

Supporting Information for

**Pd/Cu-Catalyzed Tandem Head-to-Tail Dimerization/
Cycloisomerization of Terminal Ynamides for the synthesis of 5-
Vinyloxazolones**

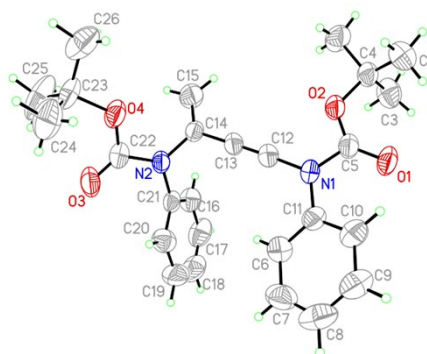
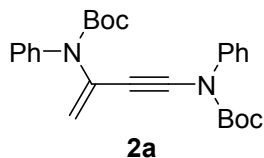
Luning Tang,^{†,a} Hai Huang,^{†,a} Yang Xi,^a and Hongjun Zhu^{*,a}

^a *Department of Applied Chemistry, College of Chemistry and Molecular Engineering, Nanjing
Tech University, Nanjing 211816, People's Republic of China*

[†] *These authors contributed equally to this work*

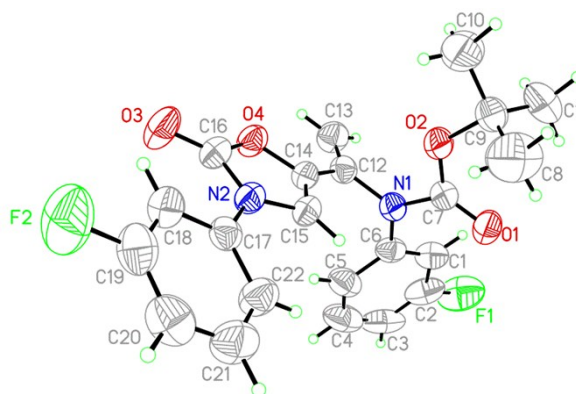
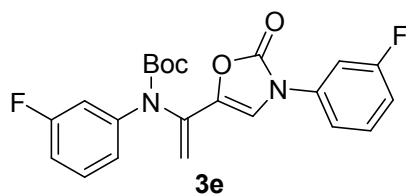
X-ray single crystal data of 2a and 3e	S2
NMR Spectra.....	S4

X-ray Single Crystal Data of 2a



Crystal data for **2a**: C₂₆H₃₀N₂O₄; M = 434.52; Triclinic; space group *P*-1; final R indices [*I* > 2σ(*I*)]: R₁=0.0995, wR₂=0.2767, R indices(all data): R₁=0.1161, wR₂=0.2702, *a* = 10.797(13), *b* = 11.711(15), *c* = 12.514(15) Å, α = 113.344 (17), β = 96.823(19), γ = 113.413(19)°; *V* = 1259(3) Å³; *T* = 296K; *Z* = 2; reflection measured/independent: 6603/4351 (*R*_{int} = 0.031), number of observations [*I* > 2σ(*I*)]: 3229, parameters: 295. CCDC-1486452 contains the supplementary crystallographic data for this paper. These data can be obtained free of charge from The Cambridge Crystallographic Data Centre via www.ccdc.cam.ac.uk/data_request/cif.

