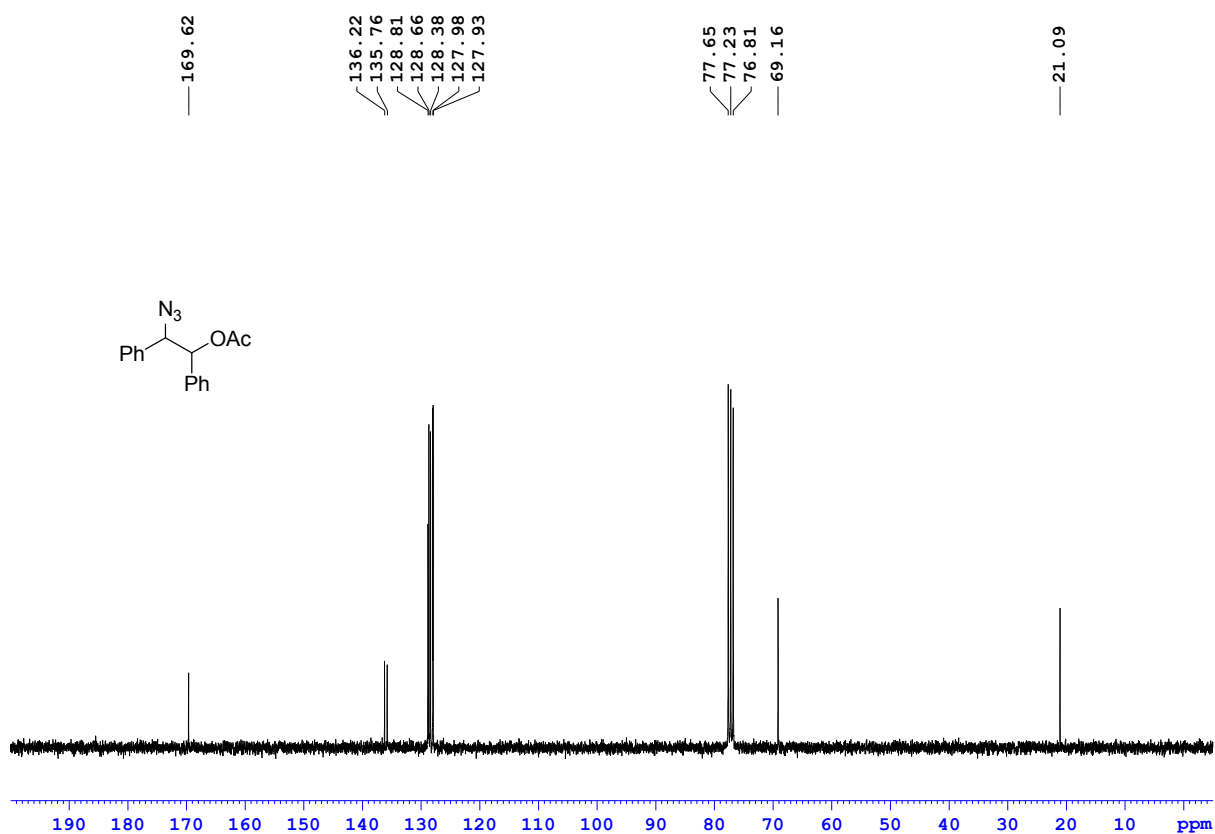
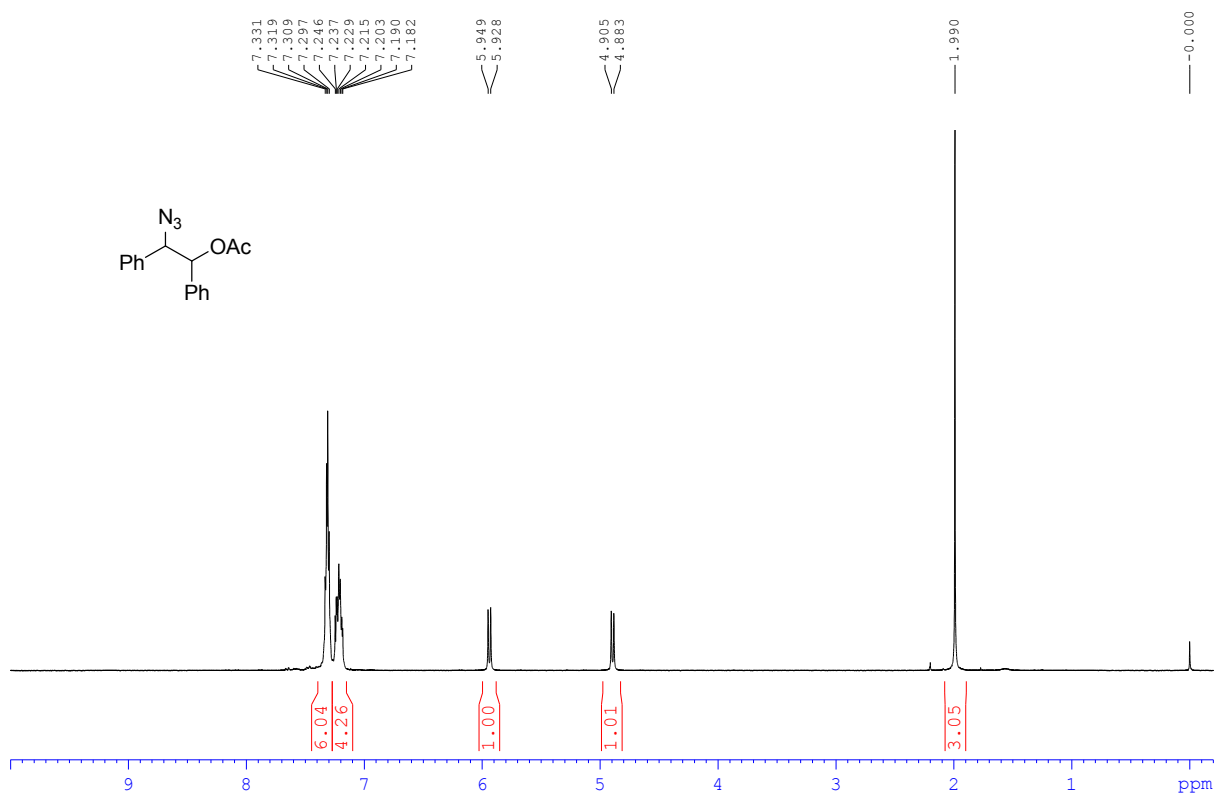


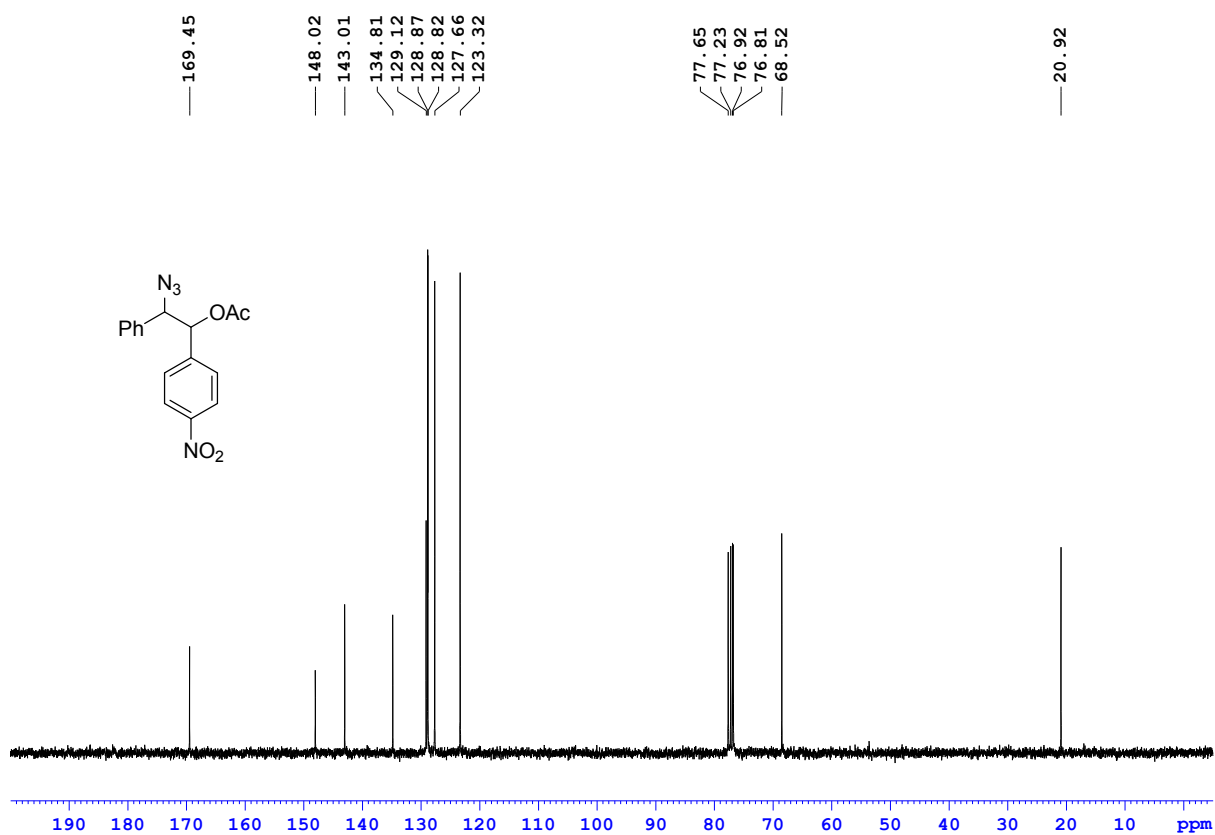
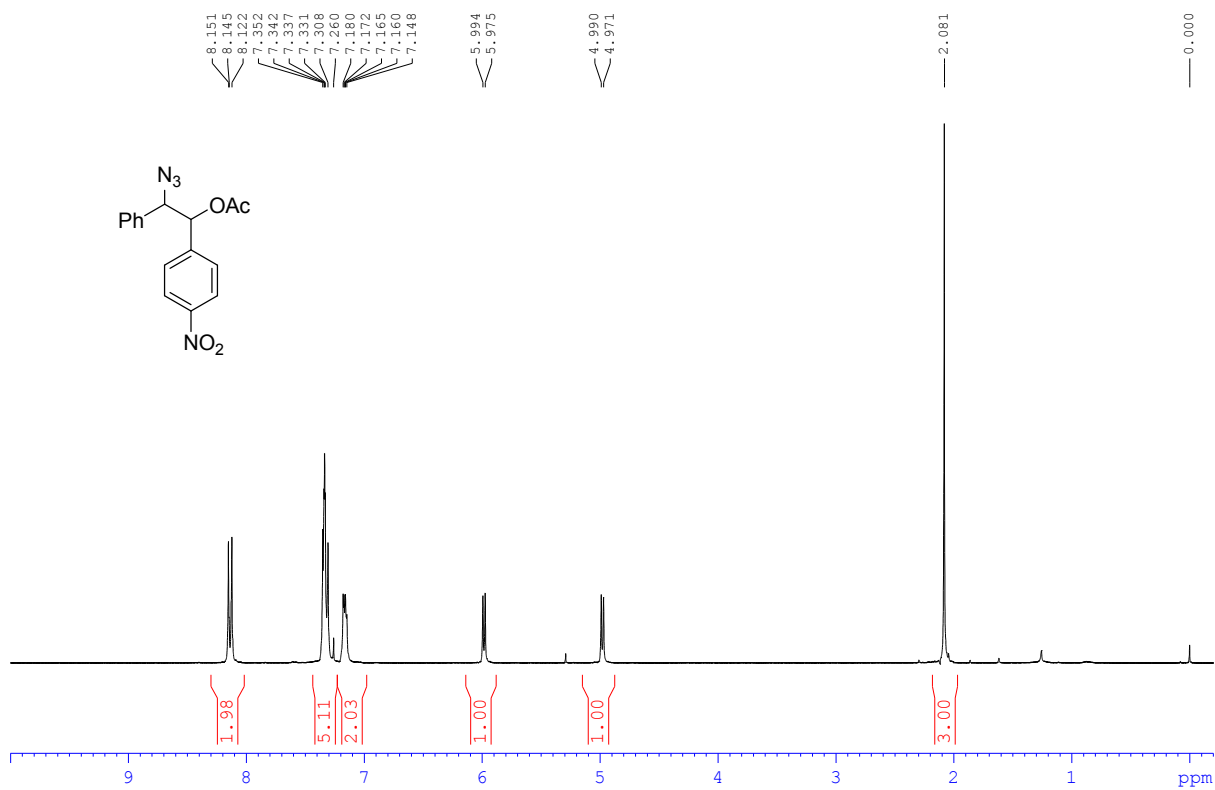
9. NMR Data

9-a. NMR spectrum of substrates

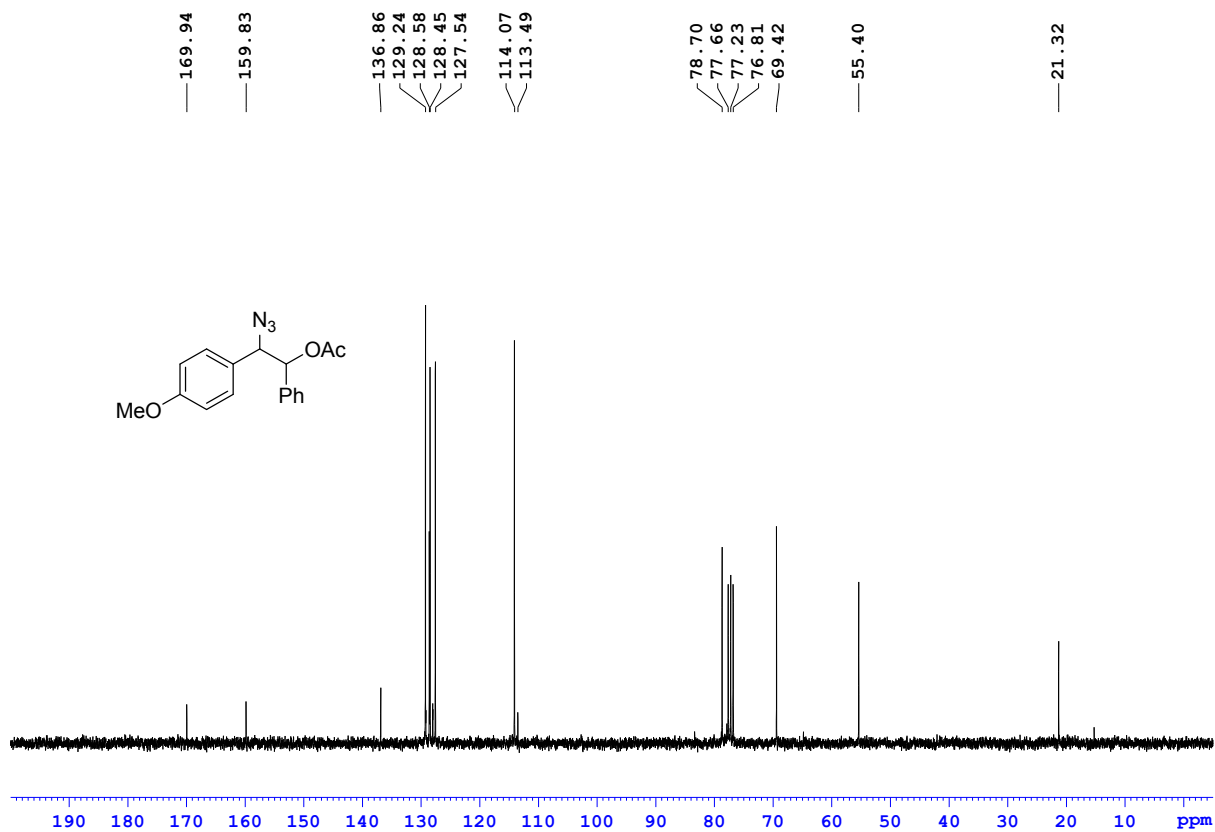
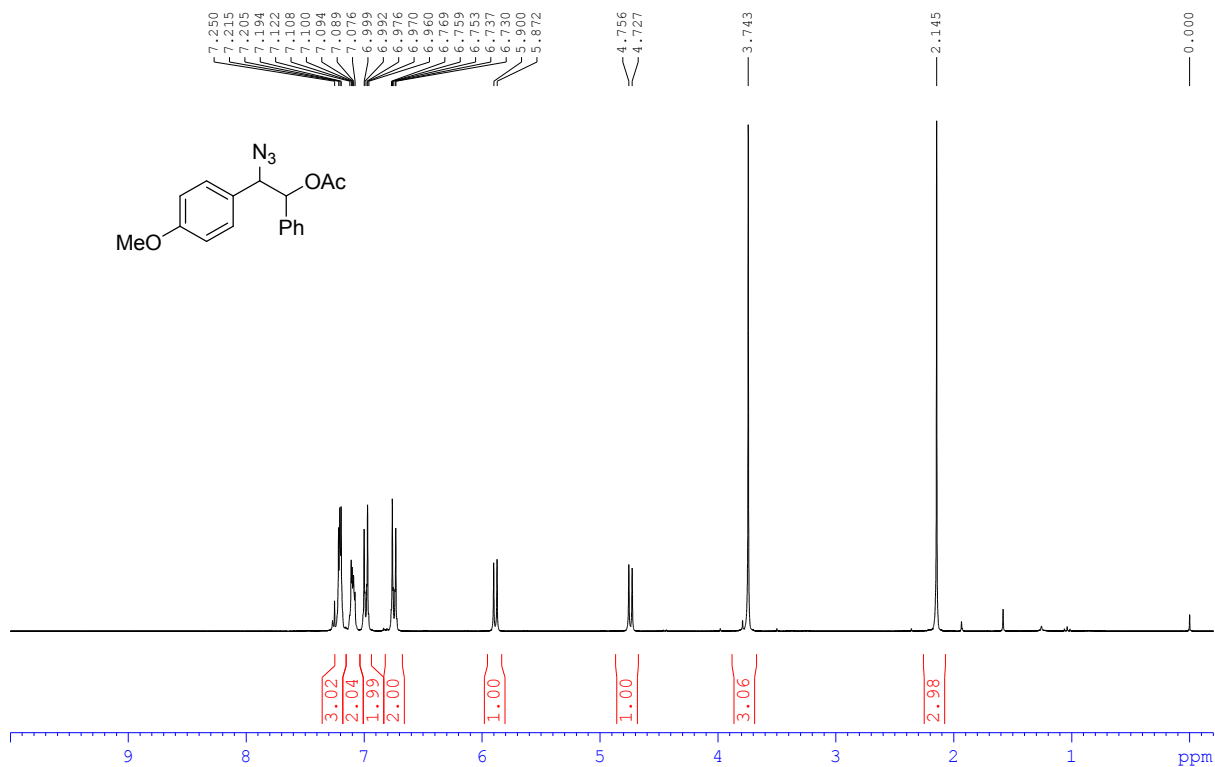
^1H and ^{13}C NMR spectrum of **2a**



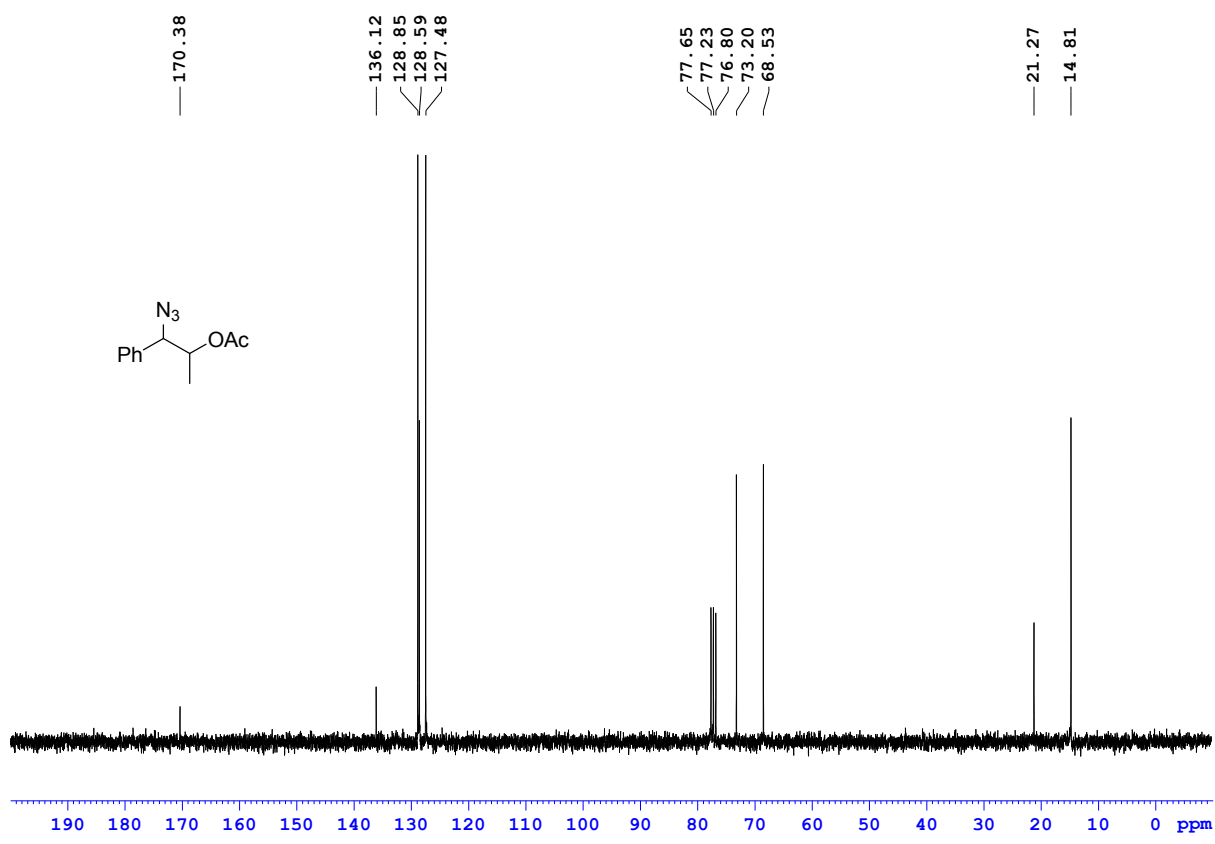
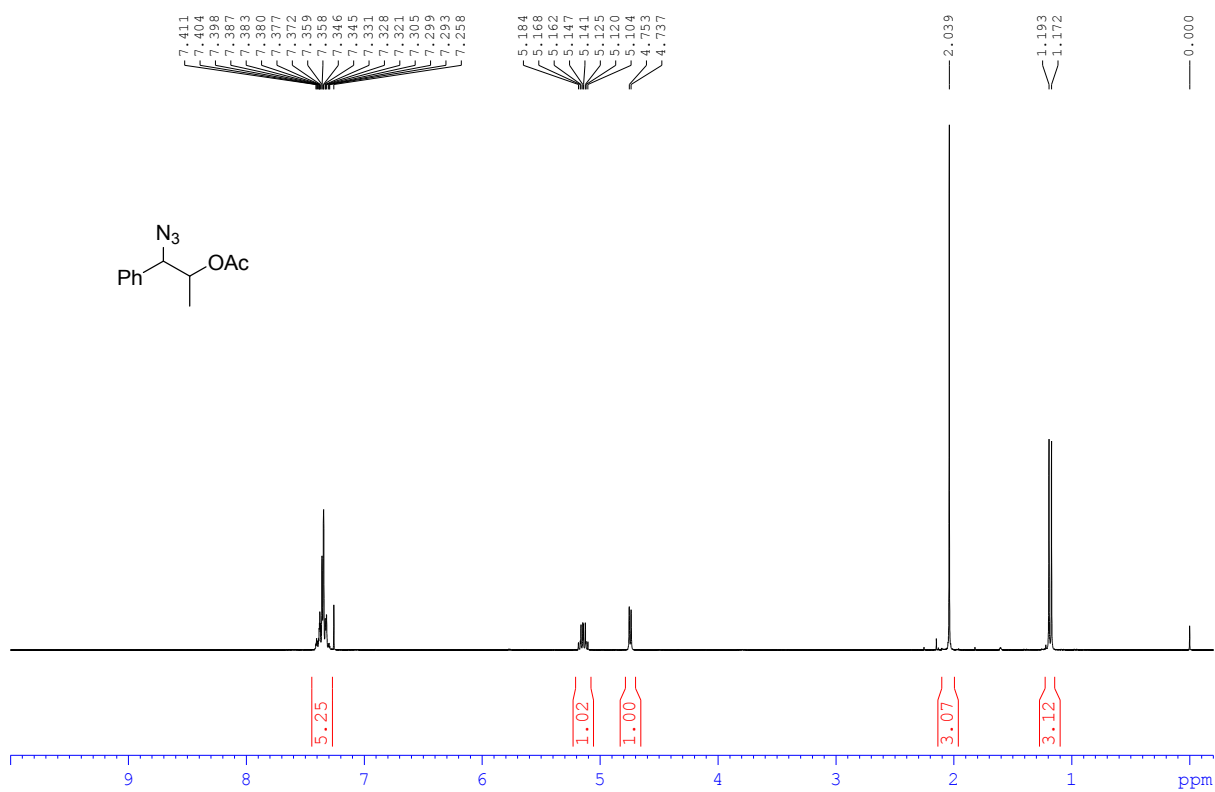
¹H and ¹³C NMR spectrum of **2b**



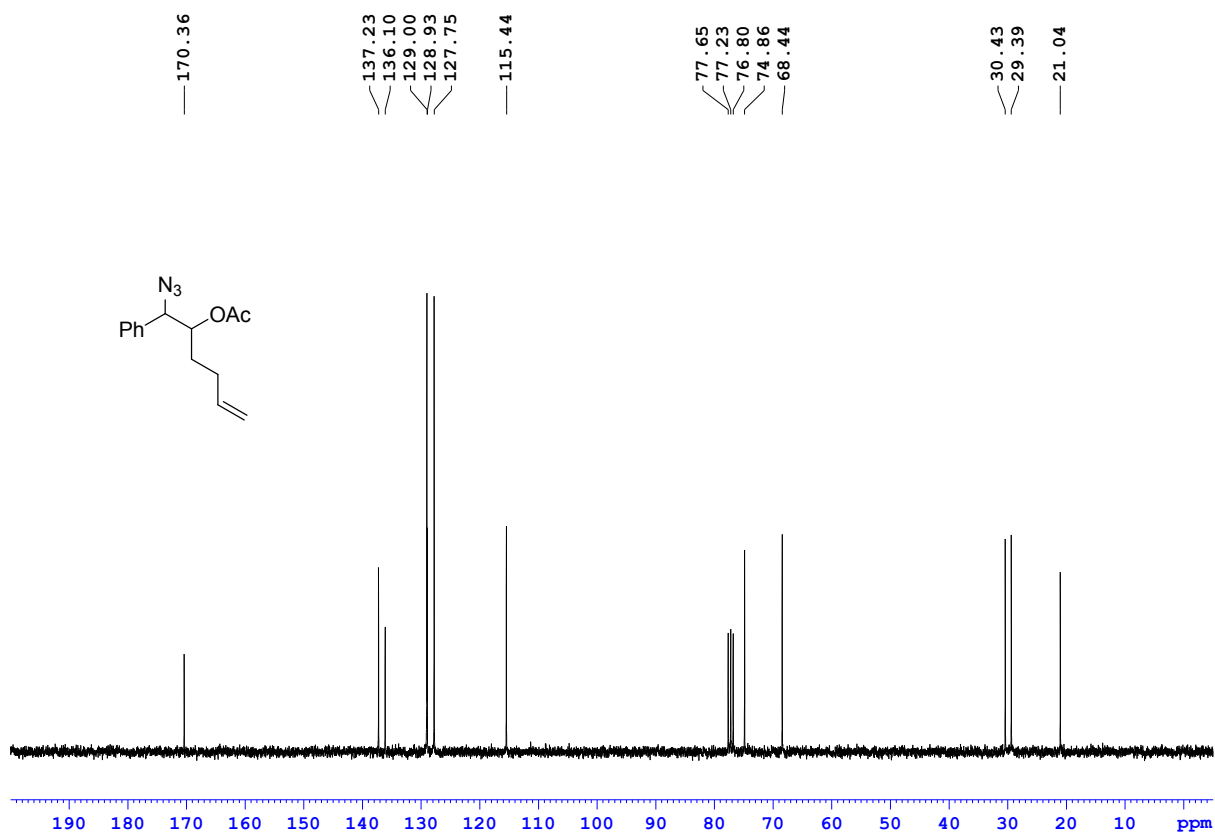
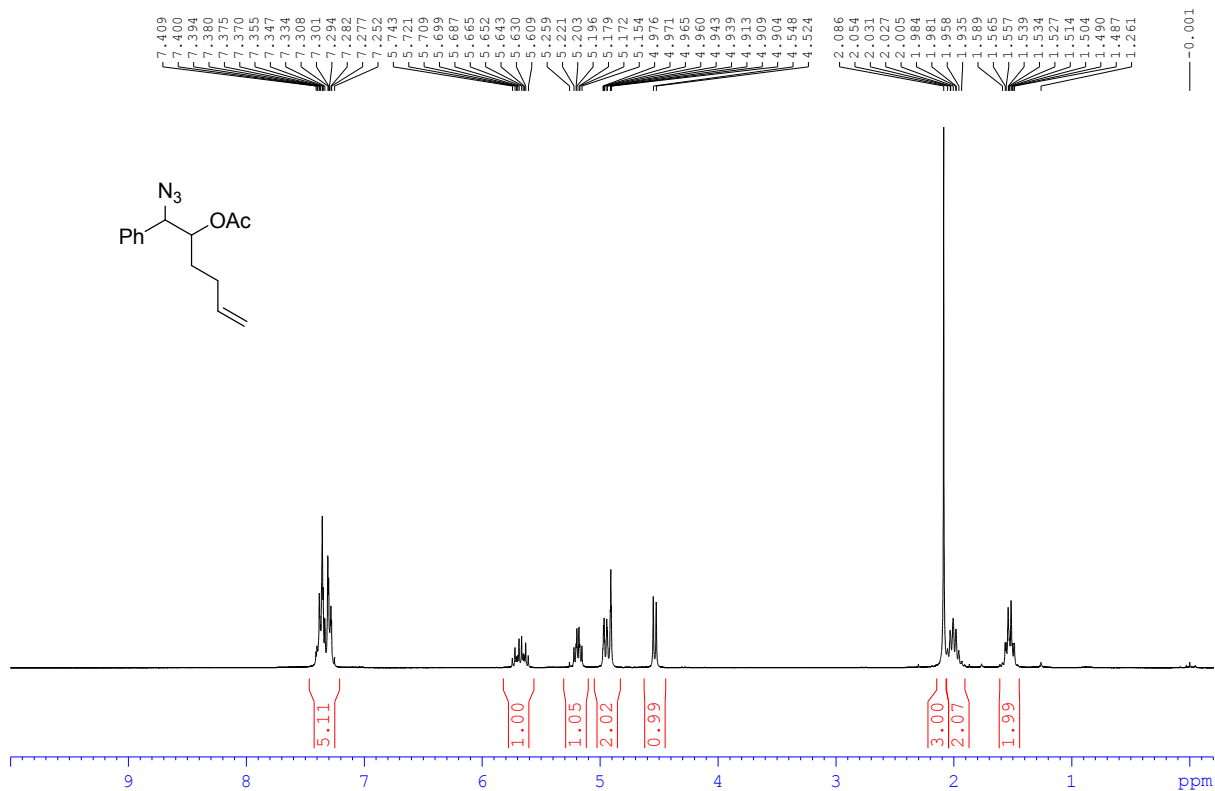
^1H and ^{13}C NMR spectrum of **2c**



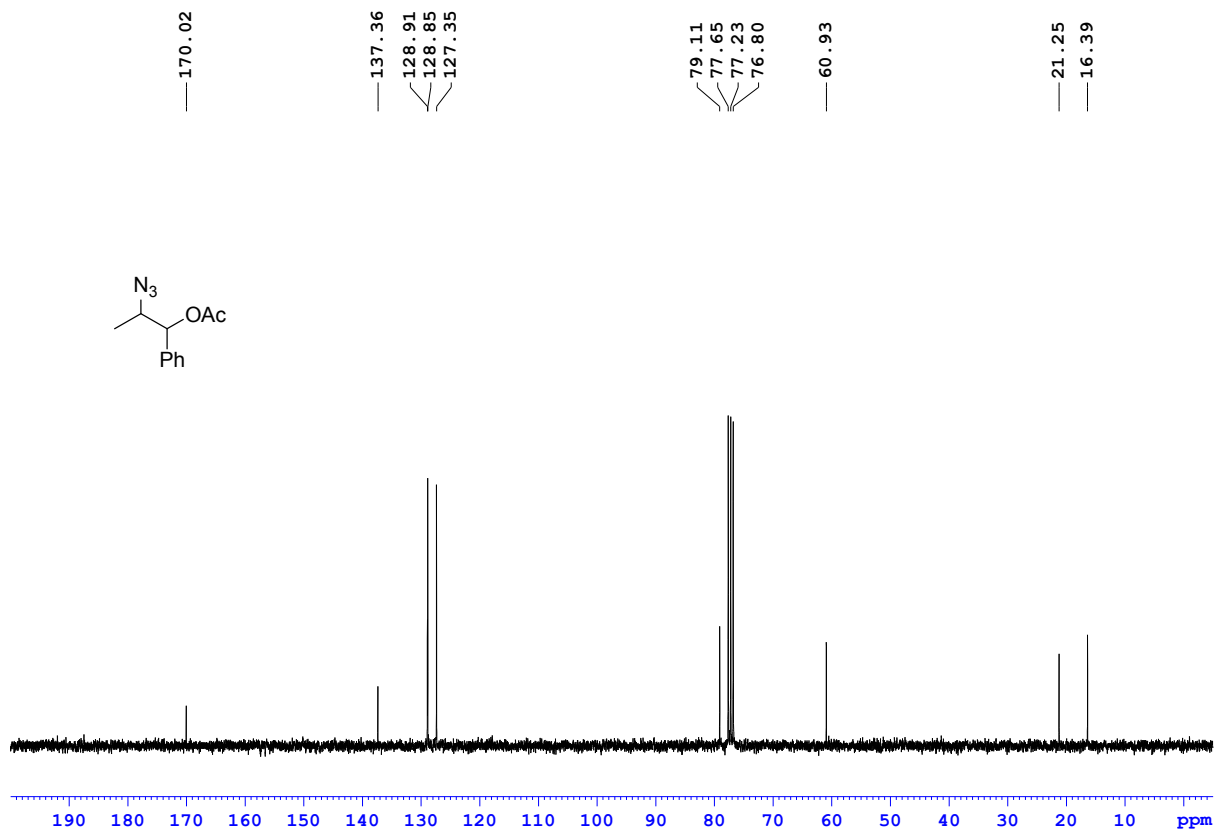
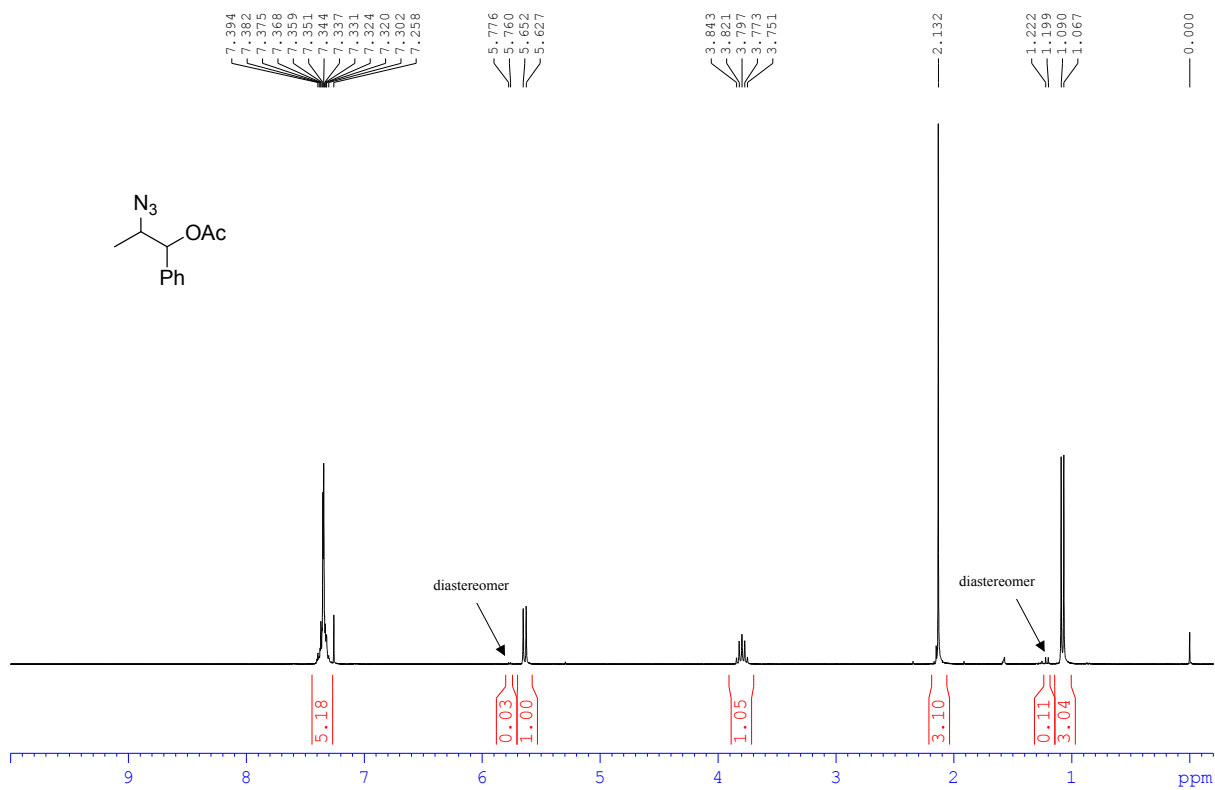
¹H and ¹³C NMR spectrum of **2d**



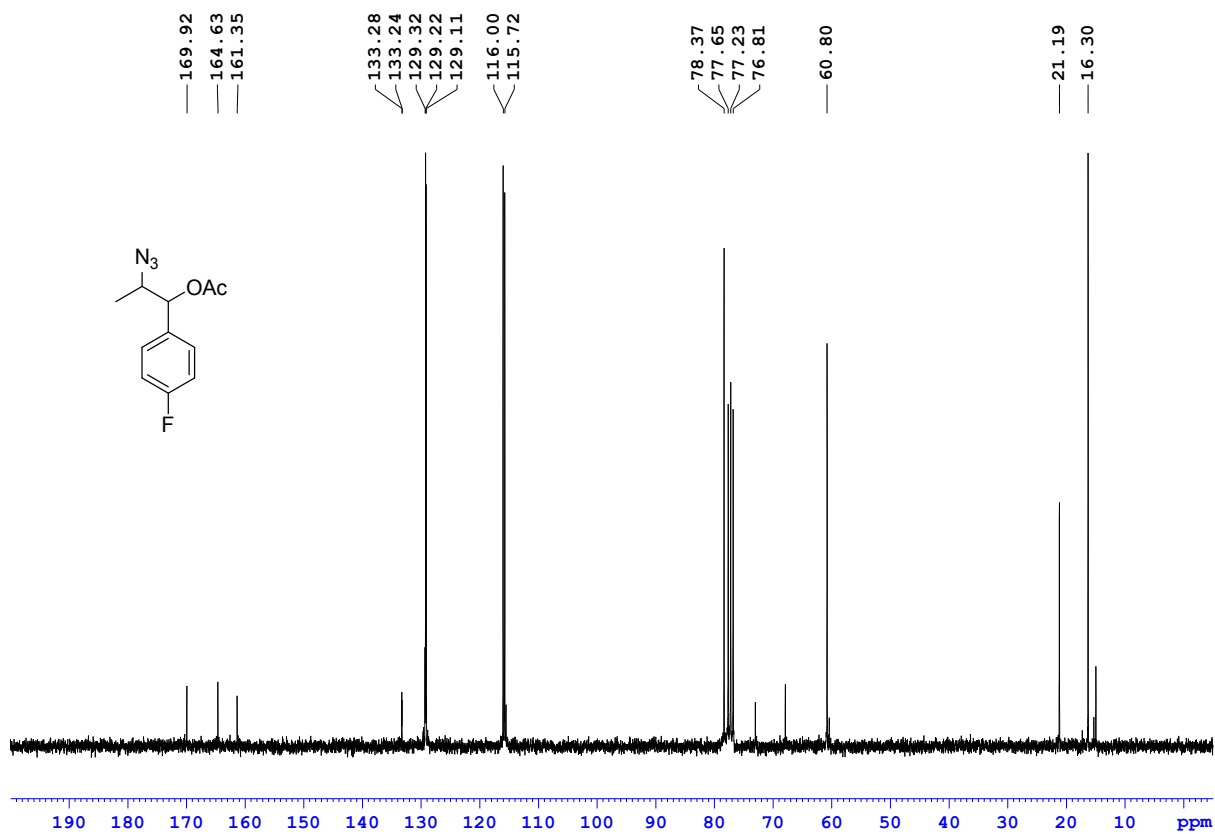
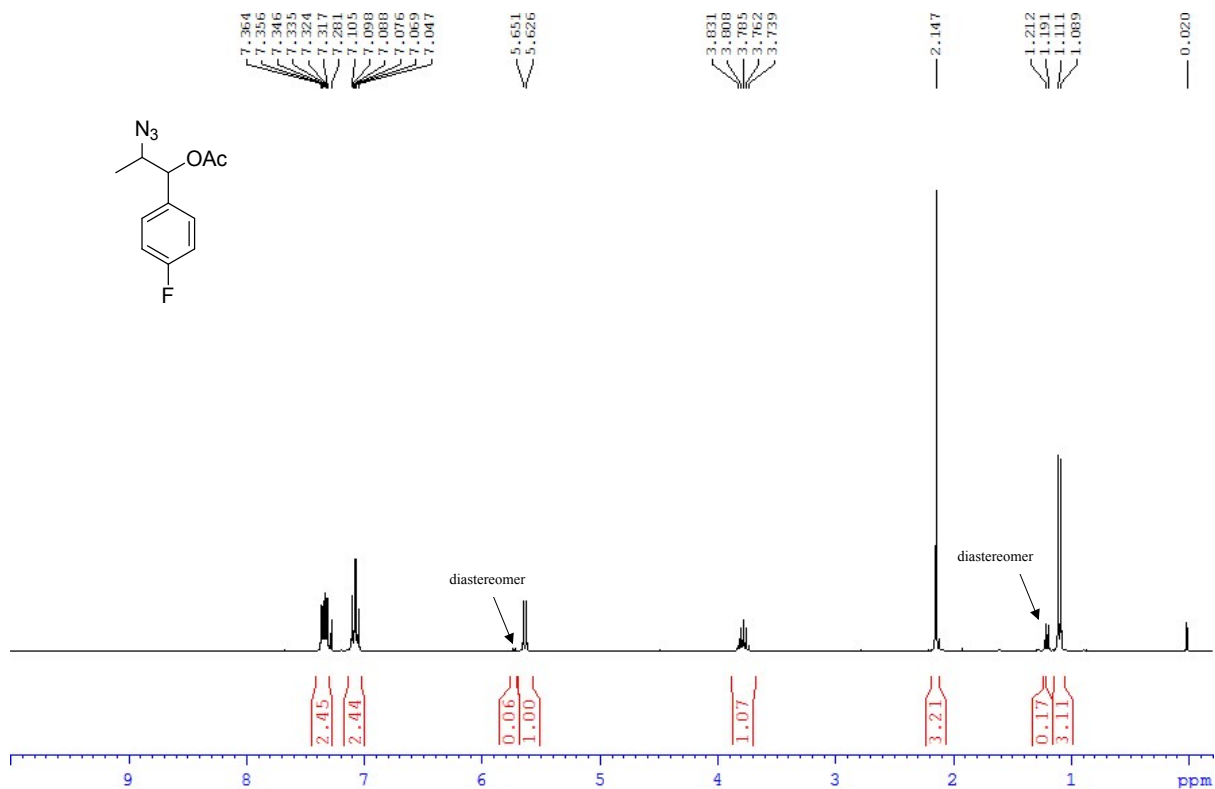
¹H and ¹³C NMR spectrum of **2e**



