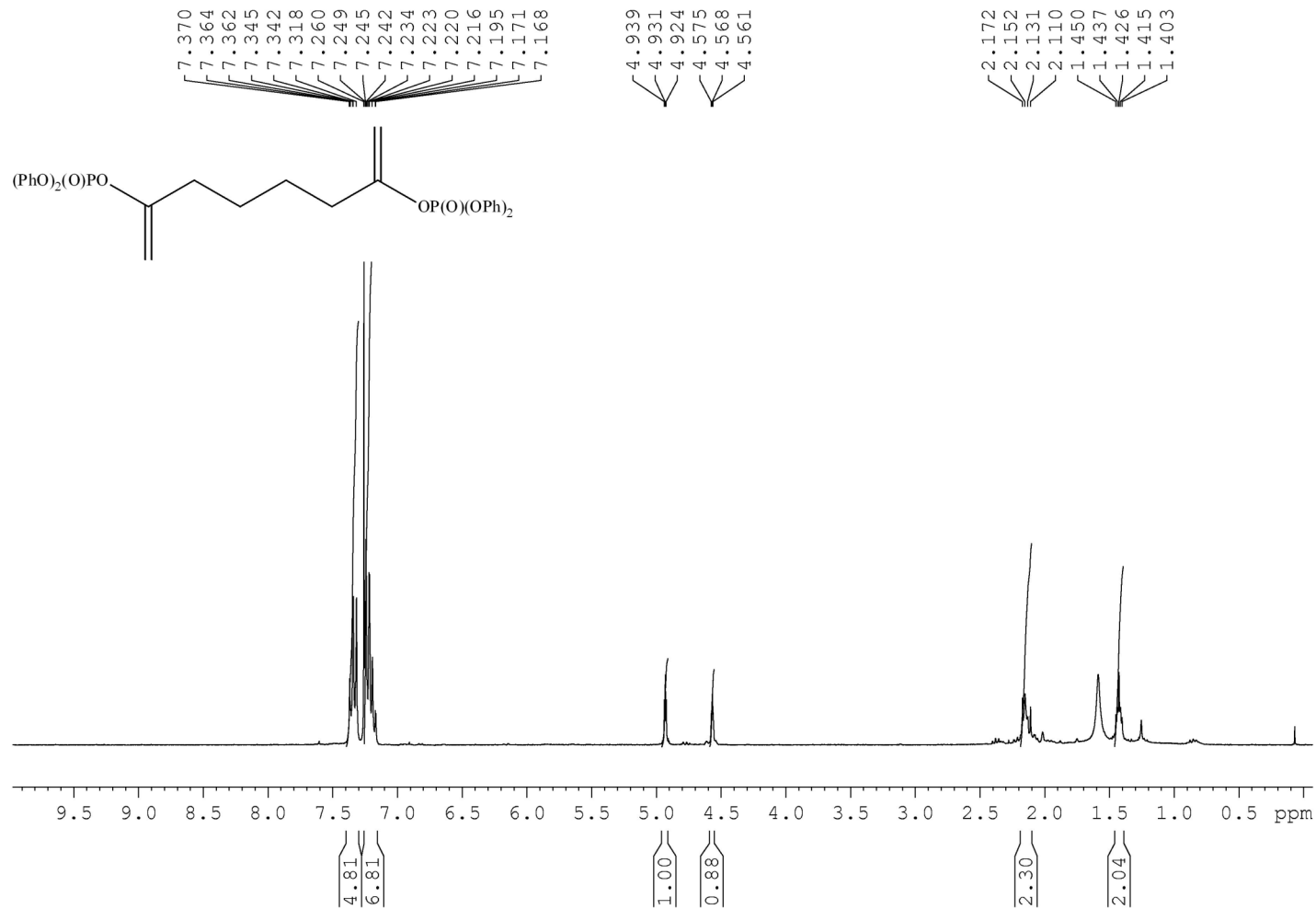
¹H NMR spectrum of (3g) (CDCl₃, 25 °C)



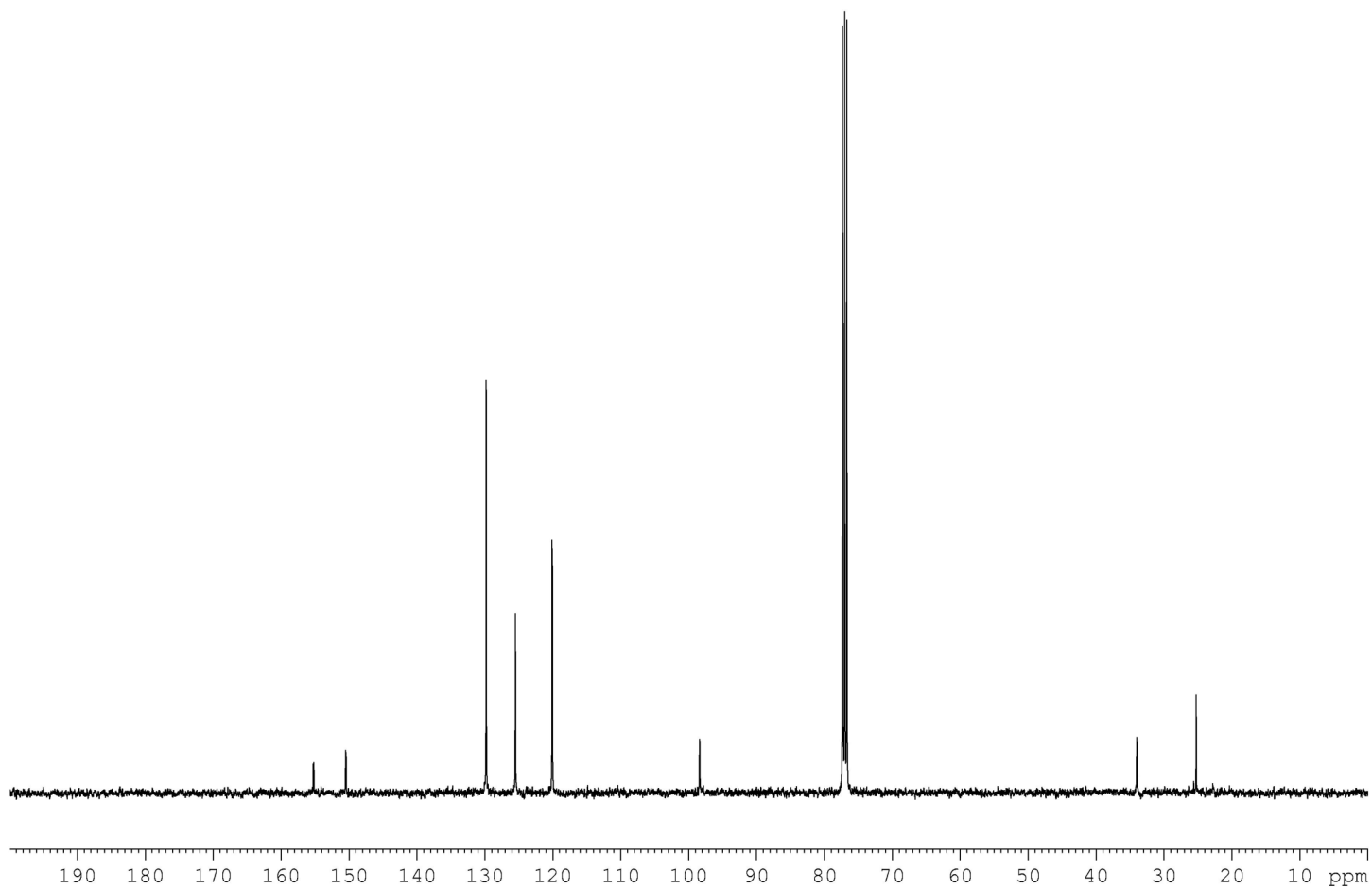