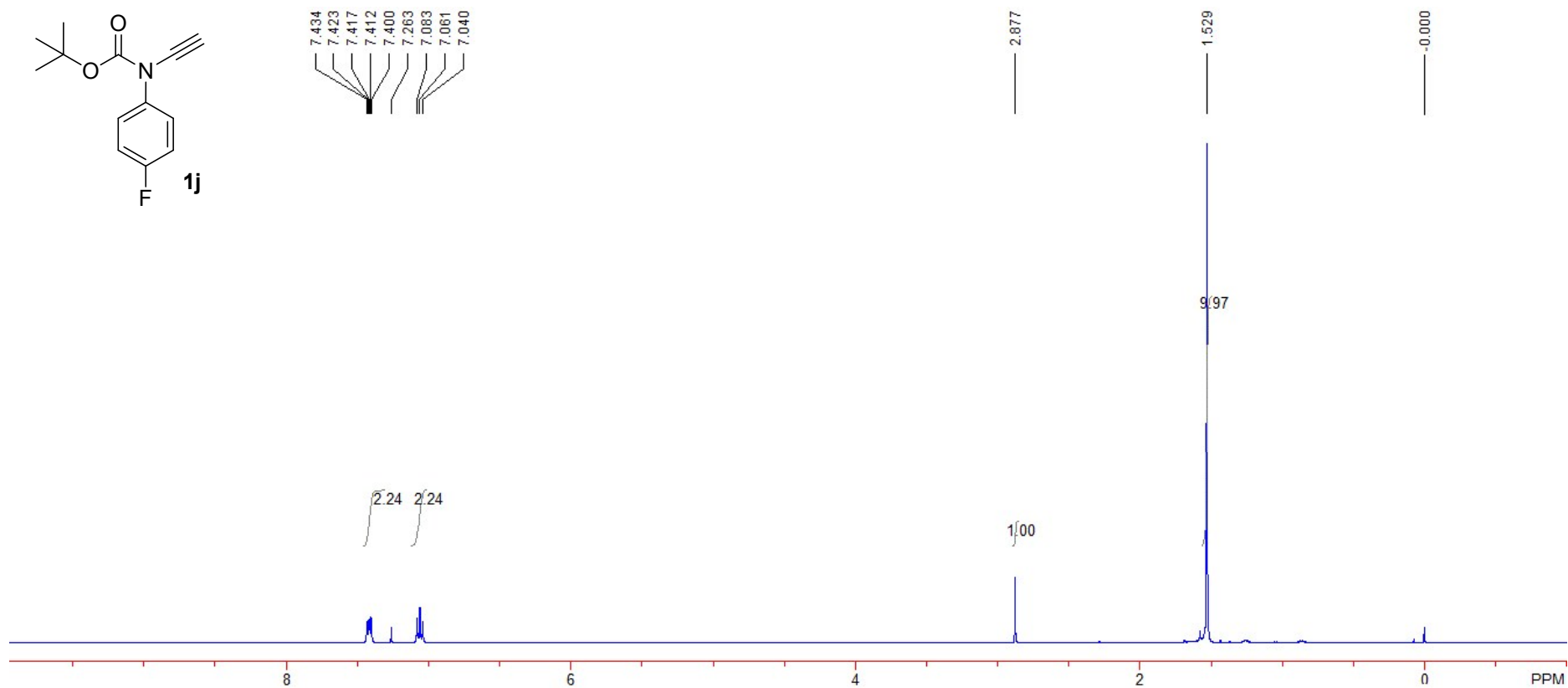
X-ray Single Crystal Data of 3e

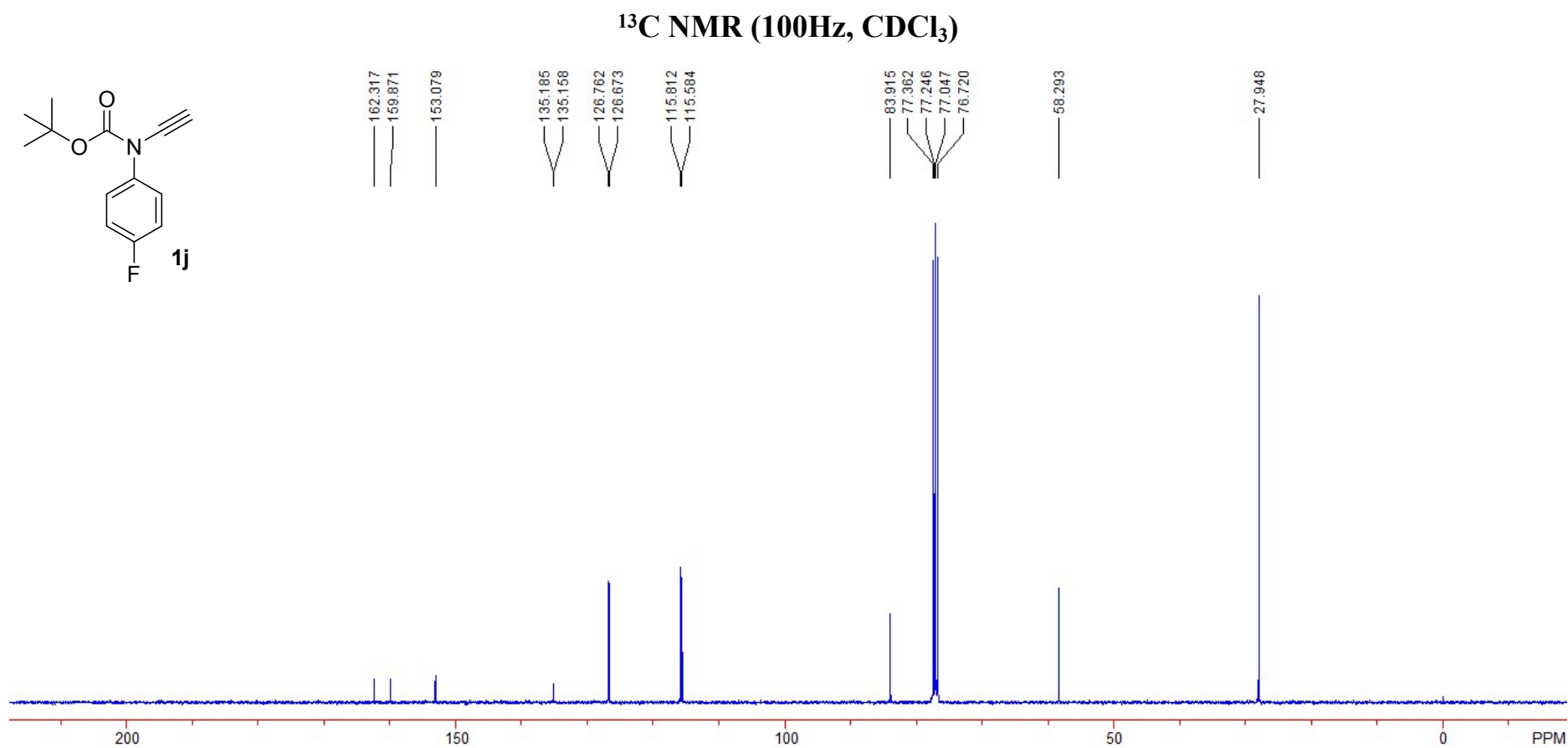


Crystal data for **3e**: C₂₂H₂₀F₂N₂O₄; M = 414.40; Triclinic; space group *P*-1; final R indices [*I* > 2σ(*I*)]: R₁=0.0473, wR₂=0.1263, R indices(all data): R₁=0.0611, wR₂=0.1178, *a* = 9.3577(8), *b* = 11.4090(9), *c* = 11.7512(15) Å, α = 63.086(2), β = 75.619(2), γ = 69.263(2)°; *V* = 1040.37(14) Å³; *T* = 296K; *Z* = 2; reflection measured/independent: 7429/3630 (*R*_{int} = 0.030), number of observations [*I* > 2σ(*I*)]: 2870, parameters: 275. CCDC-1486451 contains the supplementary crystallographic data for this paper. These data can be obtained free of charge from The Cambridge Crystallographic Data Centre via www.ccdc.cam.ac.uk/data_request/cif.