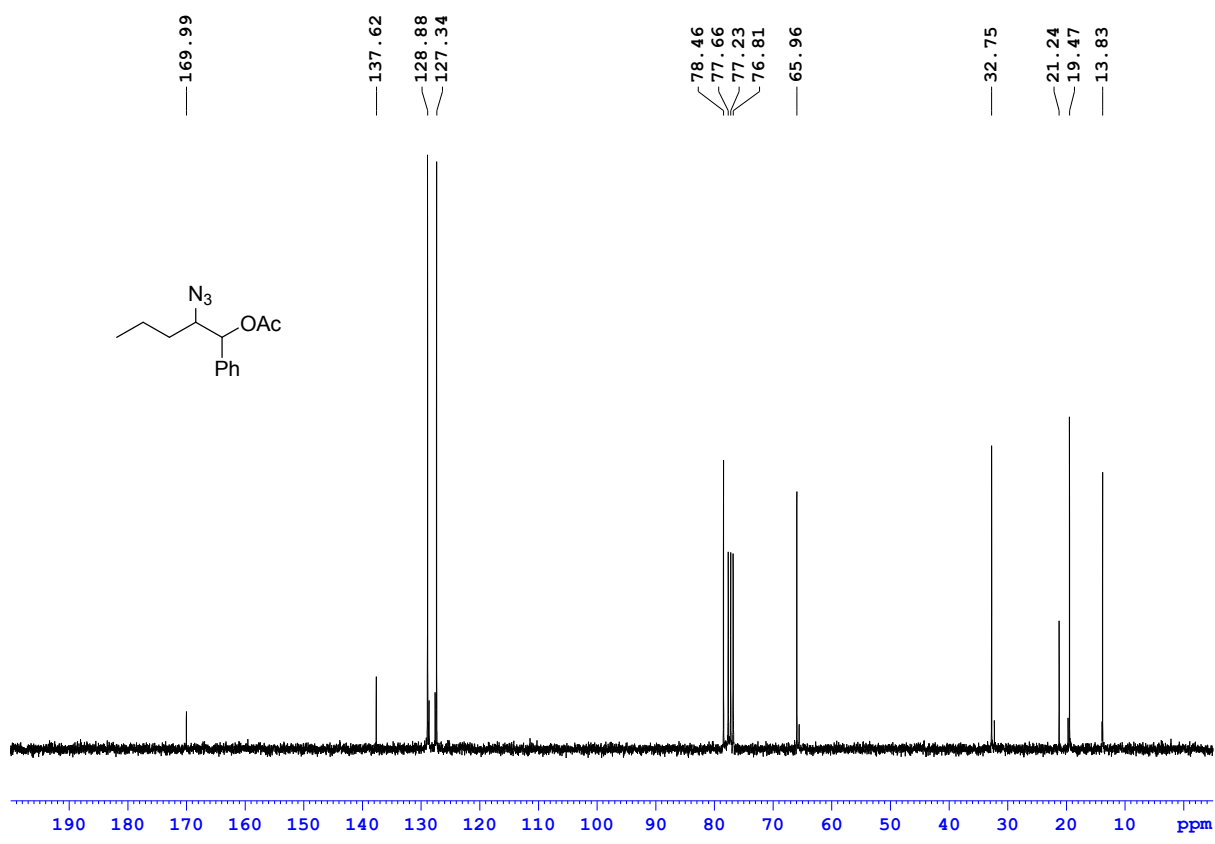
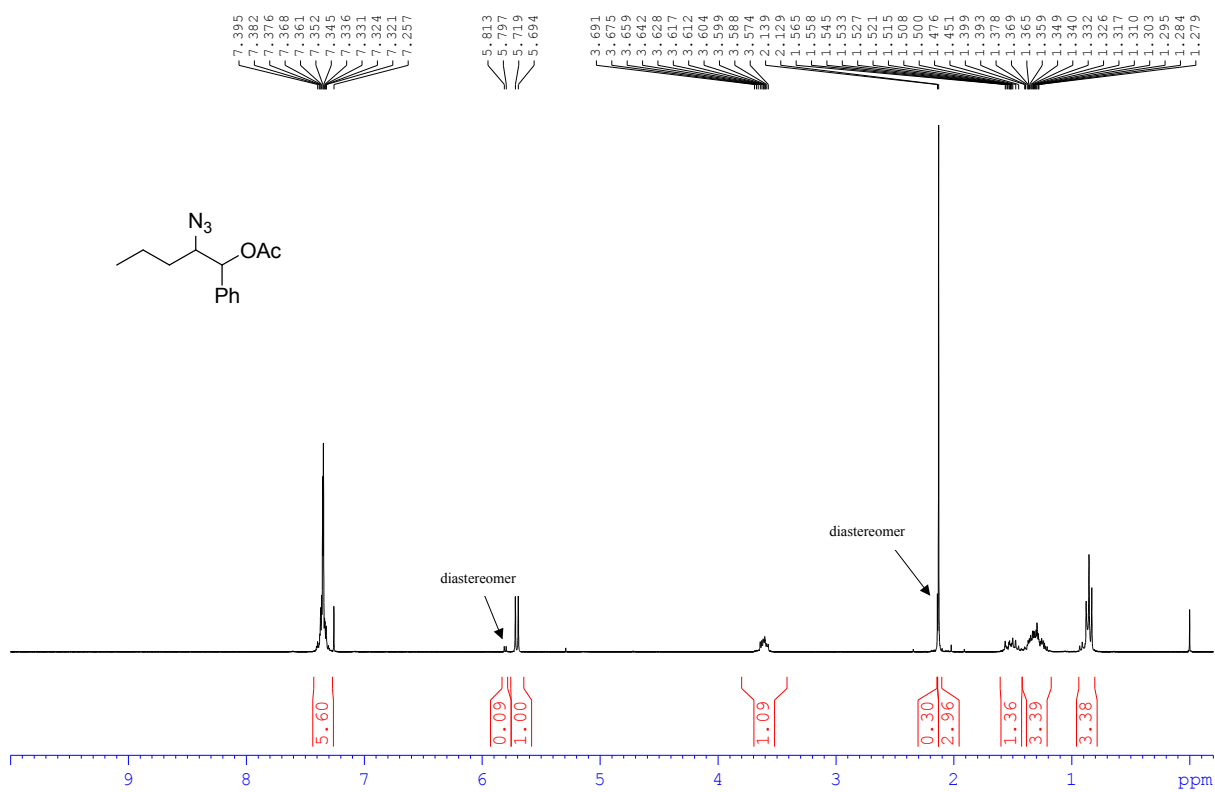
^1H and ^{13}C NMR spectrum of **2f**



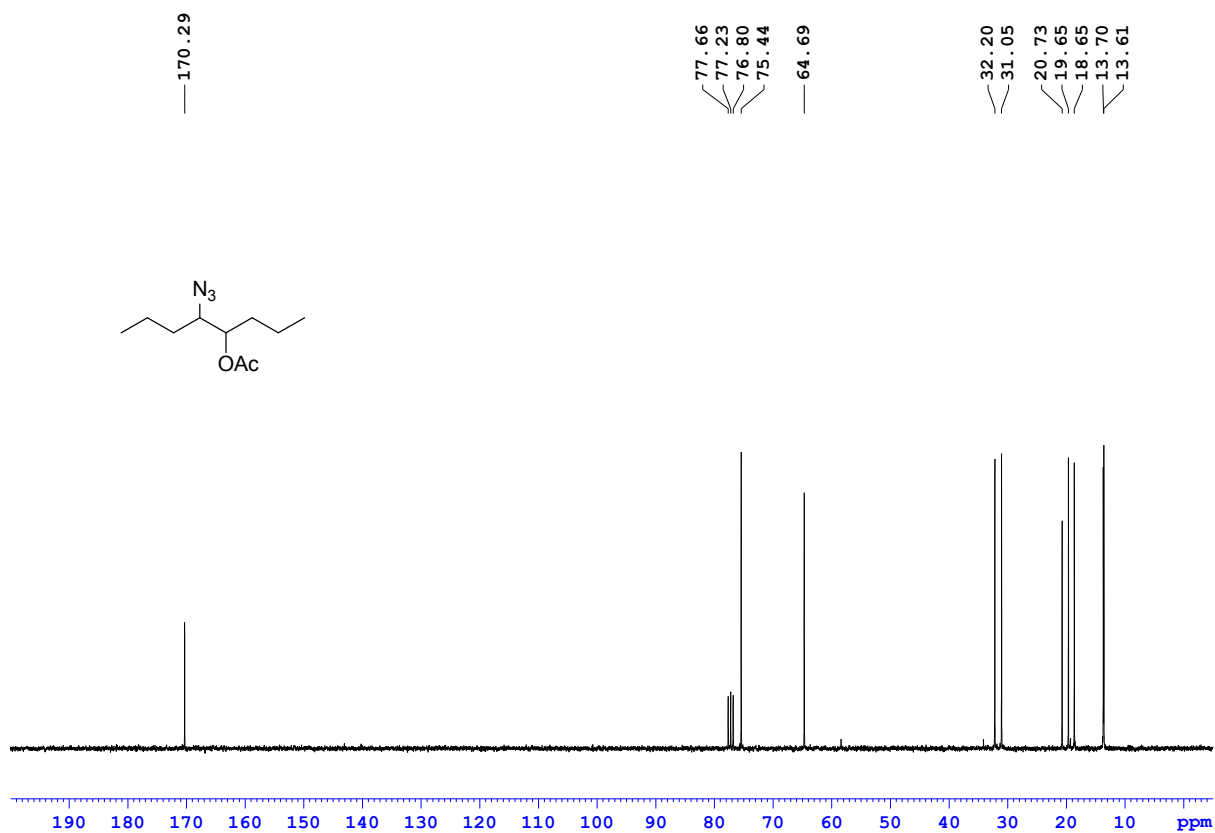
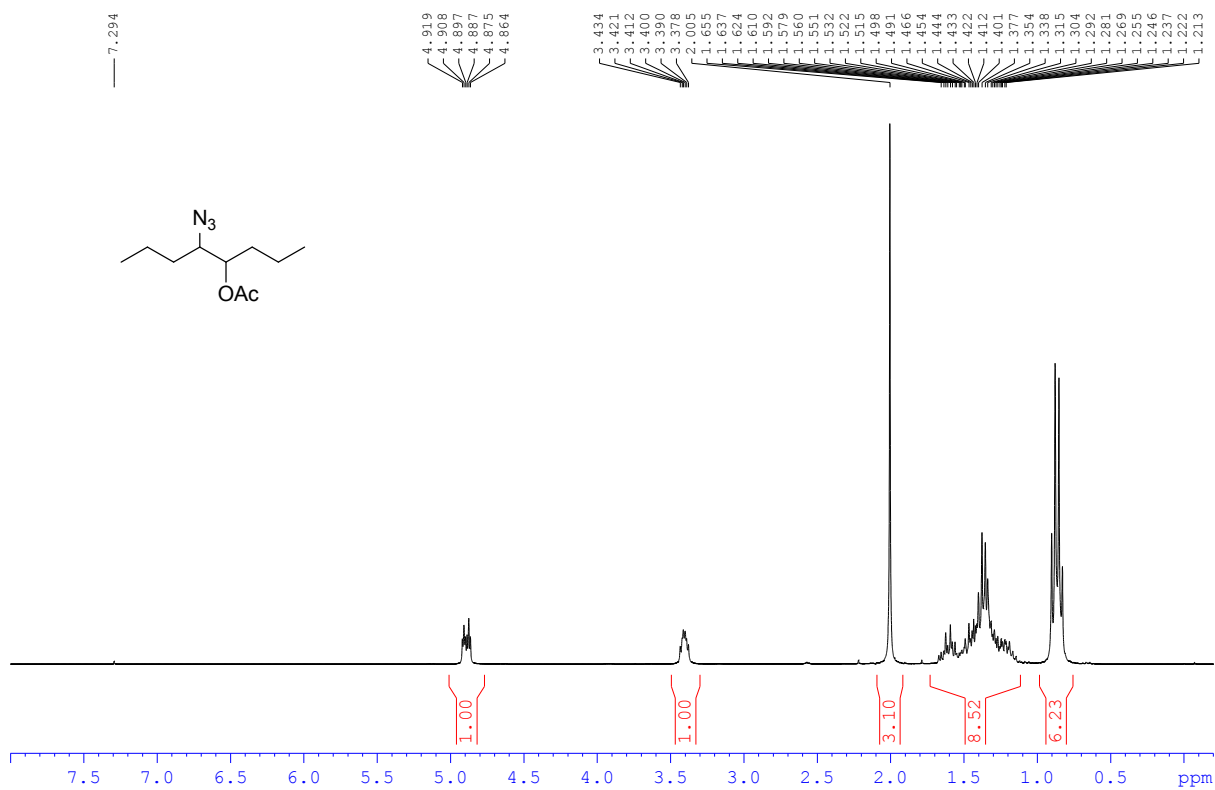
¹H and ¹³C NMR spectrum of **2g**



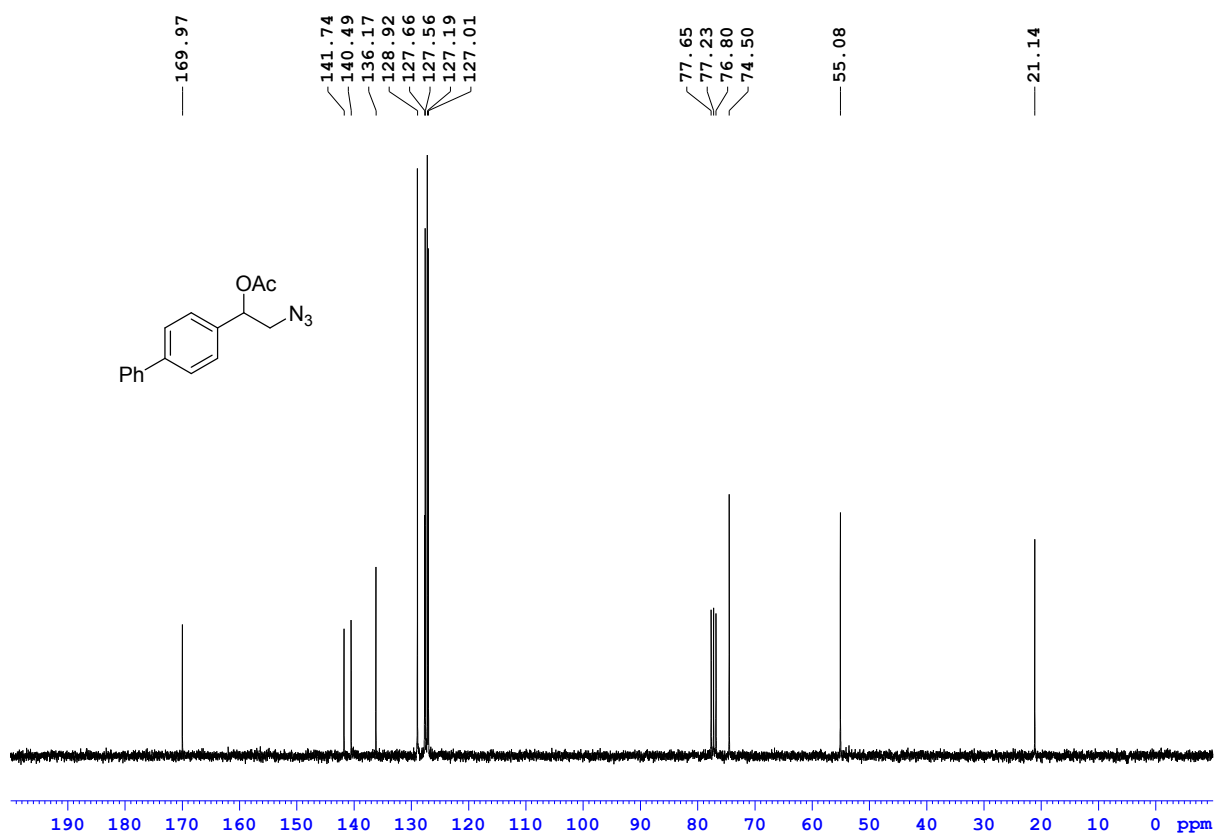
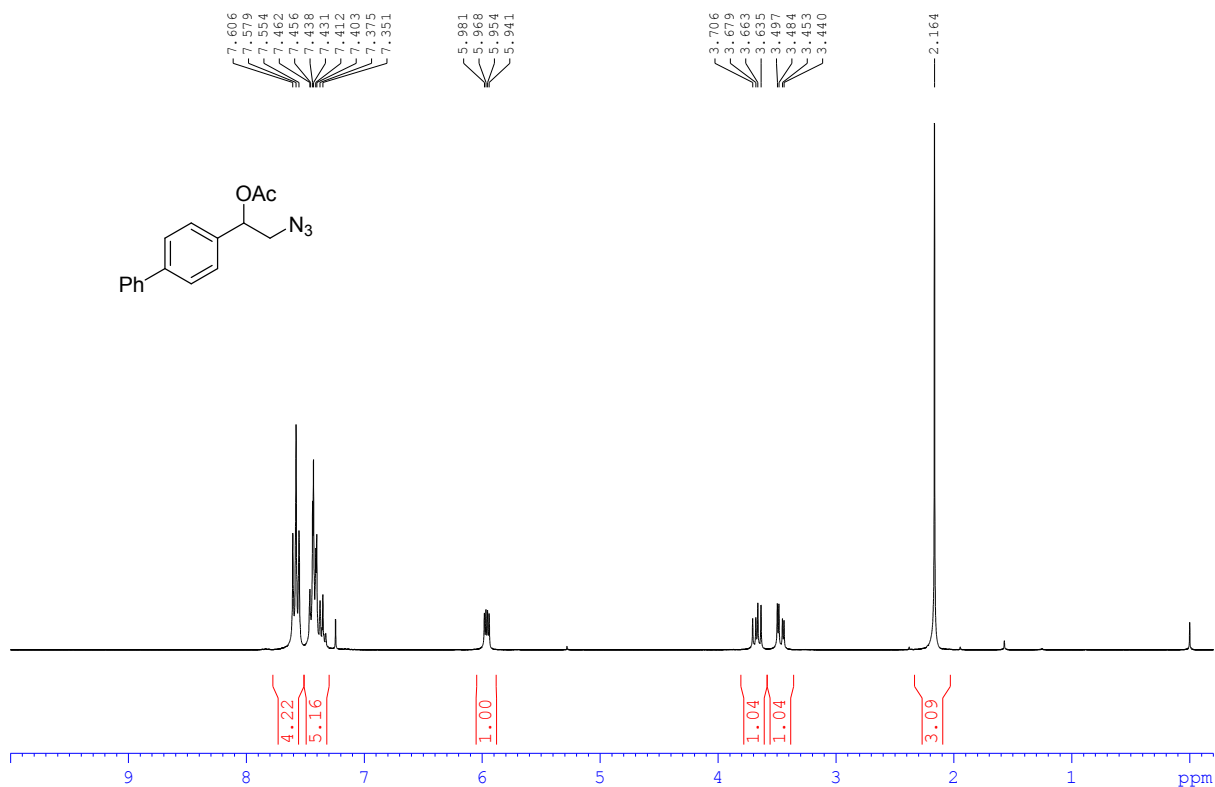
¹H and ¹³C NMR spectrum of **2i**



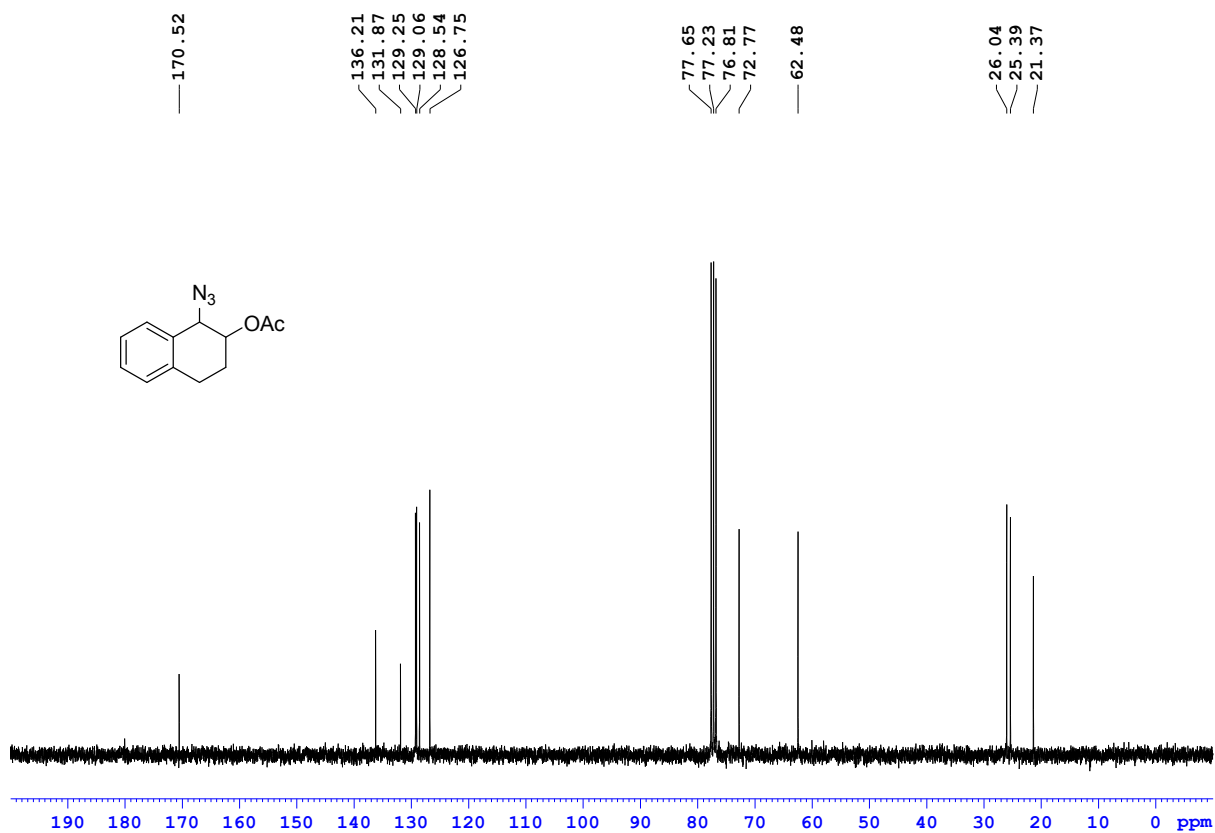
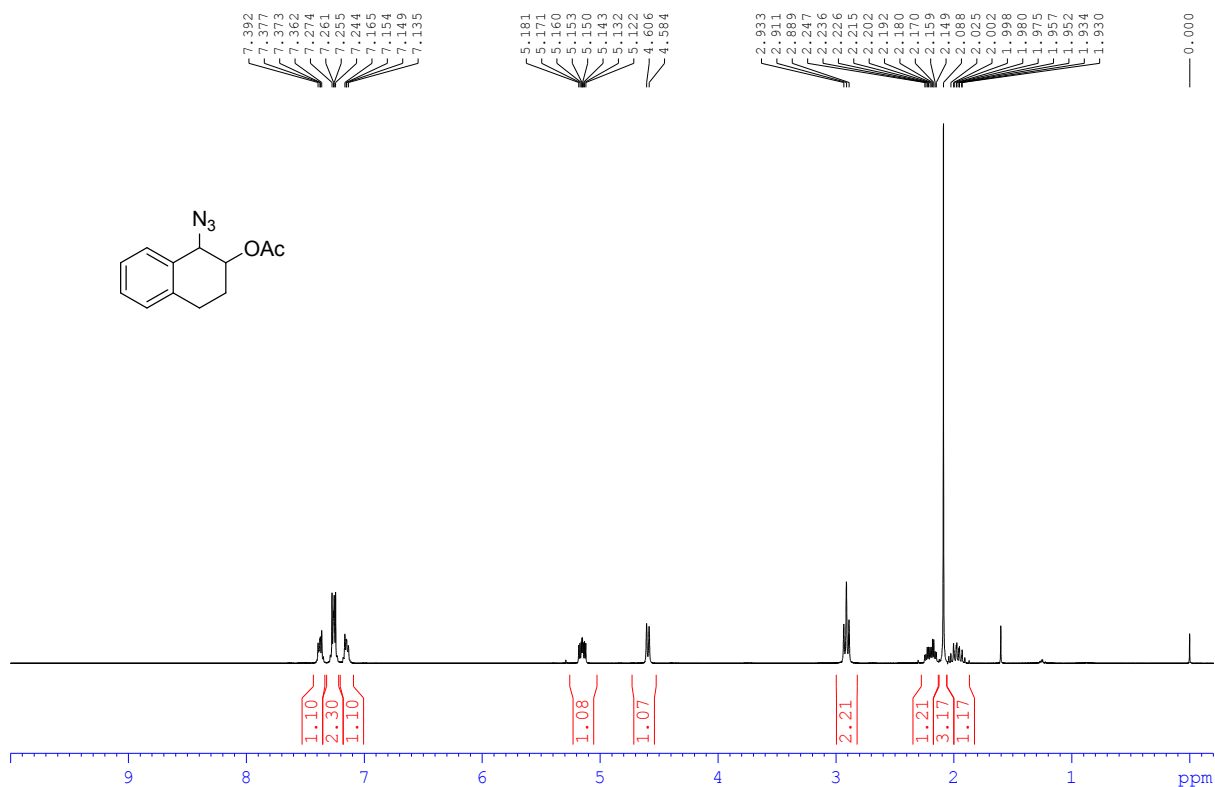
¹H and ¹³C NMR spectrum of **2j**



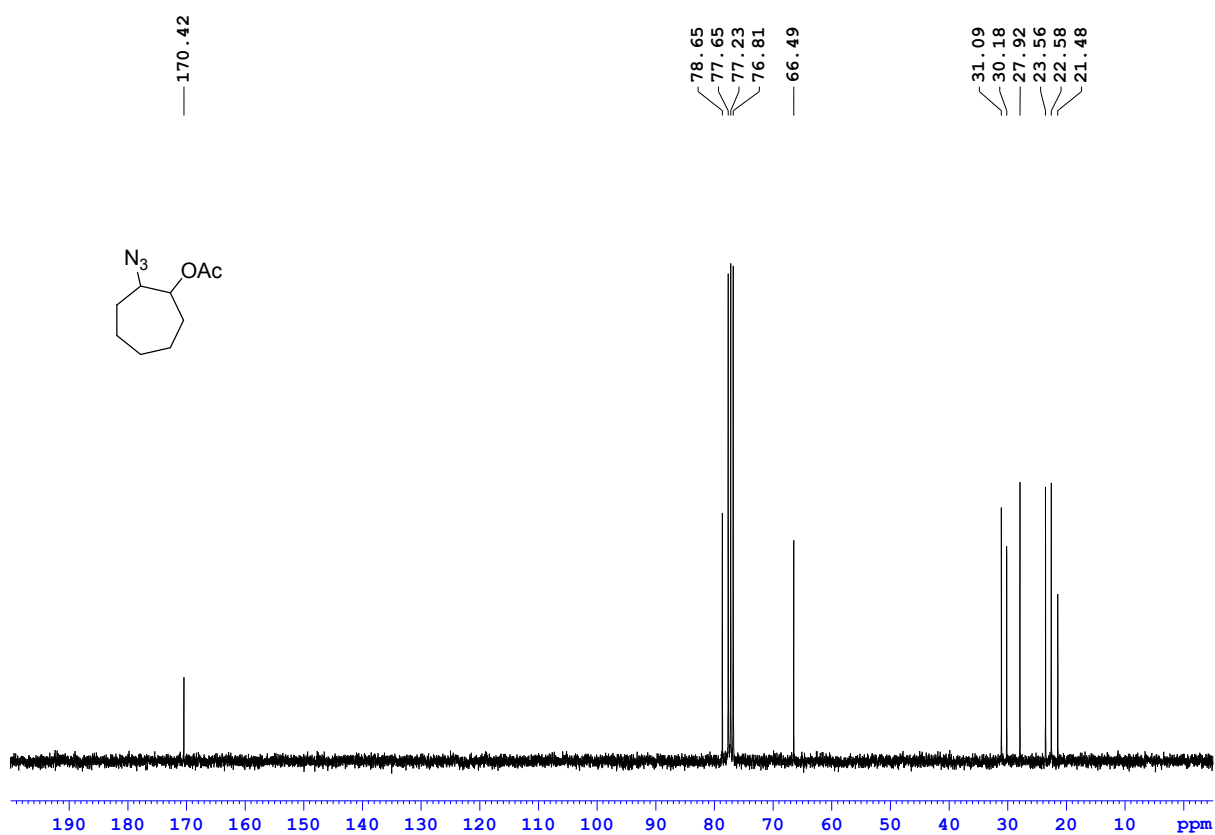
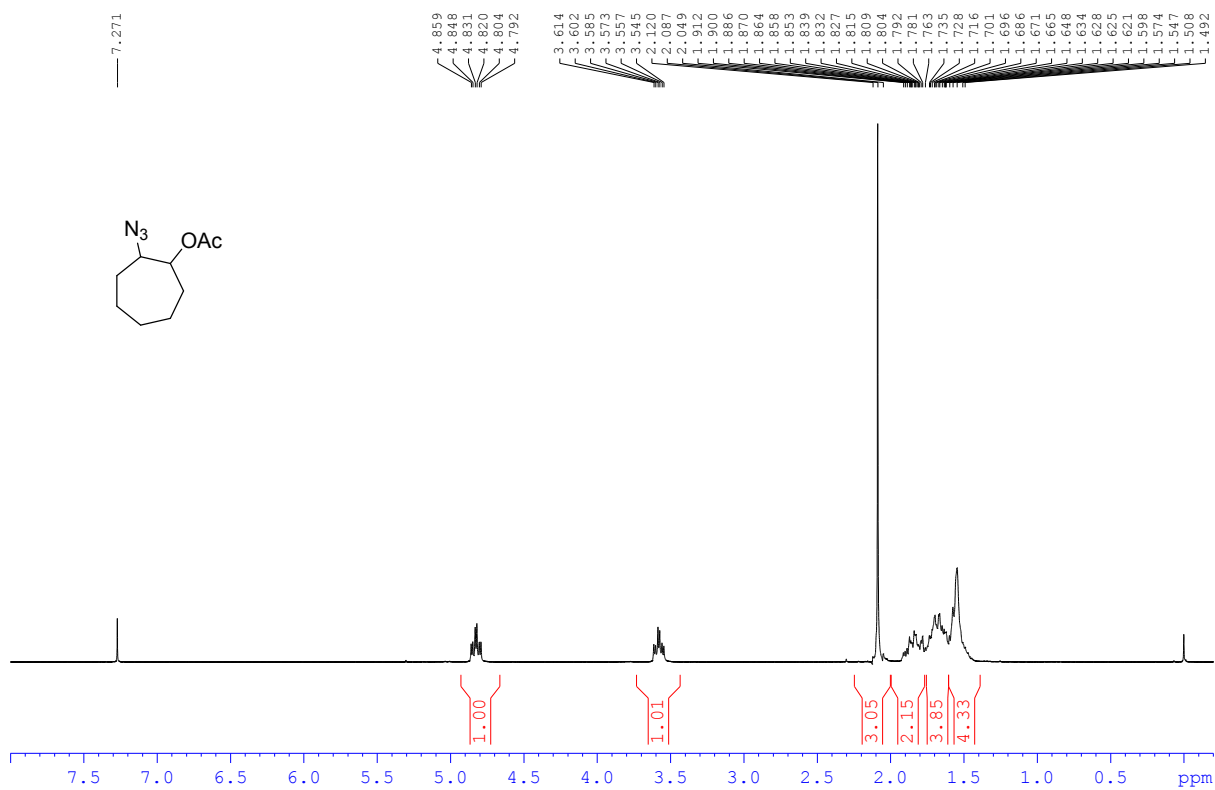
^1H and ^{13}C NMR spectrum of **2q**



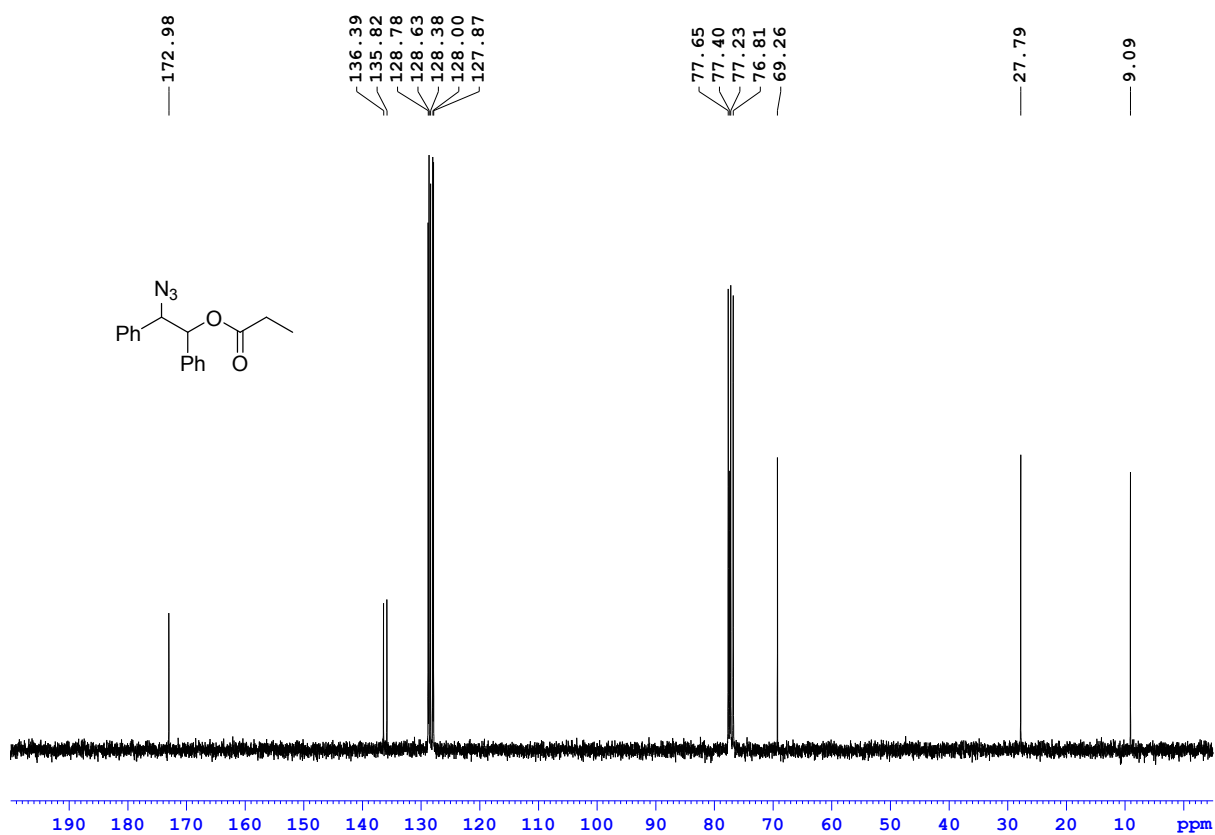
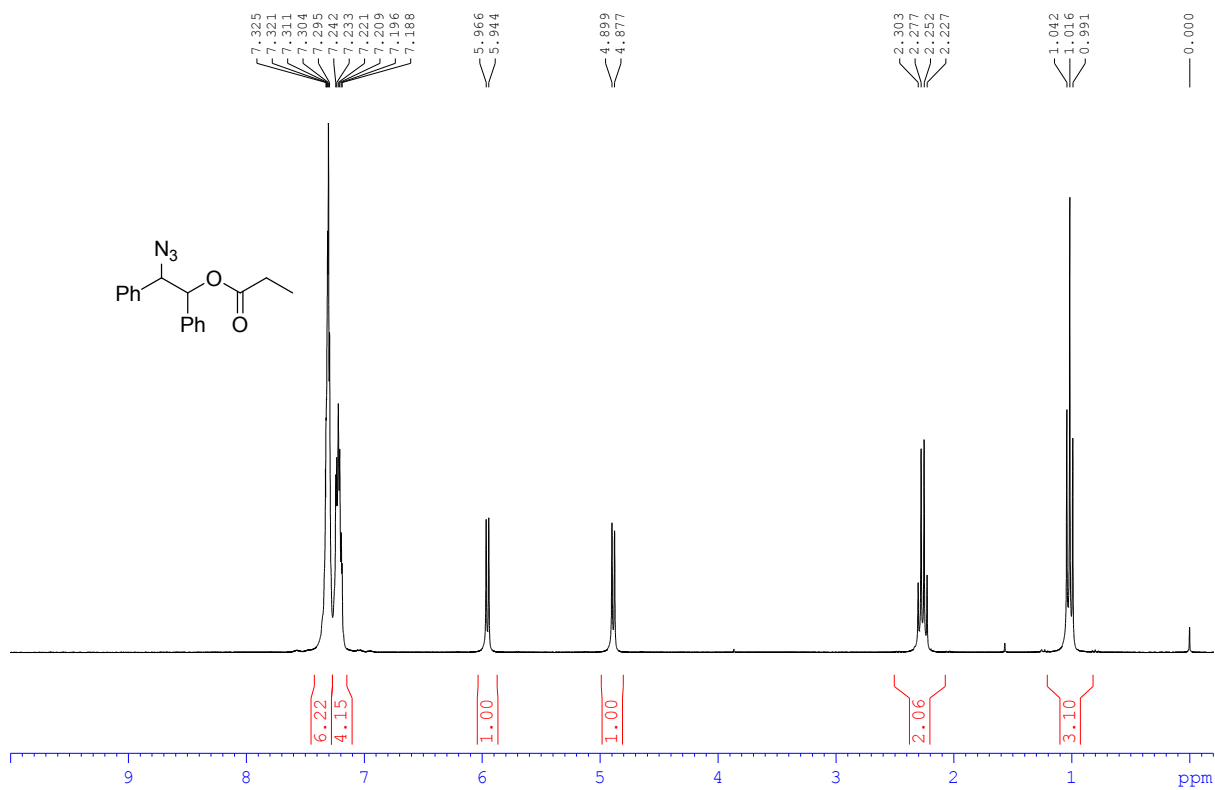
^1H and ^{13}C NMR spectrum of **2v**



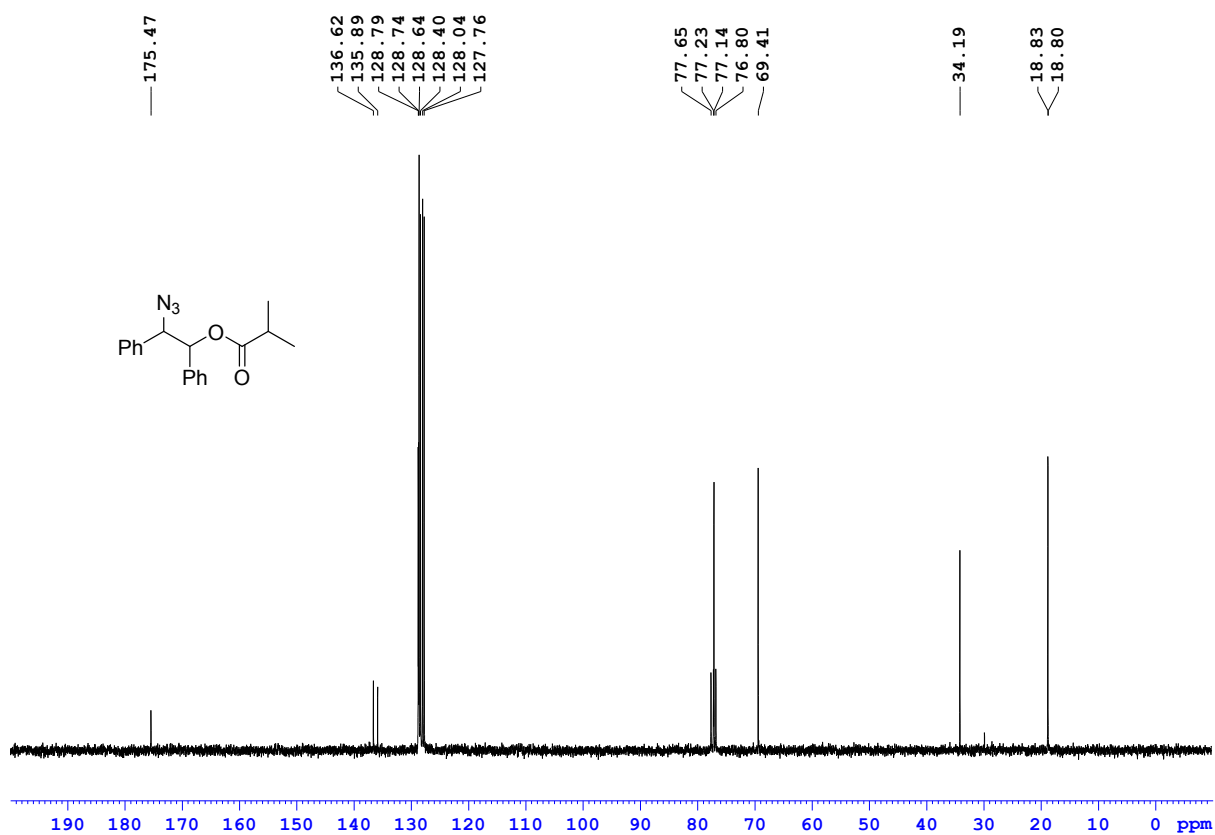
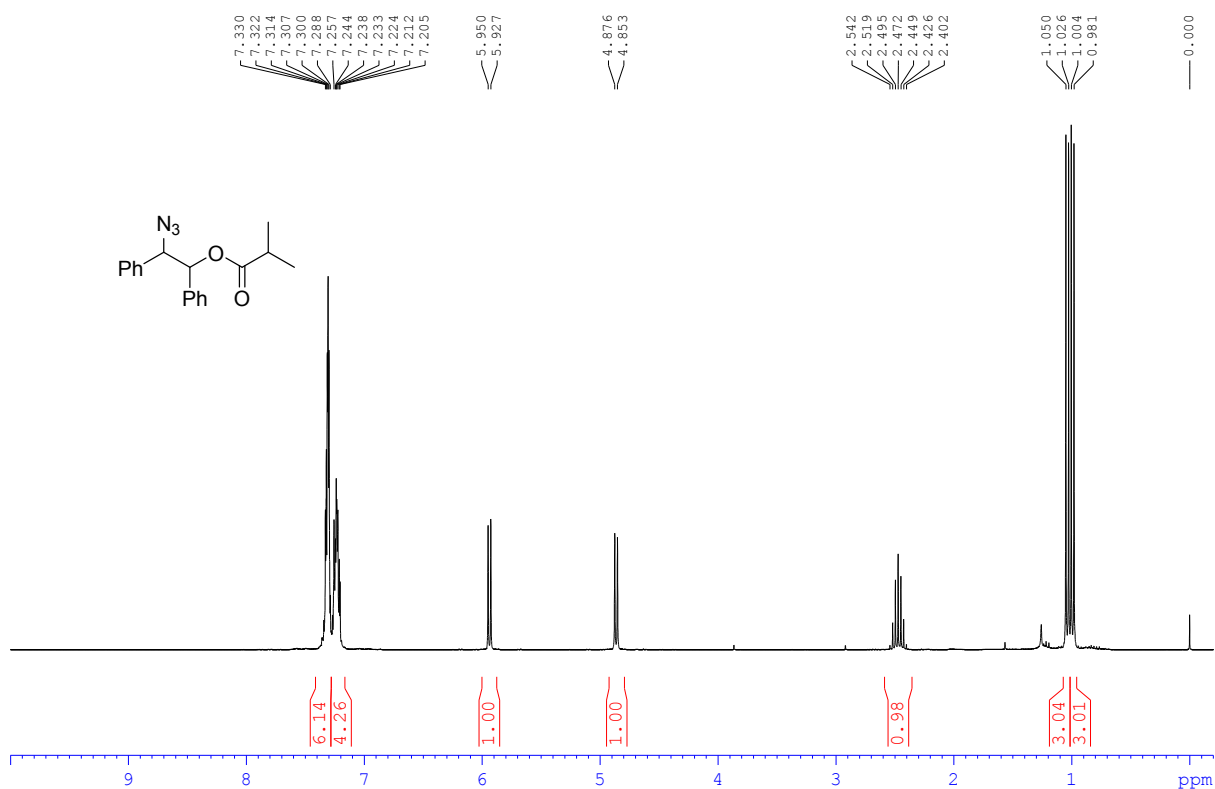
¹H and ¹³C NMR spectrum of **2w**



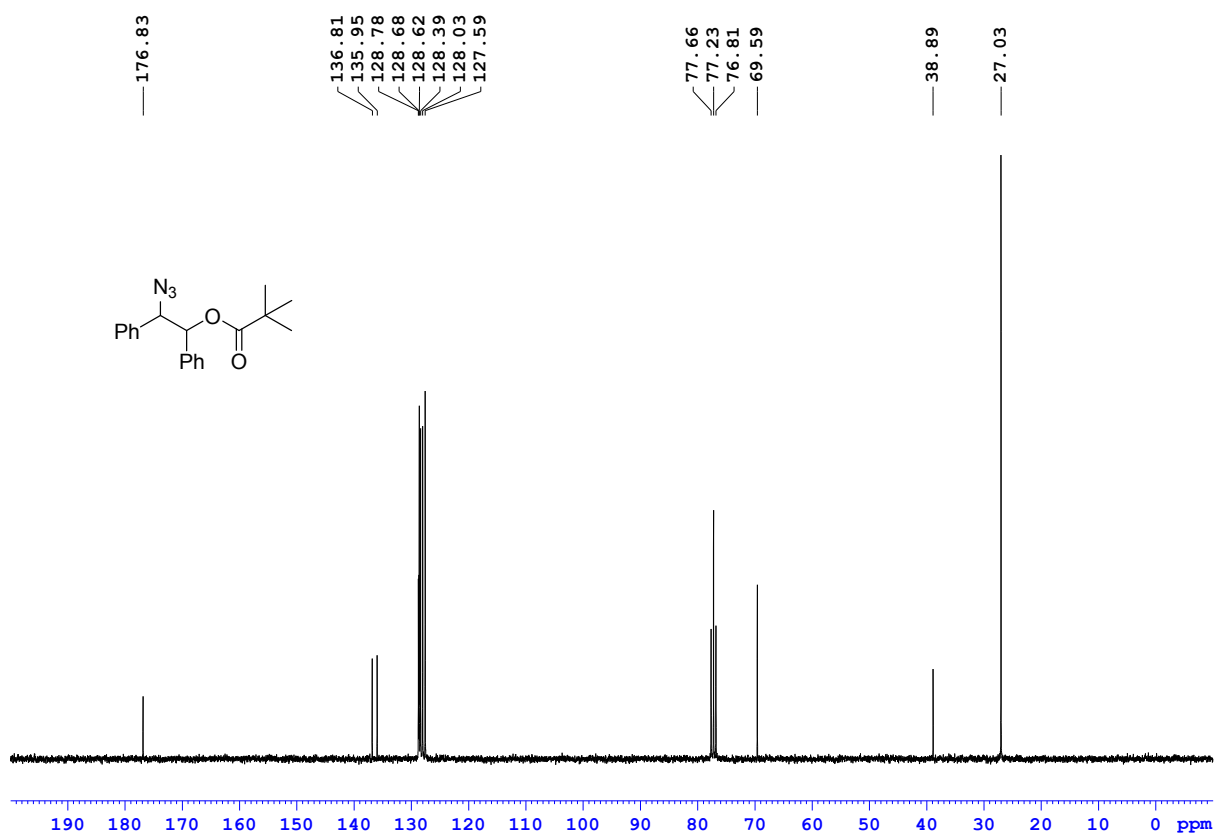
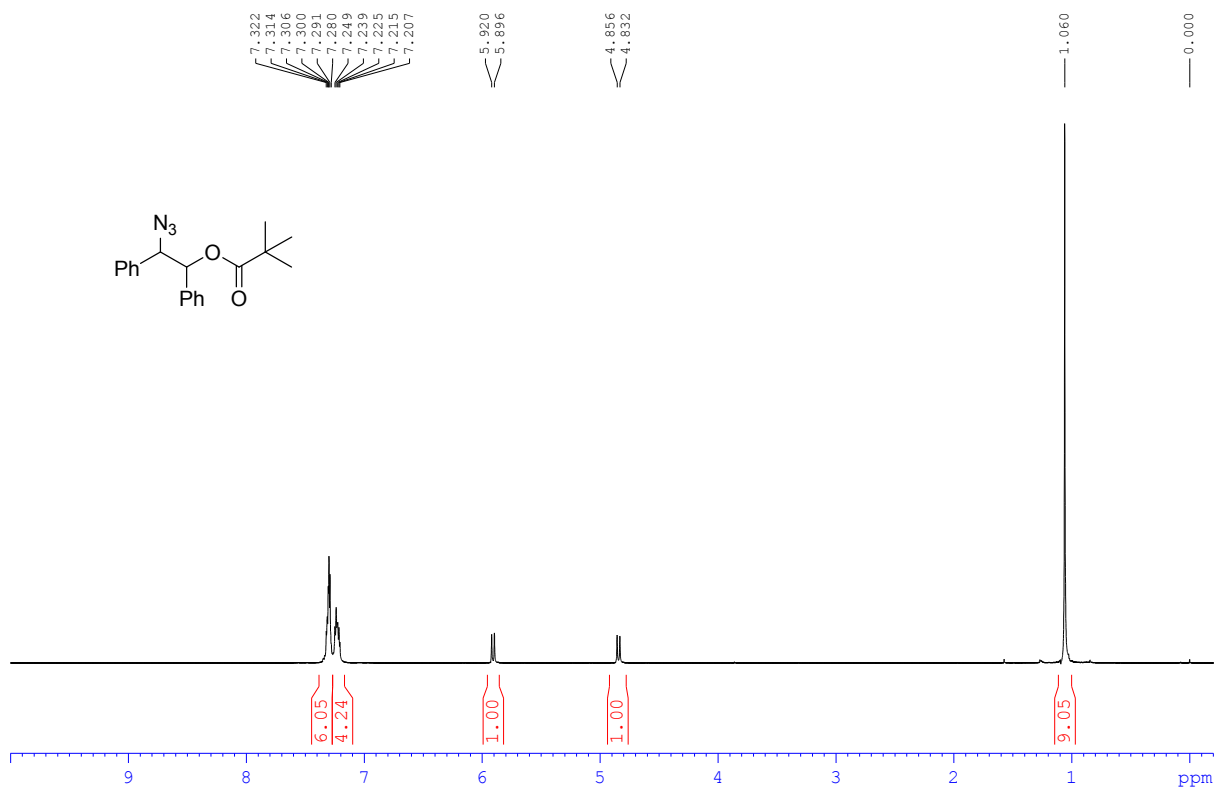
¹H and ¹³C NMR spectrum of **4a**