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of **(3g)** (CDCl_3 , $25\text{ }^\circ\text{C}$)



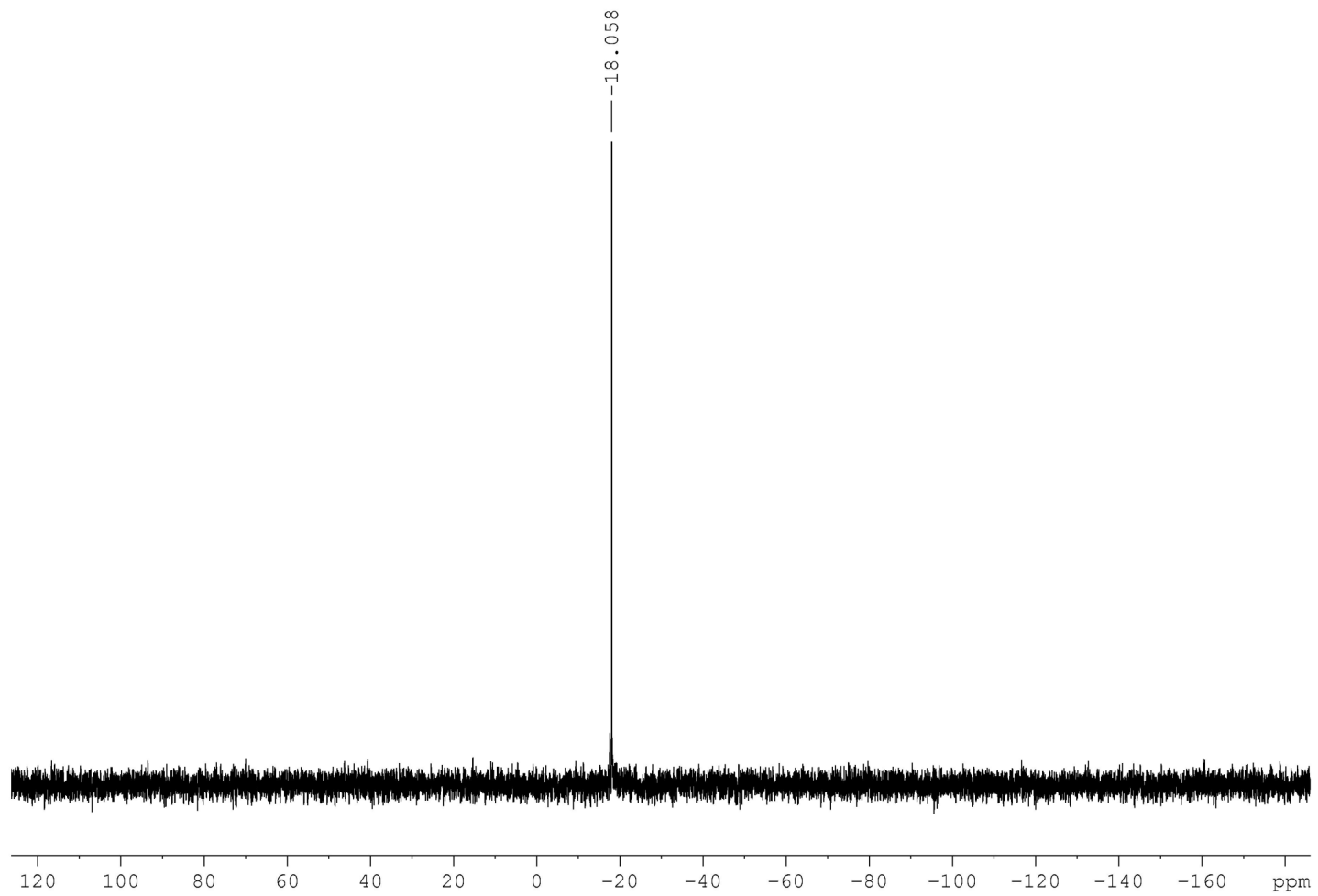