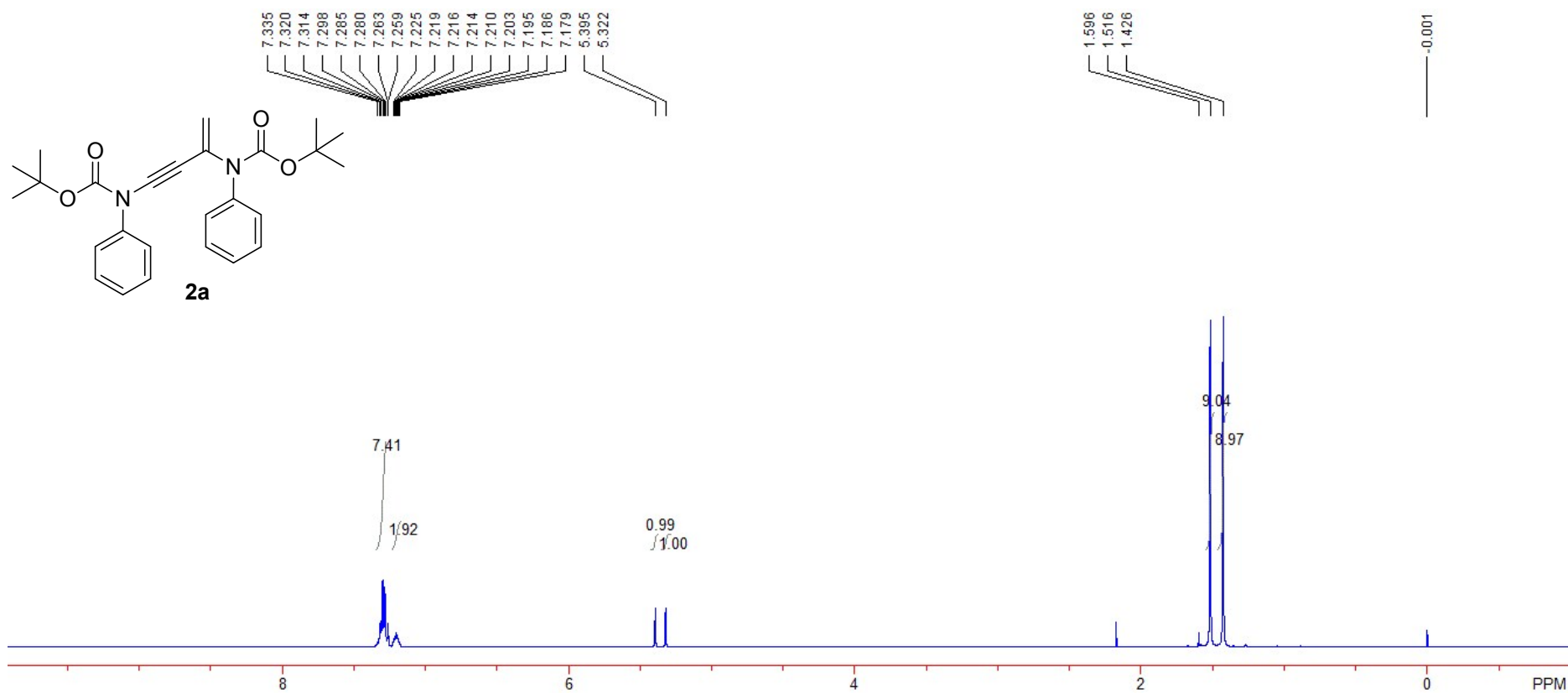
NMR Spectra

^1H NMR (400Hz, CDCl_3)