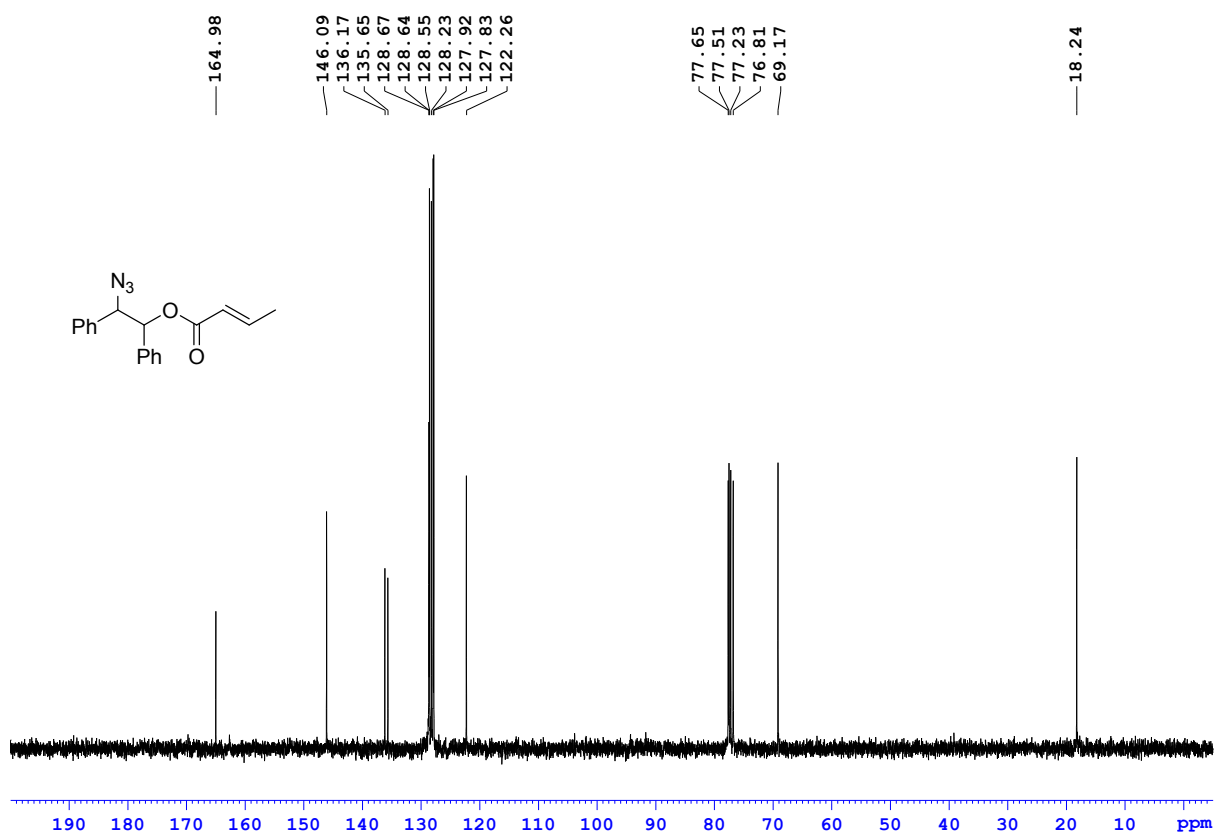
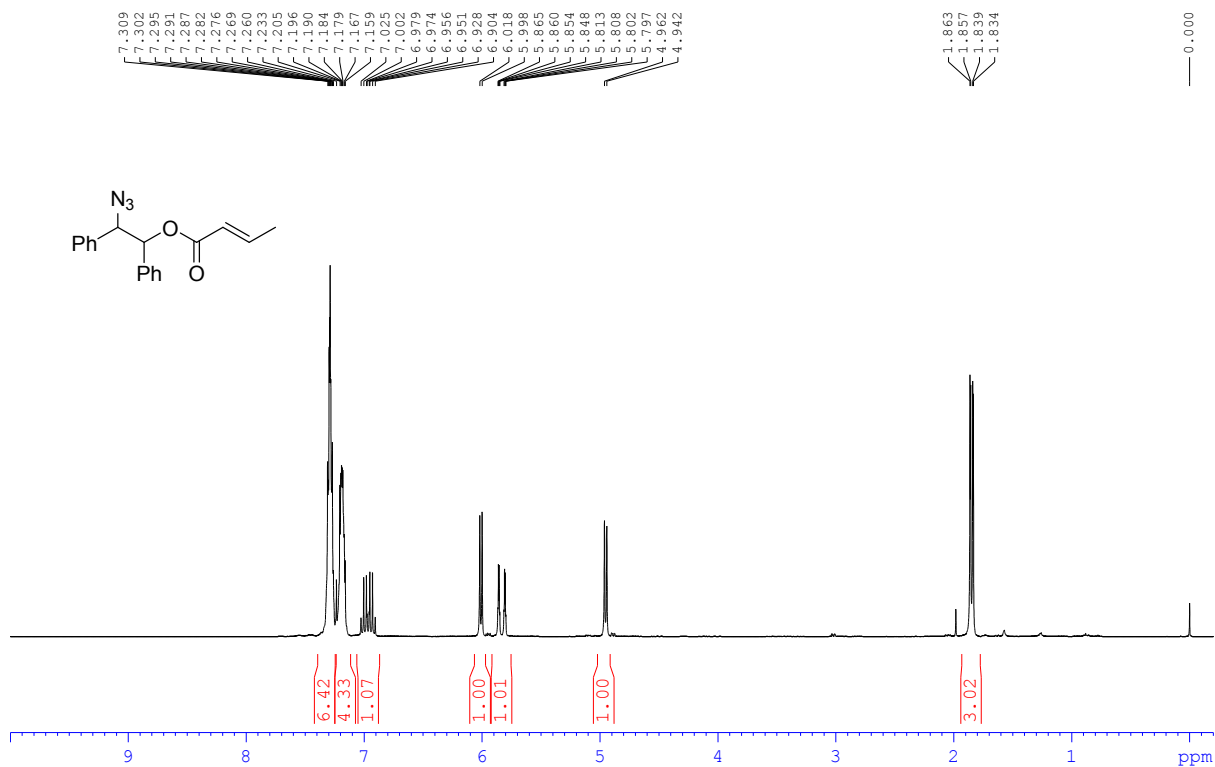
¹H and ¹³C NMR spectrum of **4b**



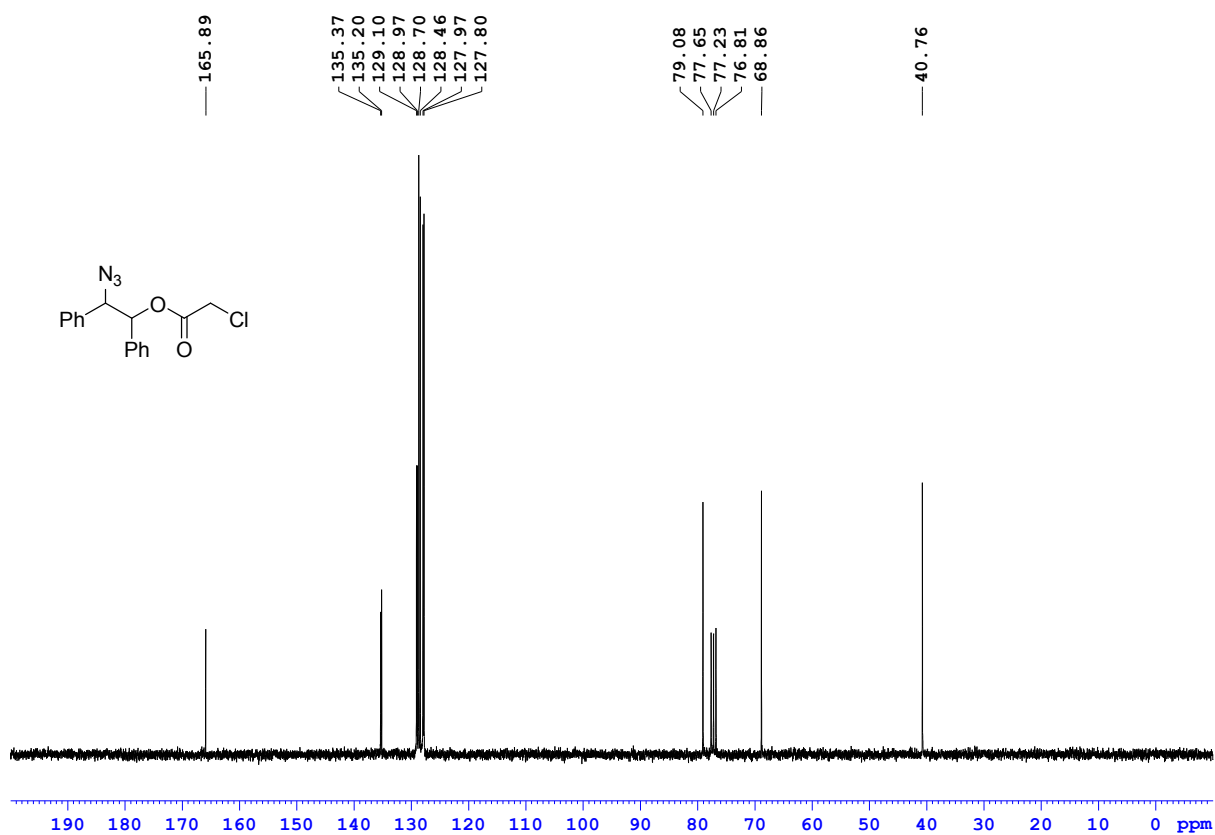
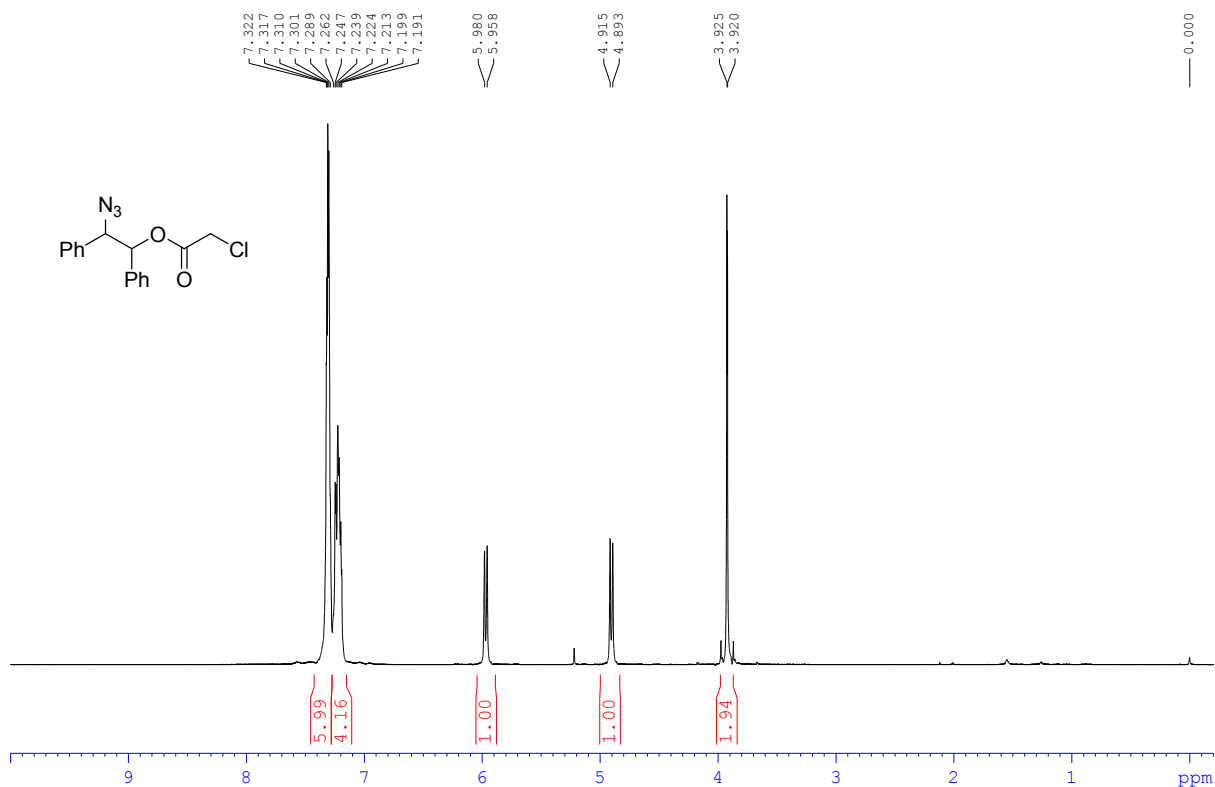
^1H and ^{13}C NMR spectrum of **4c**



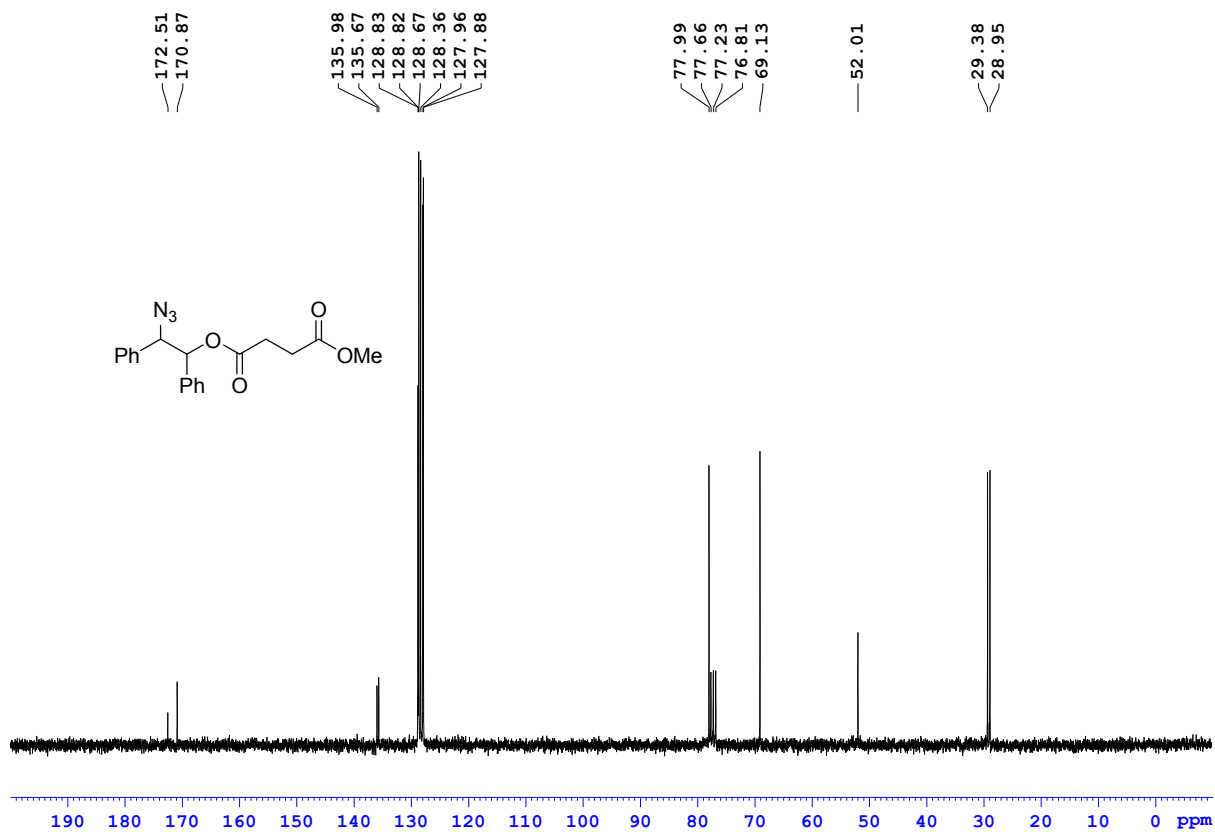
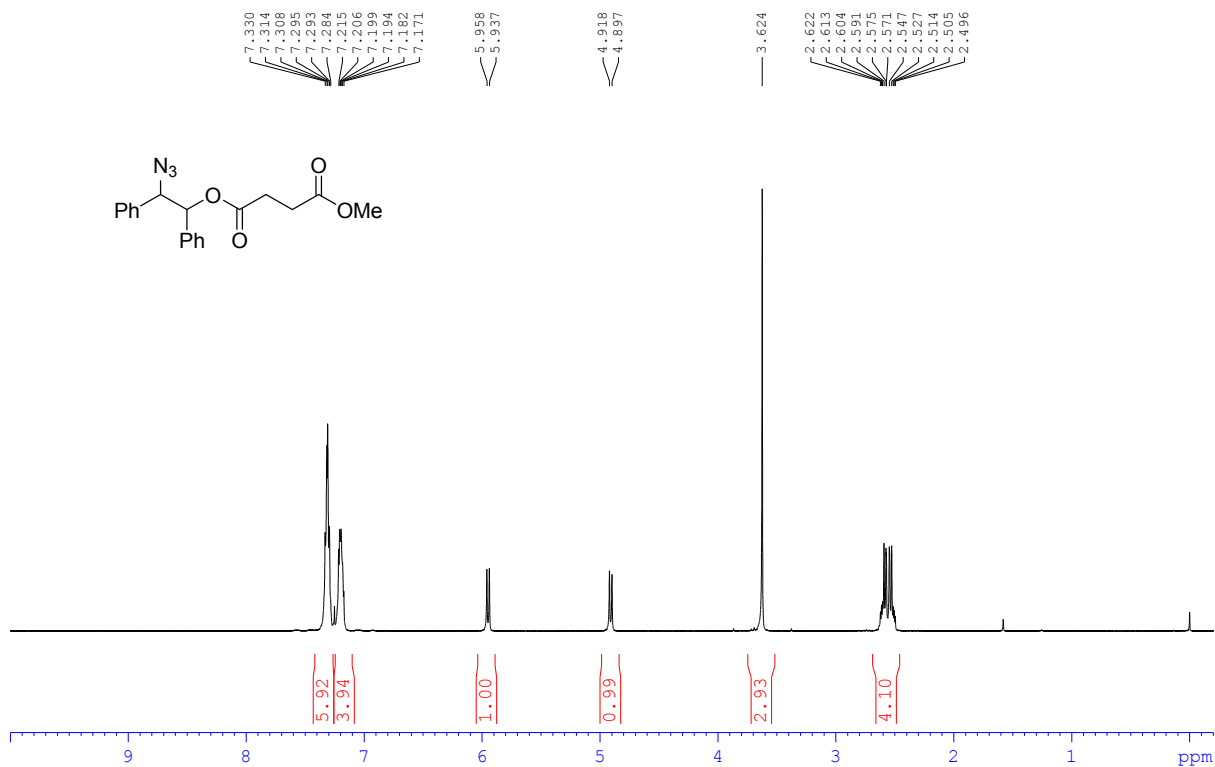
^1H and ^{13}C NMR spectrum of **4d**



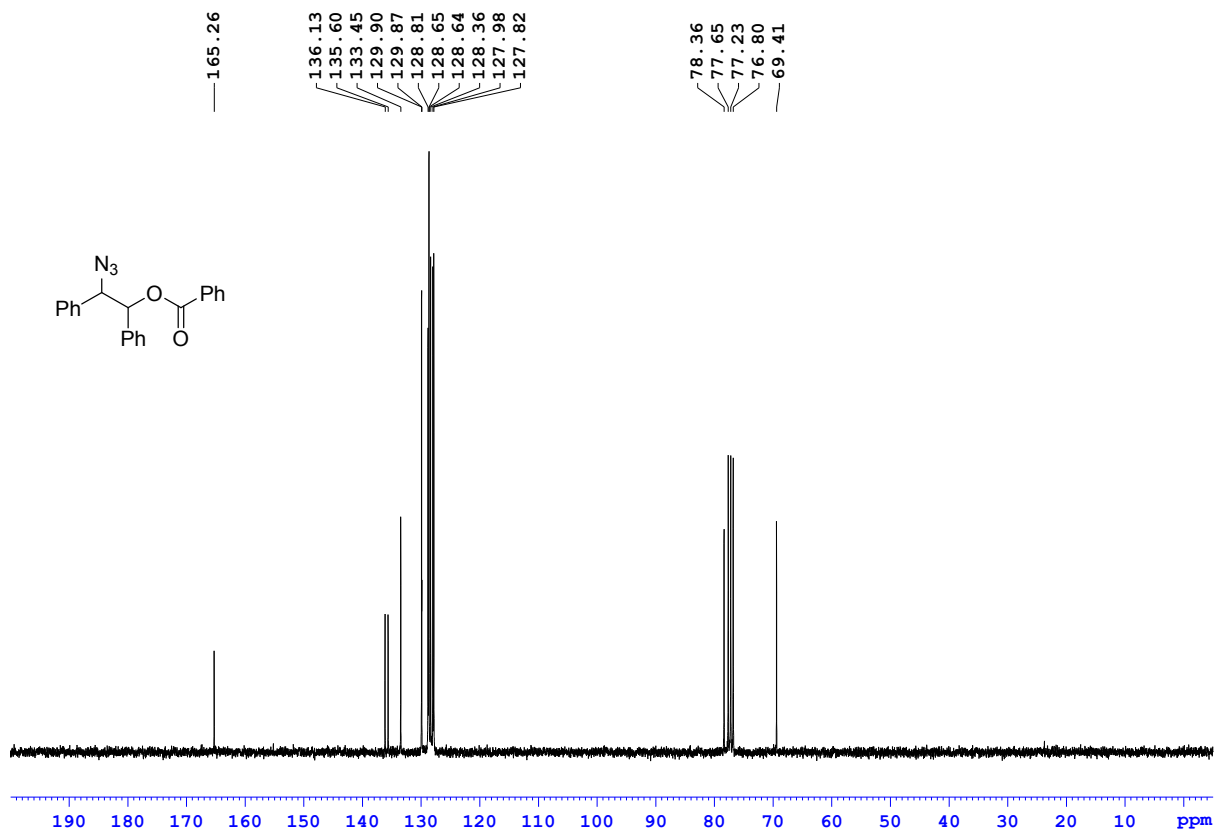
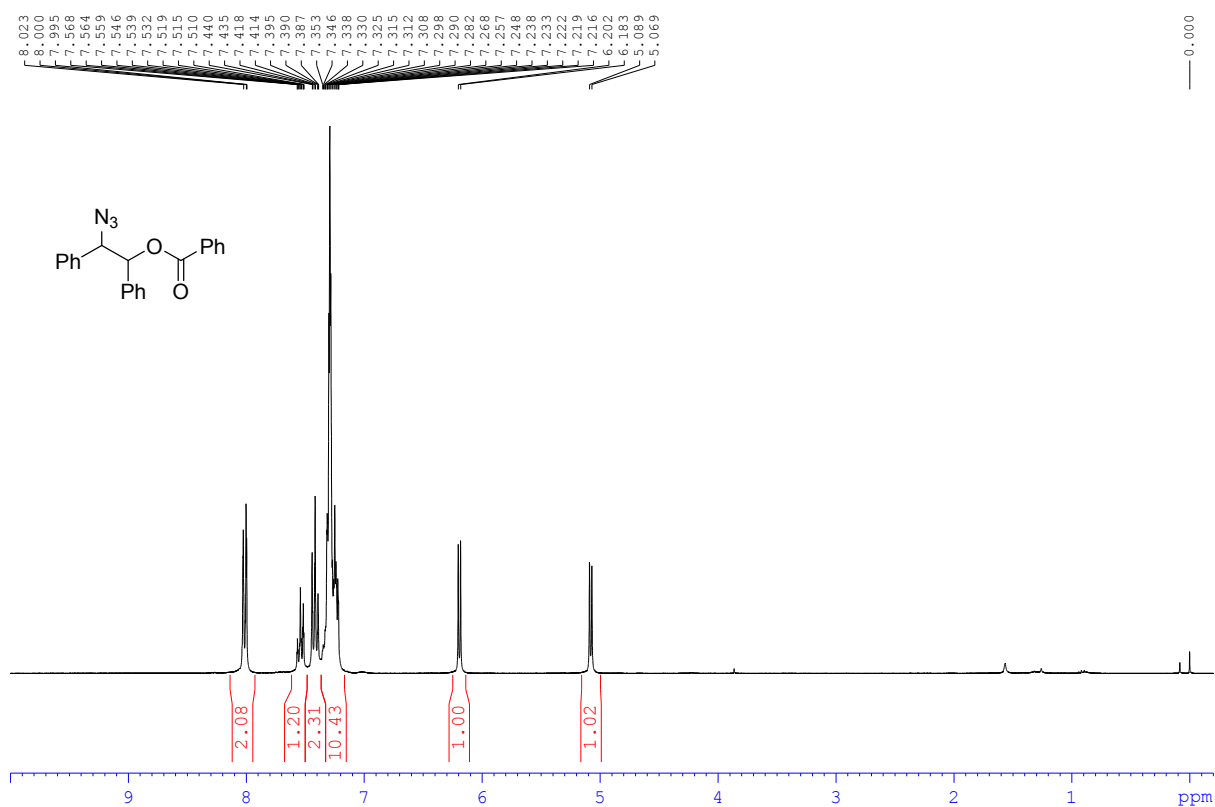
^1H and ^{13}C NMR spectrum of **4e**



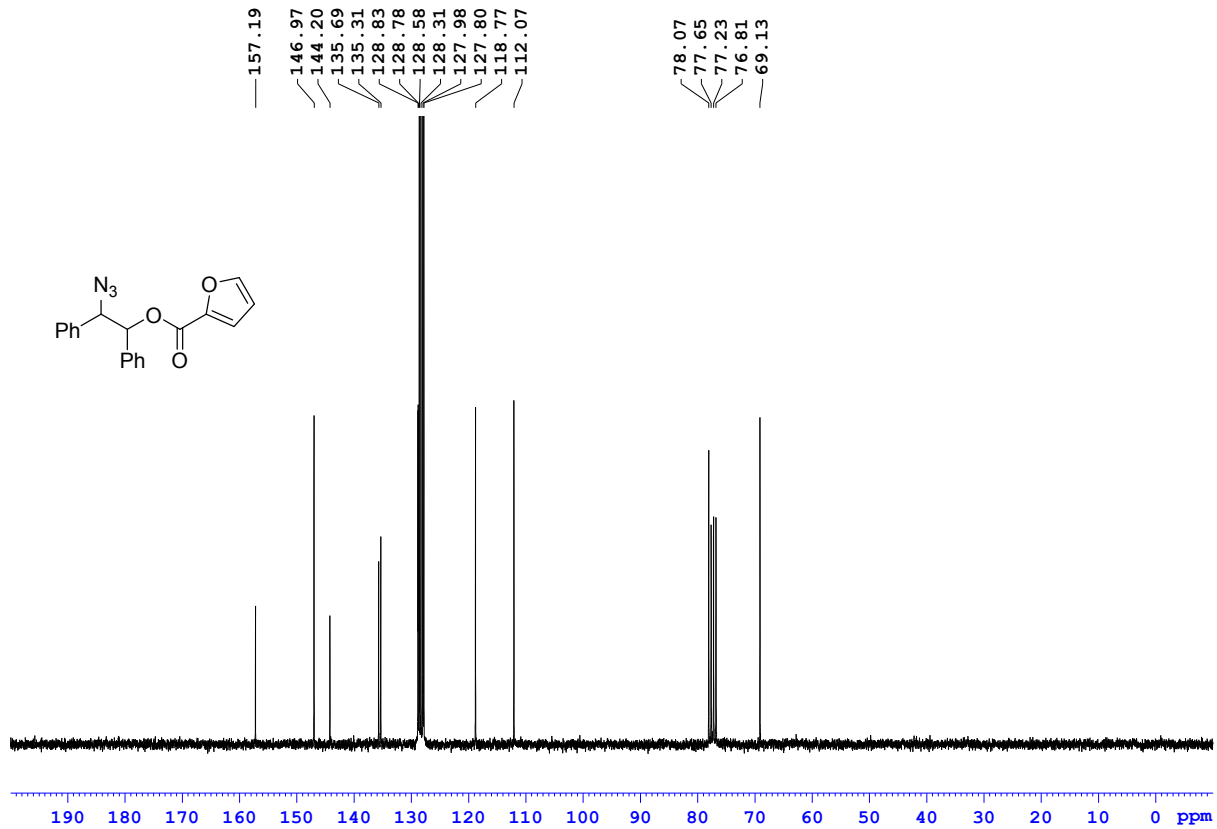
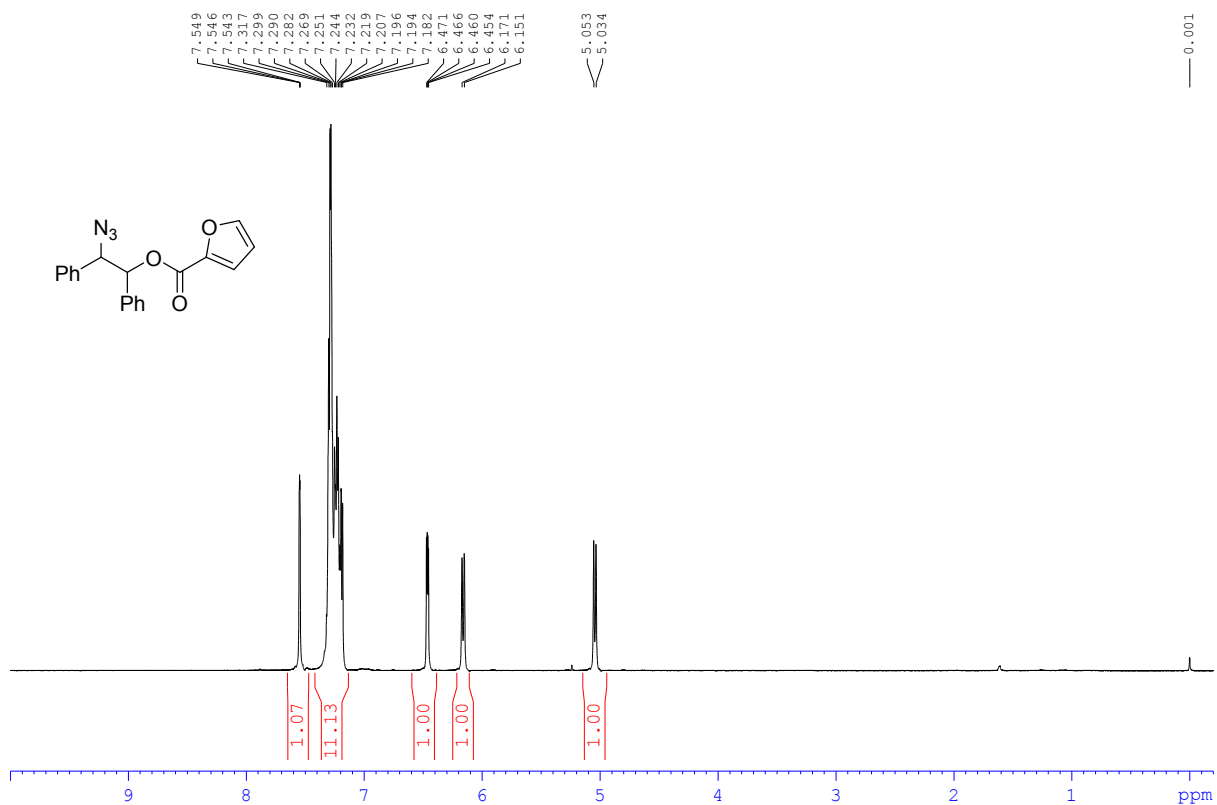
^1H and ^{13}C NMR spectrum of **4f**



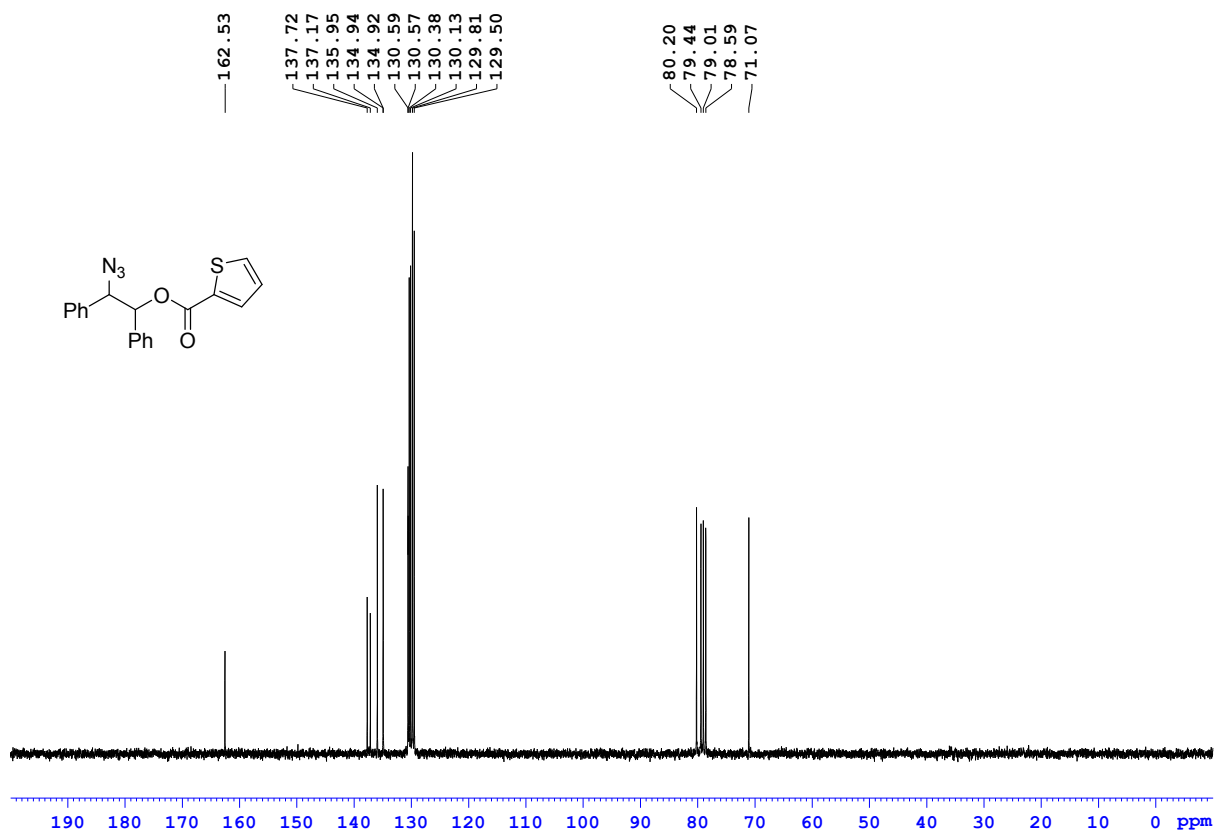
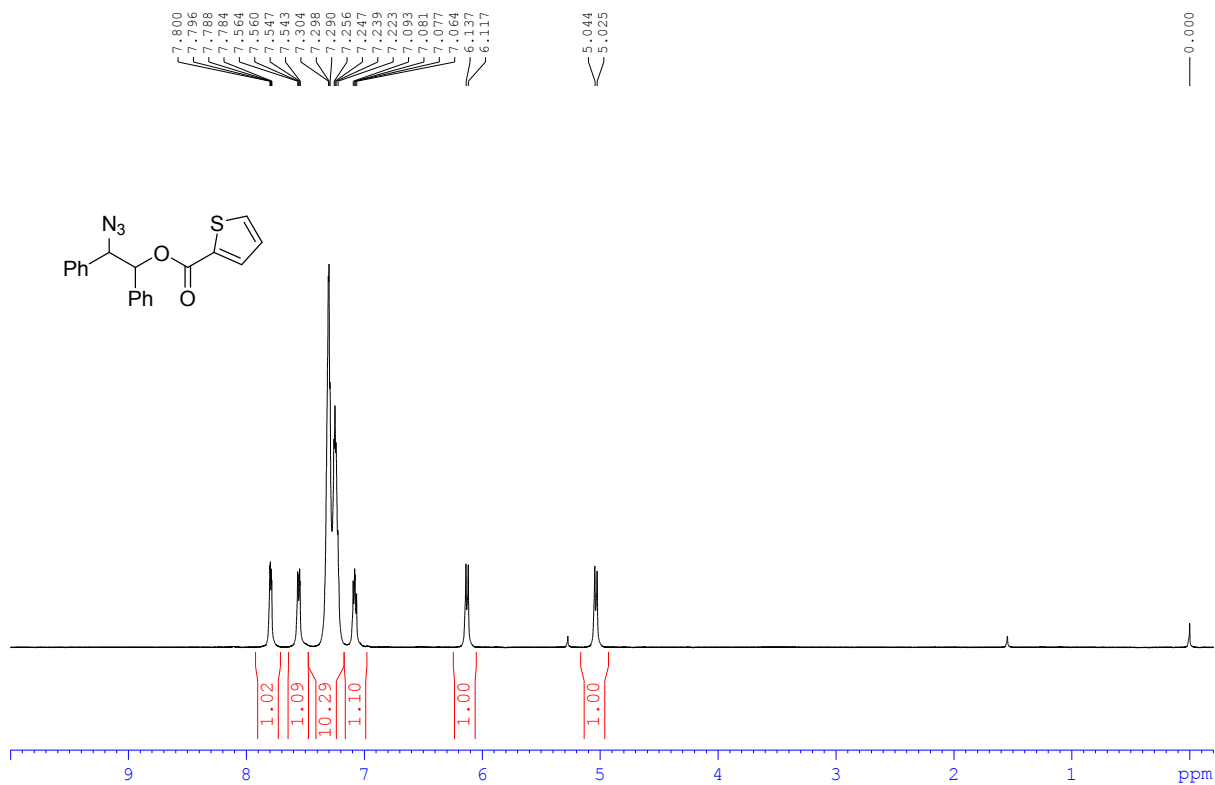
¹H and ¹³C NMR spectrum of 4g



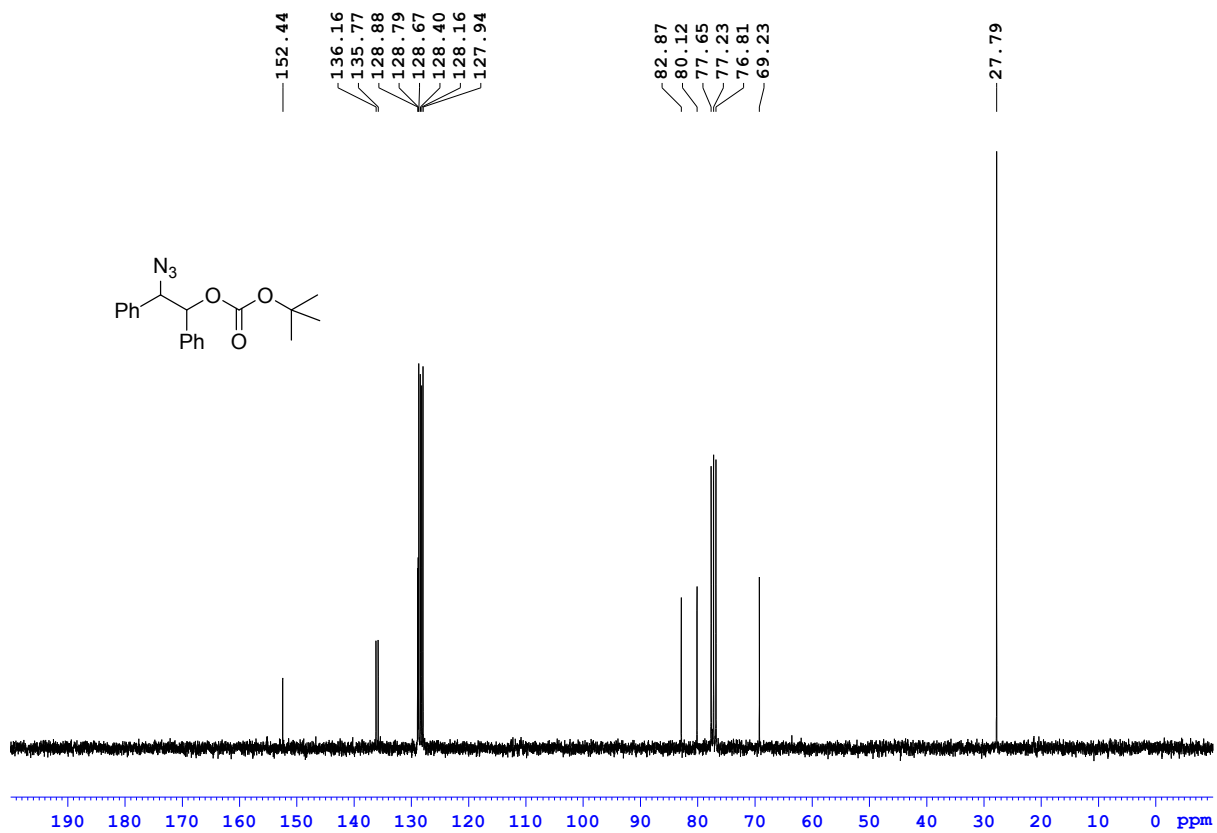
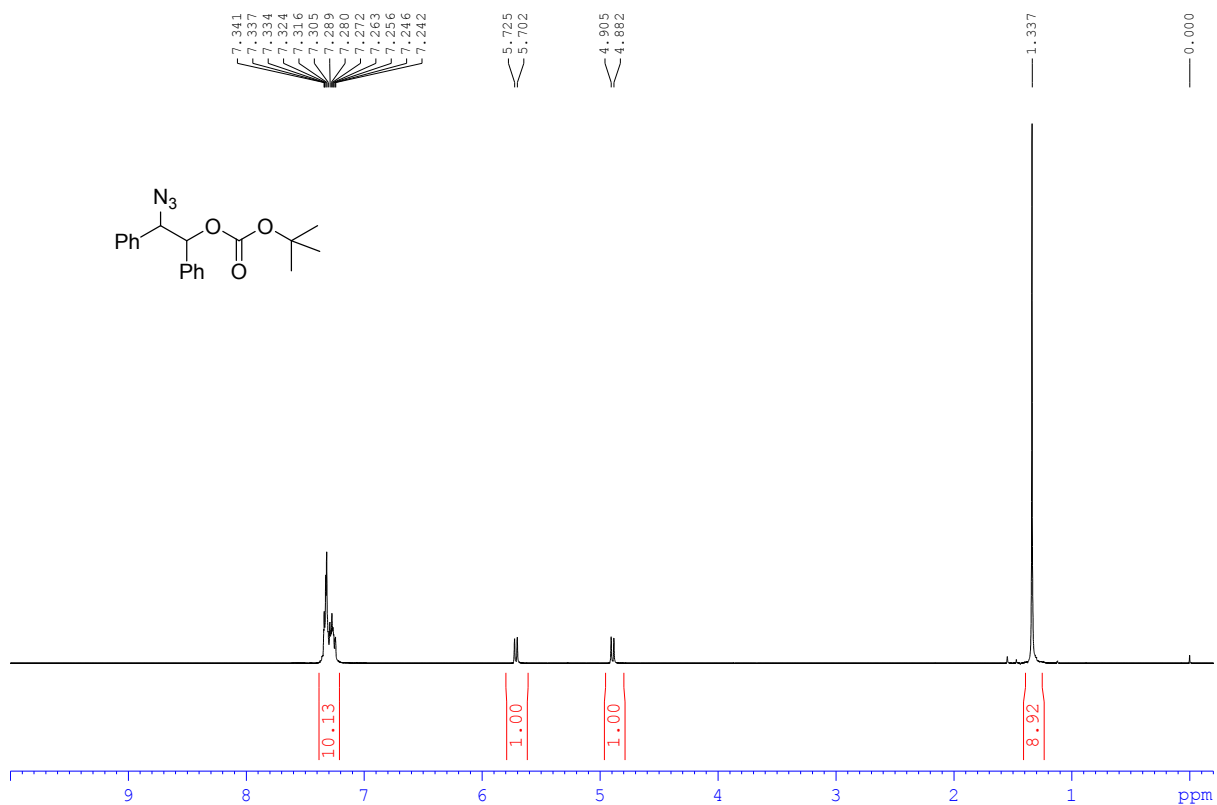
¹H and ¹³C NMR spectrum of 4h