^{31}P NMR spectrum of (3g)



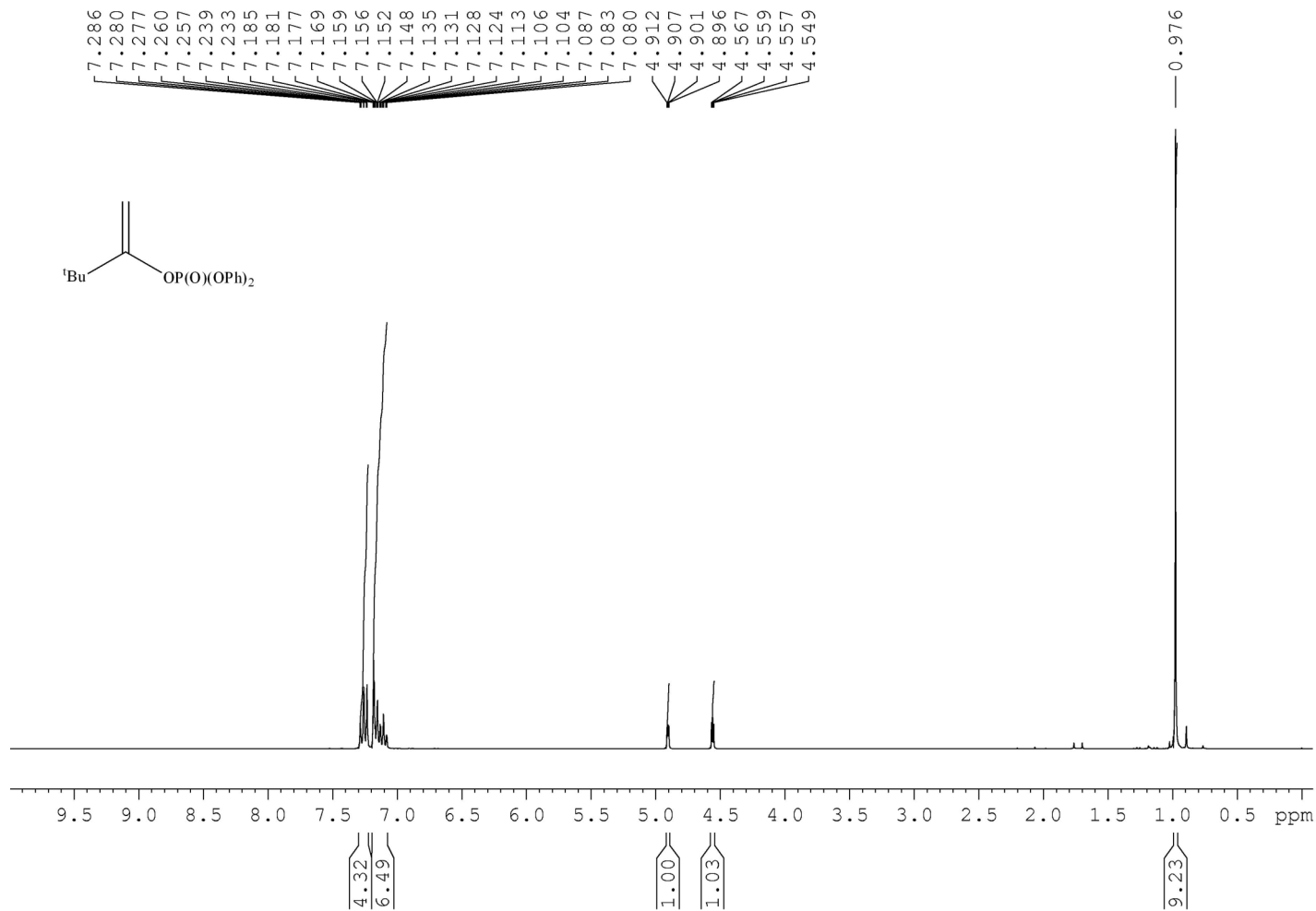
¹H NMR spectrum of (3h) (CDCl₃, 25 °C)