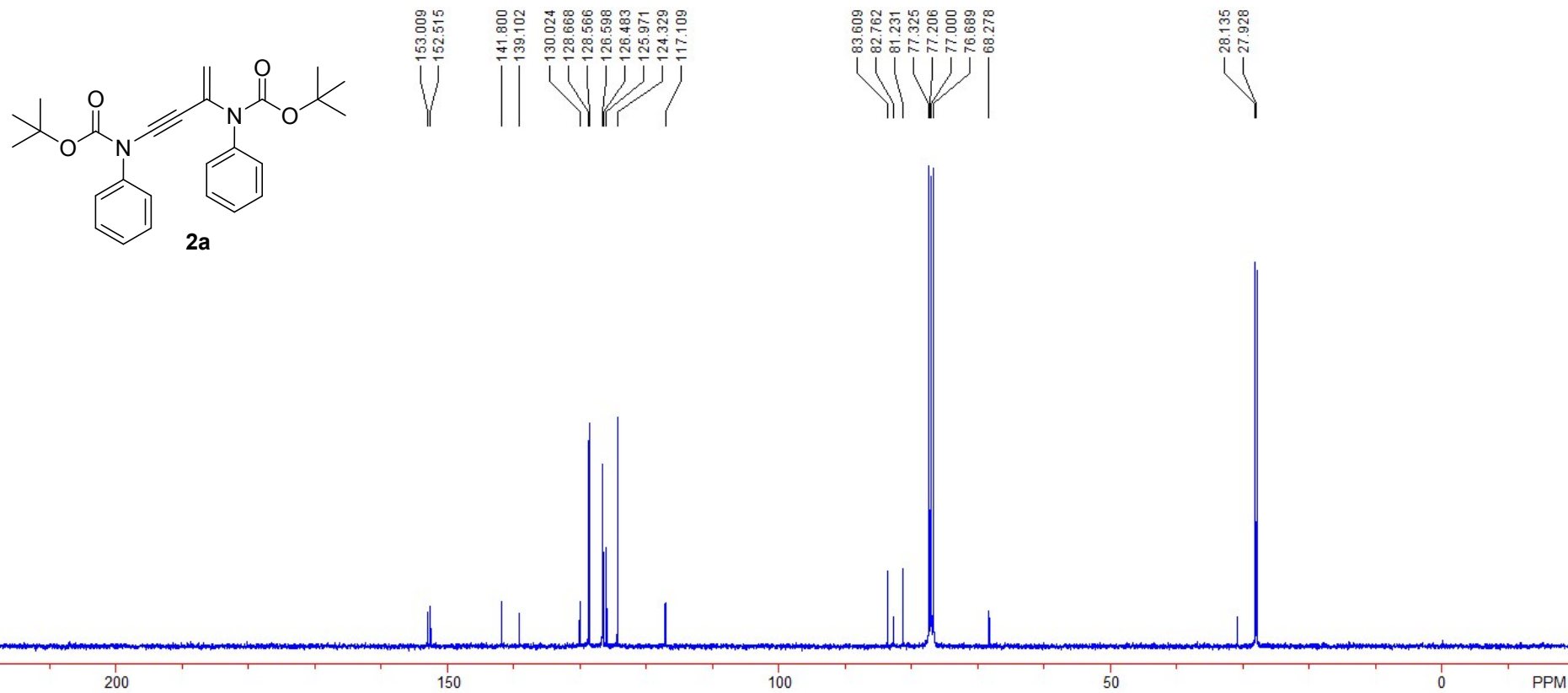


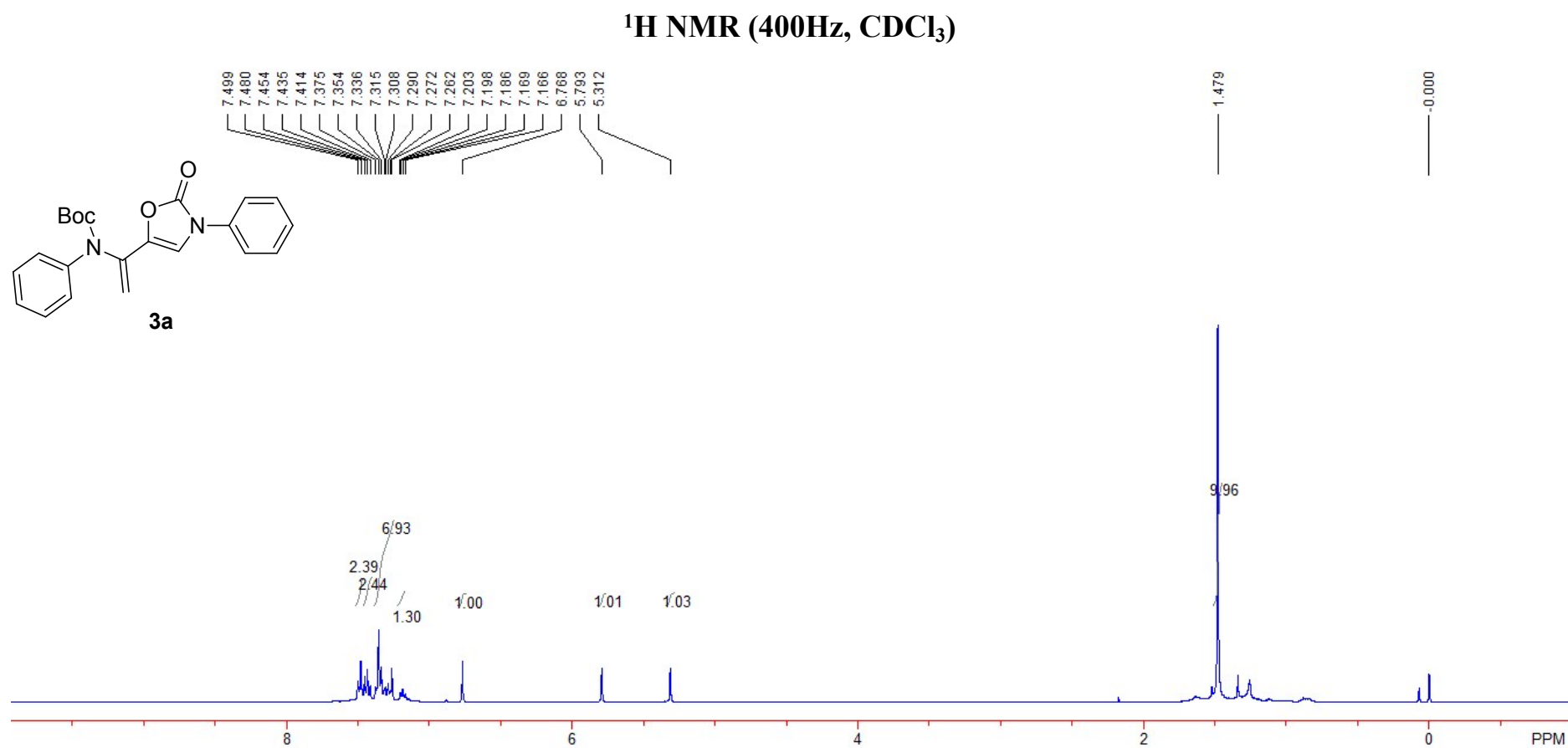


¹H NMR (400Hz, CDCl₃)