¹H and ¹³C NMR spectrum of **4i**

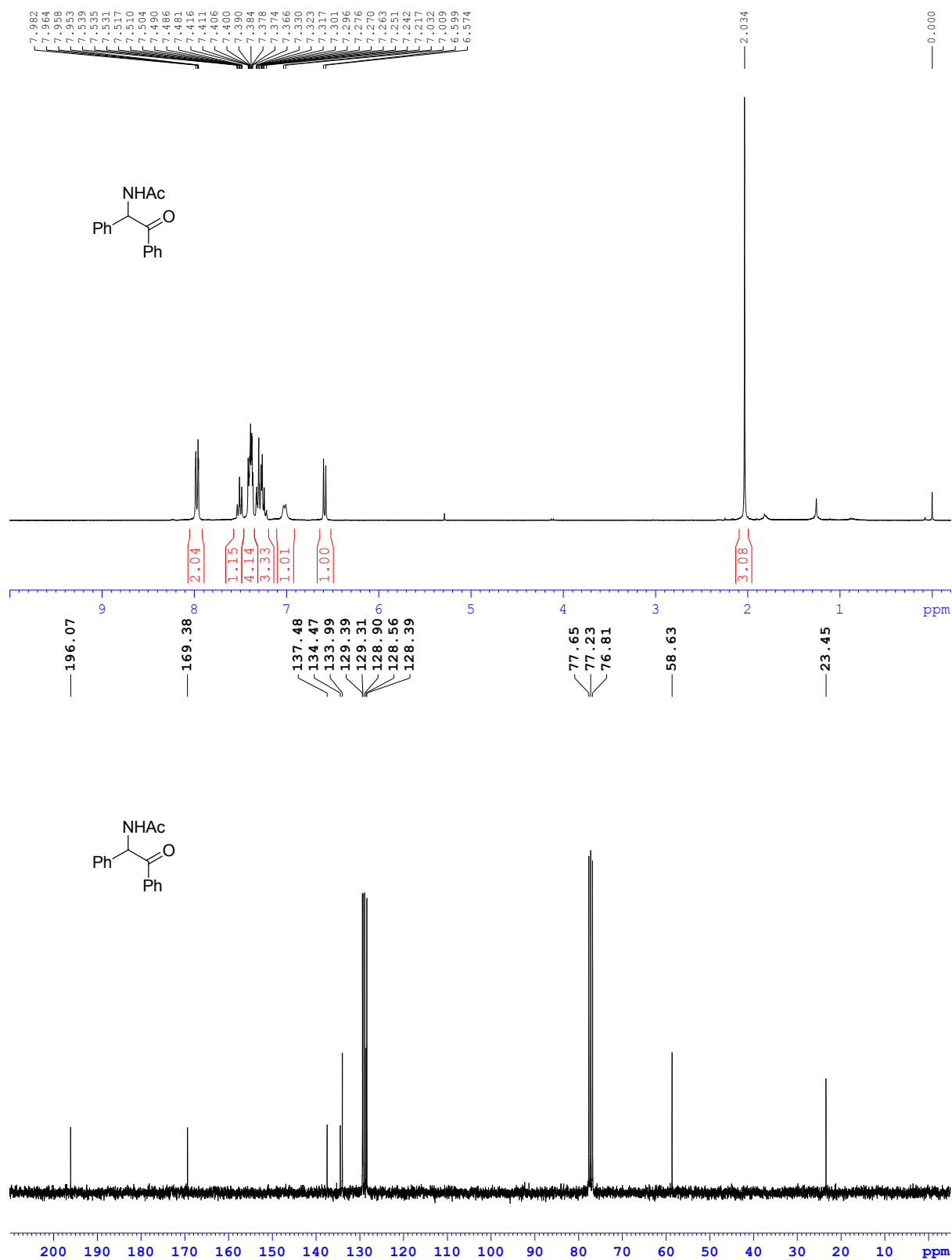


¹H and ¹³C NMR spectrum of **4j**

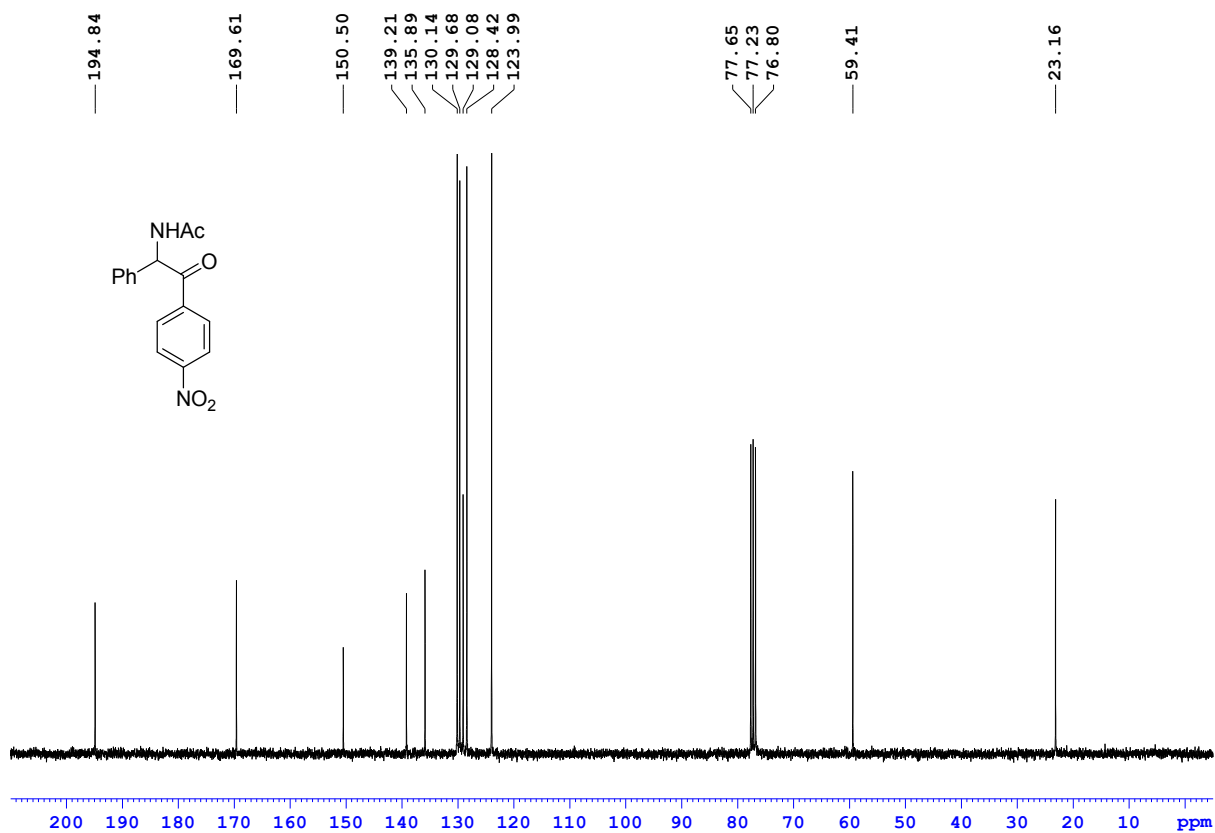
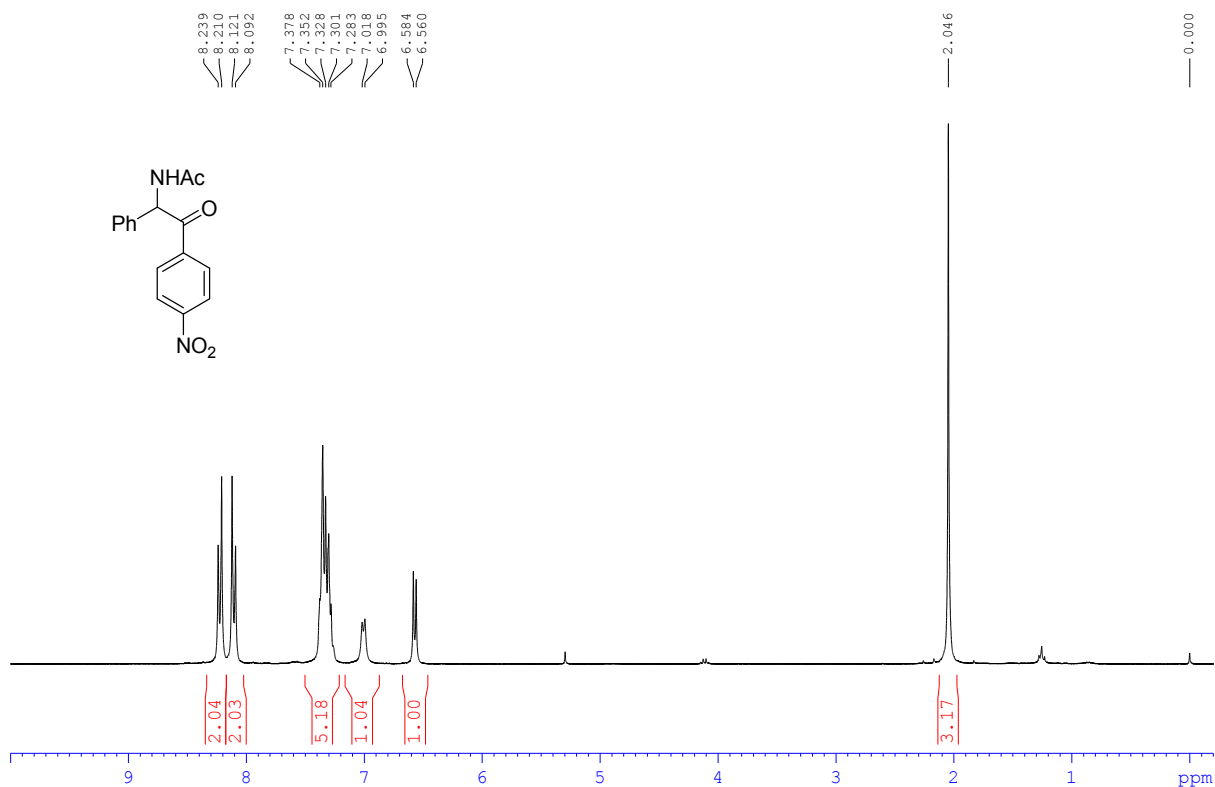


9-b. NMR spectrum of α -amido ketones

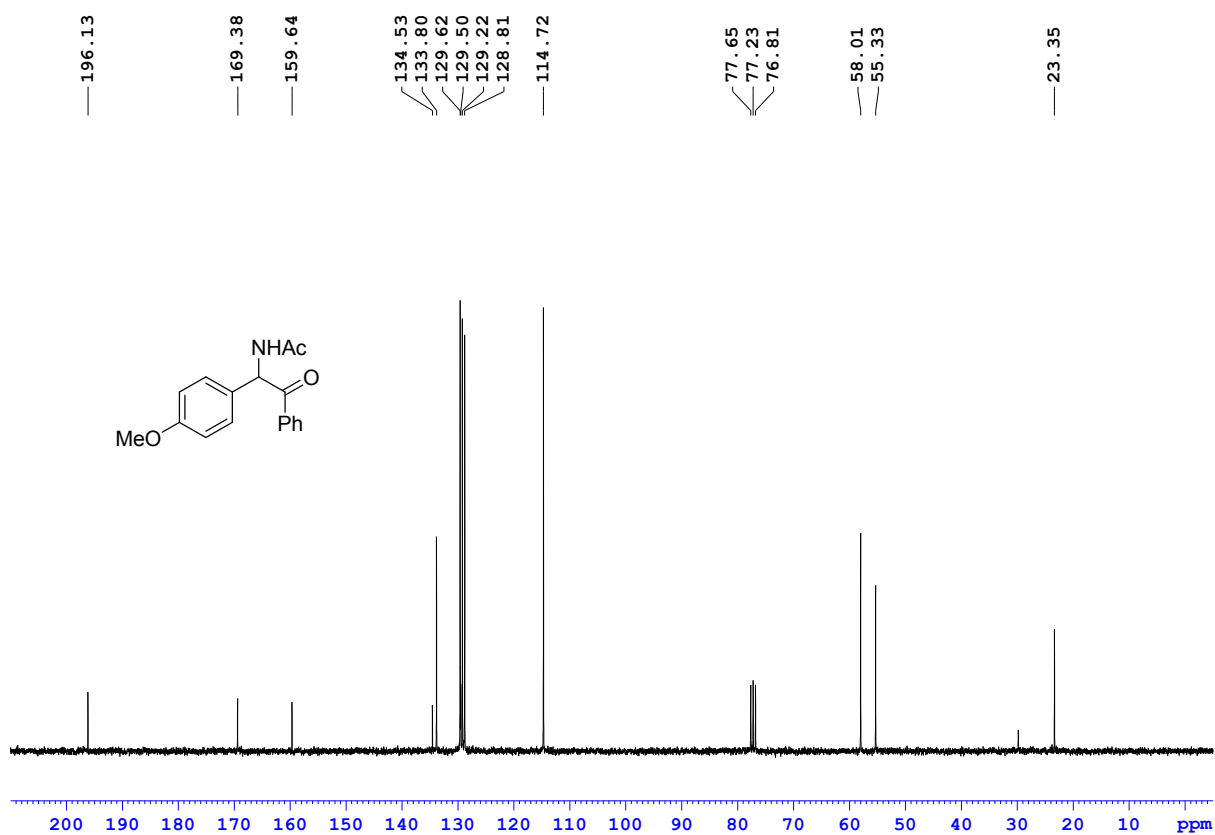
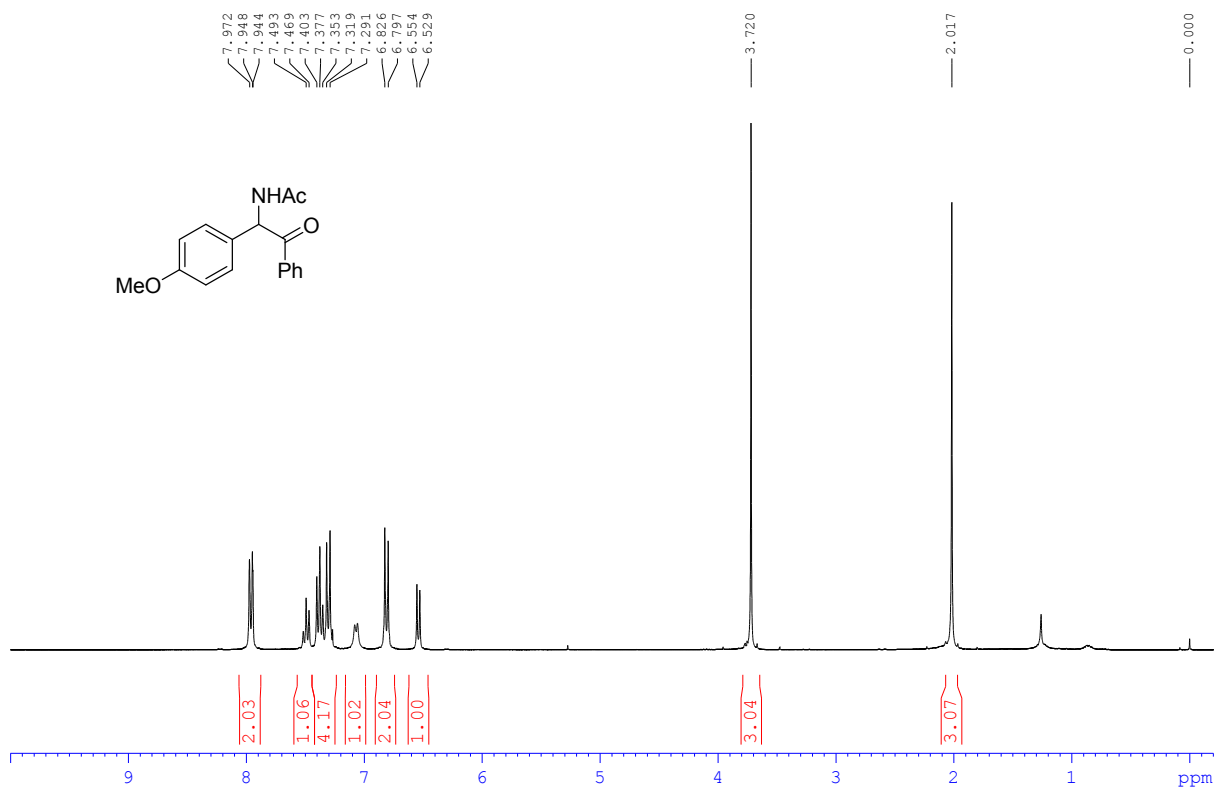
^1H and ^{13}C NMR spectrum of **3a**



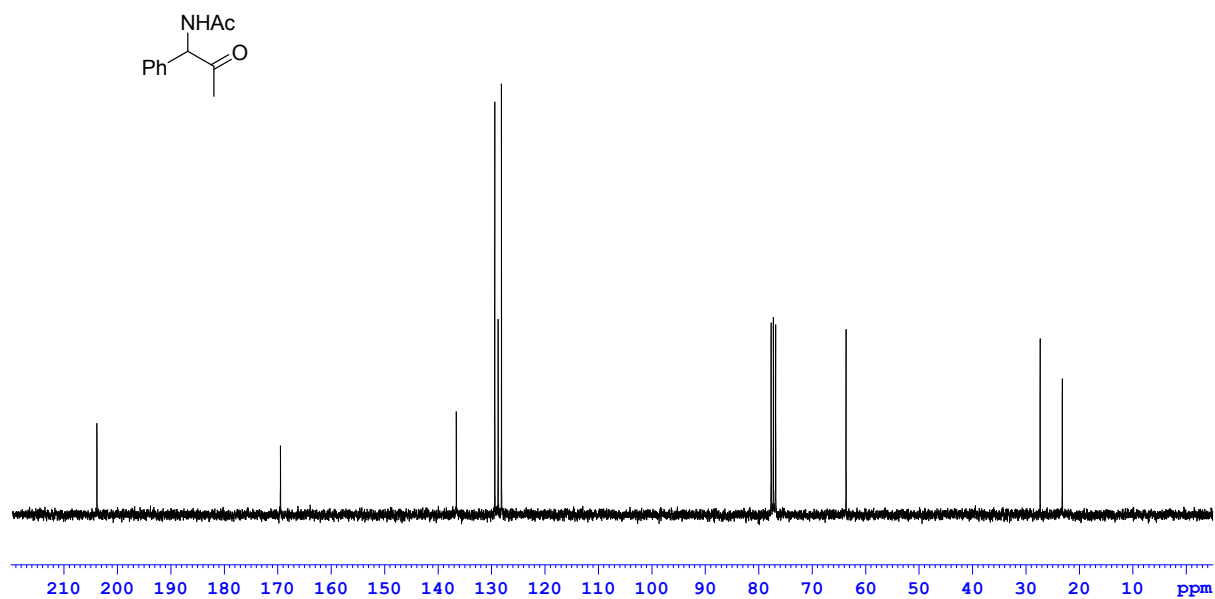
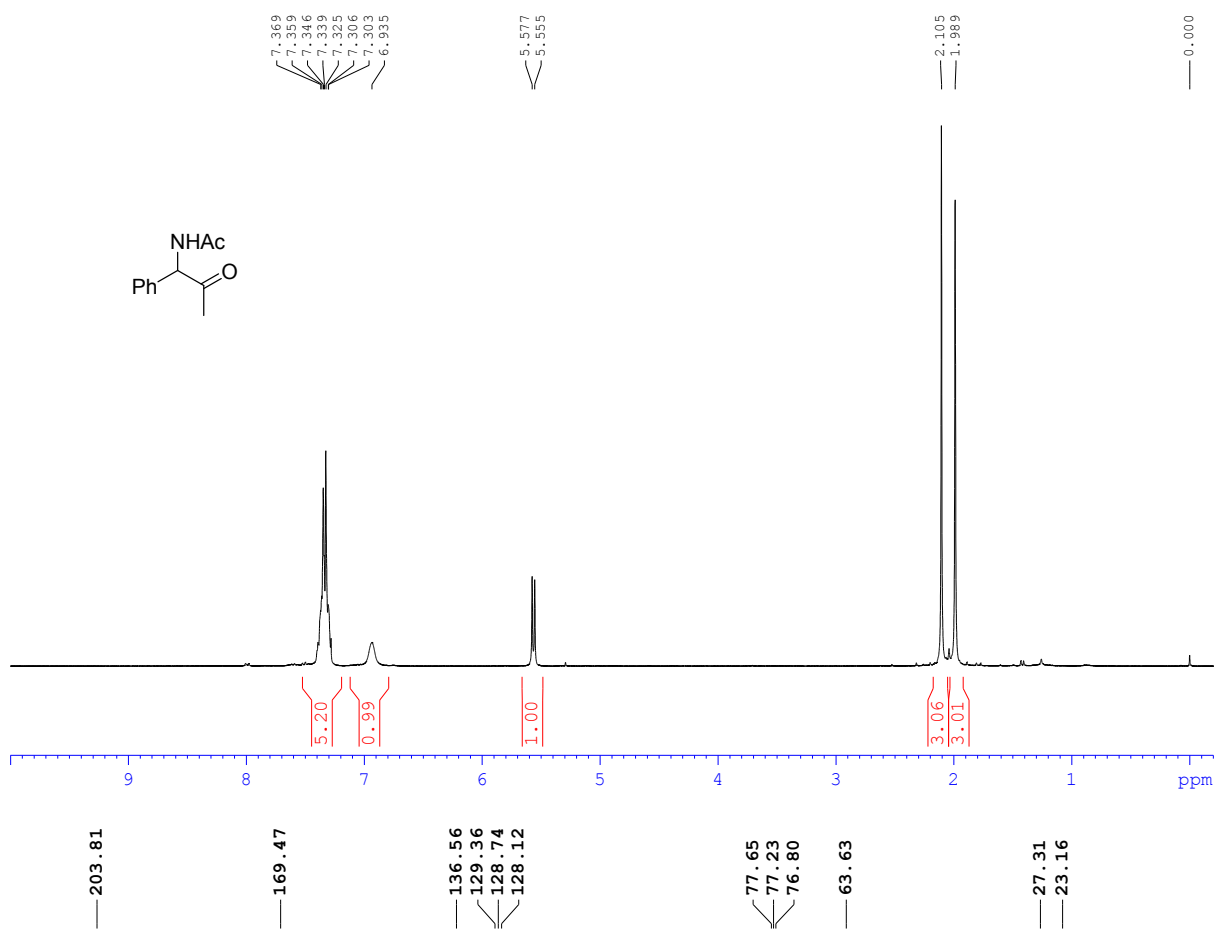
¹H and ¹³C NMR spectrum of **3b**



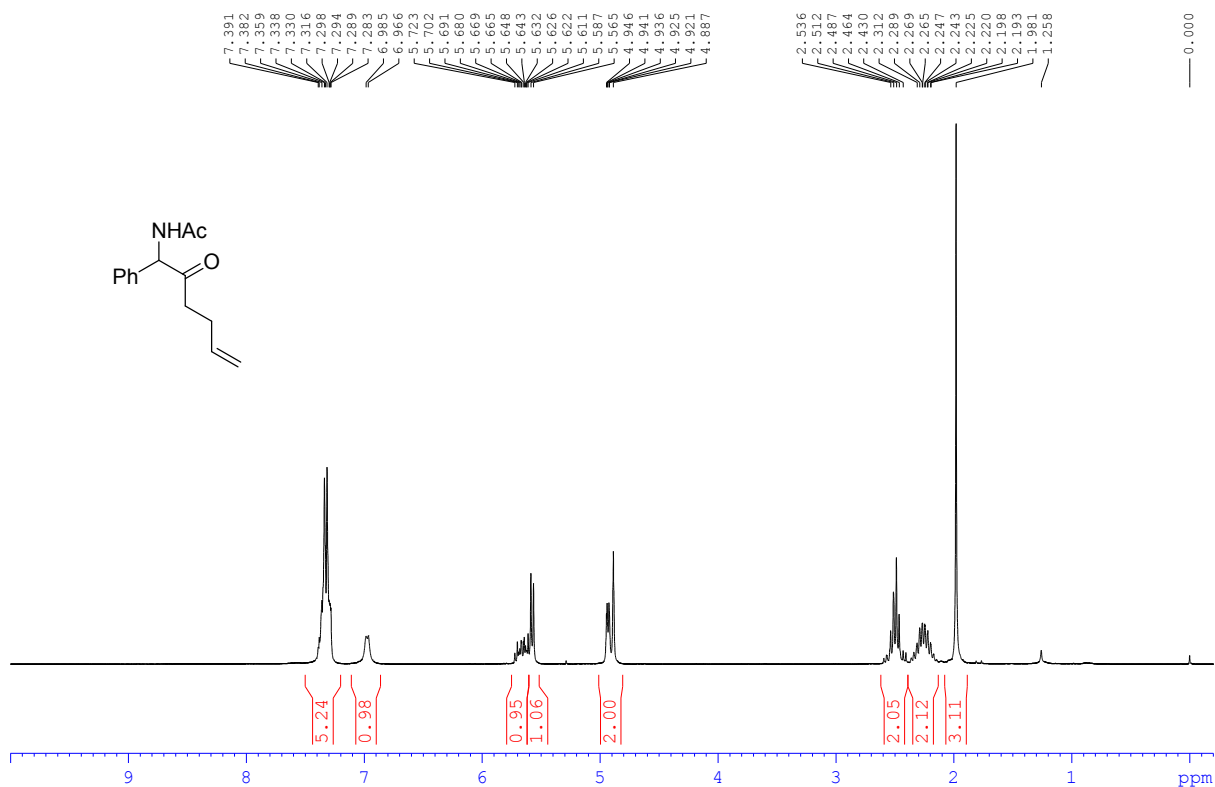
¹H and ¹³C NMR spectrum of **3c**



¹H and ¹³C NMR spectrum of **3d**



¹H and ¹³C NMR spectrum of **3e**



— 205.43

— 169.47

136.51

136.46

129.31

128.71

128.18

— 115.66

77.65

77.23

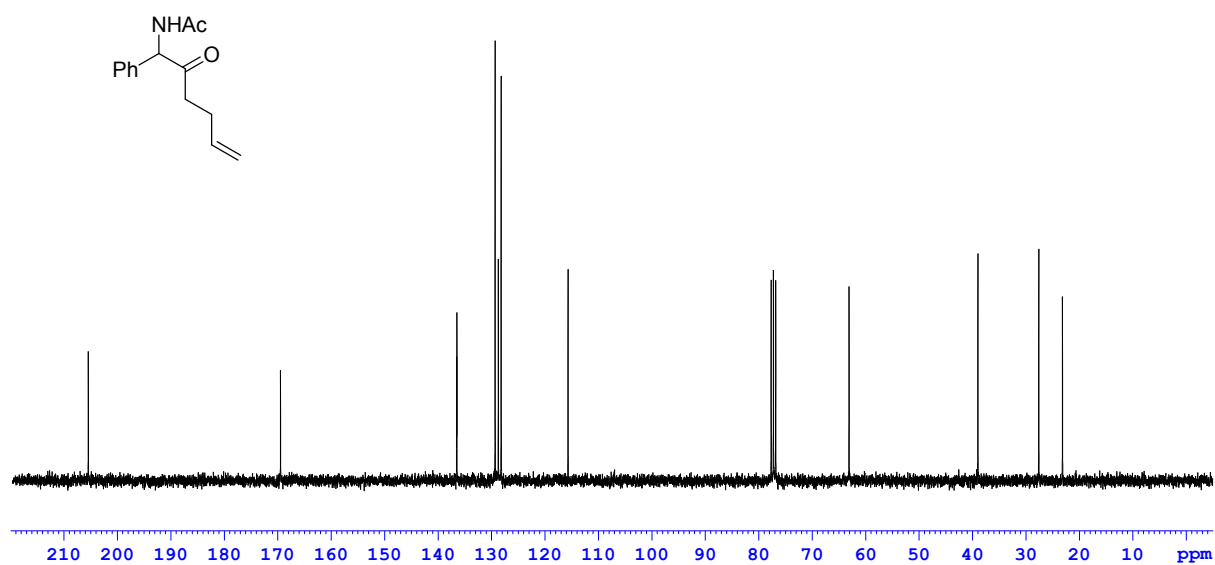
76.81

— 63.08

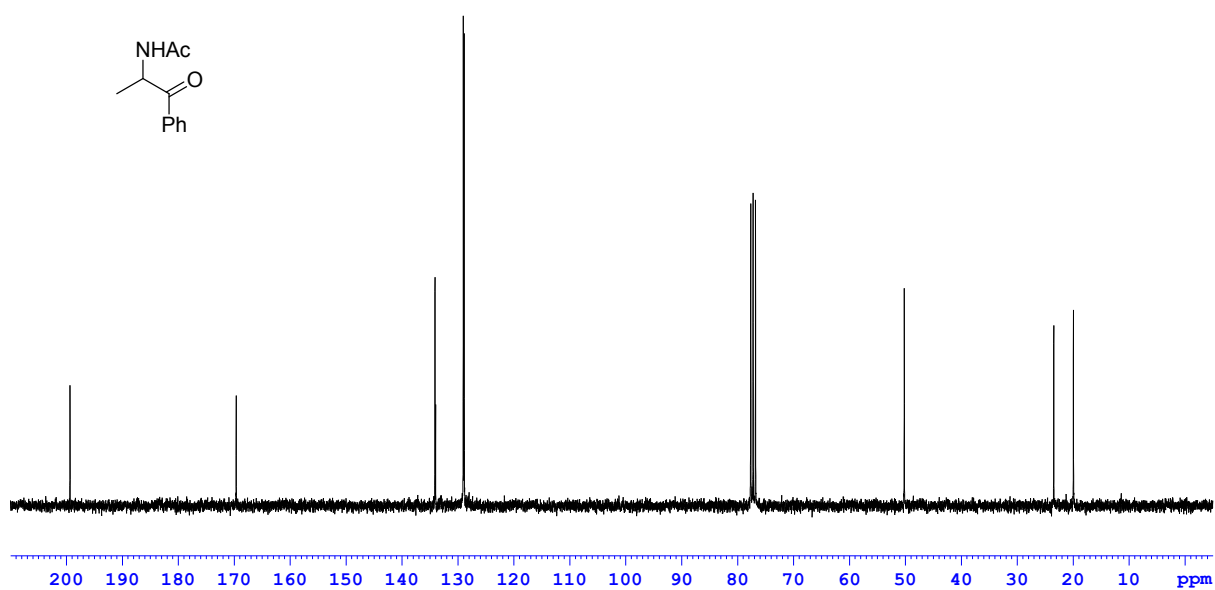
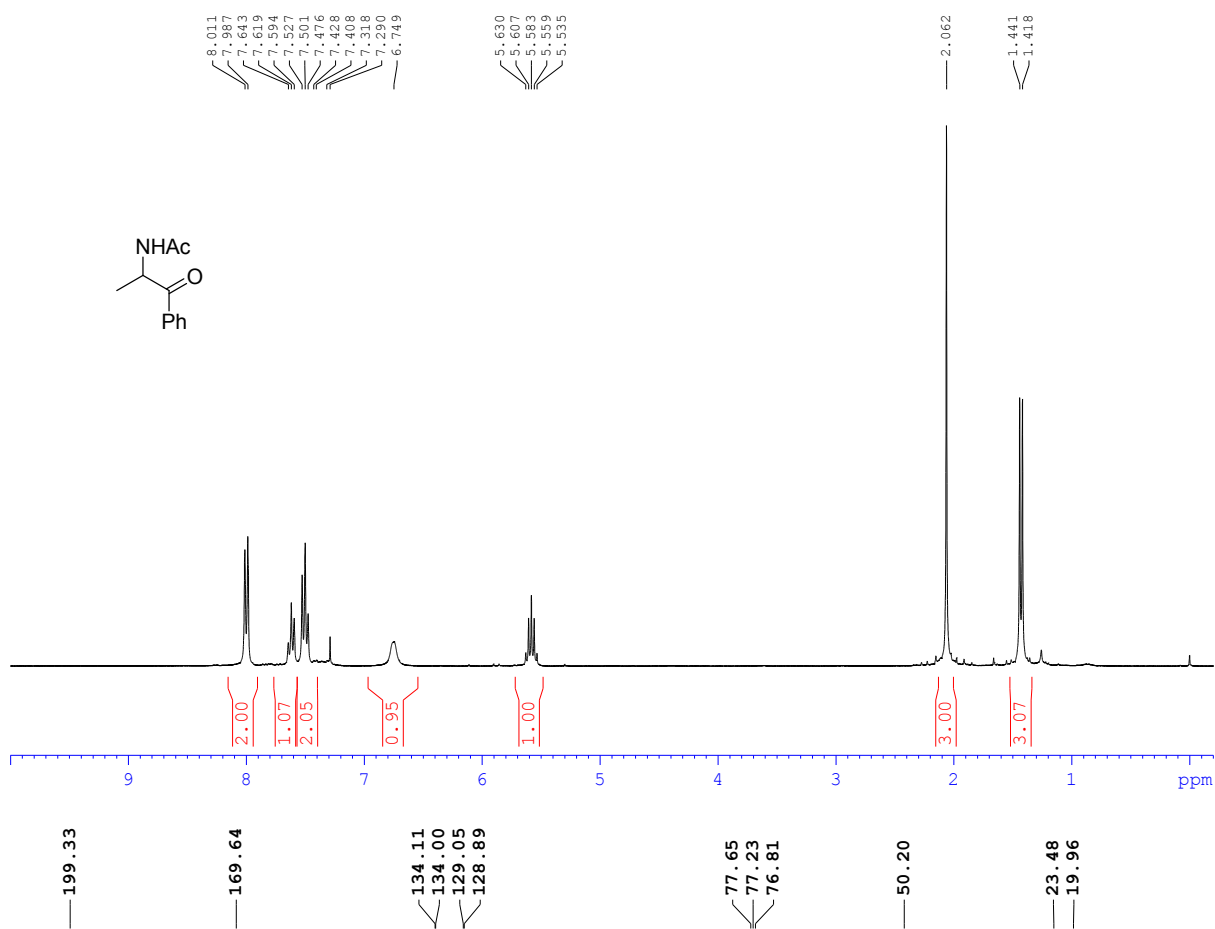
— 38.96

— 27.57

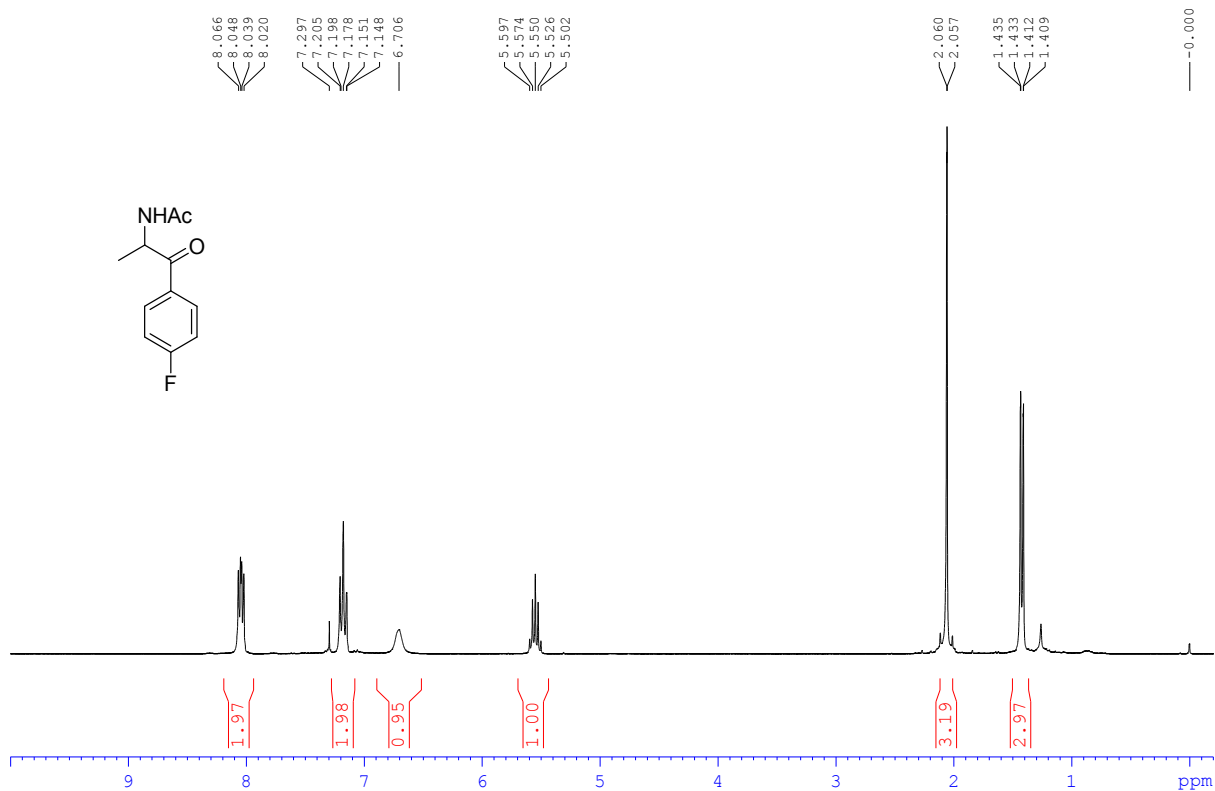
— 23.14



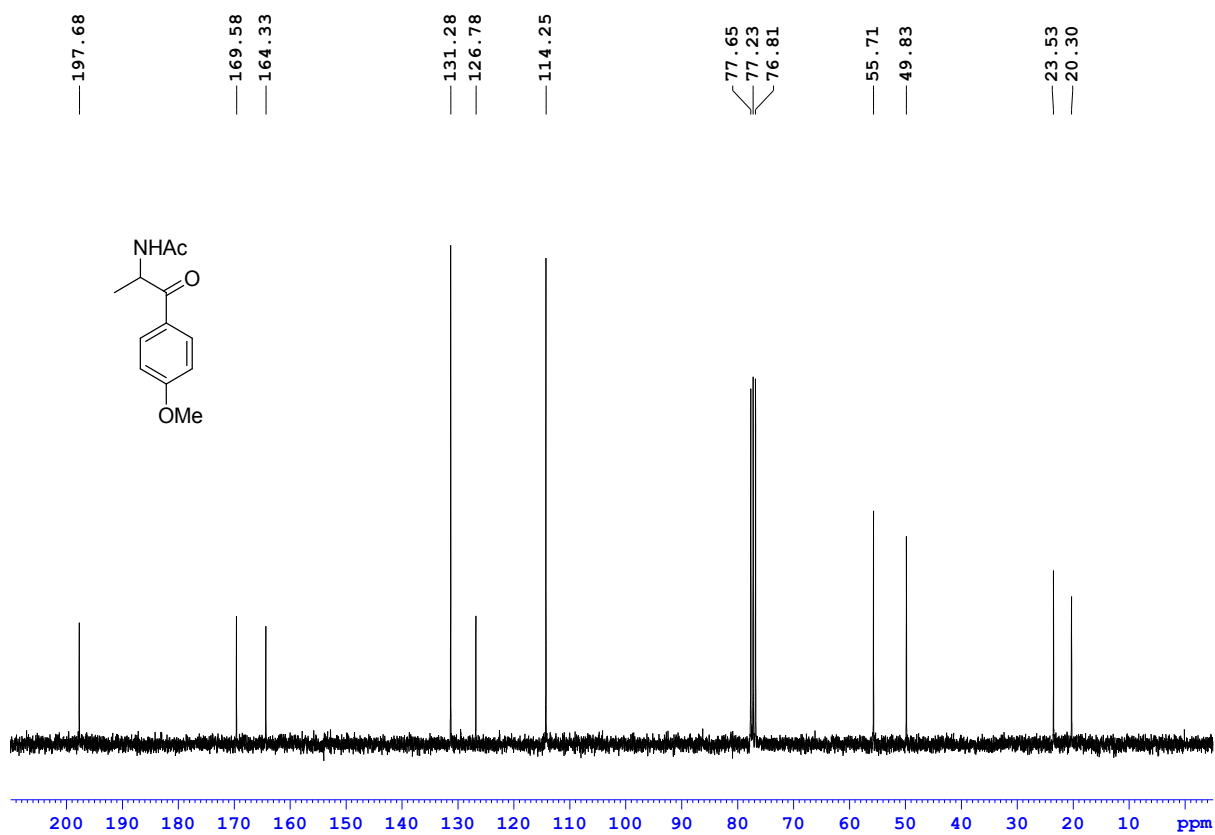
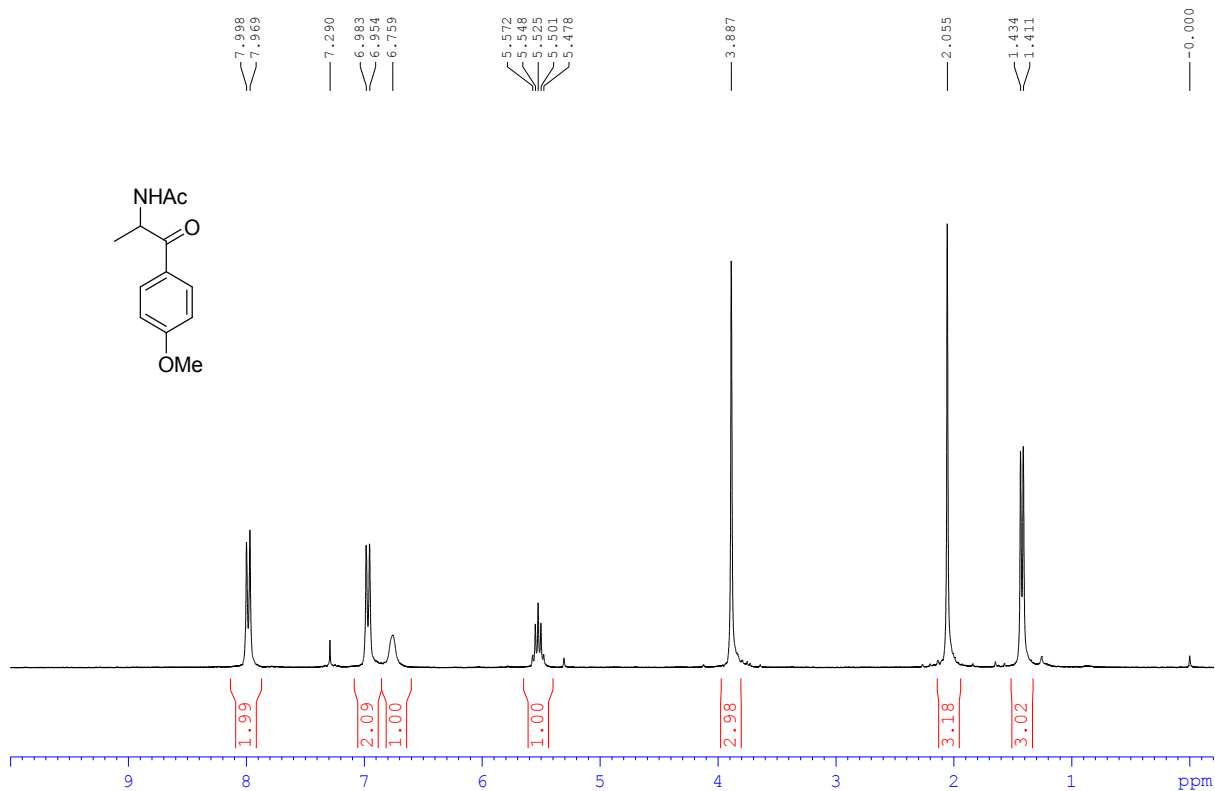
¹H and ¹³C NMR spectrum of **3f**