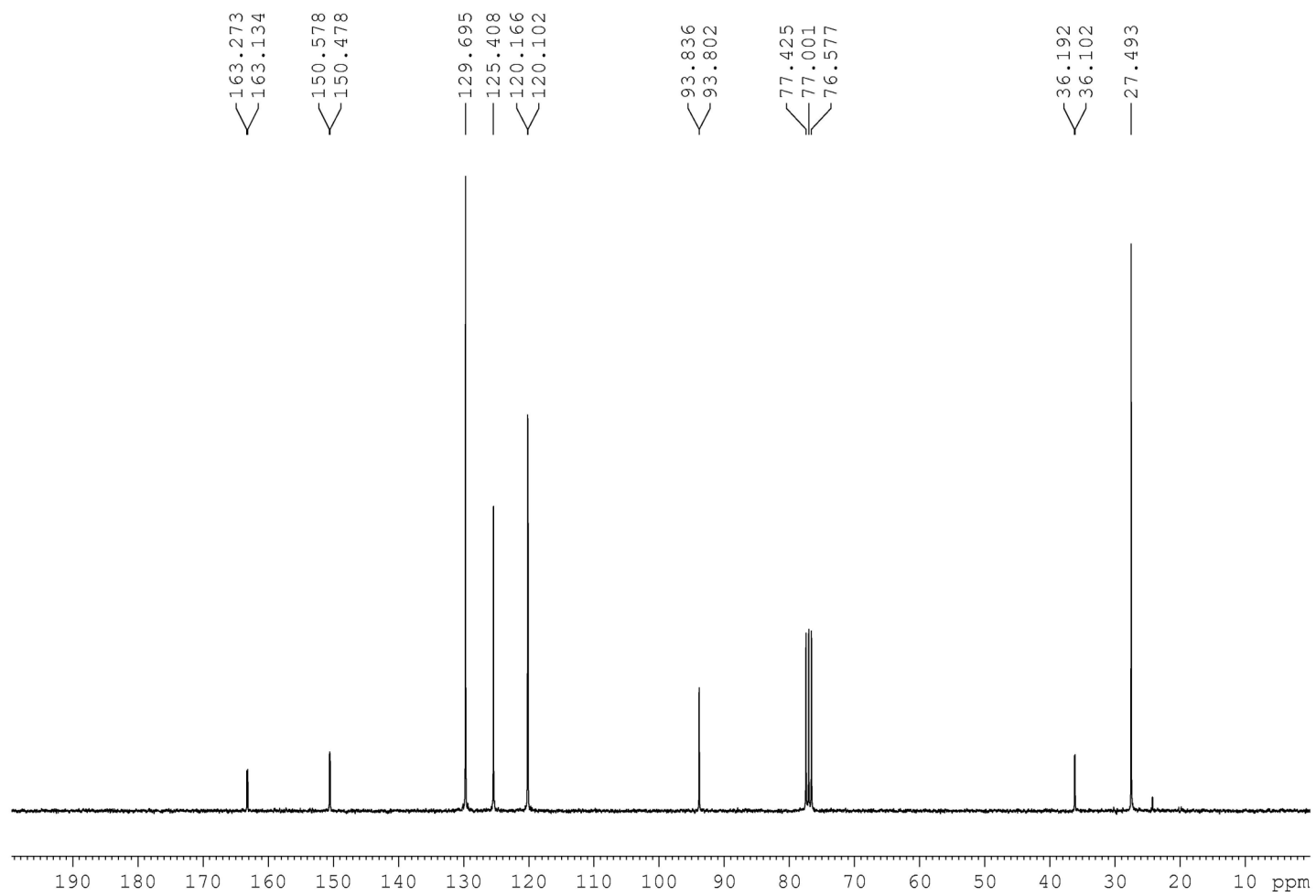
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of **(3h)** (CDCl_3 , $25\text{ }^\circ\text{C}$)



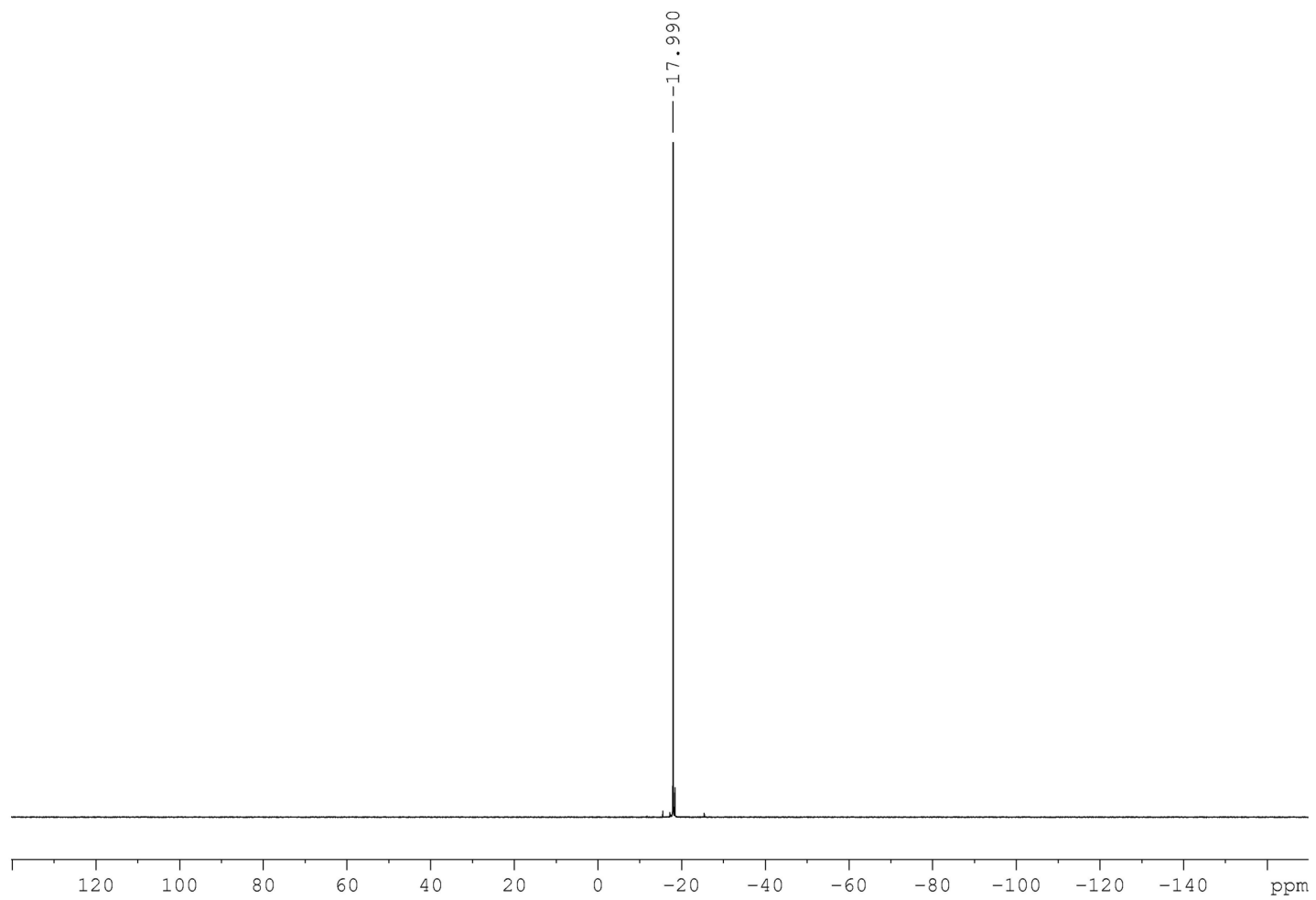
^{31}P NMR spectrum of (3h) (CDCl_3 , 25 °C)



¹H NMR spectrum of (3c) (CDCl₃, 25 °C)



^{13}C $\{^1\text{H}\}$ NMR spectrum of (3c) (CDCl_3 , 25 °C)



^{31}P NMR spectrum of (3c)