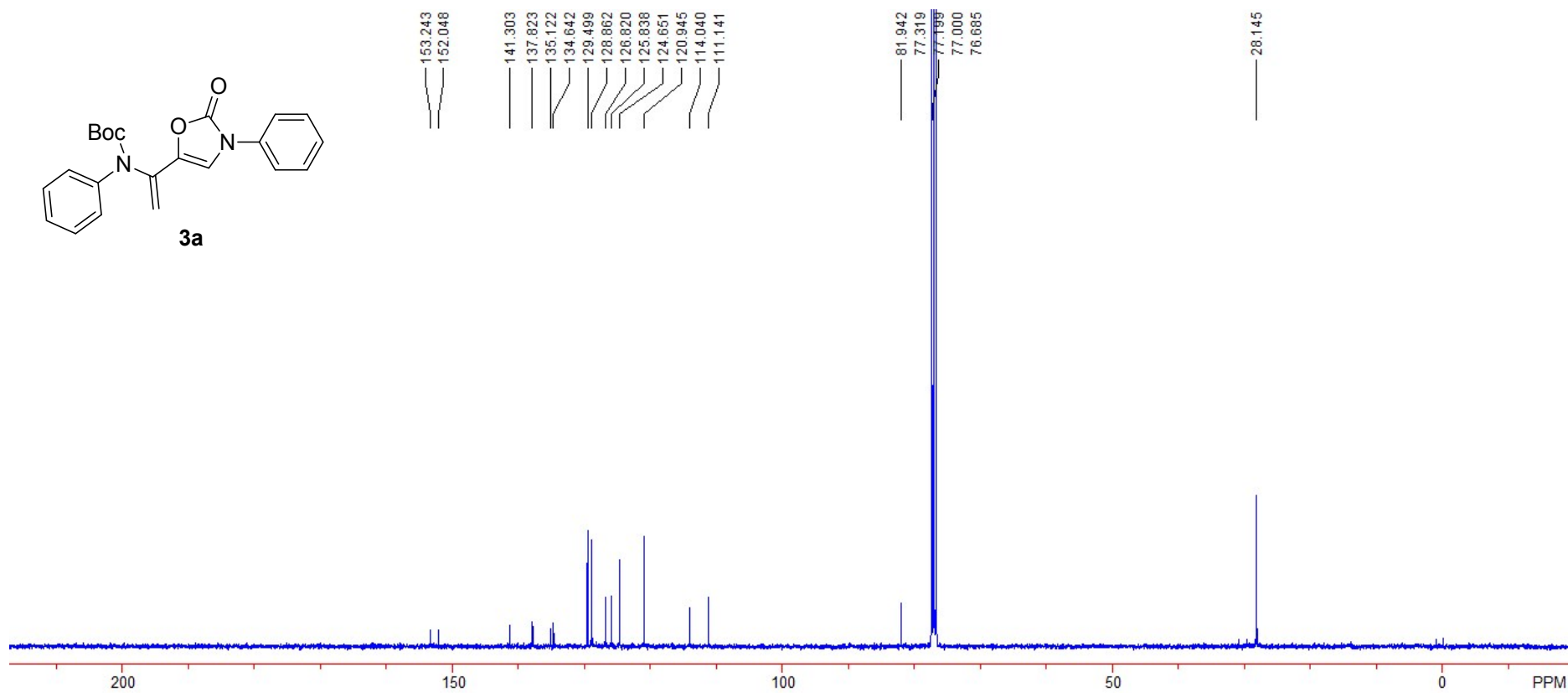


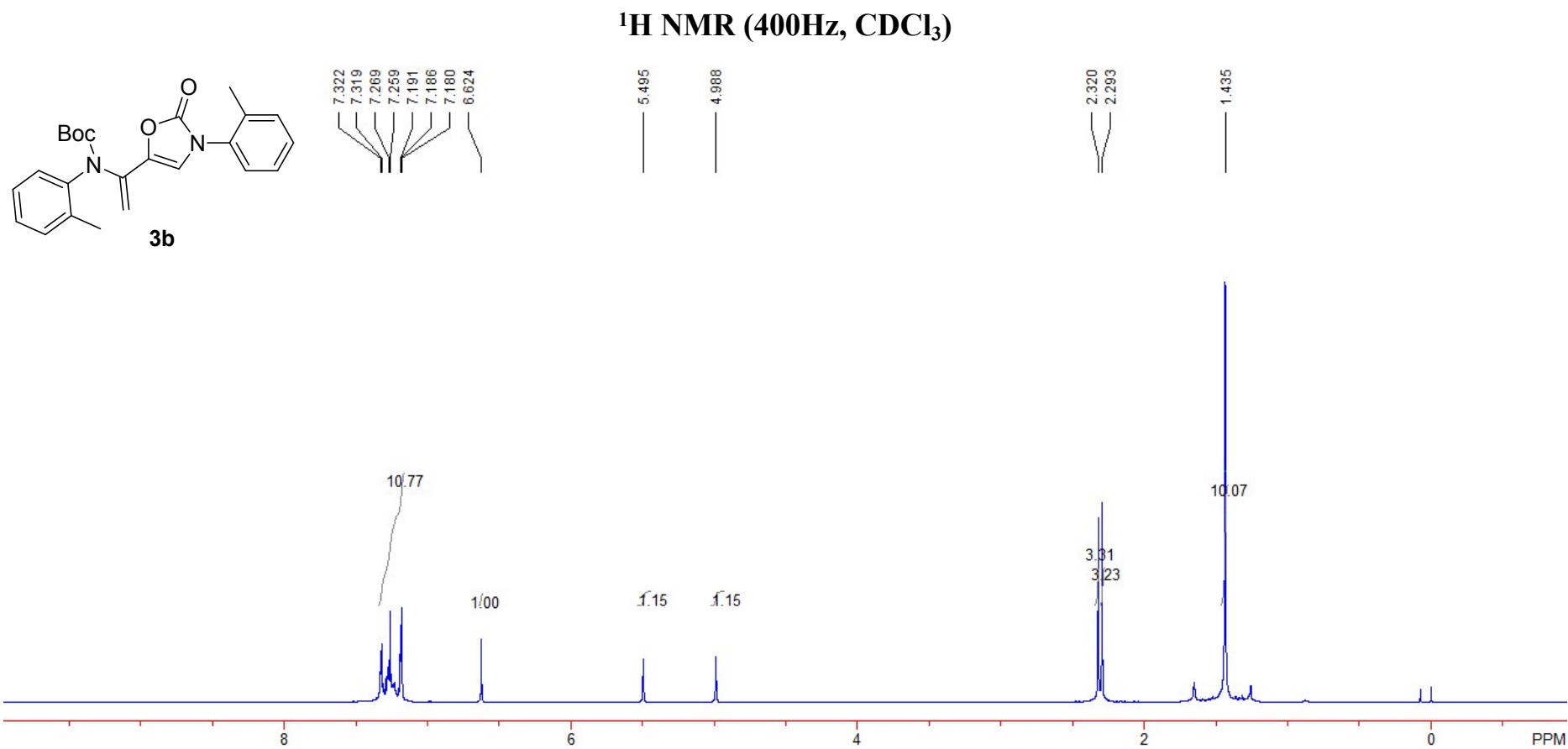
^{13}C NMR (100Hz, CDCl_3)