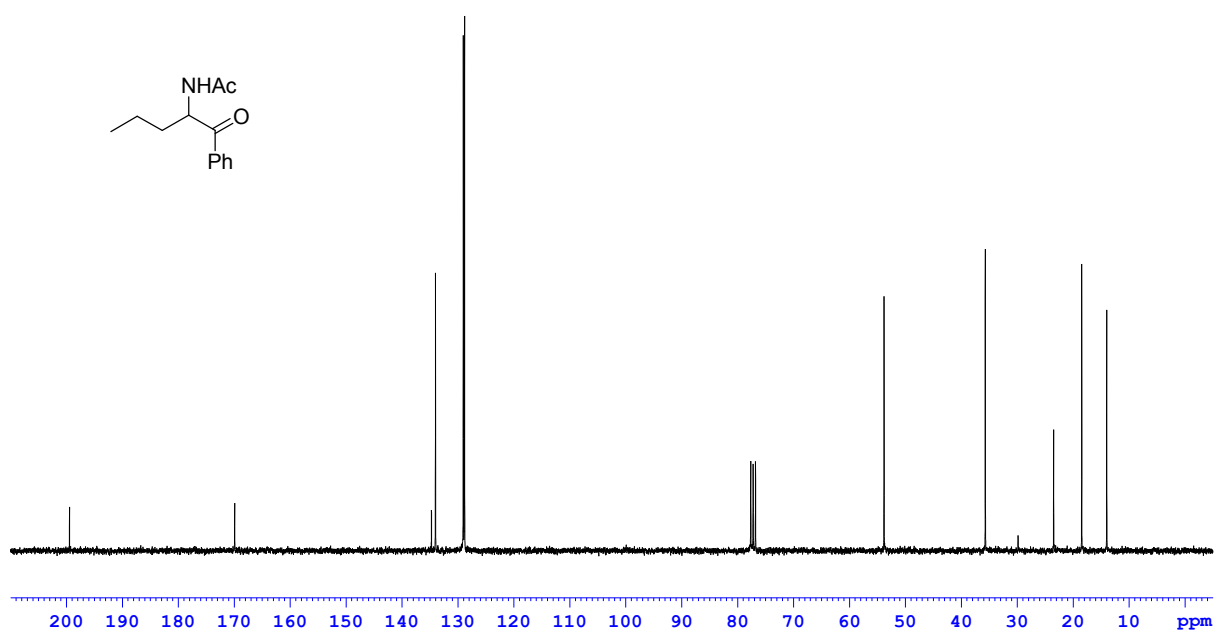
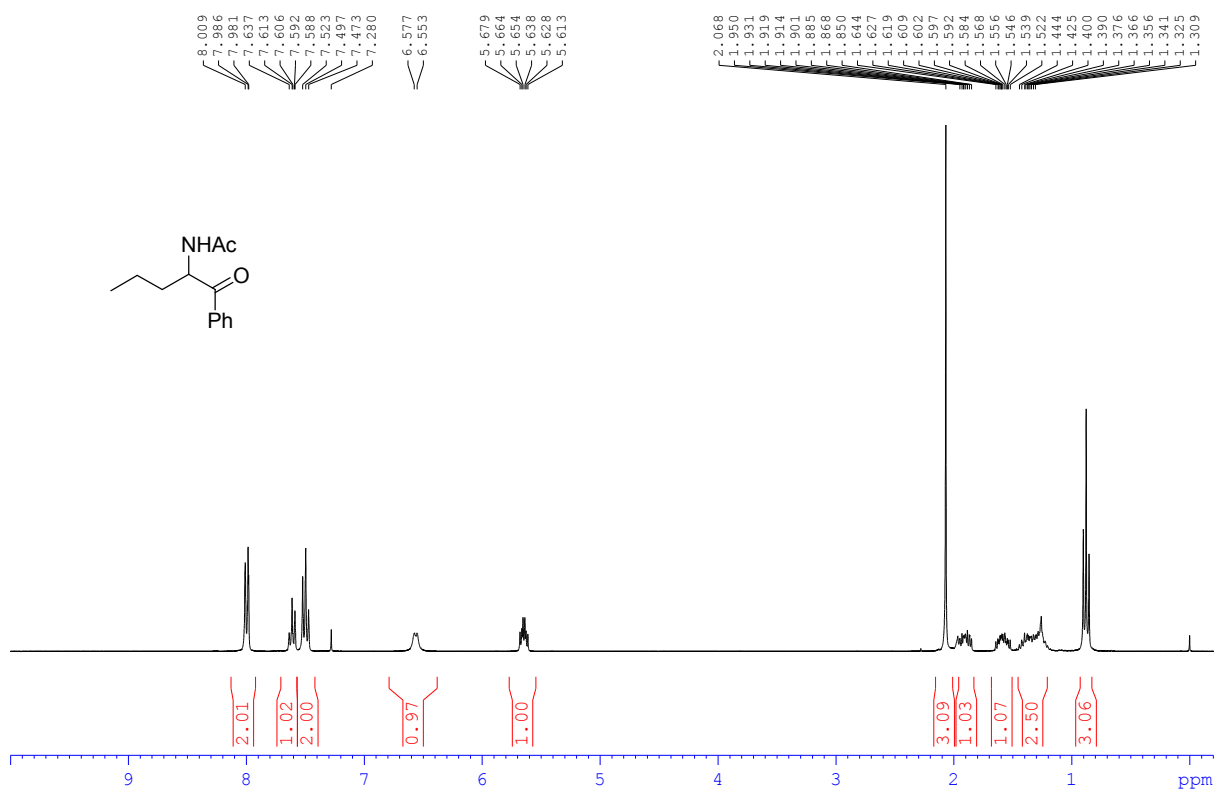
¹H and ¹³C NMR spectrum of **3g**



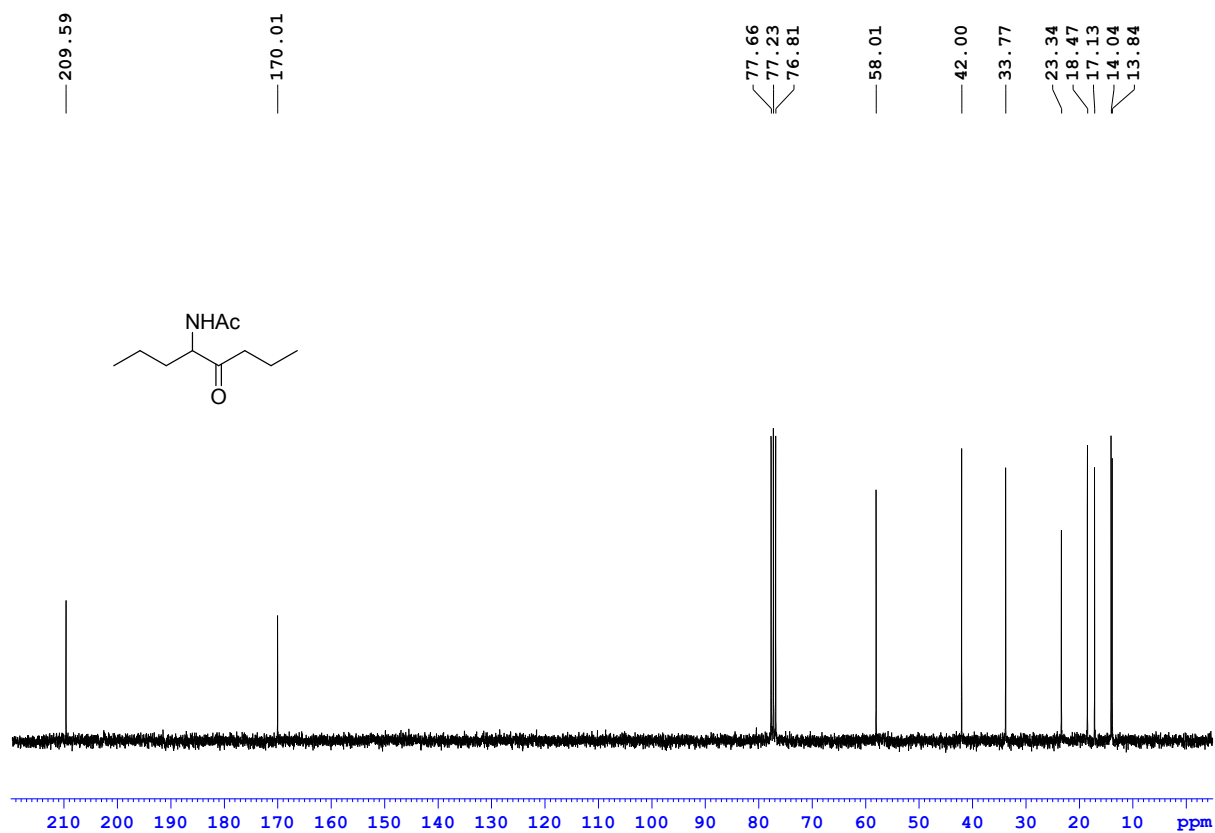
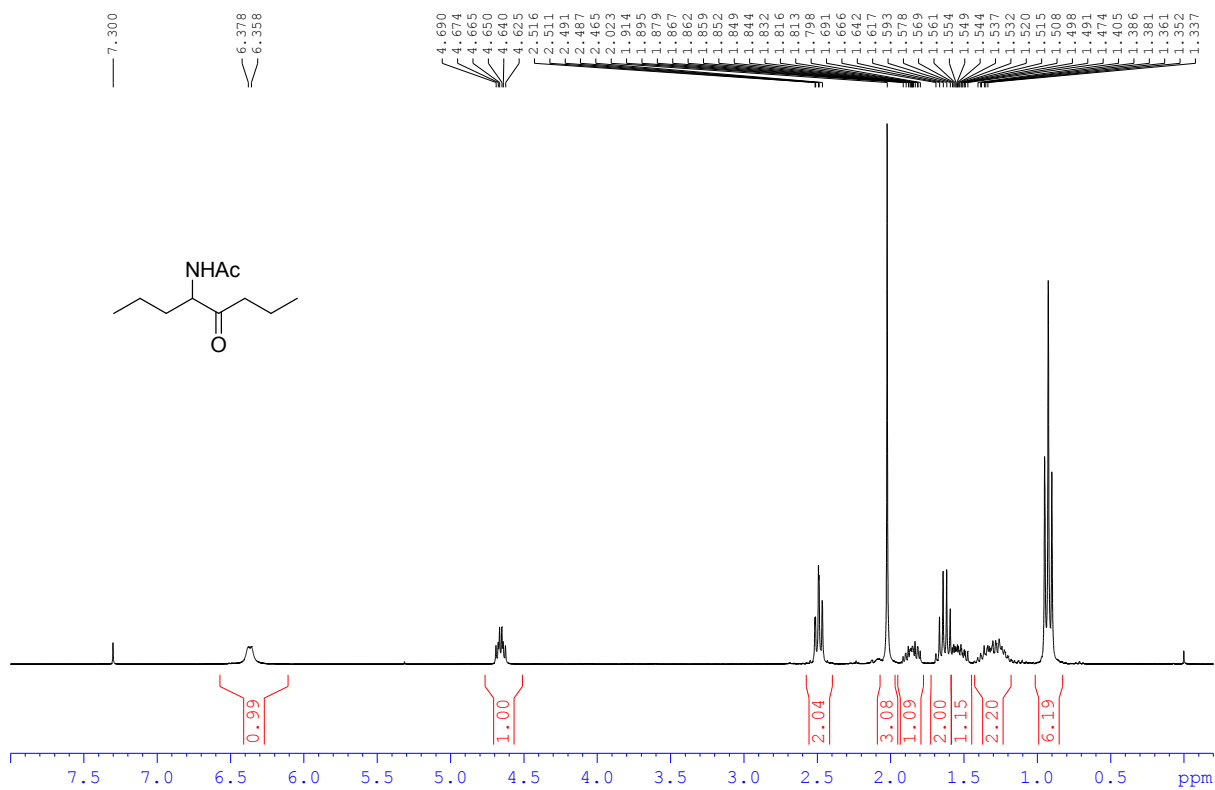
¹H and ¹³C NMR spectrum of **3h**



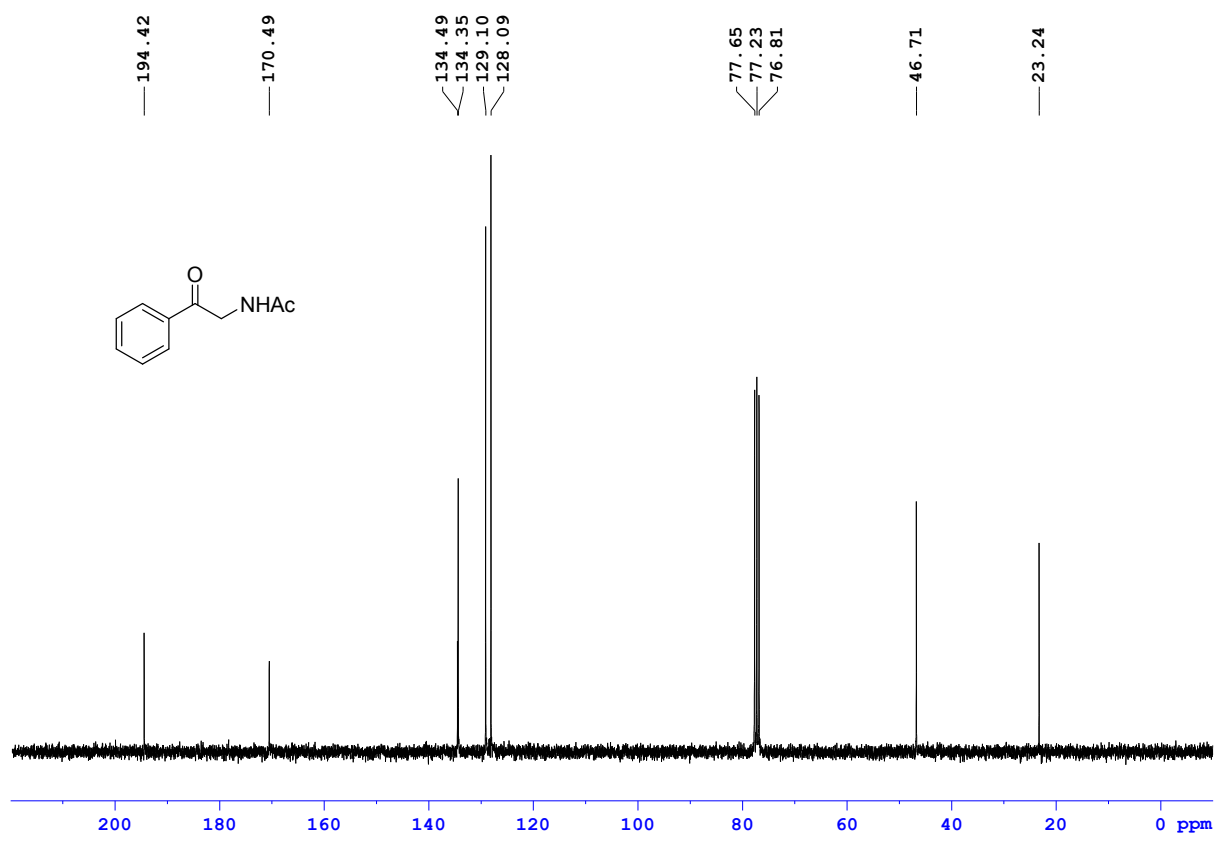
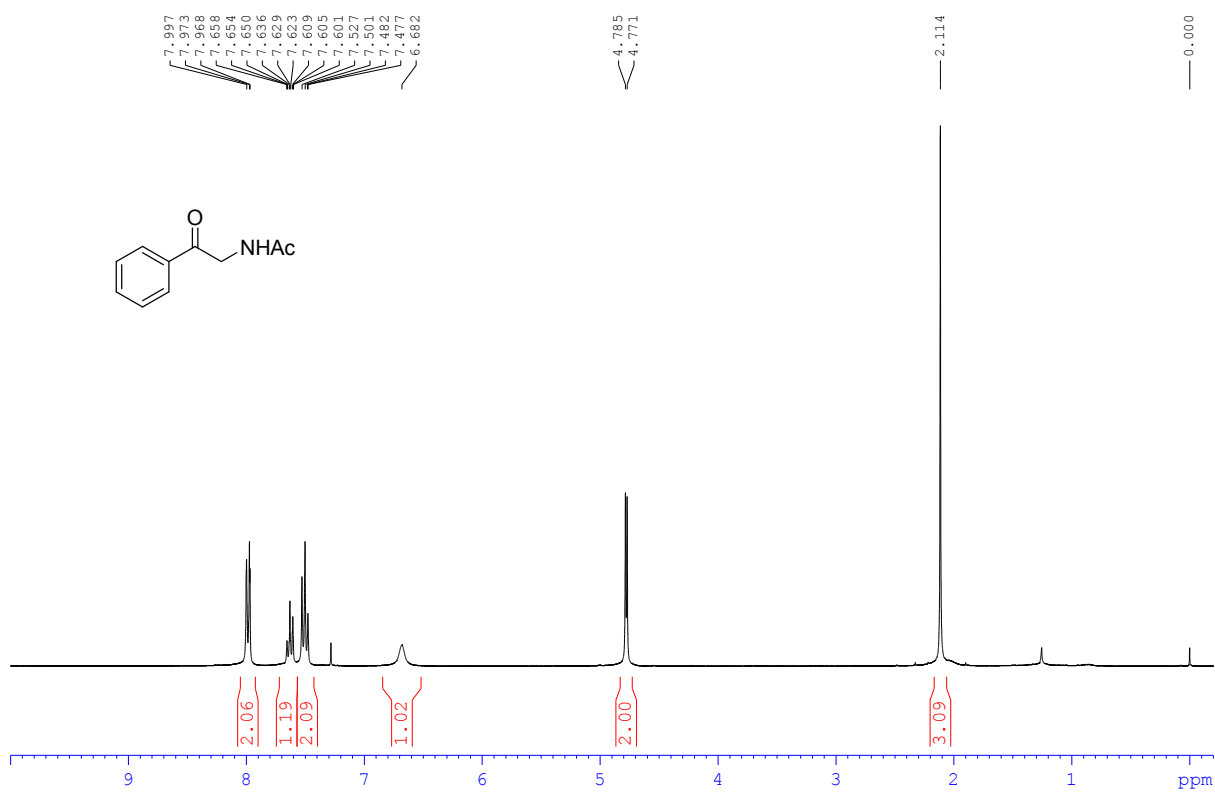
¹H and ¹³C NMR spectrum of **3i**



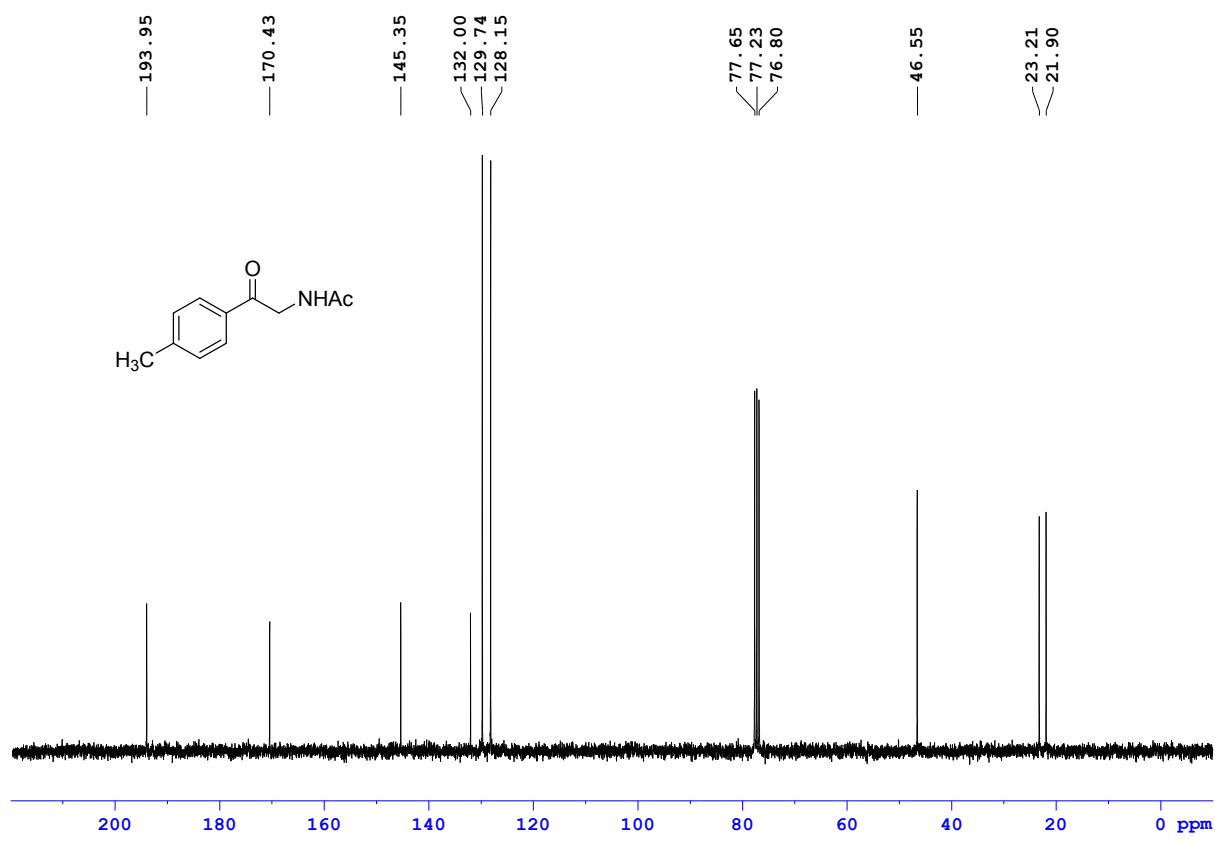
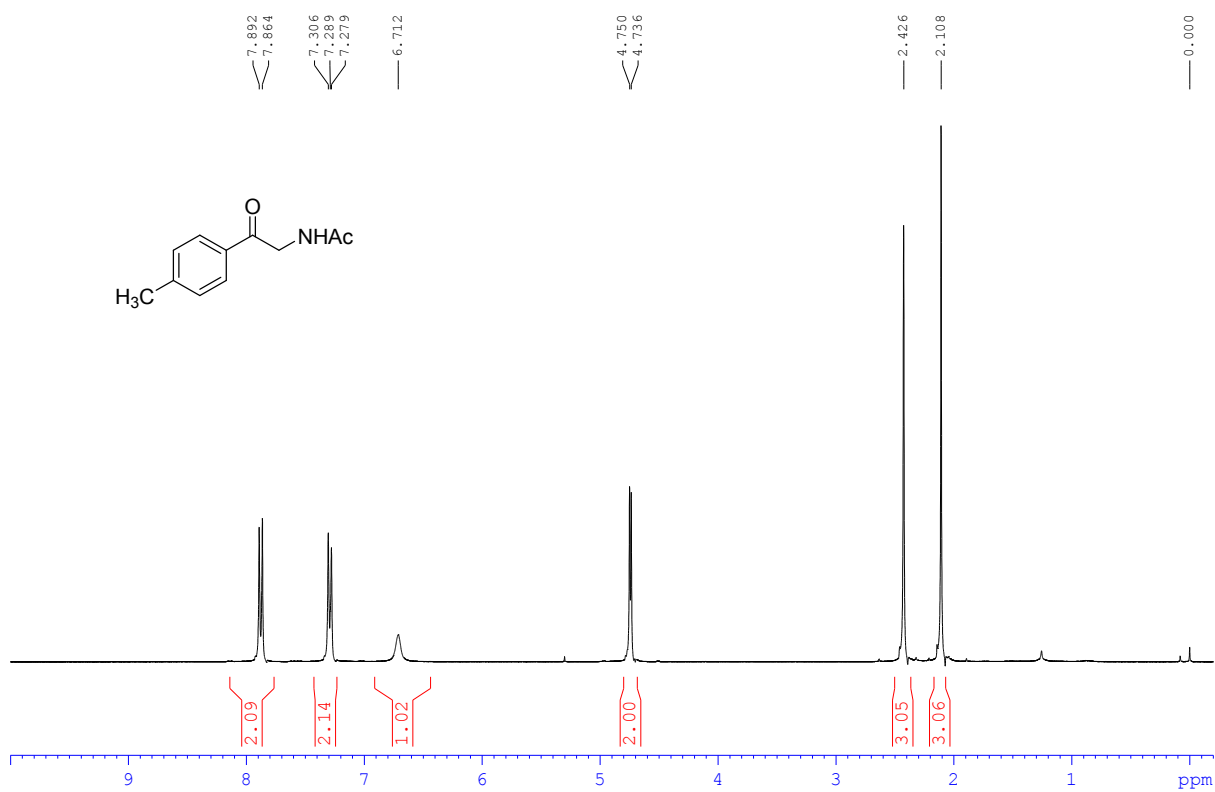
¹H and ¹³C NMR spectrum of **3j**



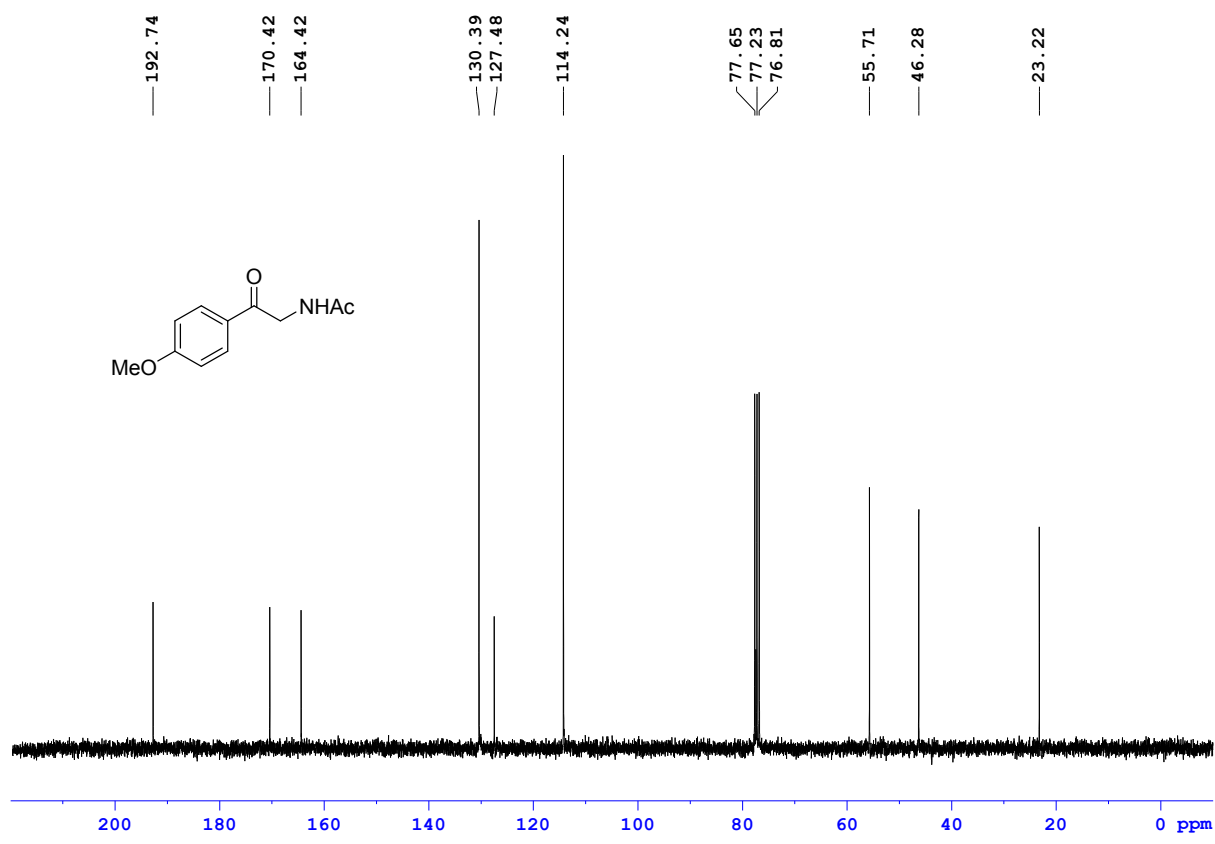
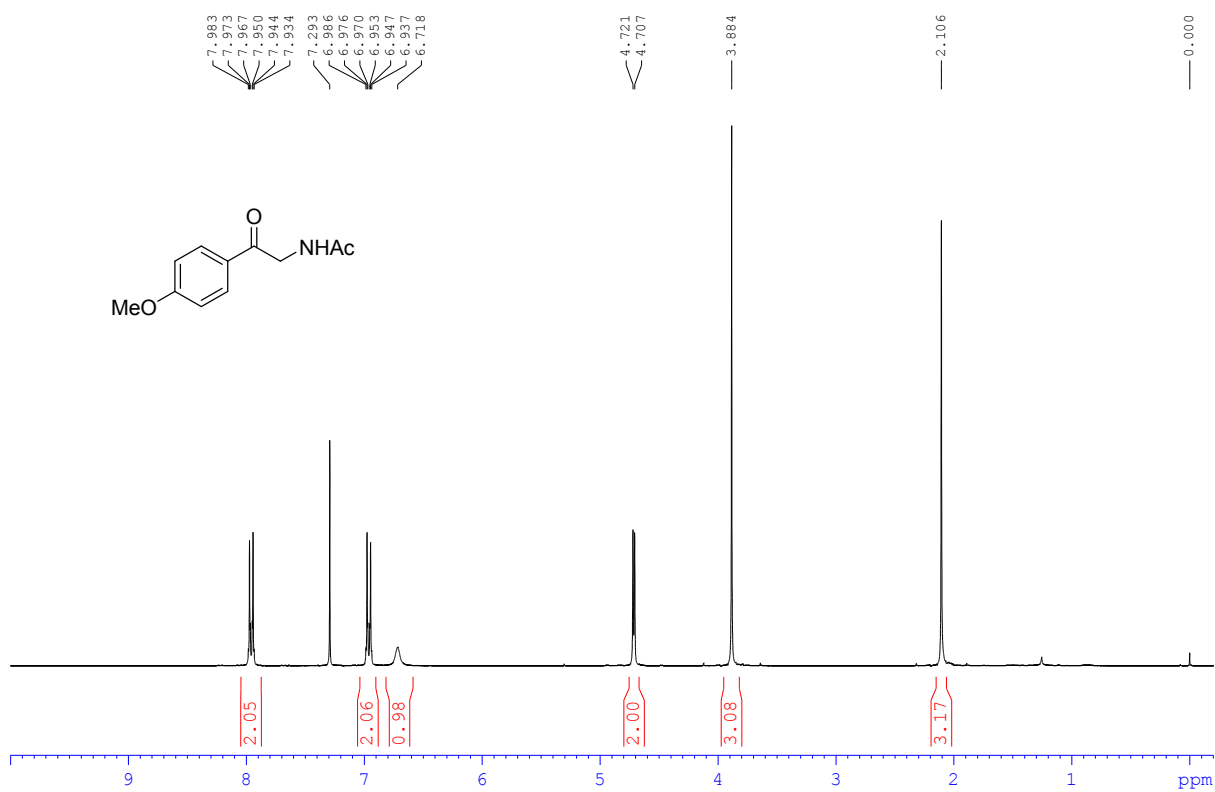
^1H and ^{13}C NMR spectrum of **3k**



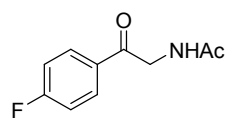
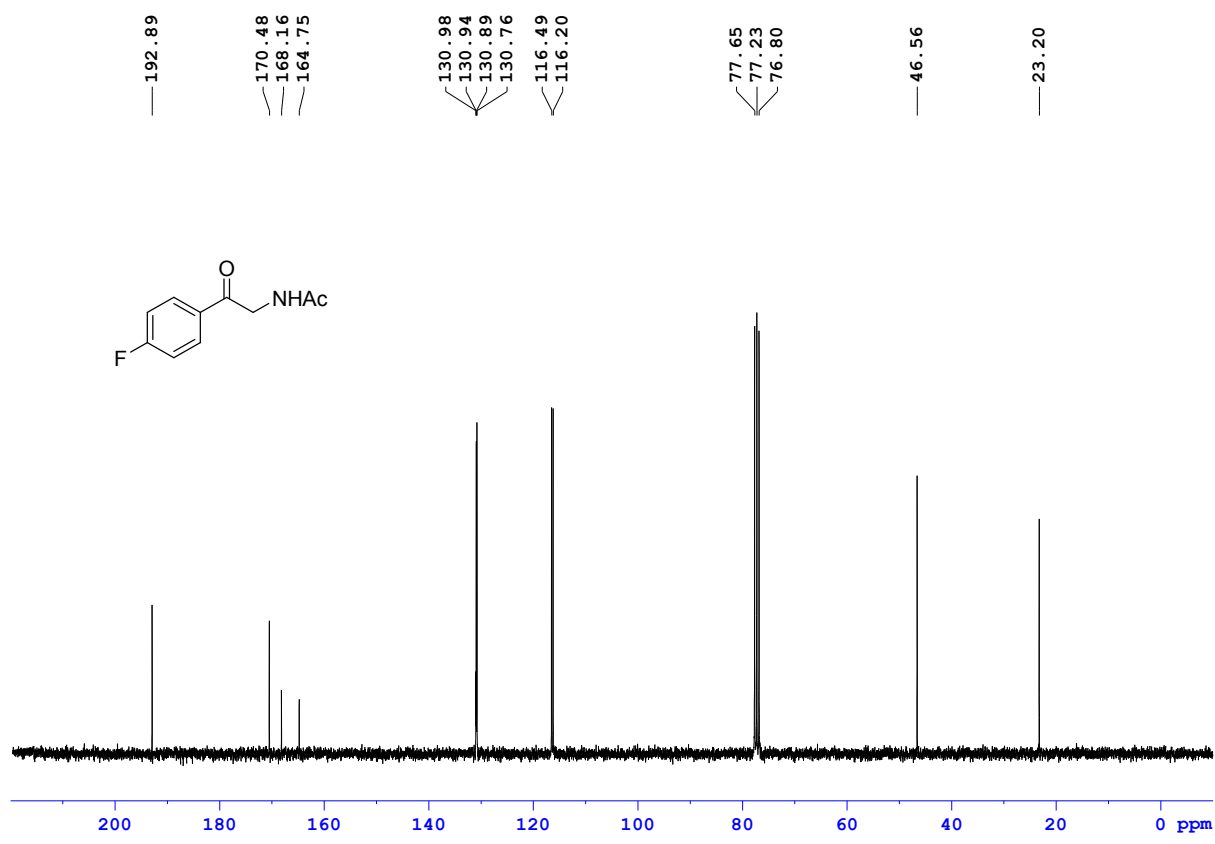
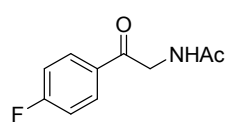
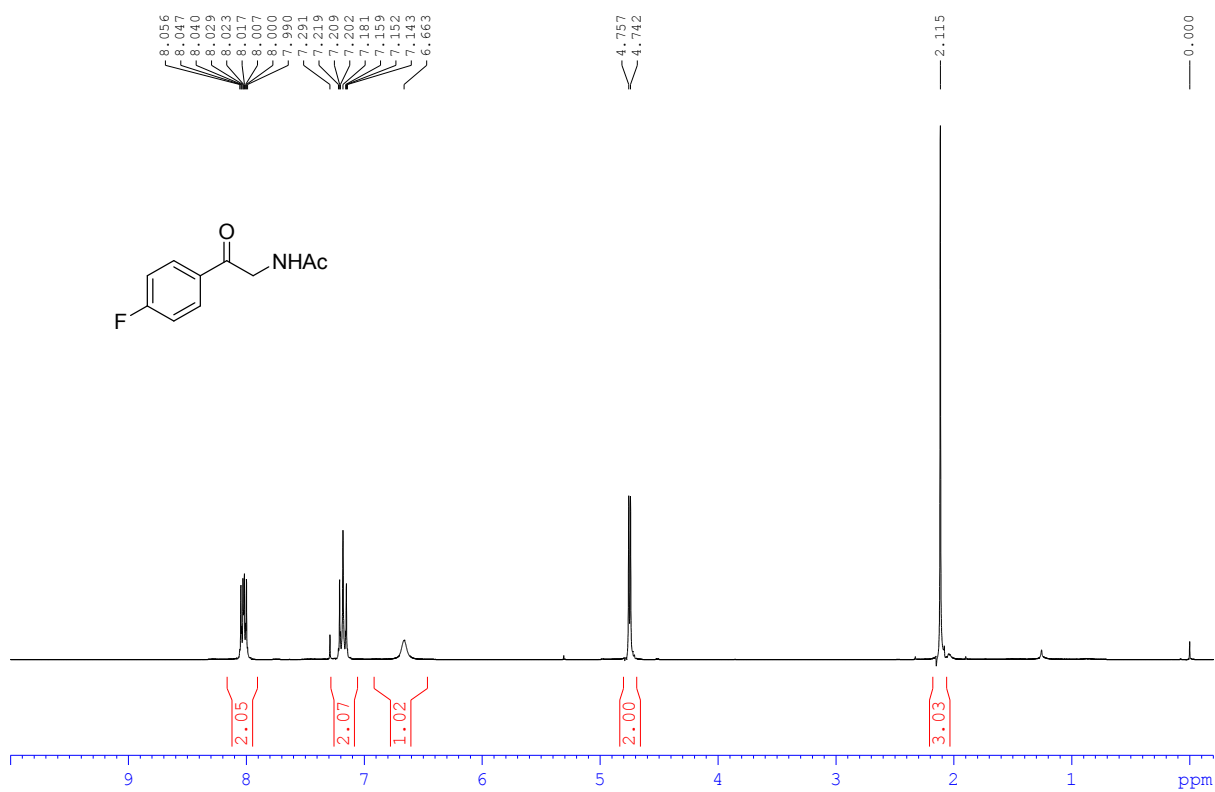
¹H and ¹³C NMR spectrum of **31**



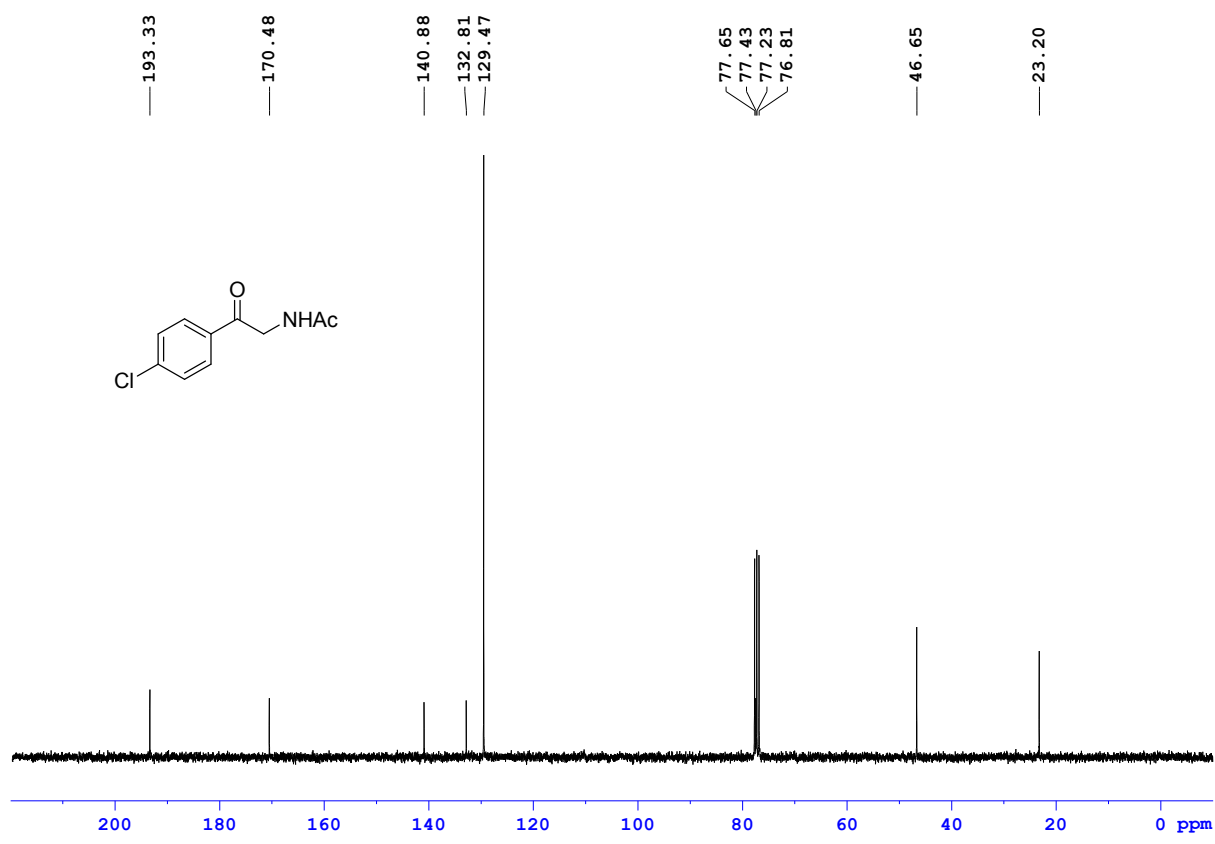
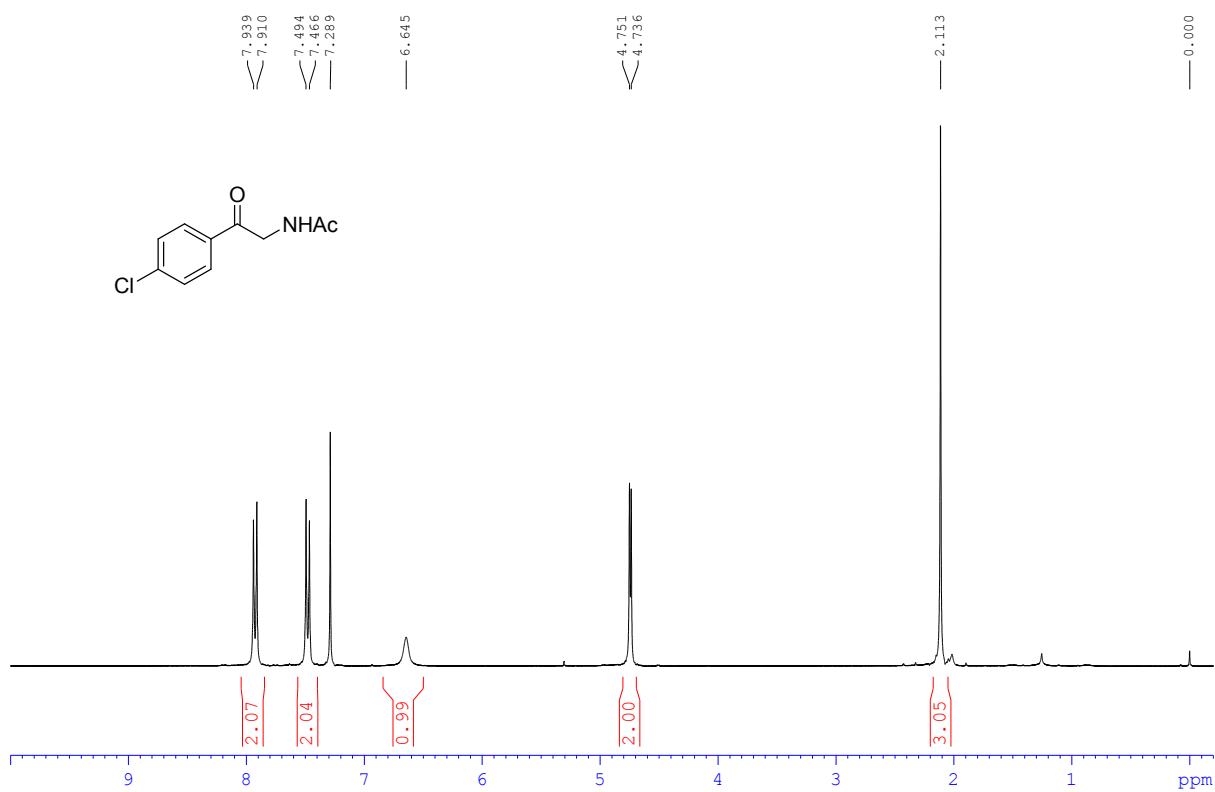
¹H and ¹³C NMR spectrum of **3m**



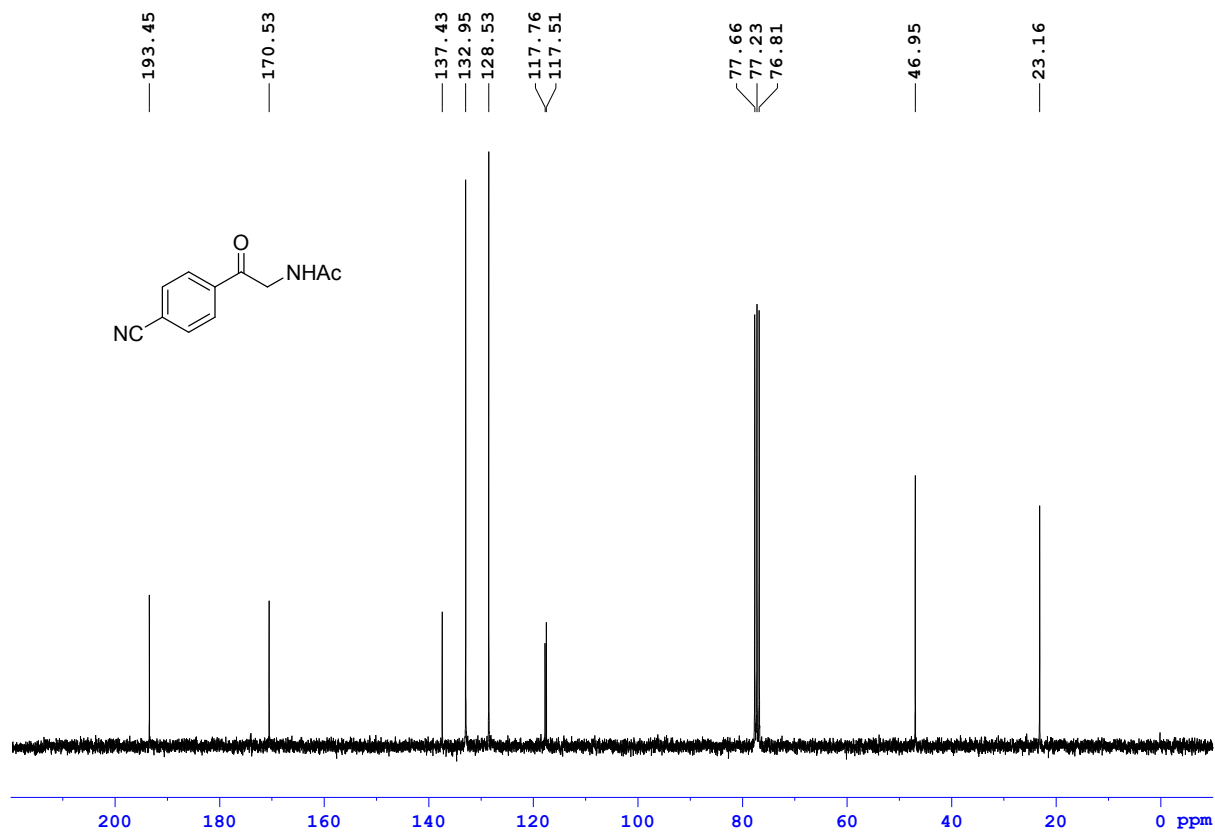
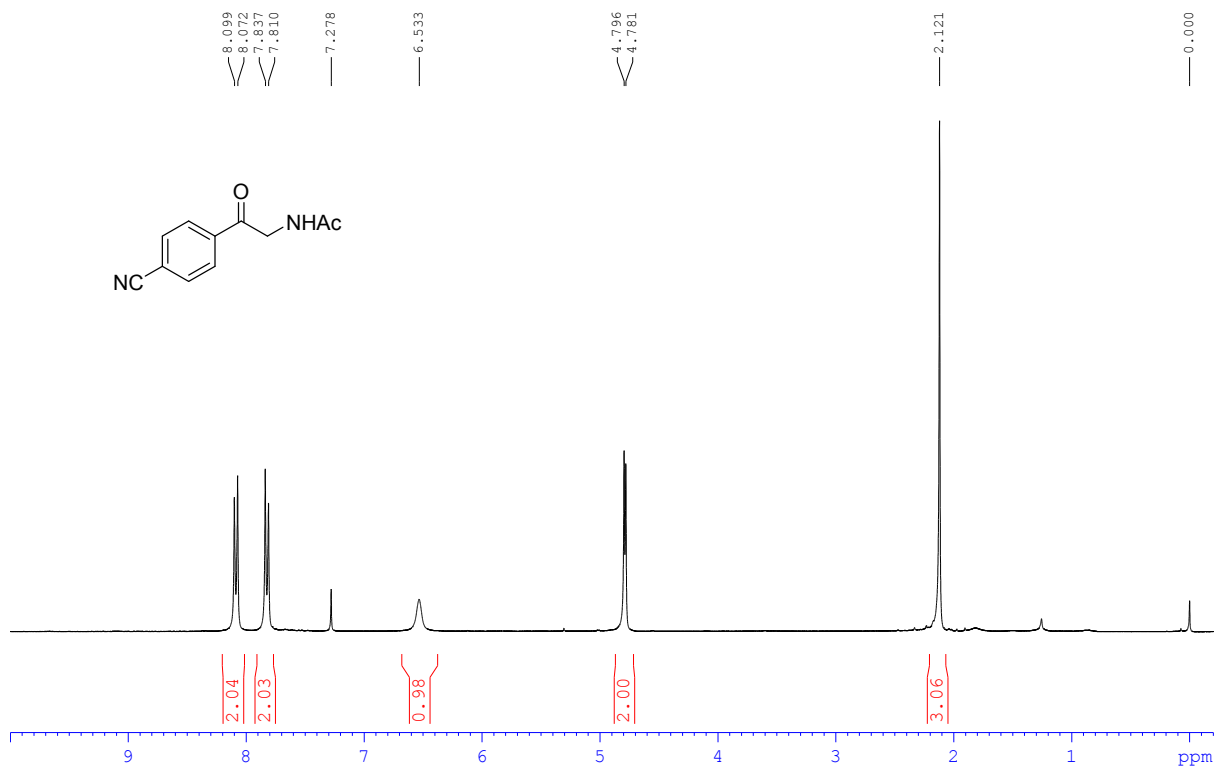
¹H and ¹³C NMR spectrum of **3n**



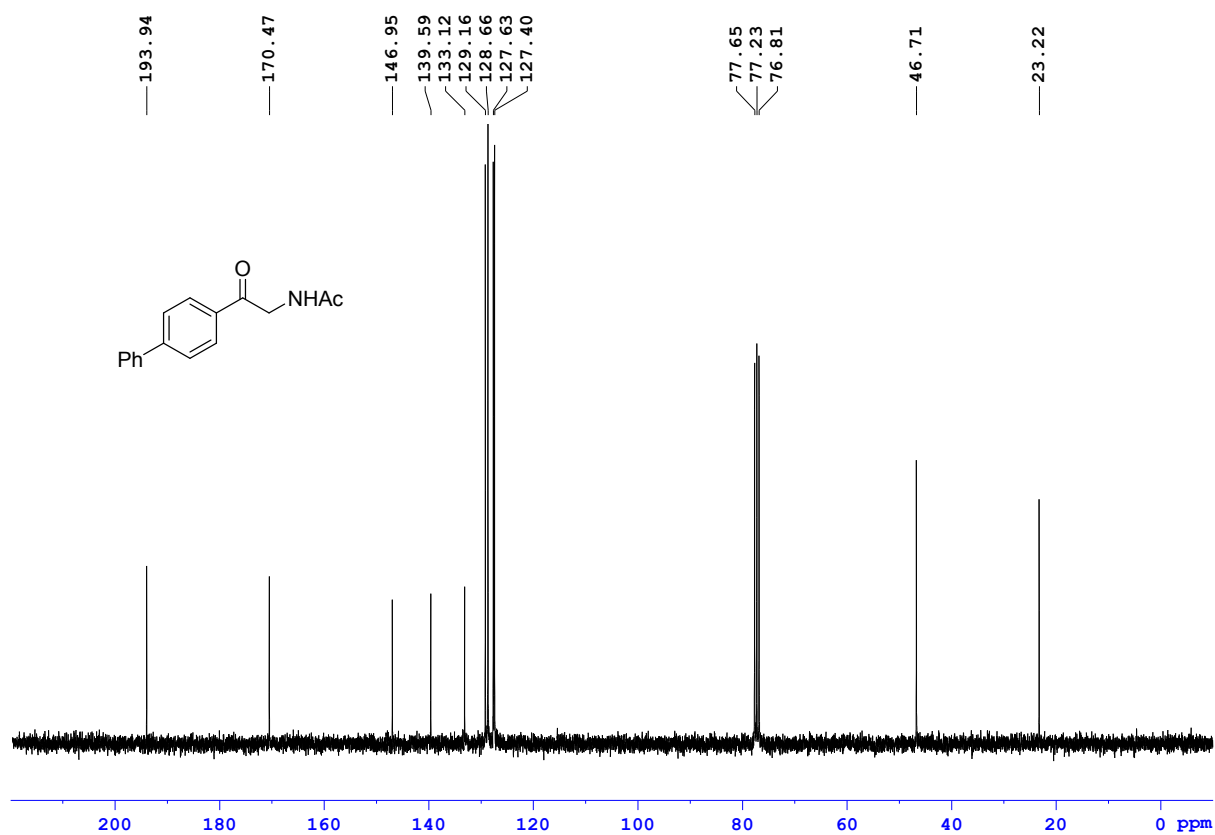
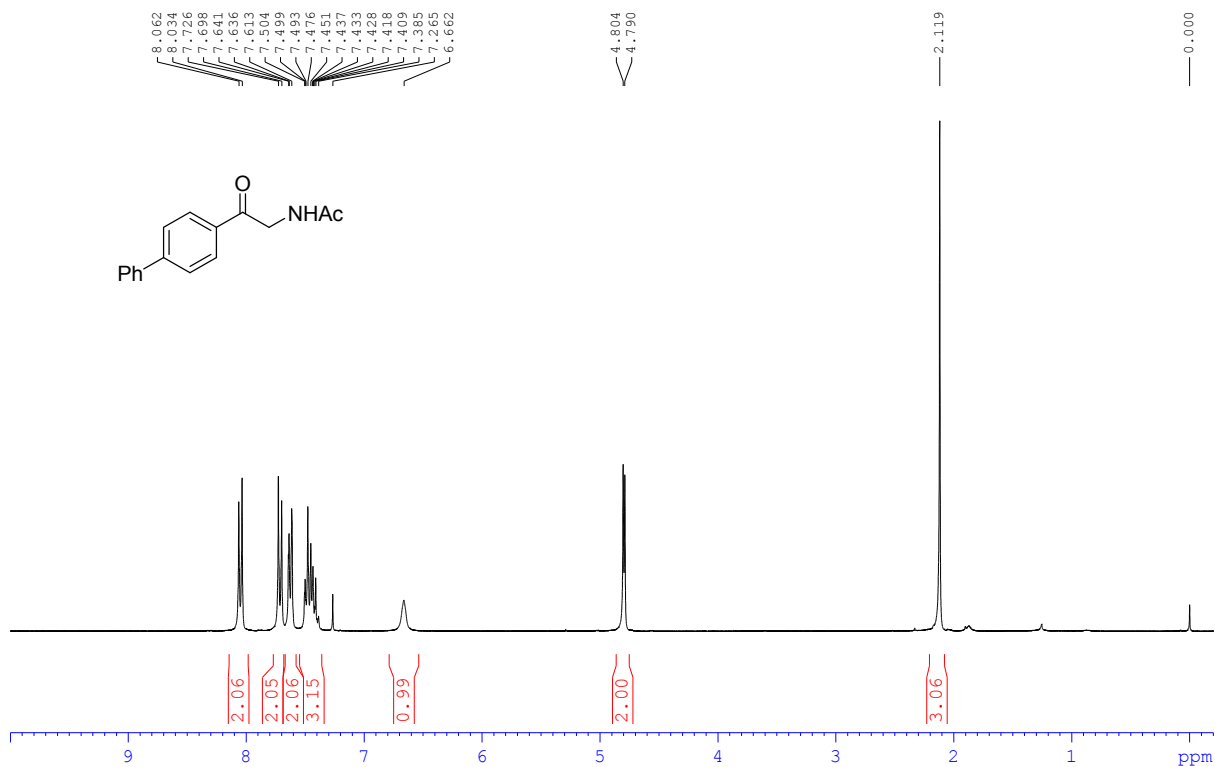
^1H and ^{13}C NMR spectrum of **30**



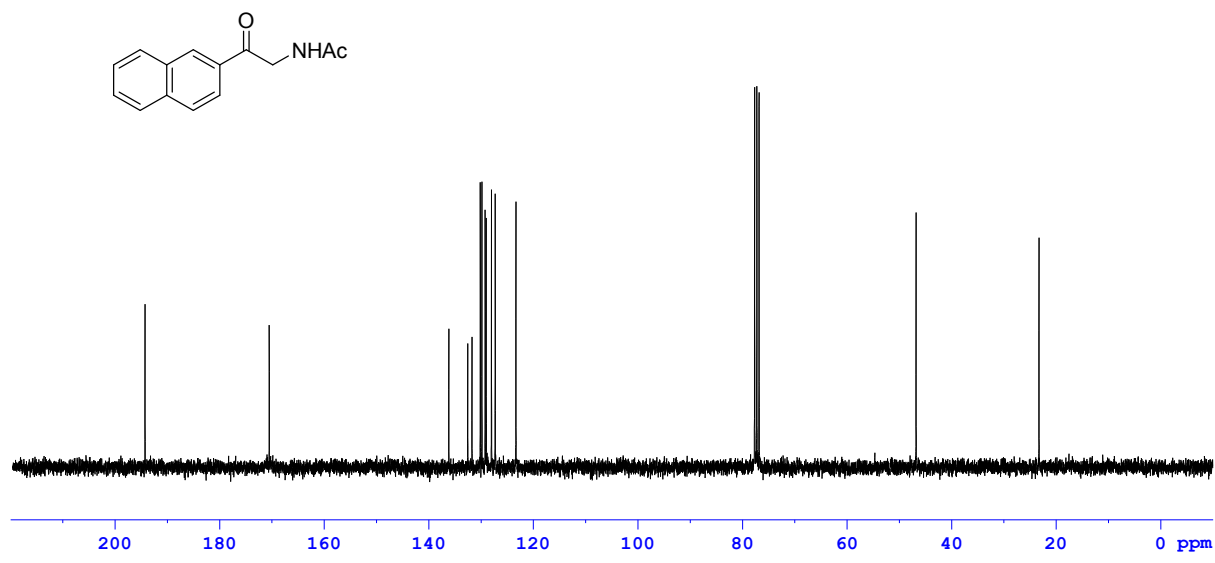
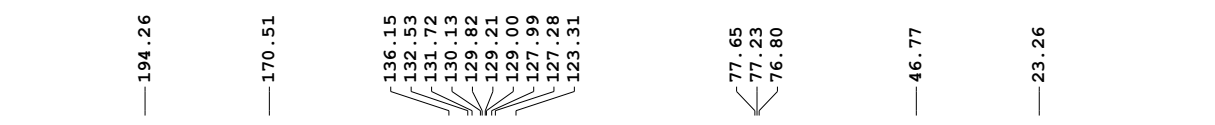
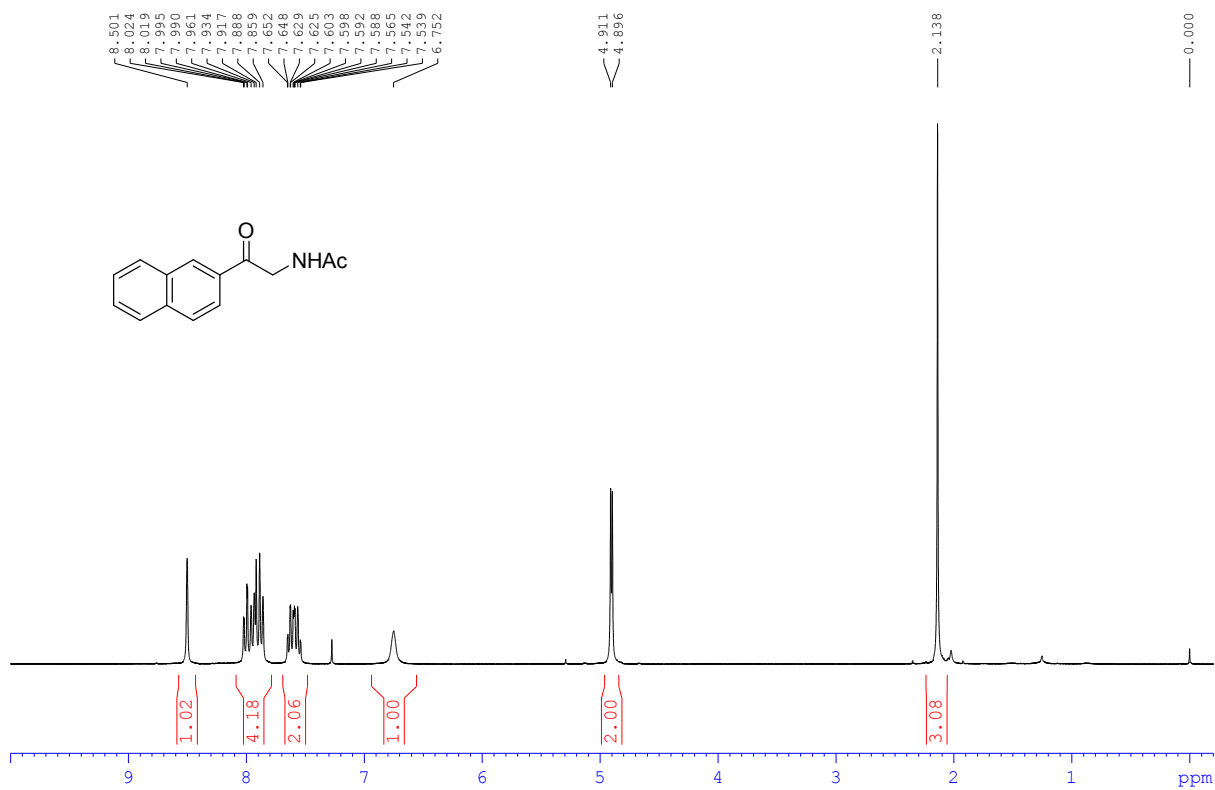
¹H and ¹³C NMR spectrum of 3p



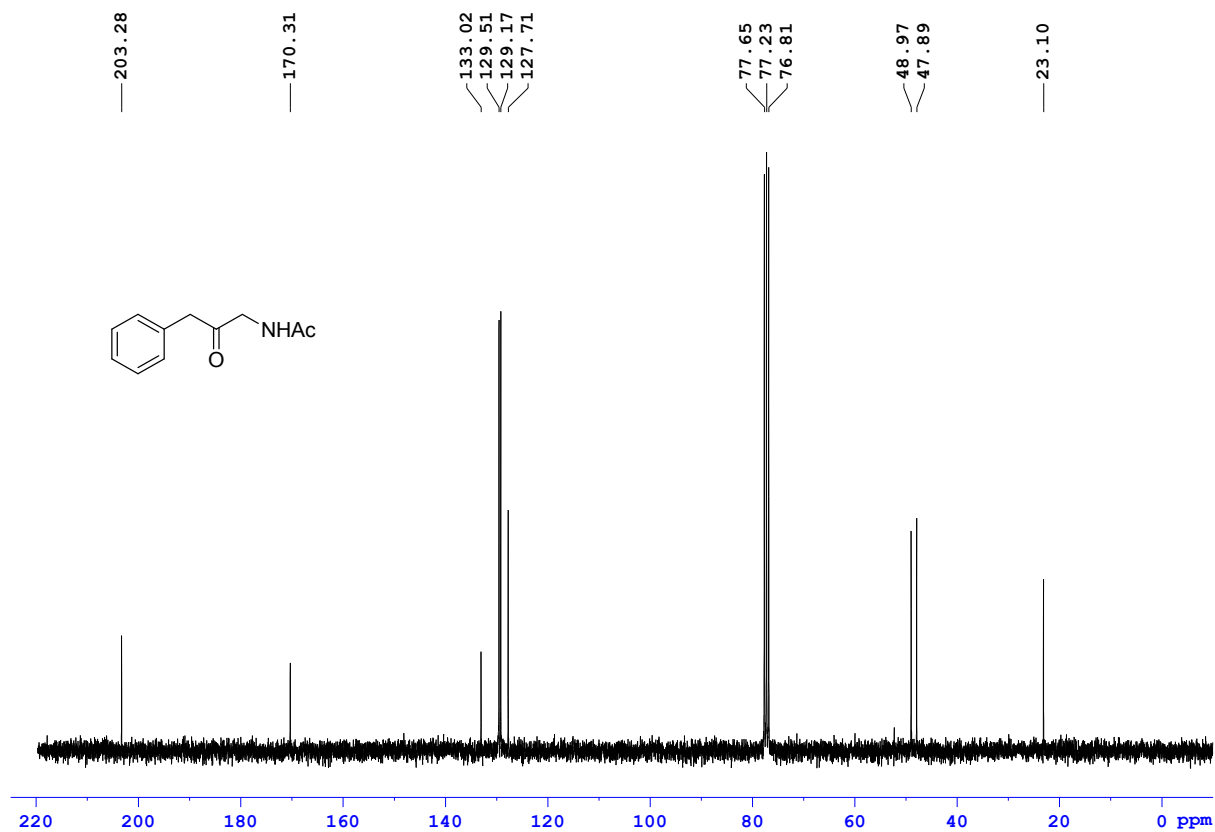
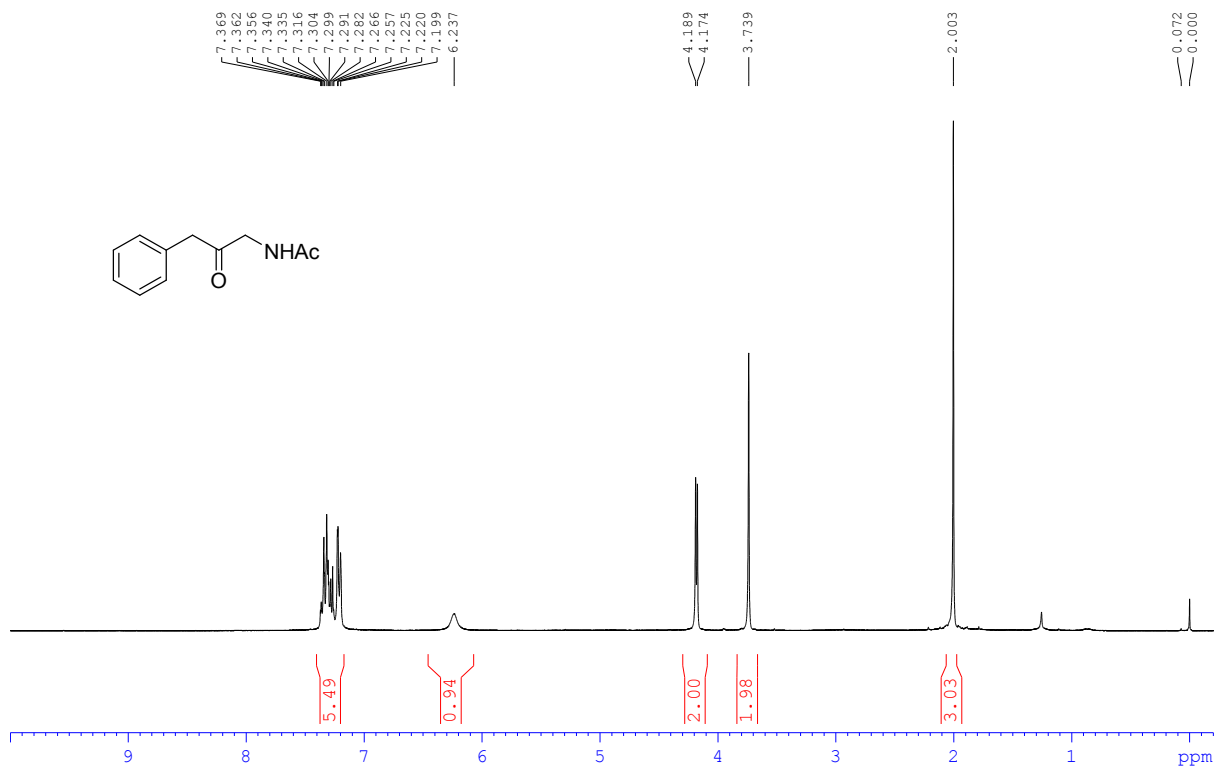
¹H and ¹³C NMR spectrum of **3q**



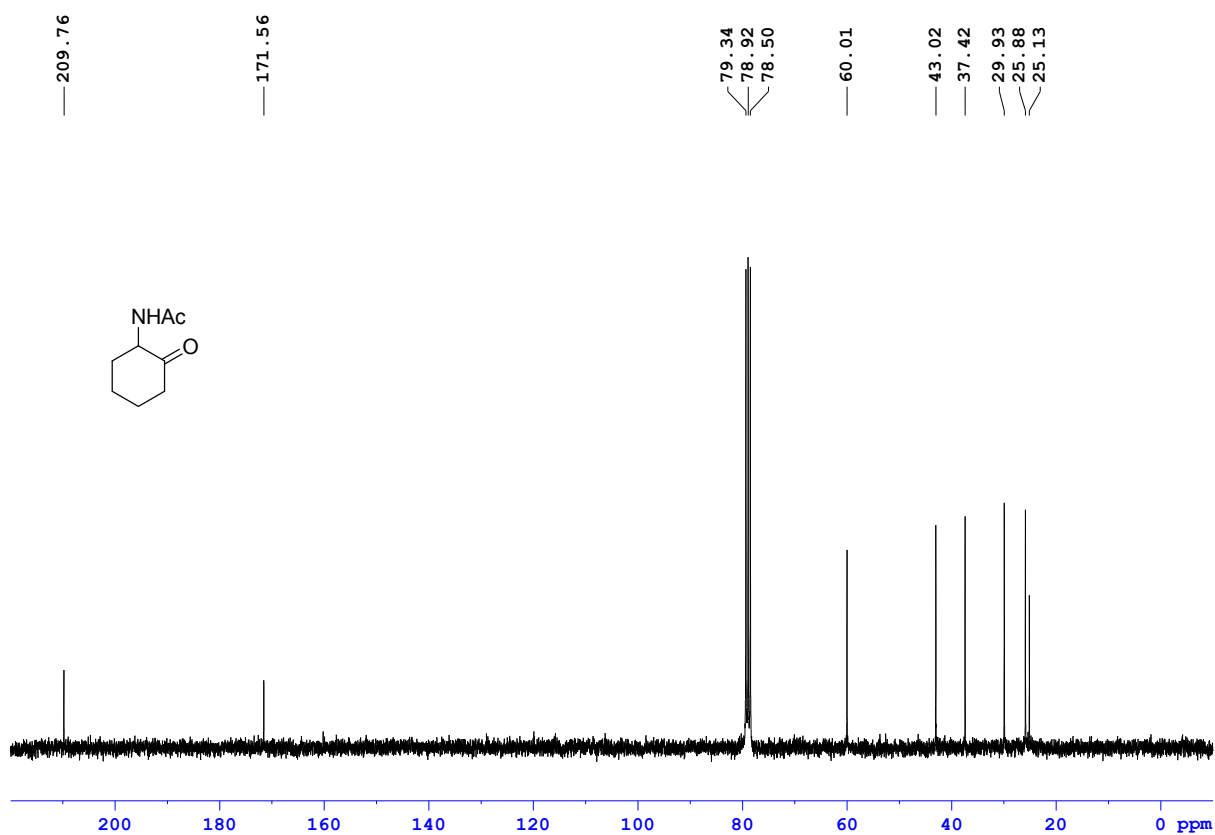
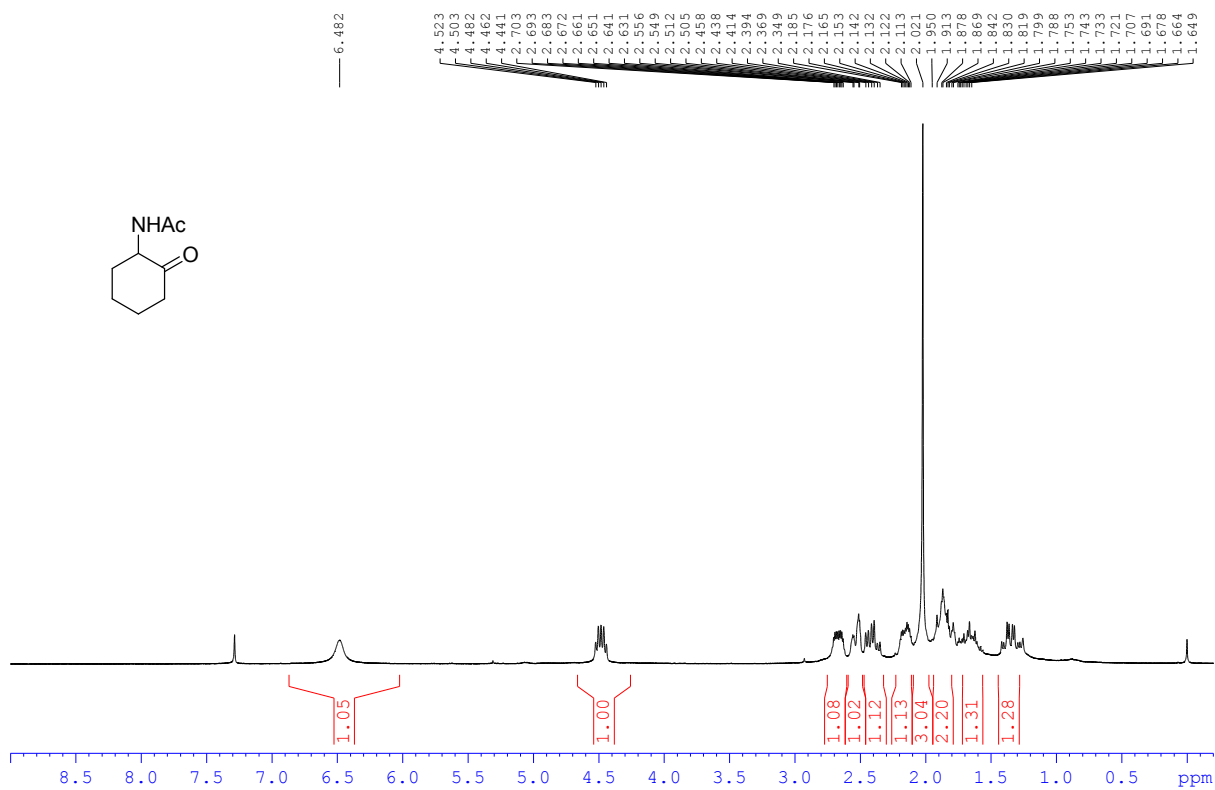
¹H and ¹³C NMR spectrum of **3r**



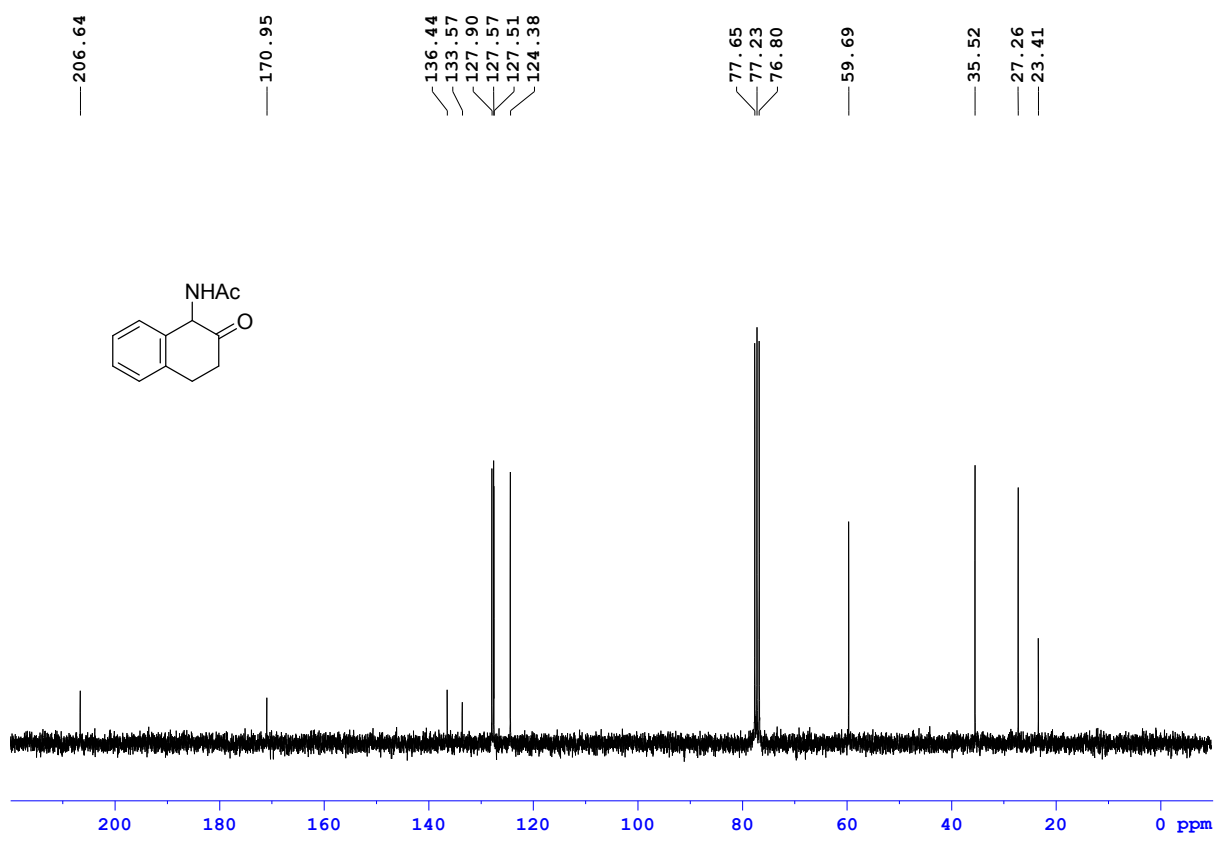
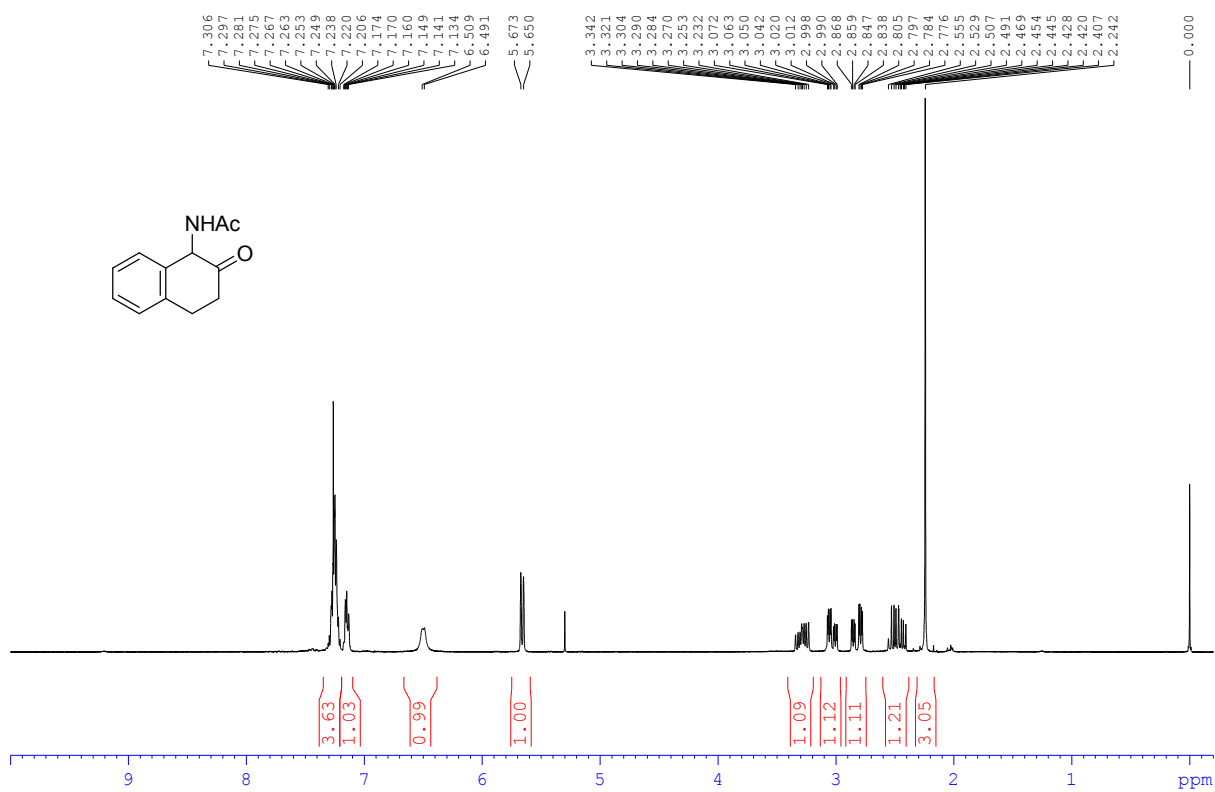
¹H and ¹³C NMR spectrum of **3s**



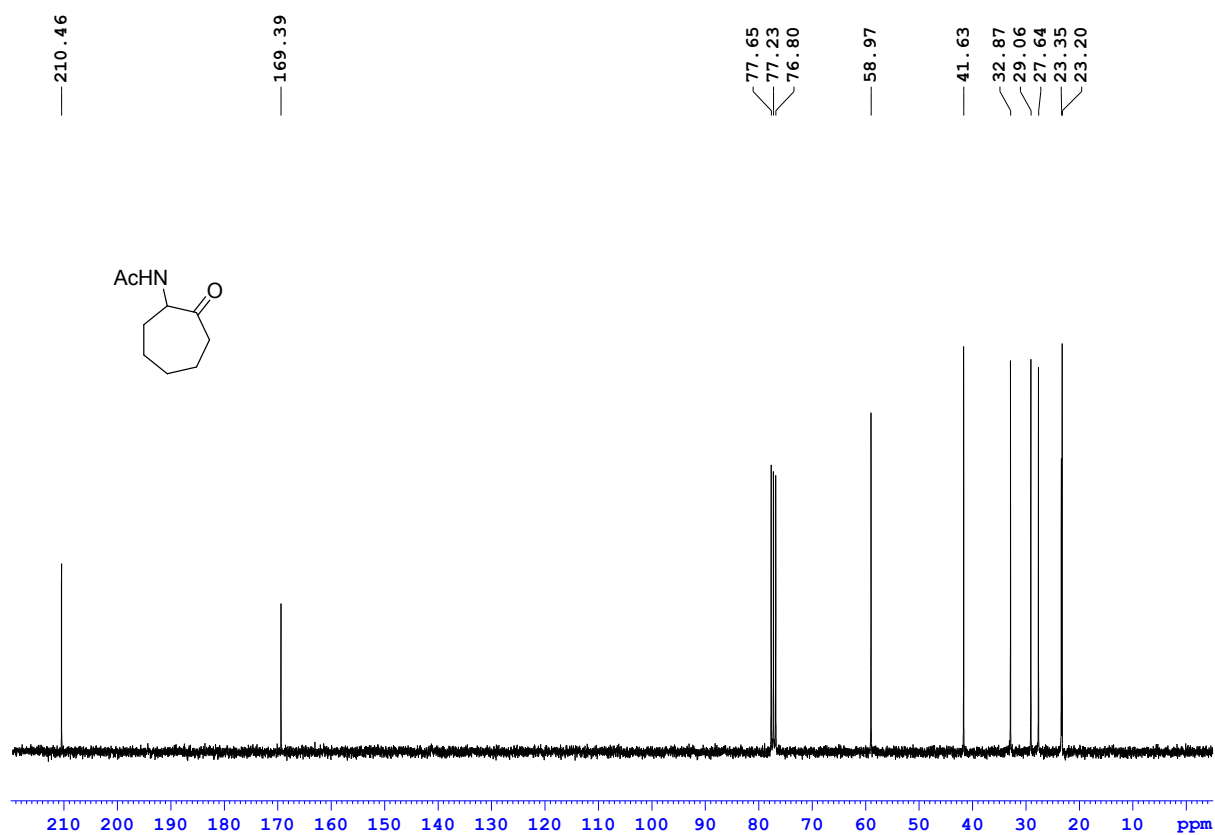
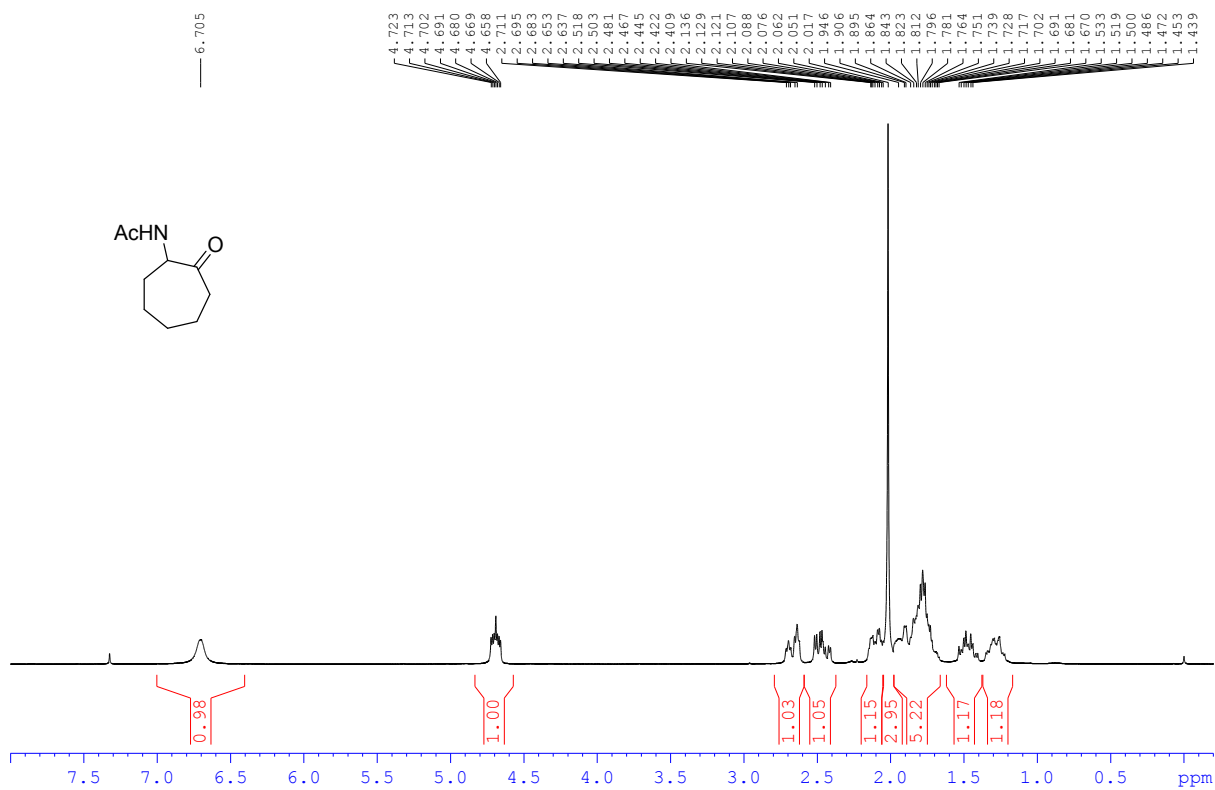
¹H and ¹³C NMR spectrum of **3u**



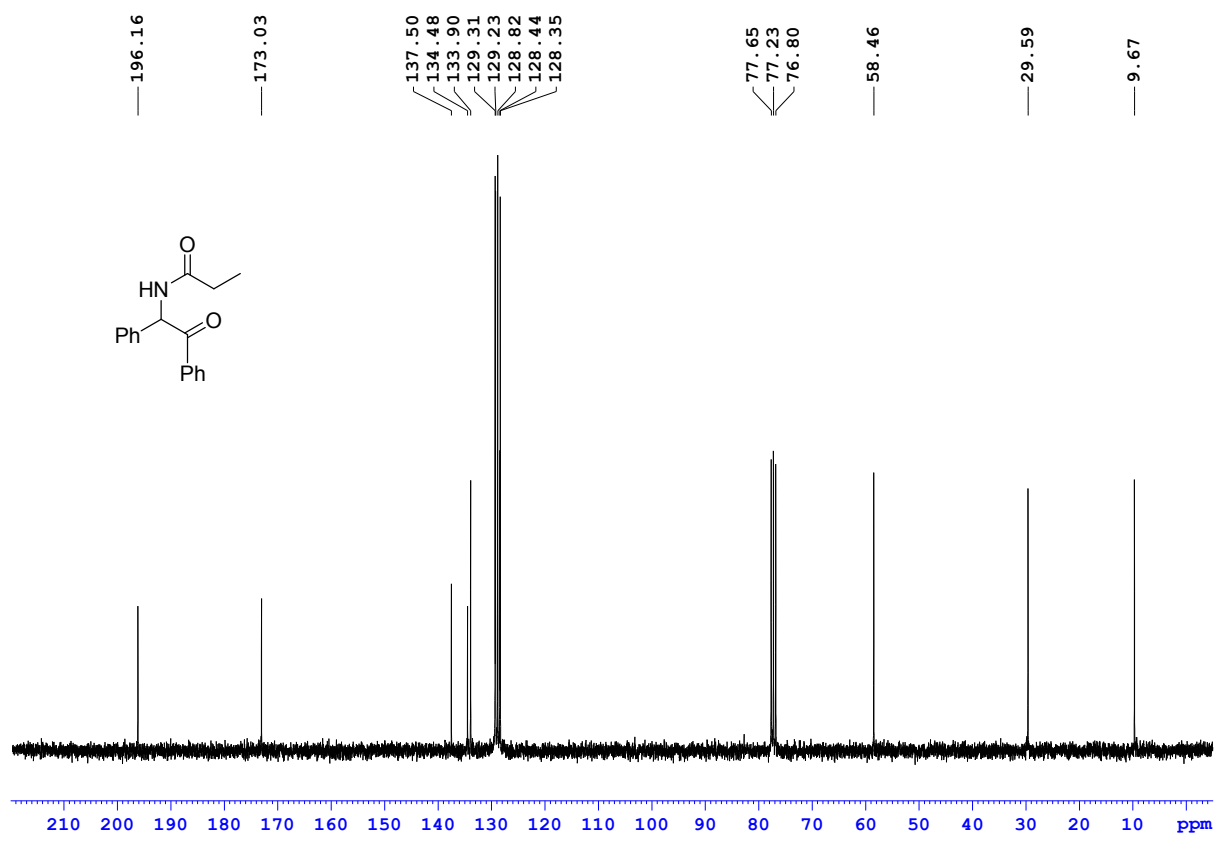
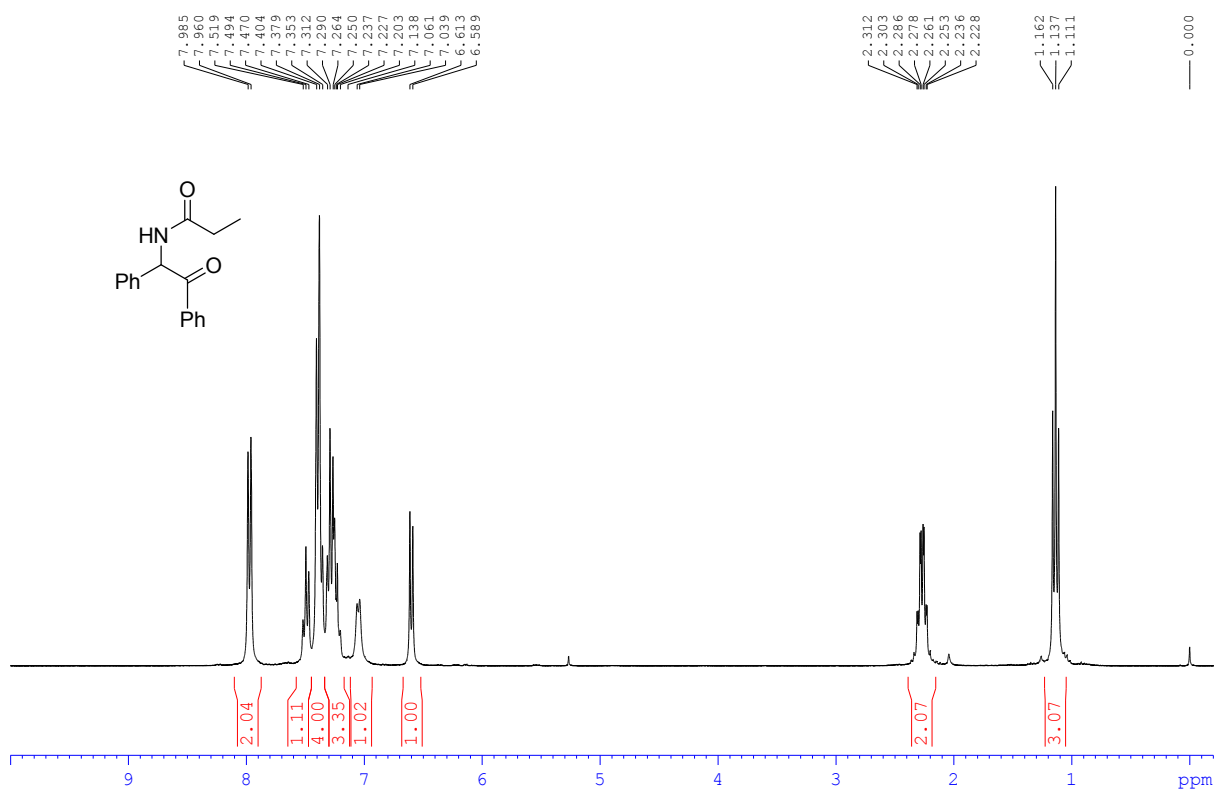
¹H and ¹³C NMR spectrum of **3v**