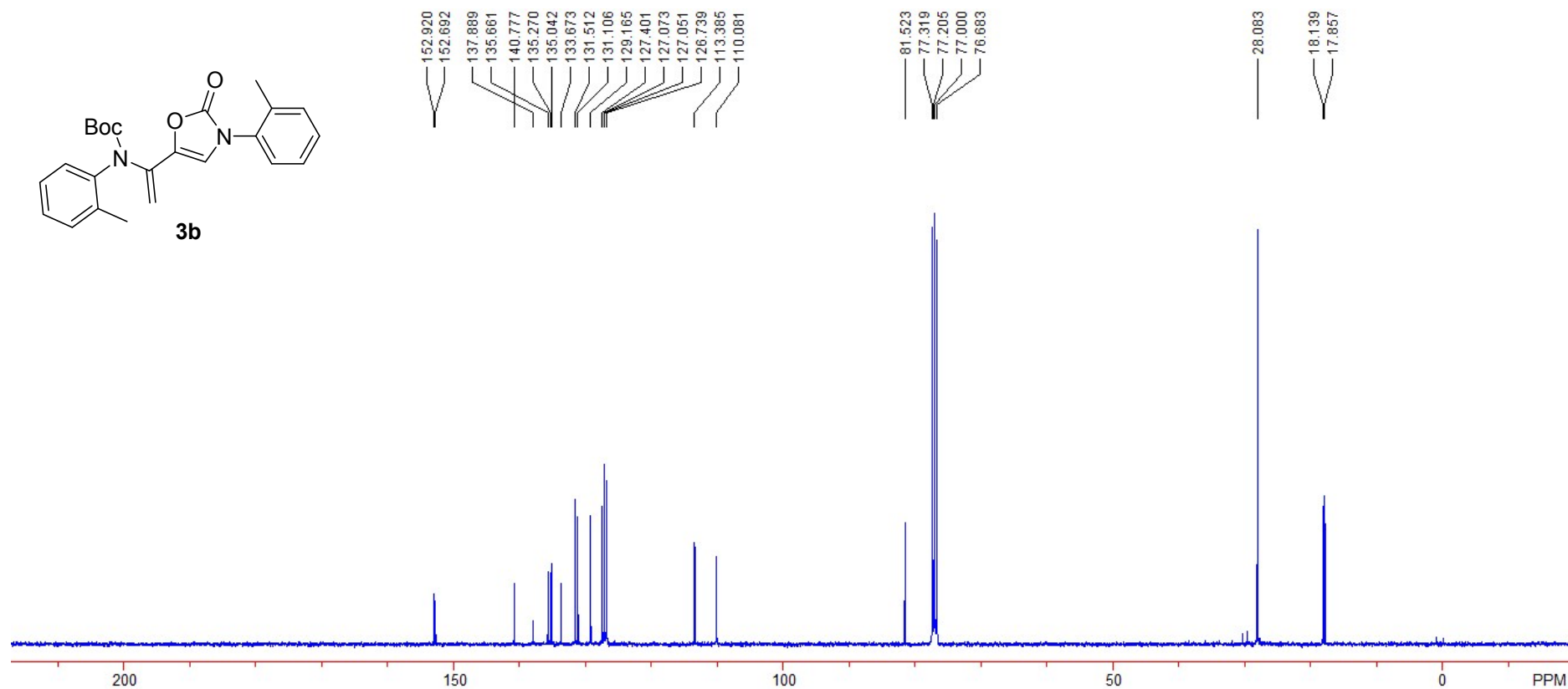
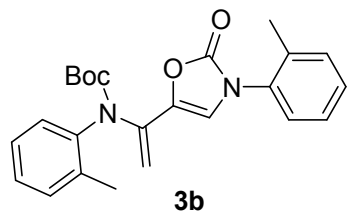


^{13}C NMR (100Hz, CDCl_3)