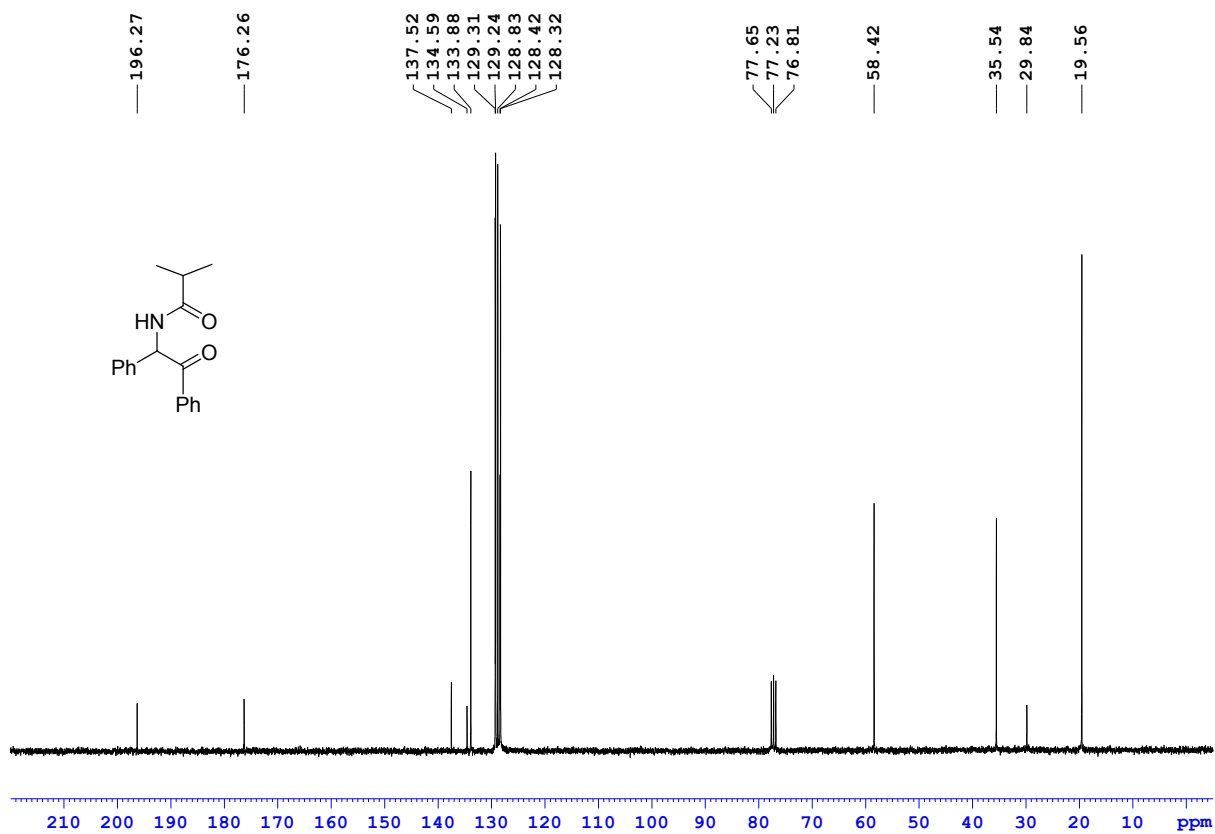
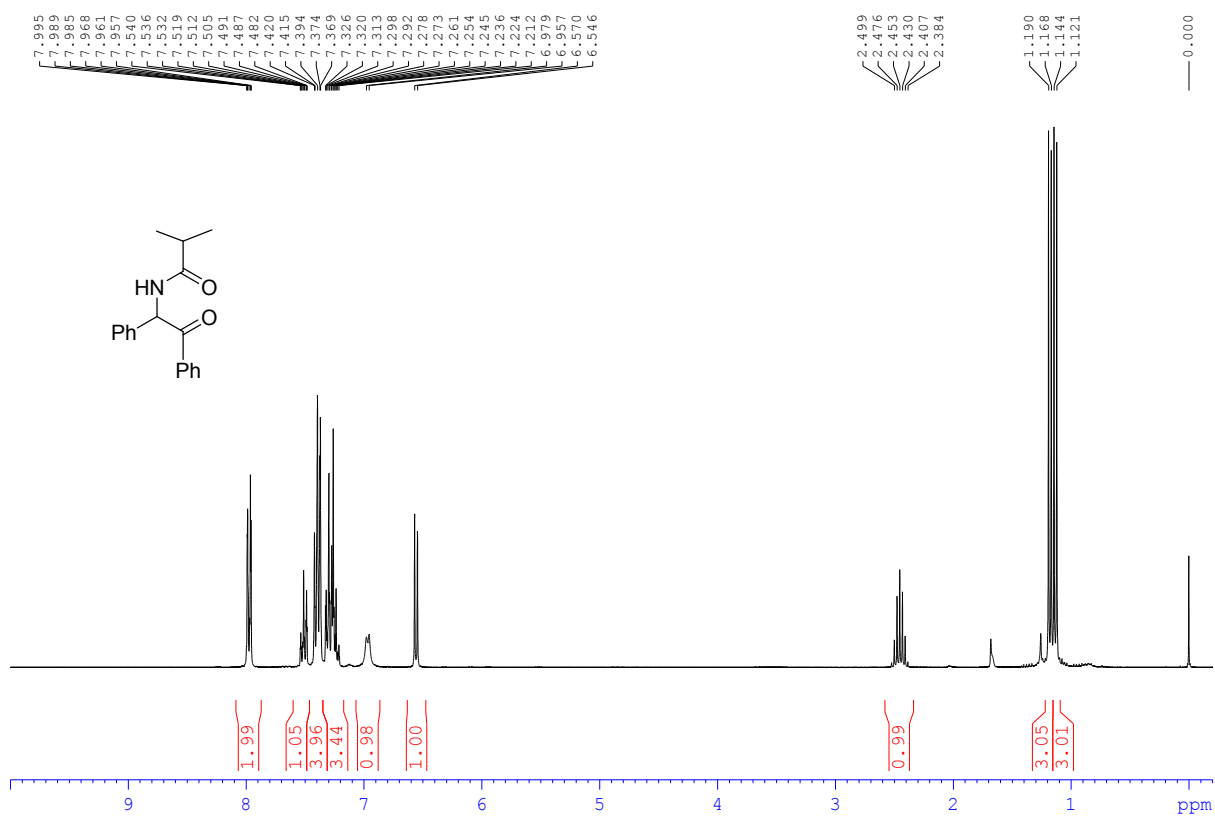
^1H and ^{13}C NMR spectrum of **3w**



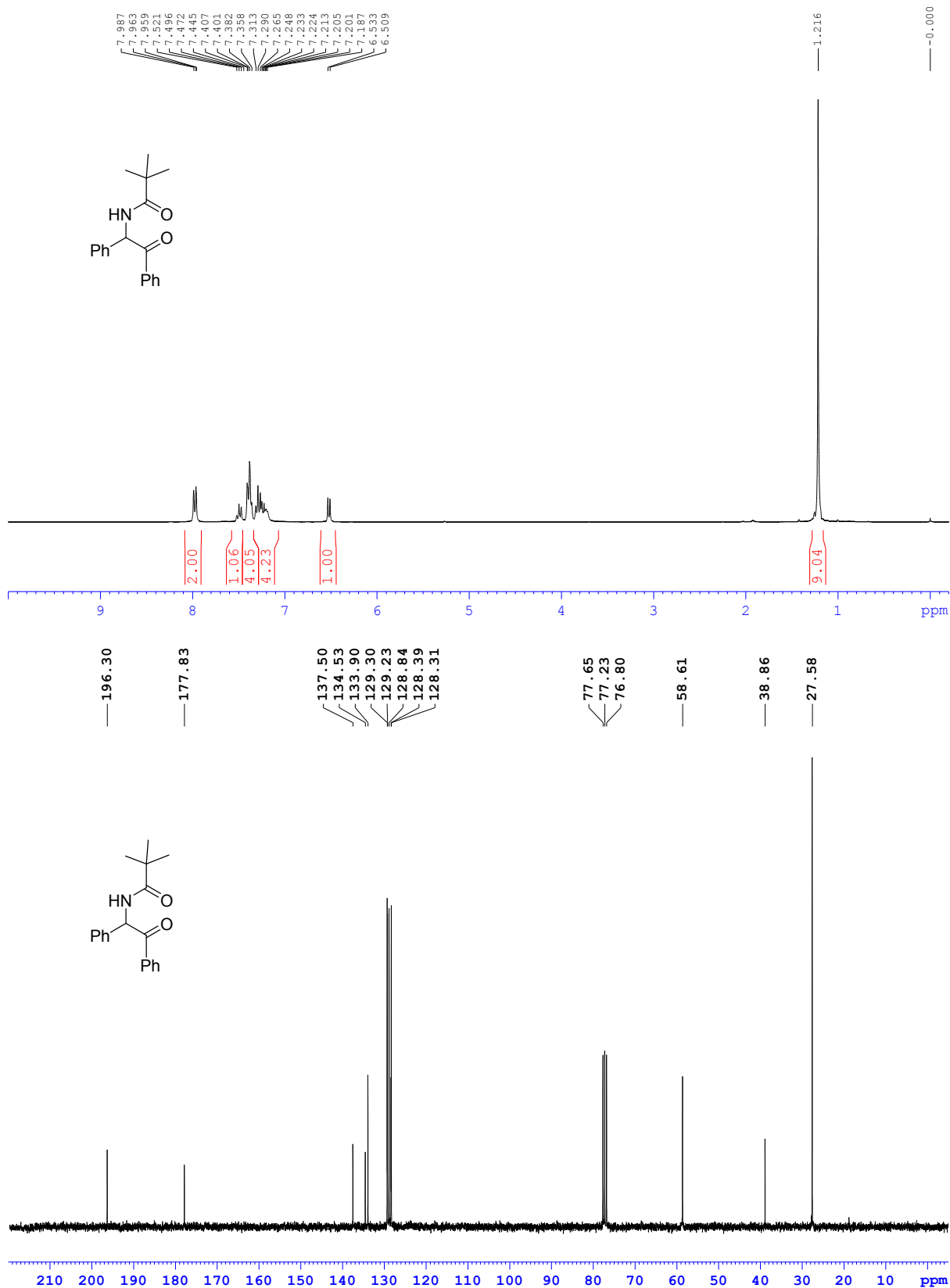
^1H and ^{13}C NMR spectrum of **5a**



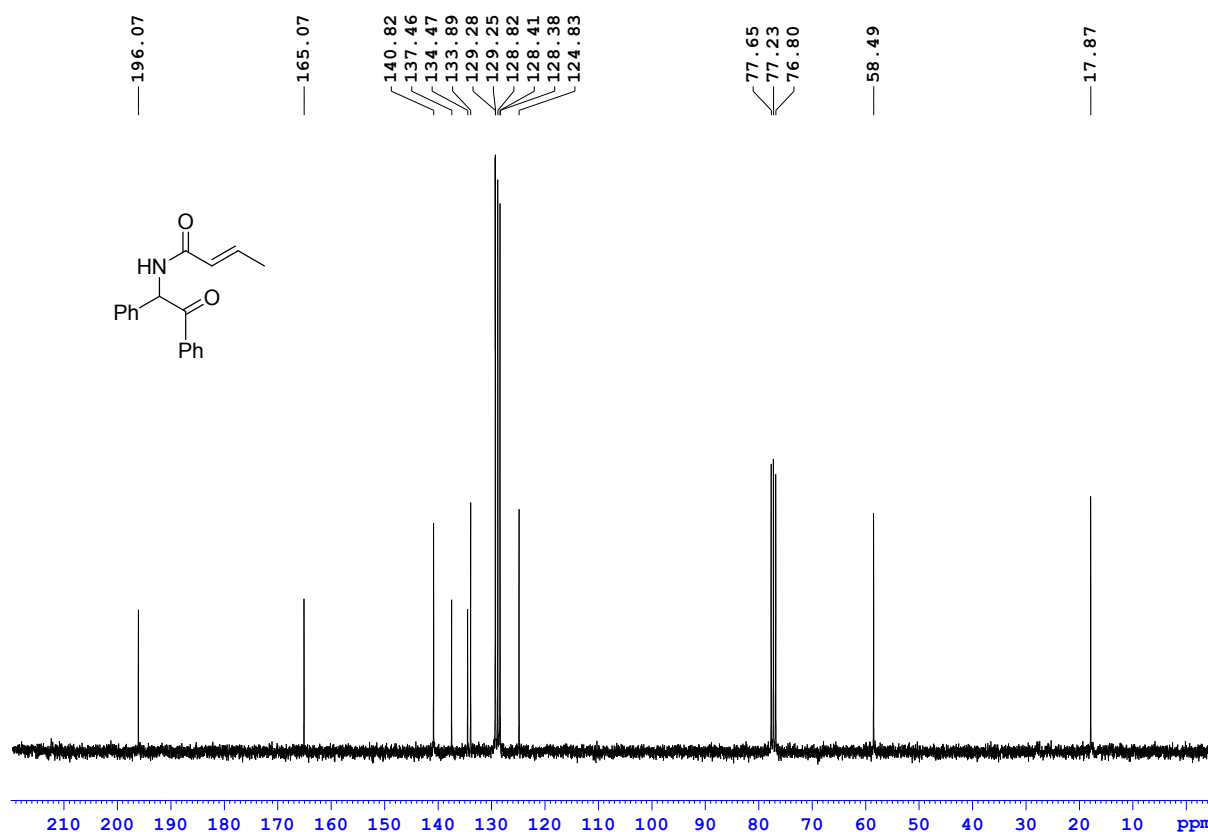
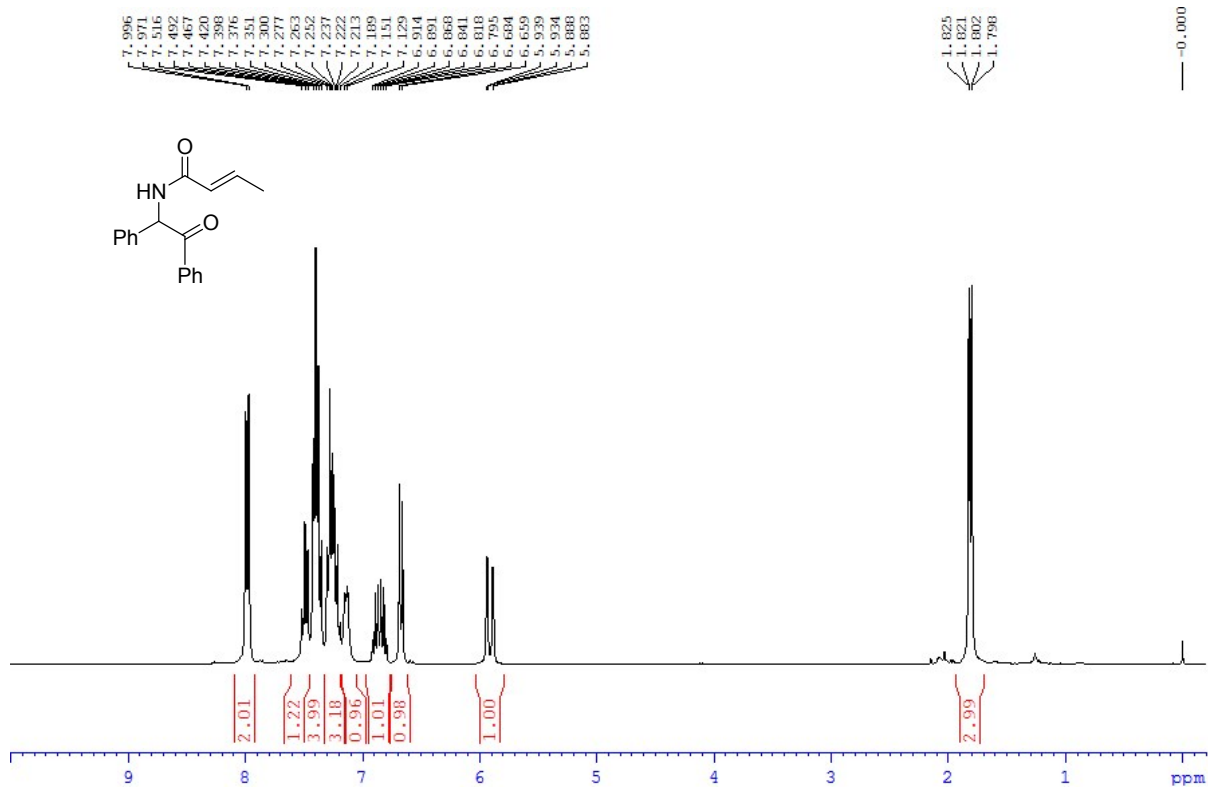
¹H and ¹³C NMR spectrum of **5b**



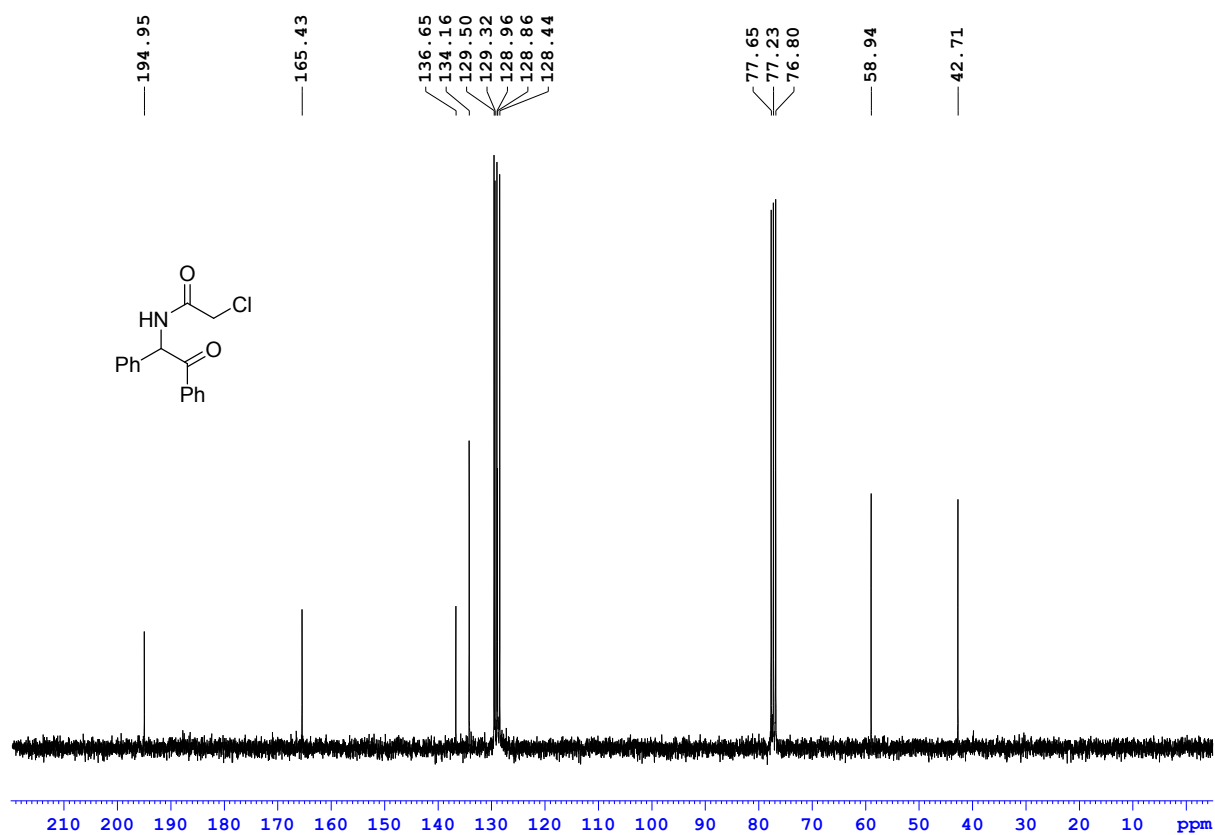
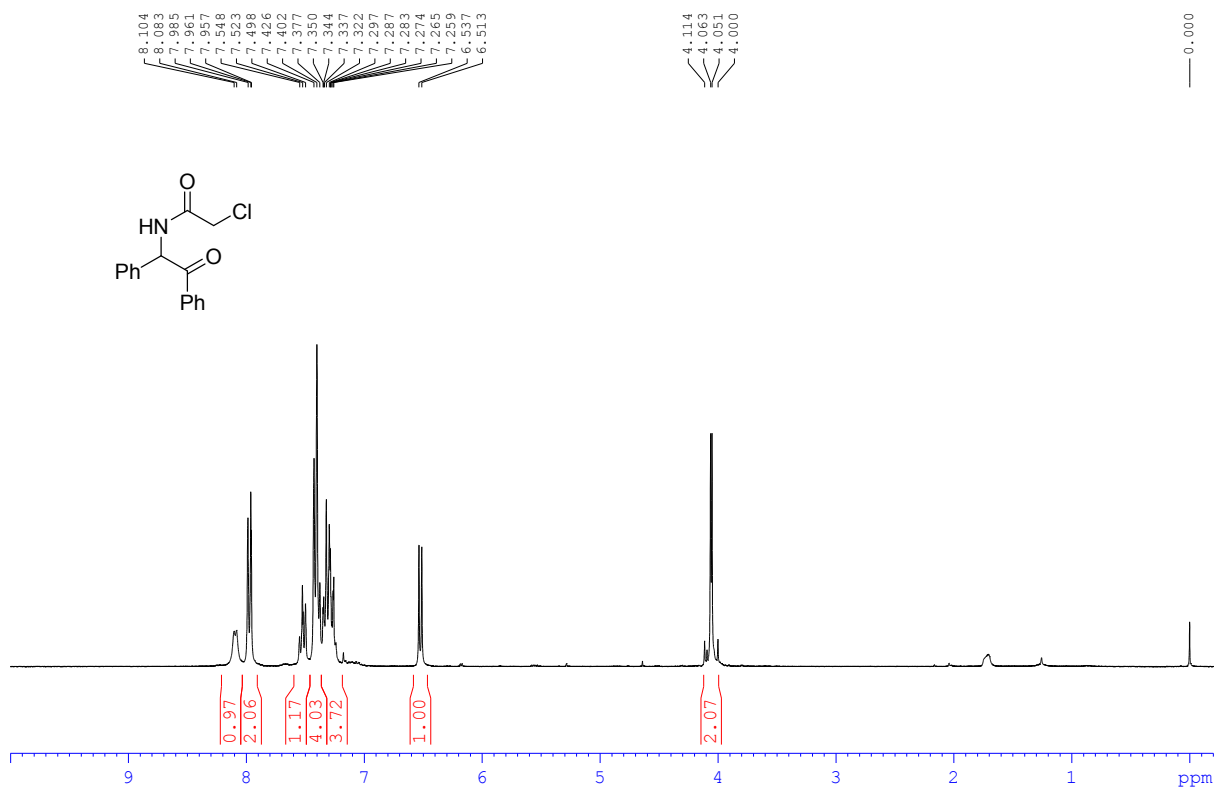
^1H and ^{13}C NMR spectrum of **5c**



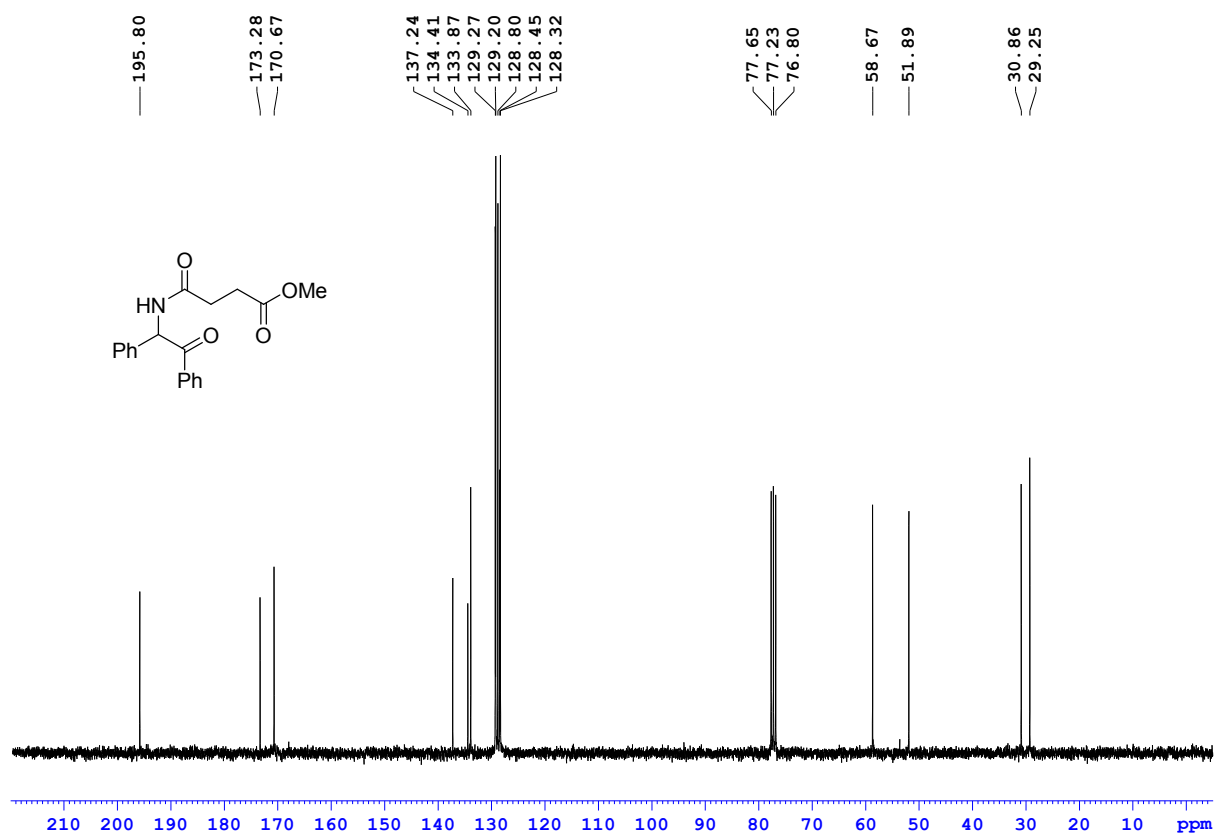
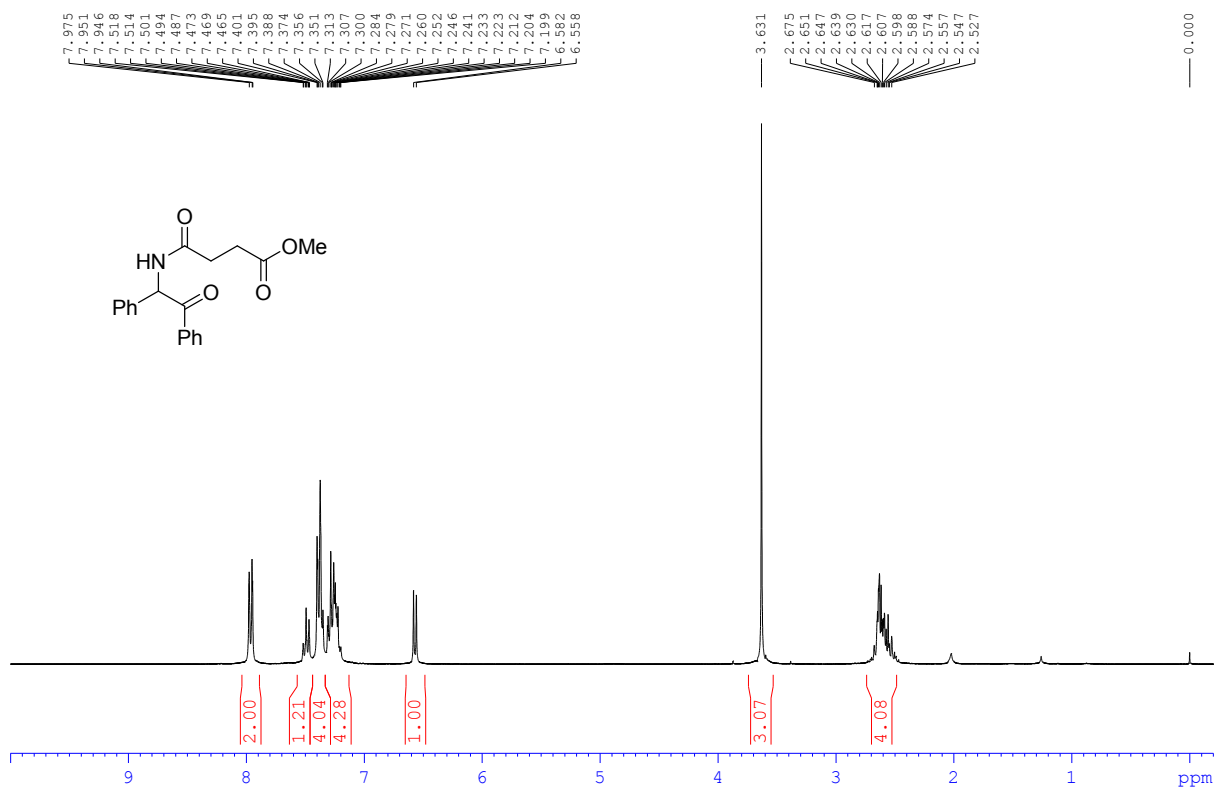
^1H and ^{13}C NMR spectrum of **5d**



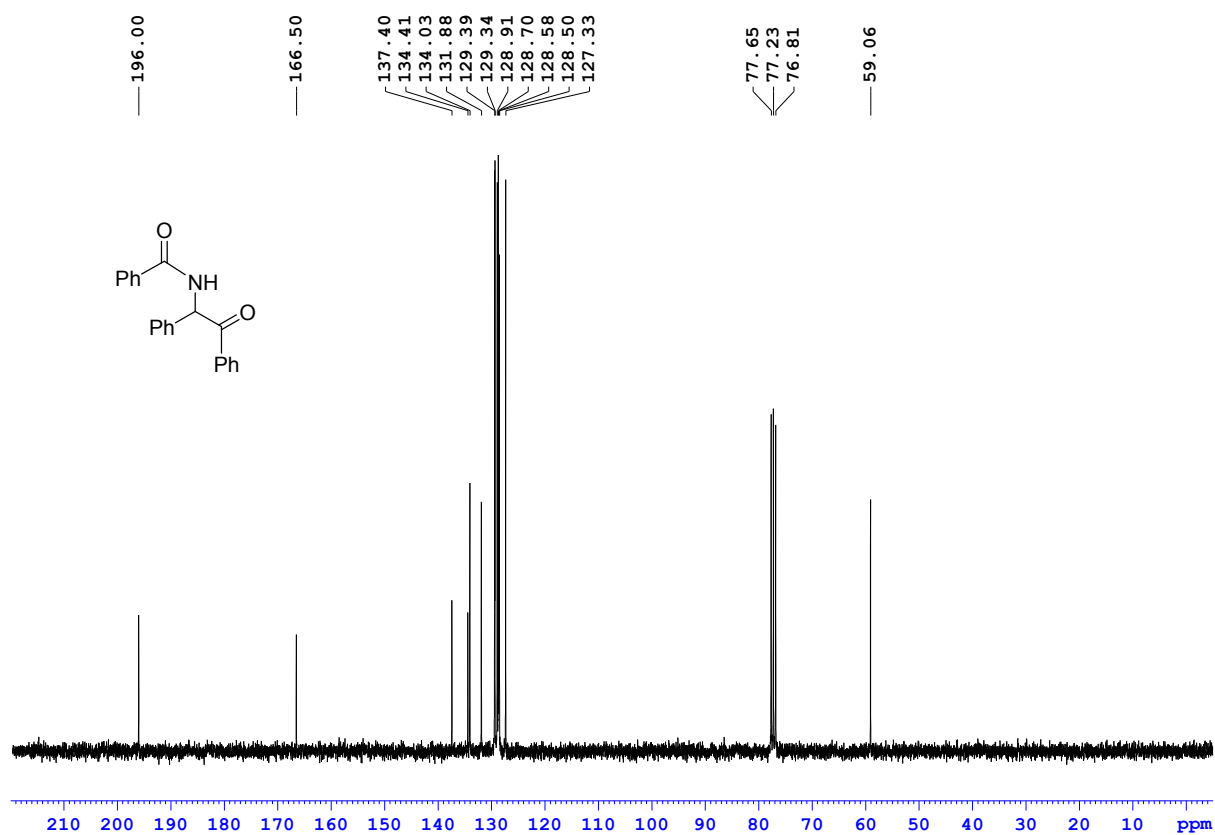
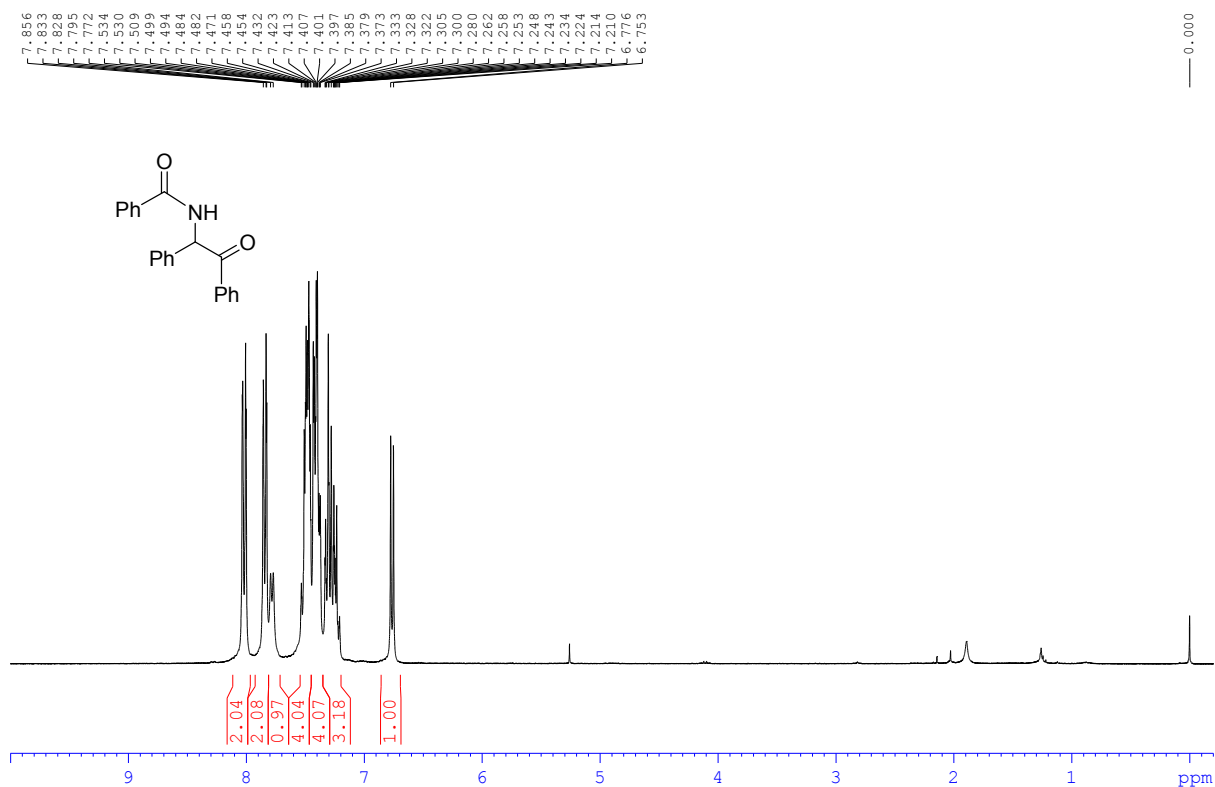
¹H and ¹³C NMR spectrum of **5e**



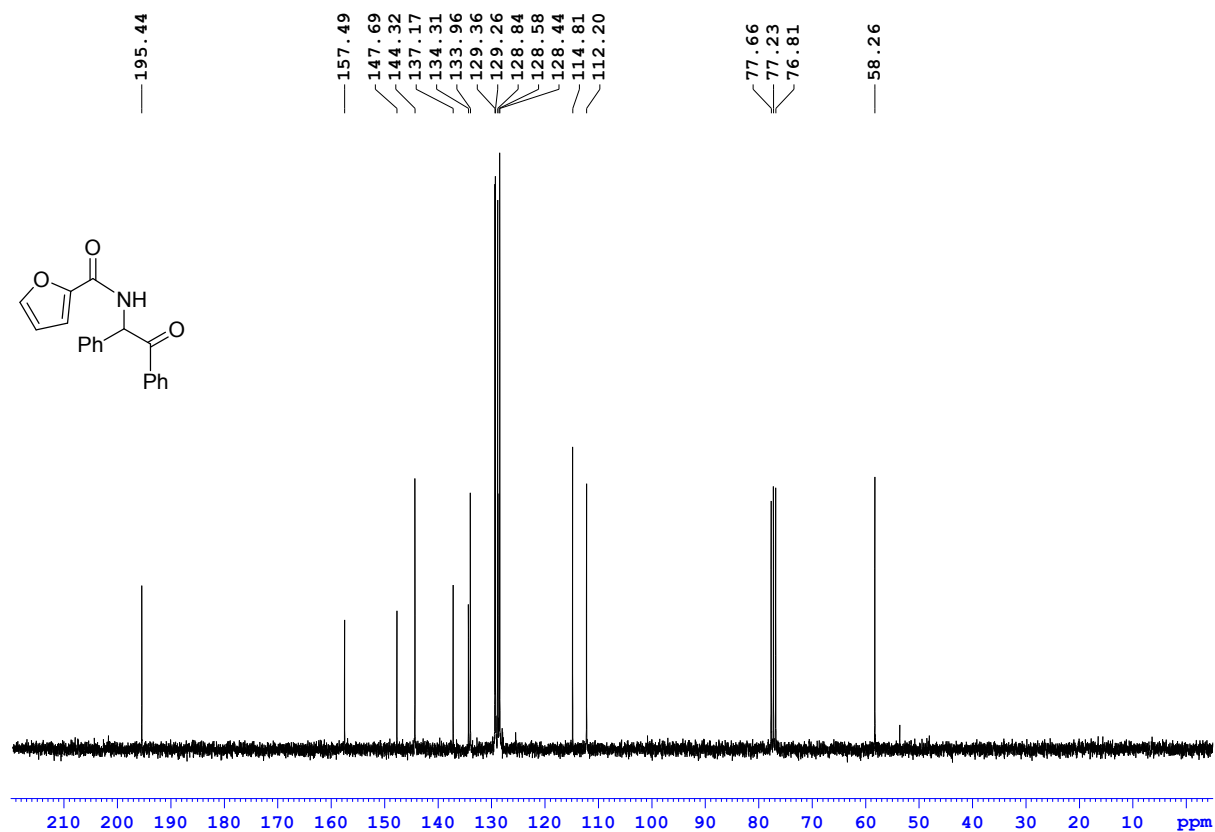
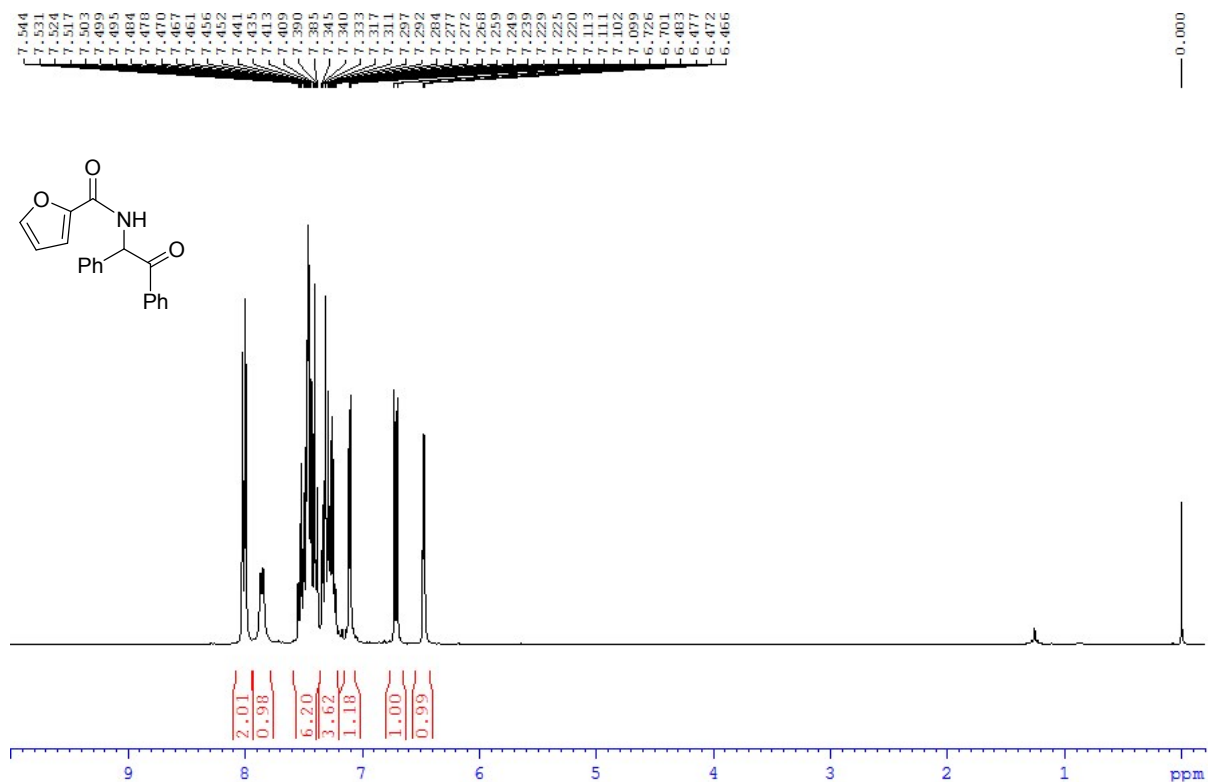
^1H and ^{13}C NMR spectrum of **5f**



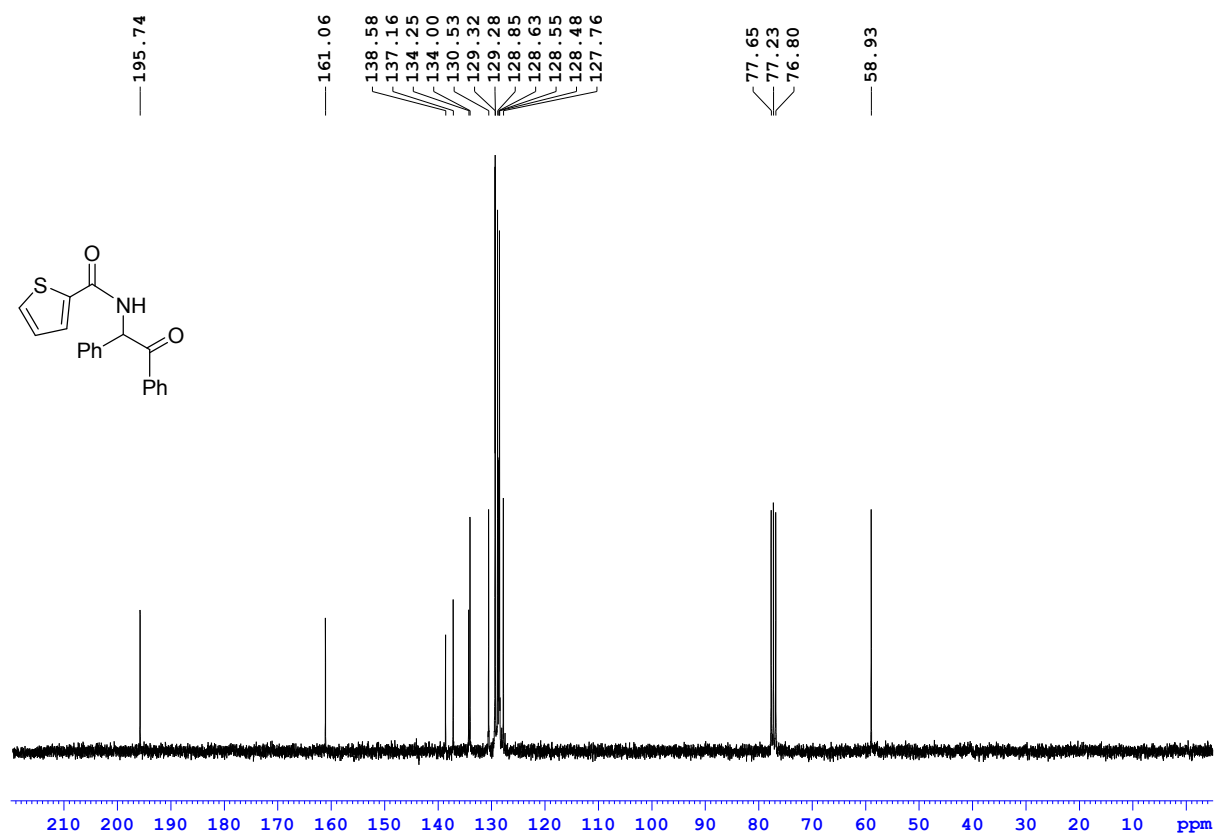
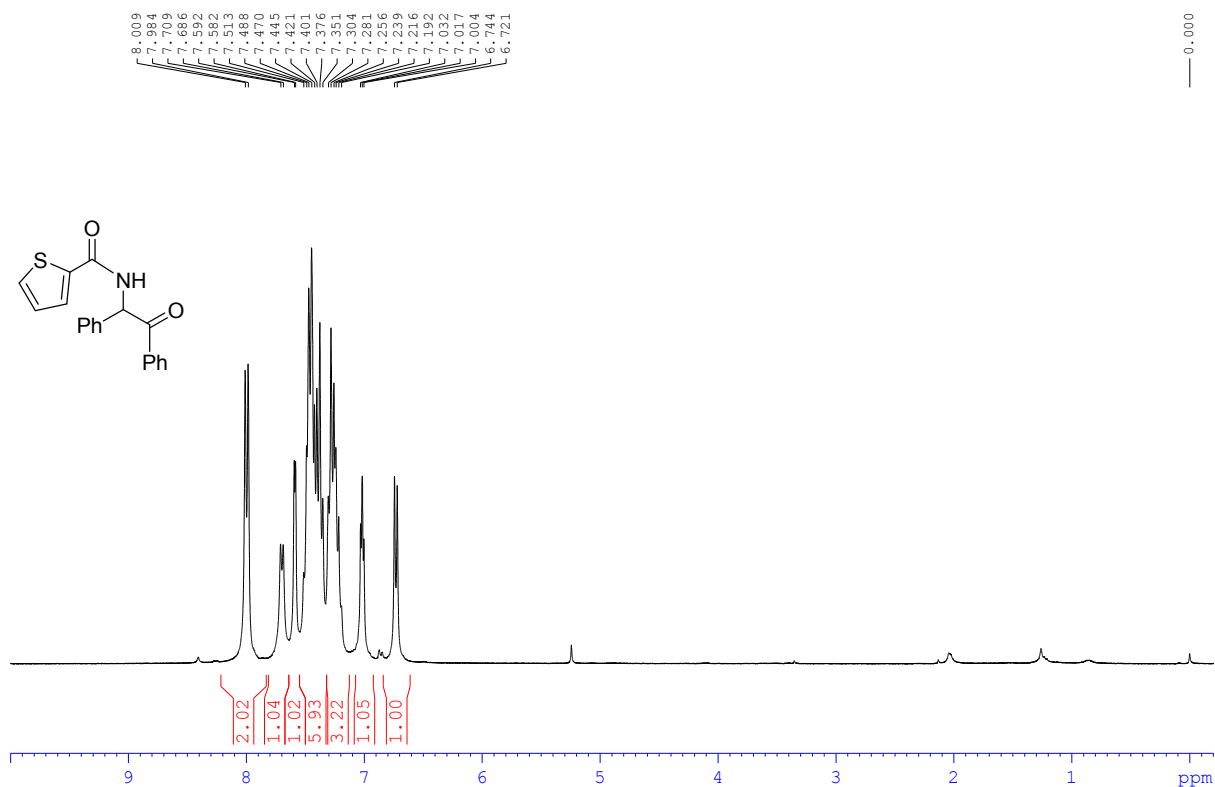
¹H and ¹³C NMR spectrum of **5g**



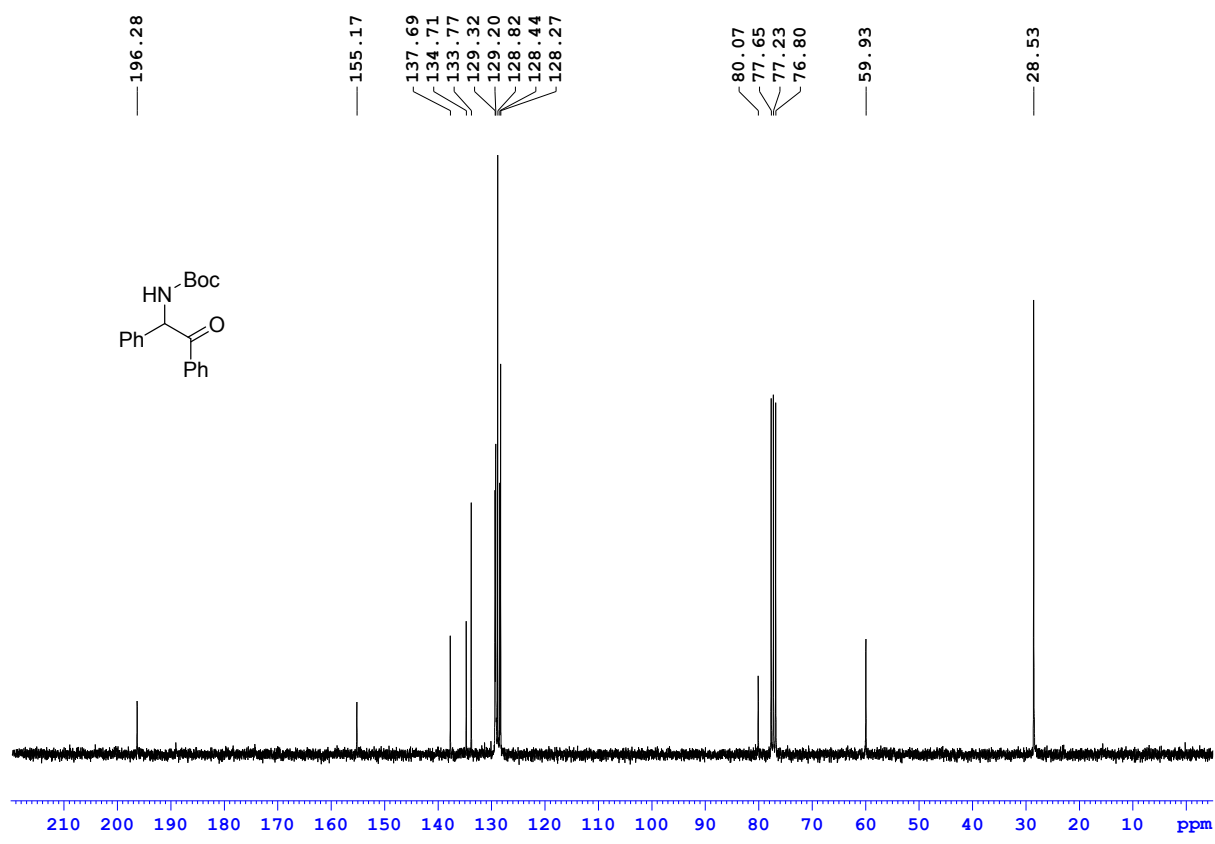
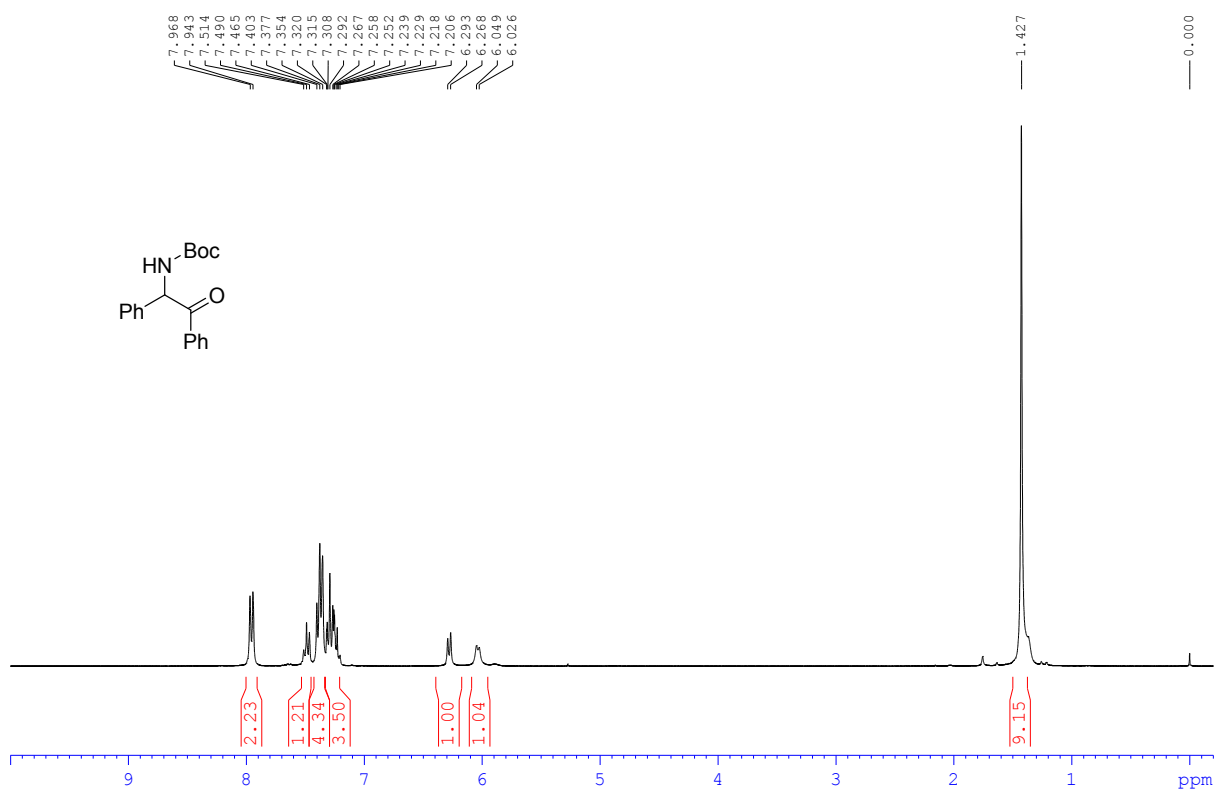
¹H and ¹³C NMR spectrum of **5h**



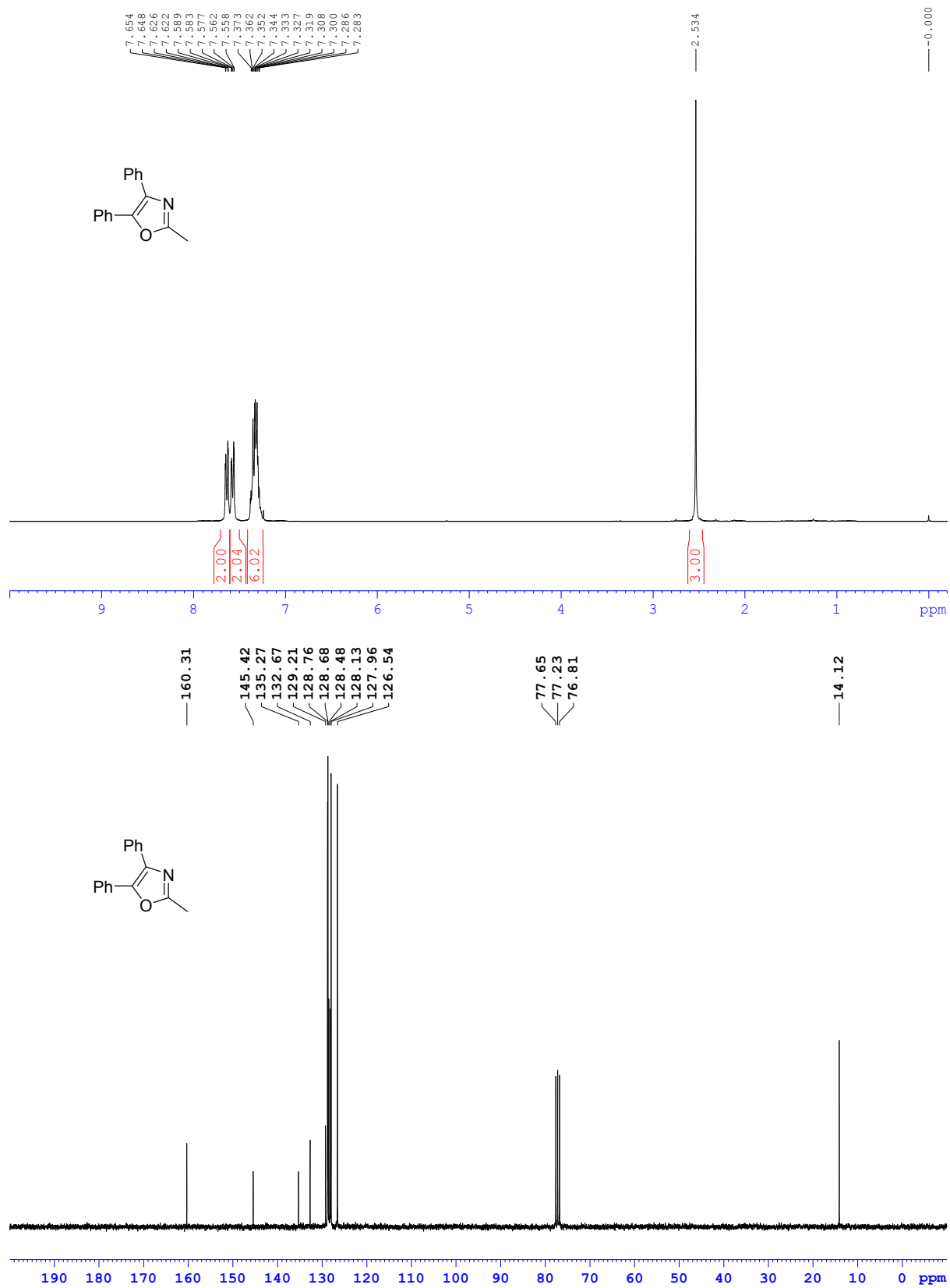
¹H and ¹³C NMR spectrum of **5i**



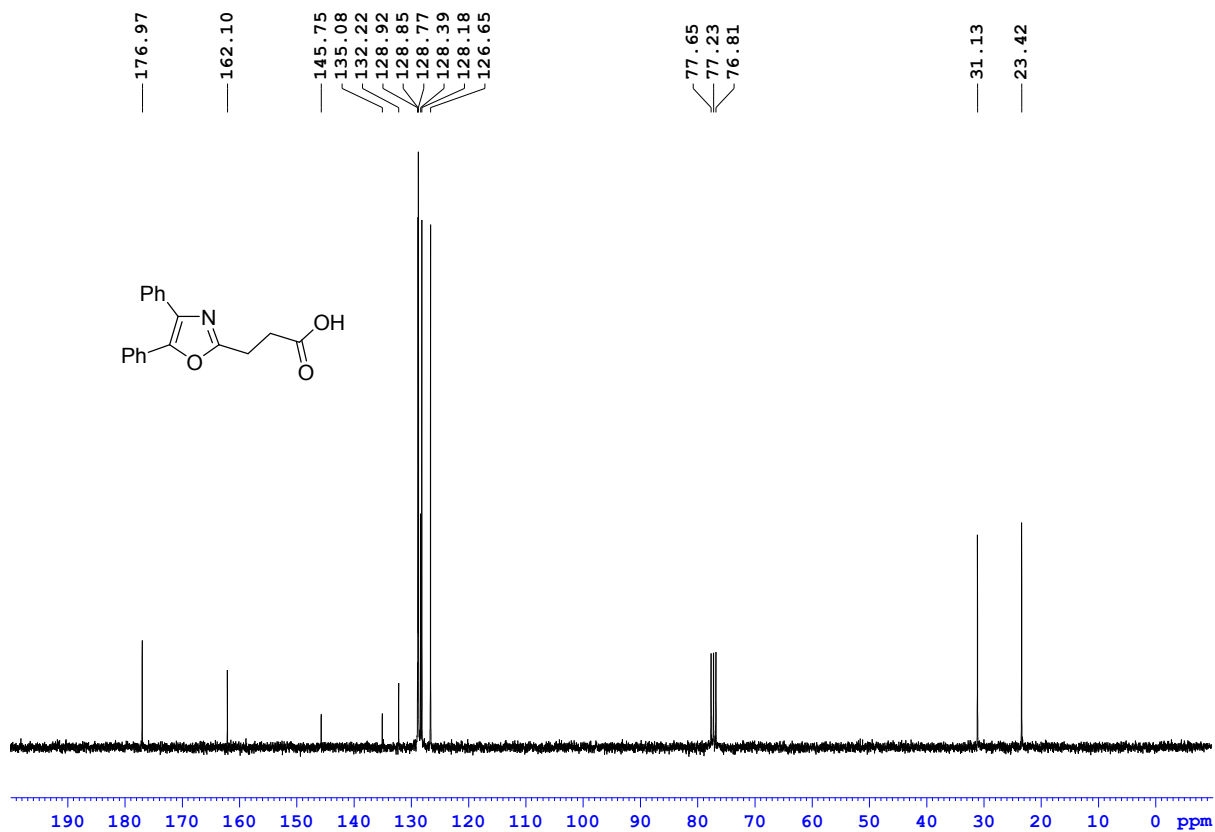
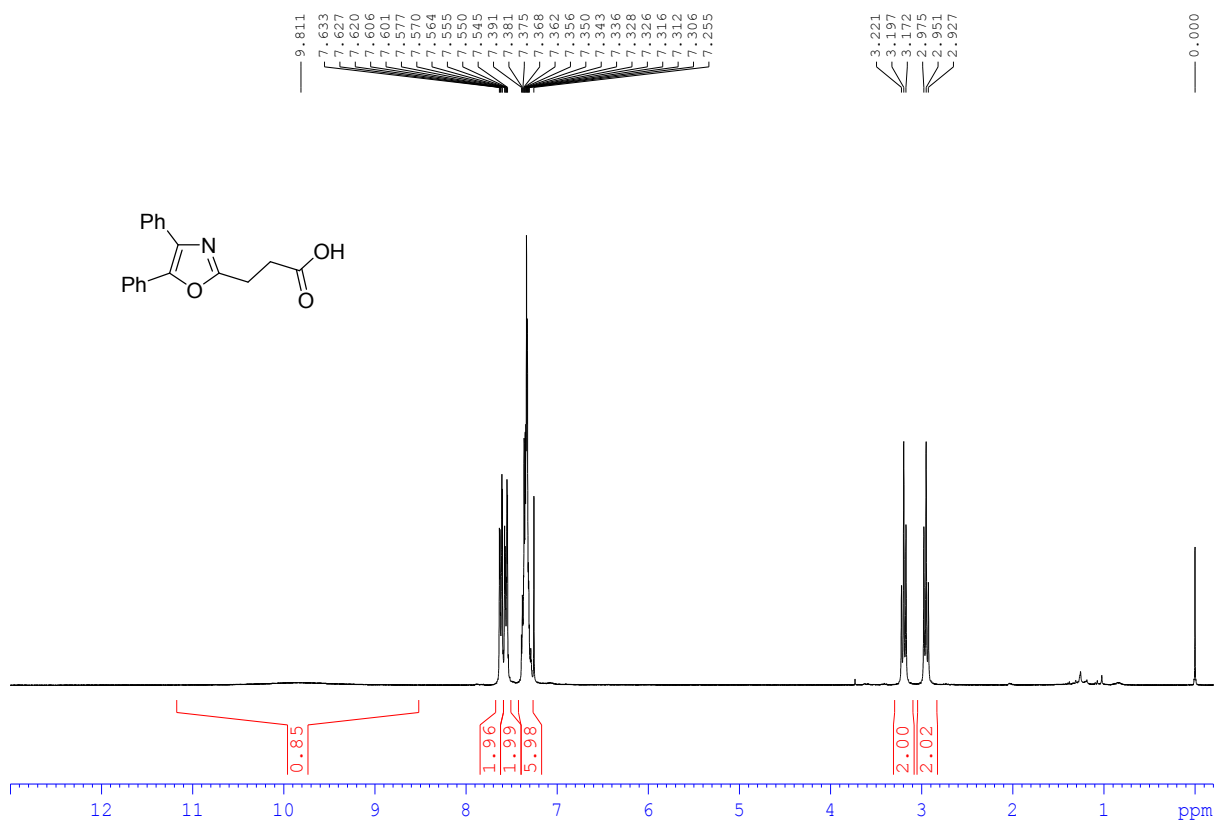
¹H and ¹³C NMR spectrum of **5j**



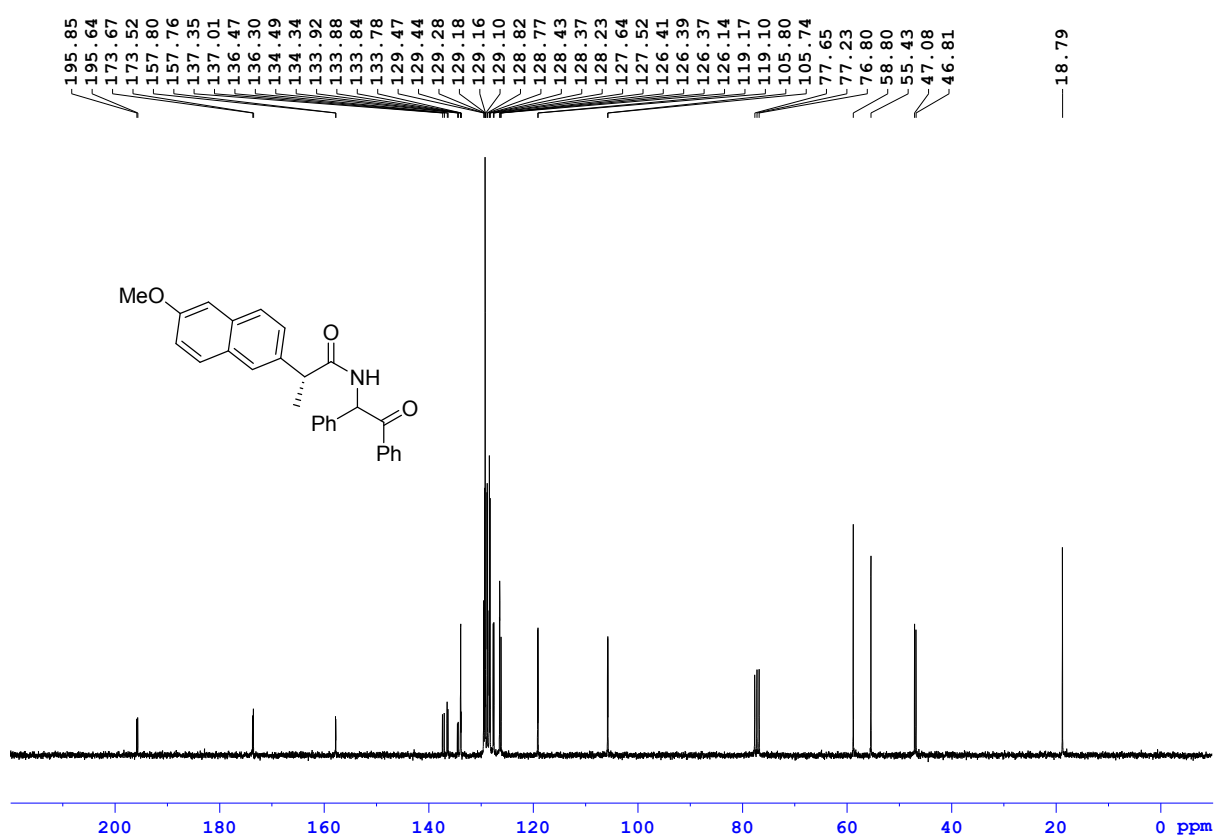
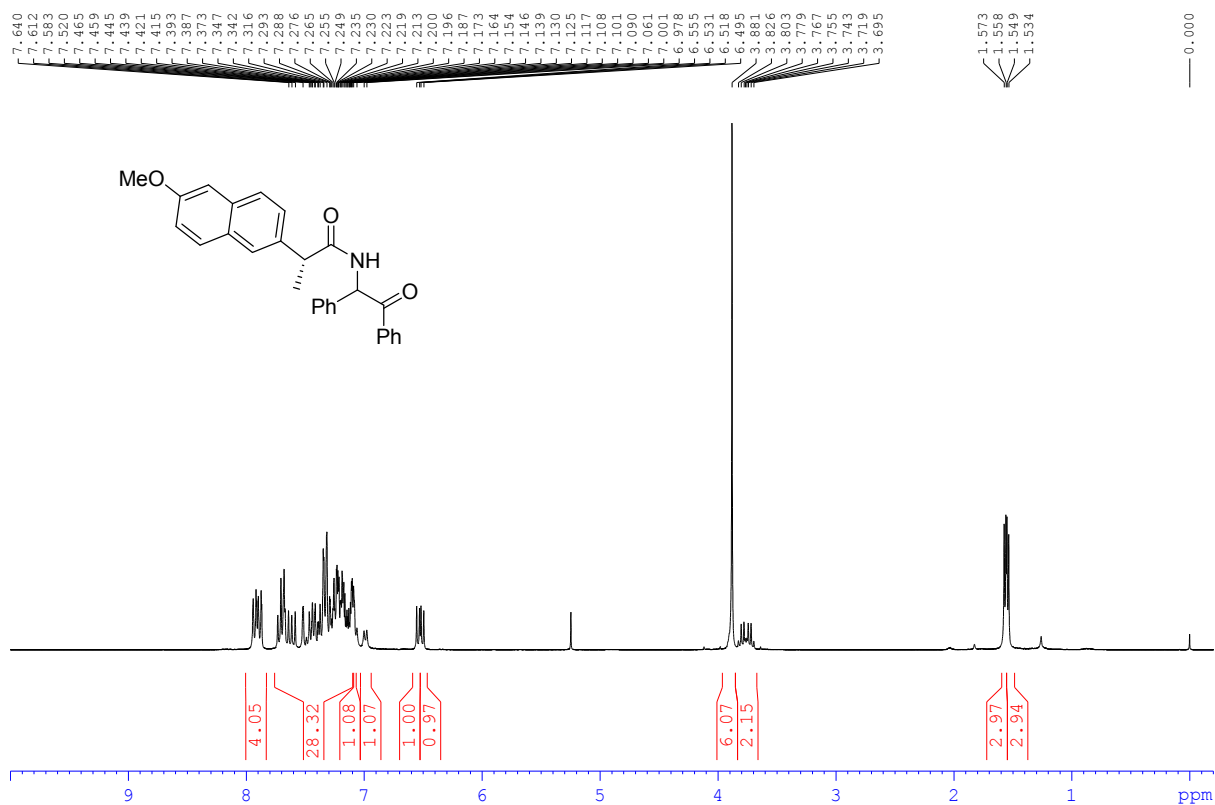
9-c. NMR spectrum of oxazoles and a thiazole
¹H and ¹³C NMR spectrum of 6a



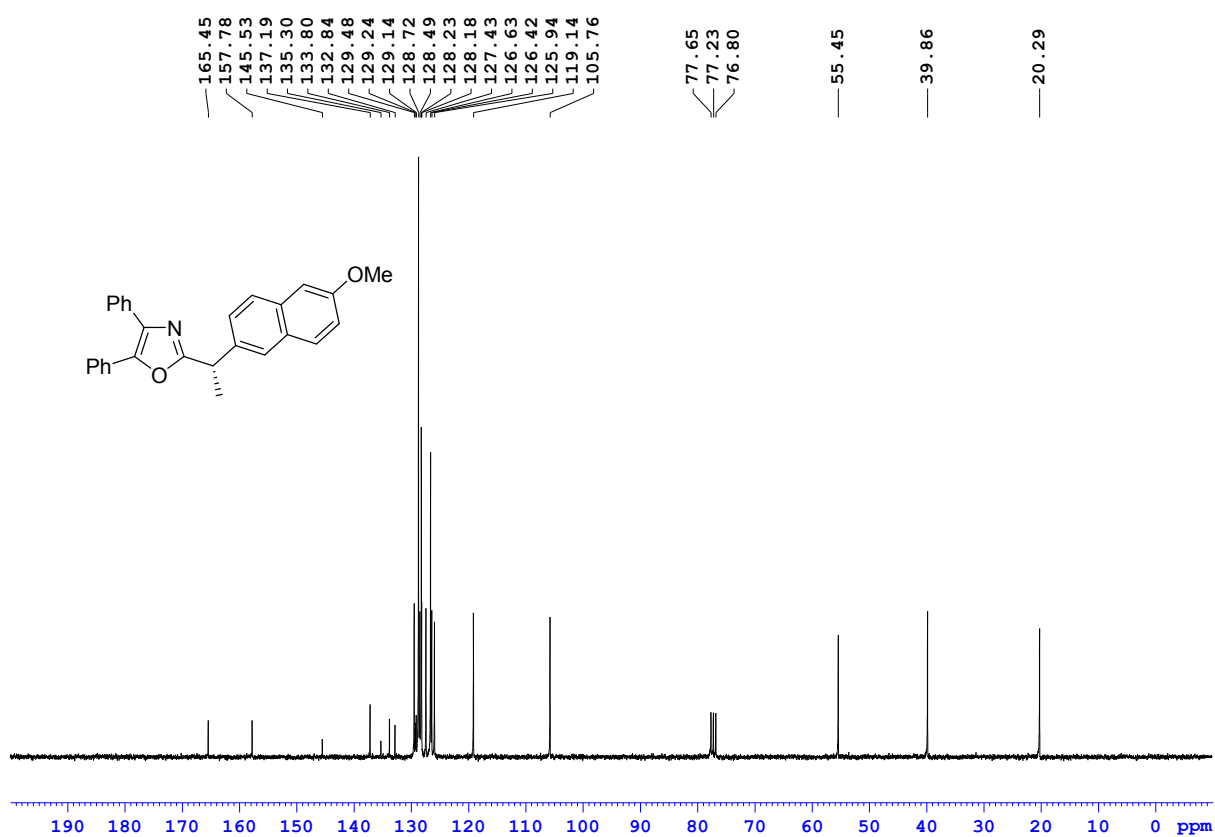
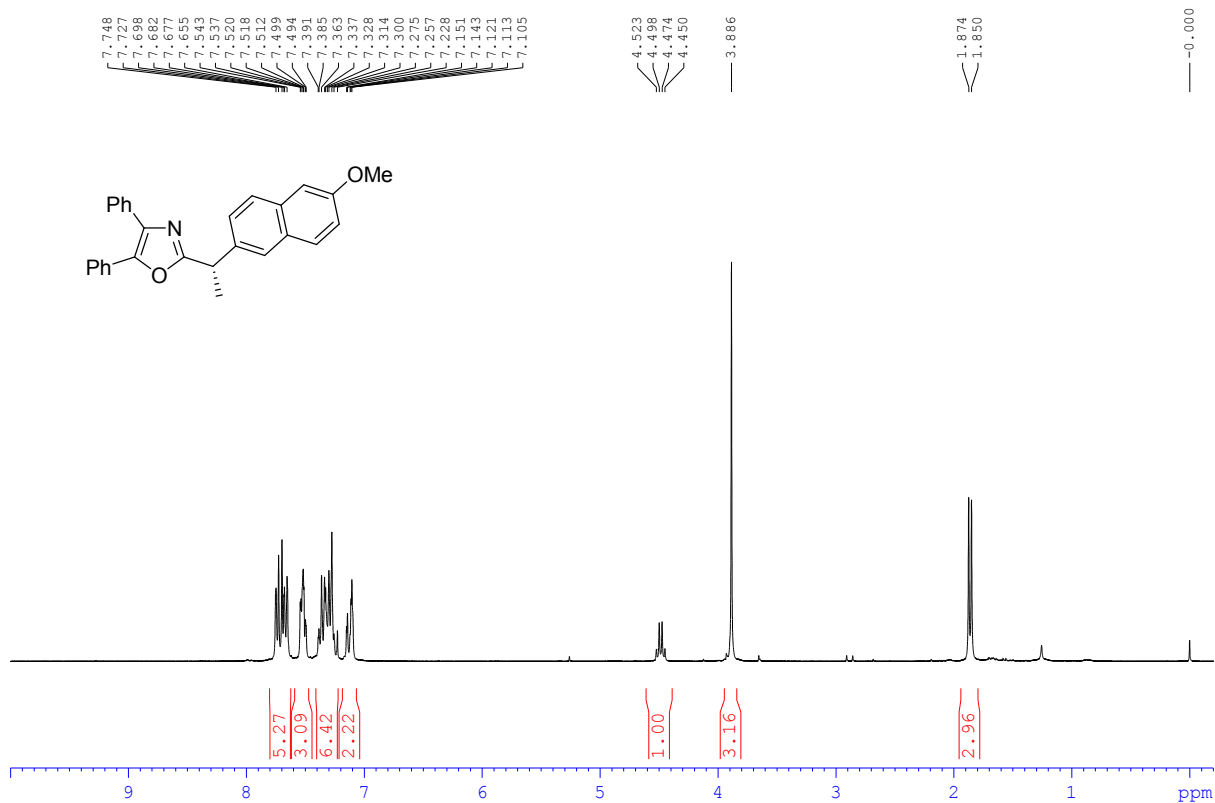
¹H and ¹³C NMR spectrum of **6b**



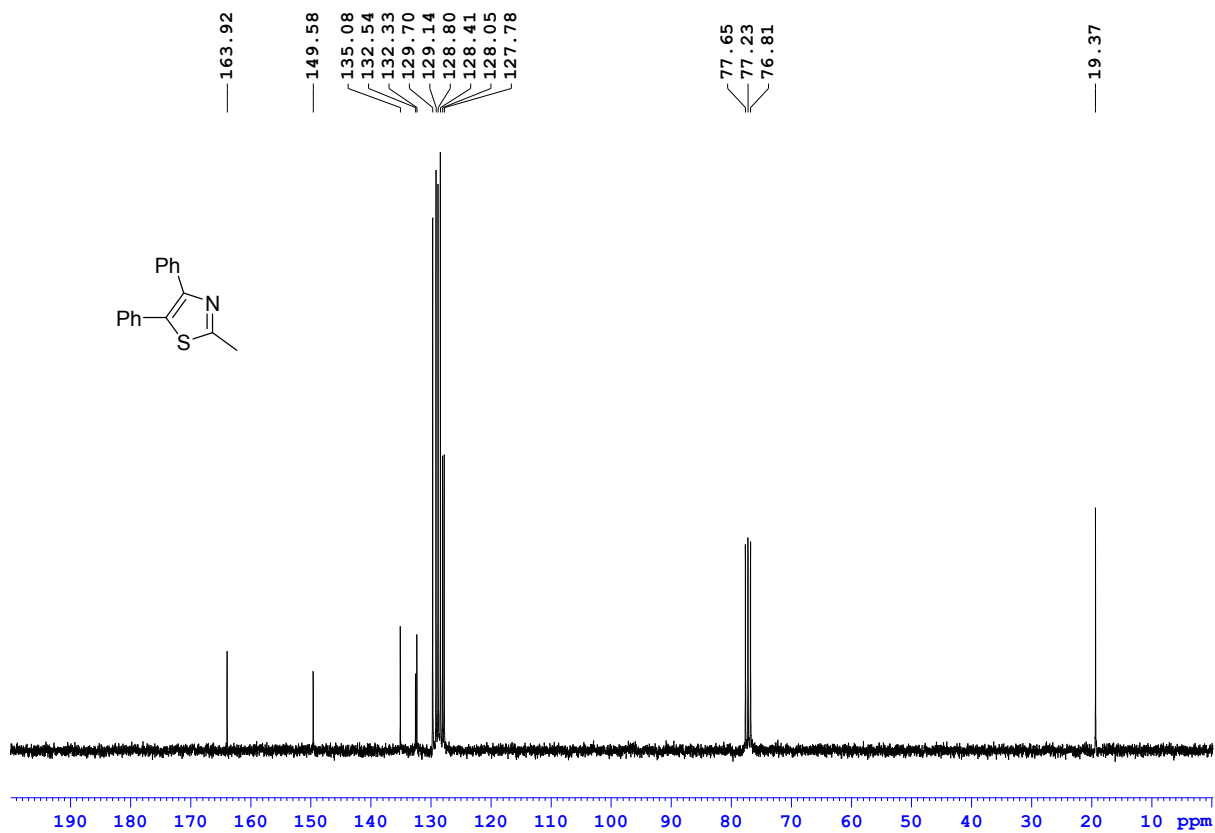
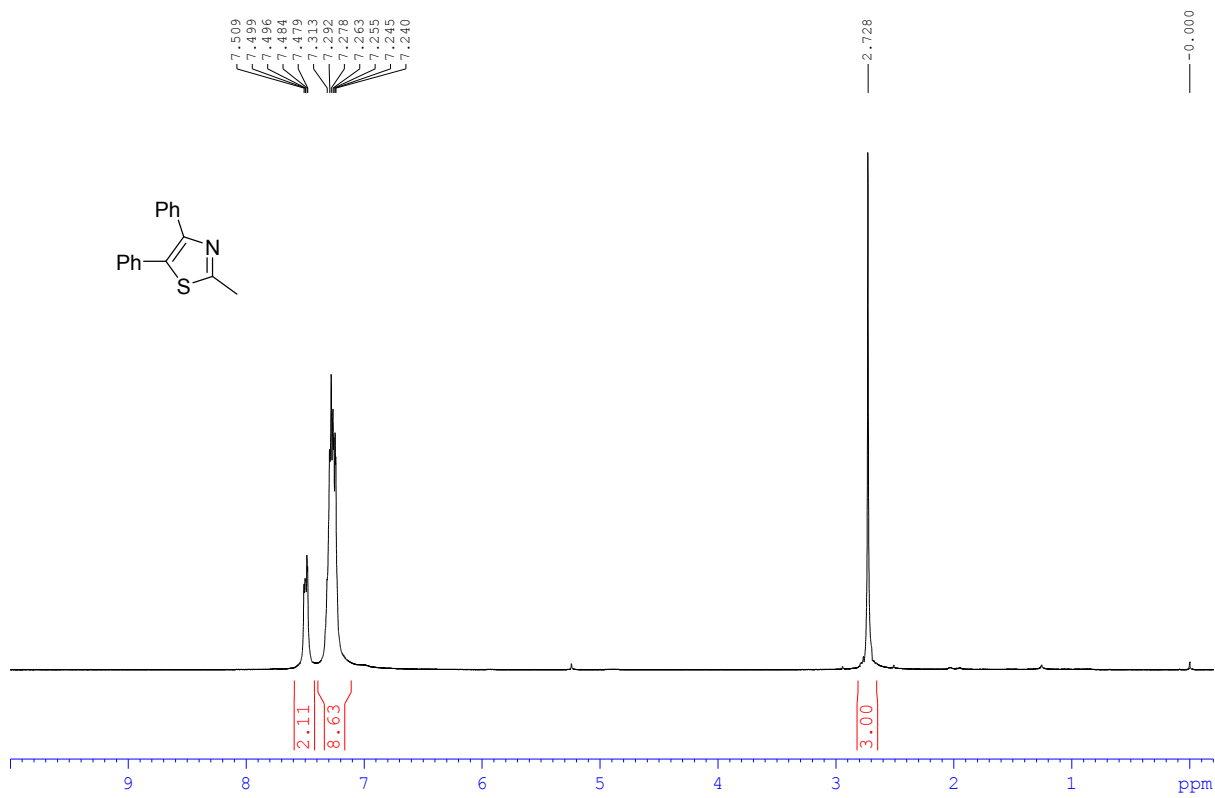
¹H and ¹³C NMR spectrum of **5k**



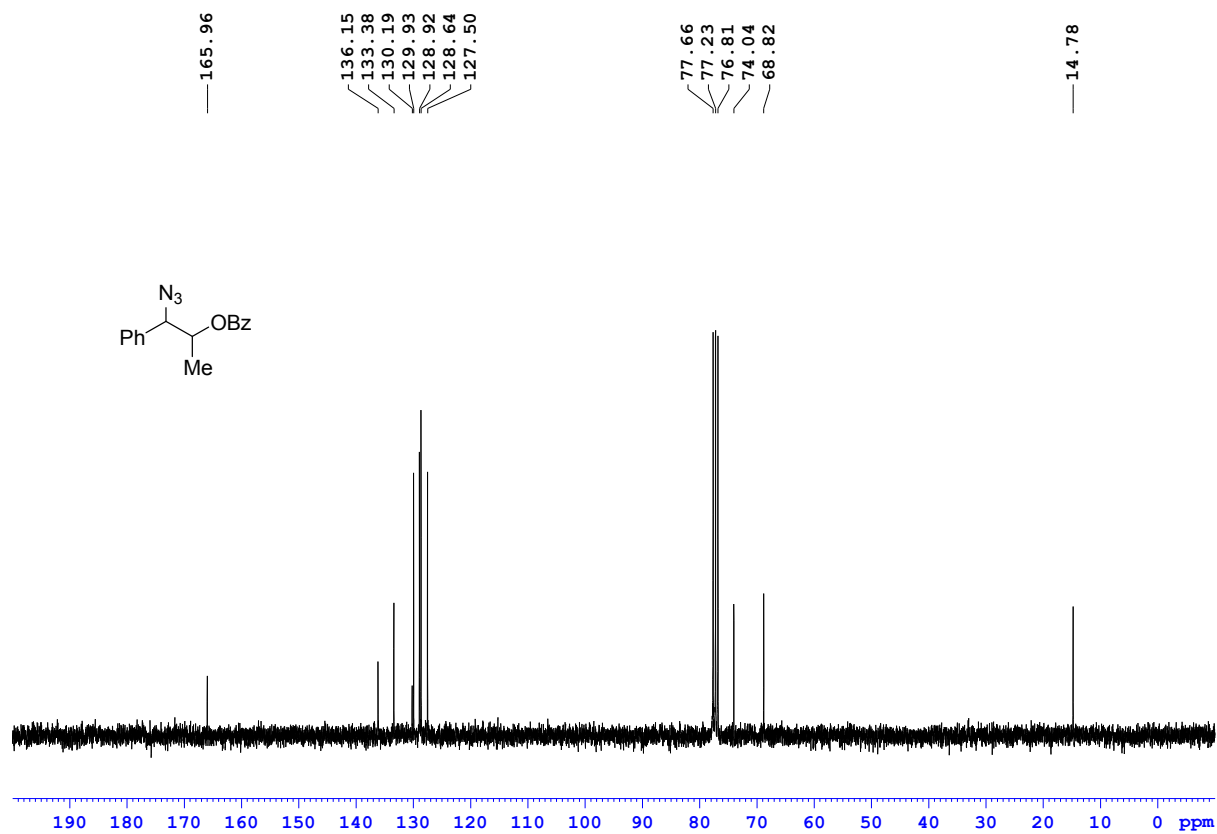
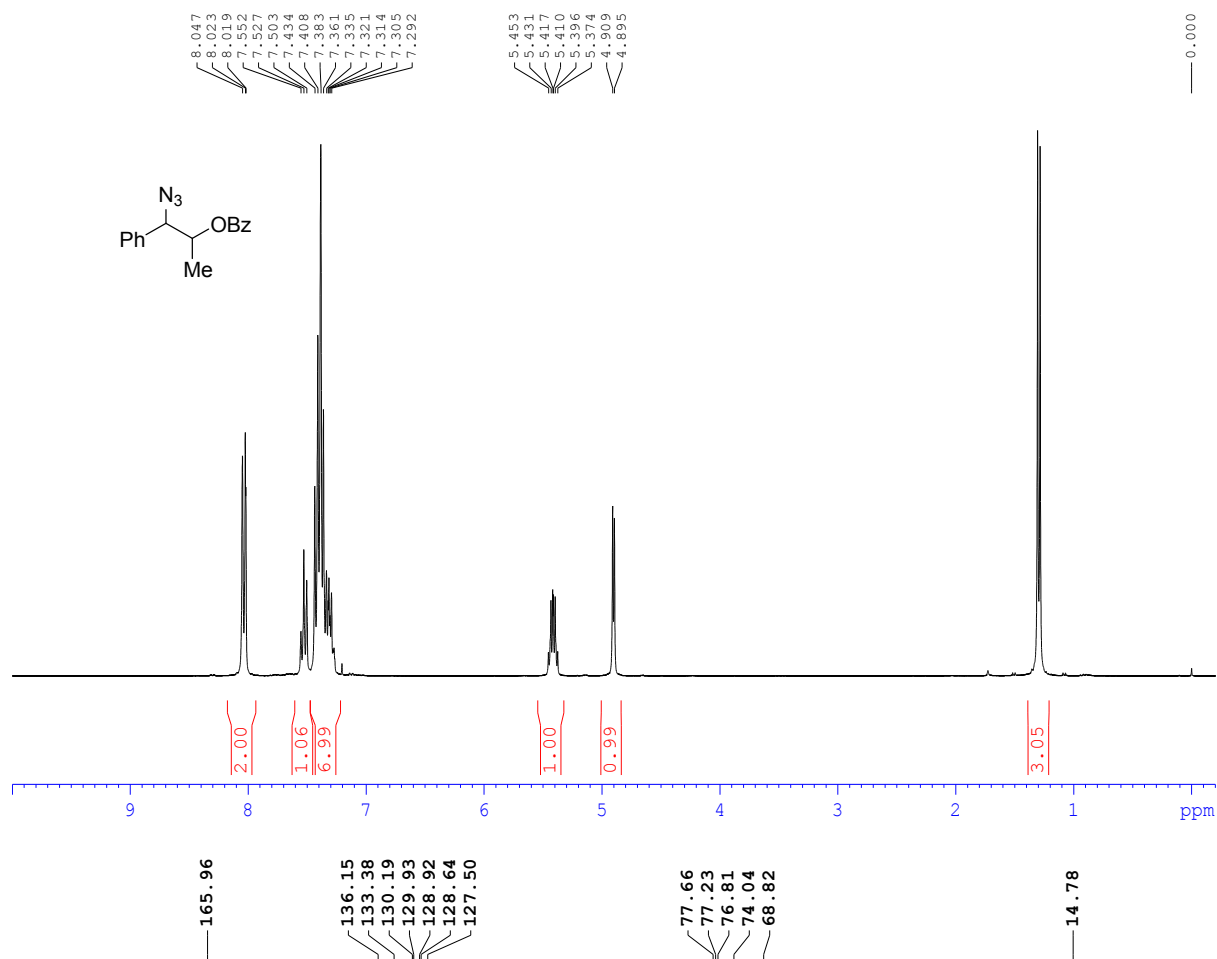
^1H and ^{13}C NMR spectrum of **6c**



¹H and ¹³C NMR spectrum of 7



9-d. NMR spectrum of 8 and 9
¹H and ¹³C NMR spectrum of 8



¹H and ¹³C NMR spectrum of **9**