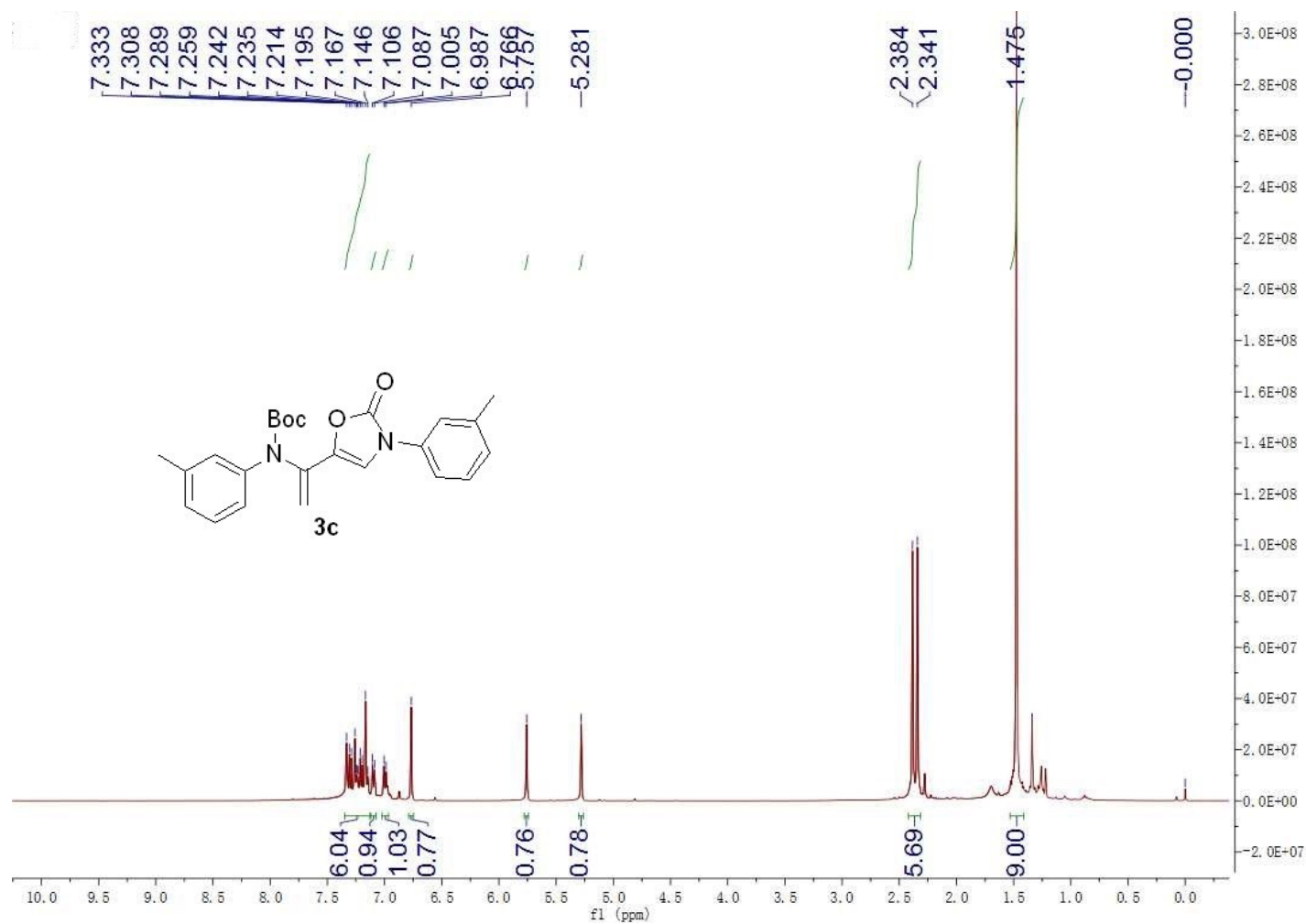




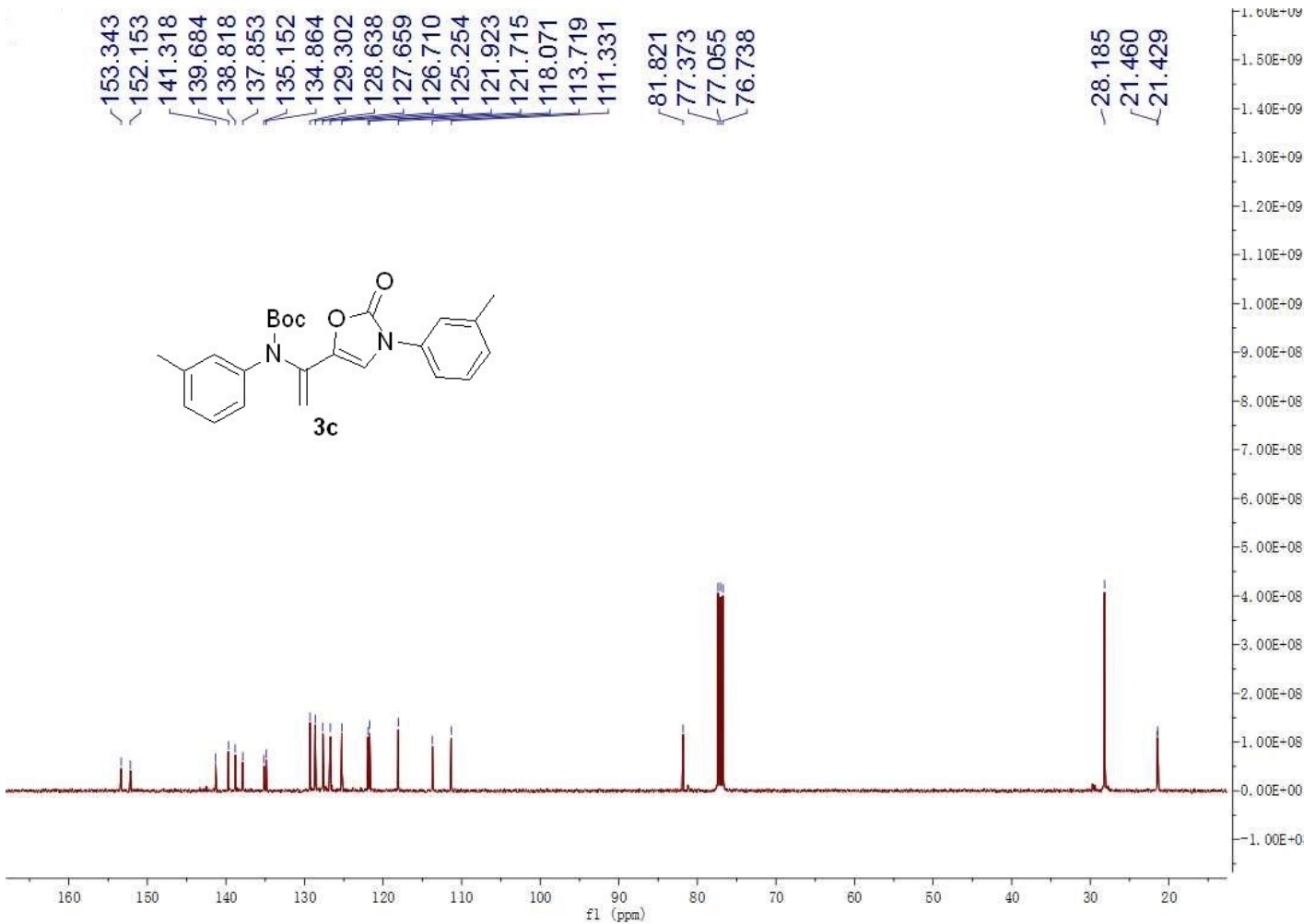
^{13}C NMR (100Hz, CDCl_3)



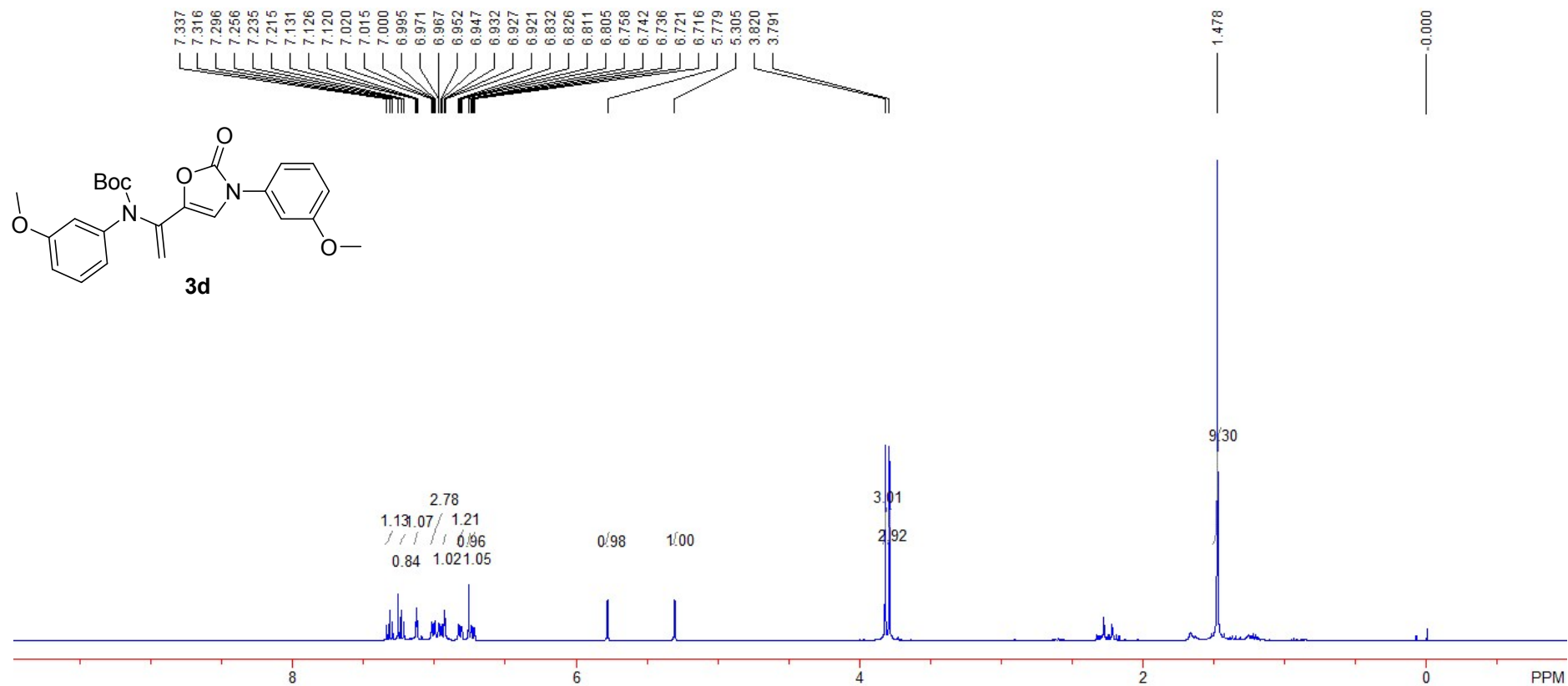
^1H NMR (400Hz, CDCl_3)



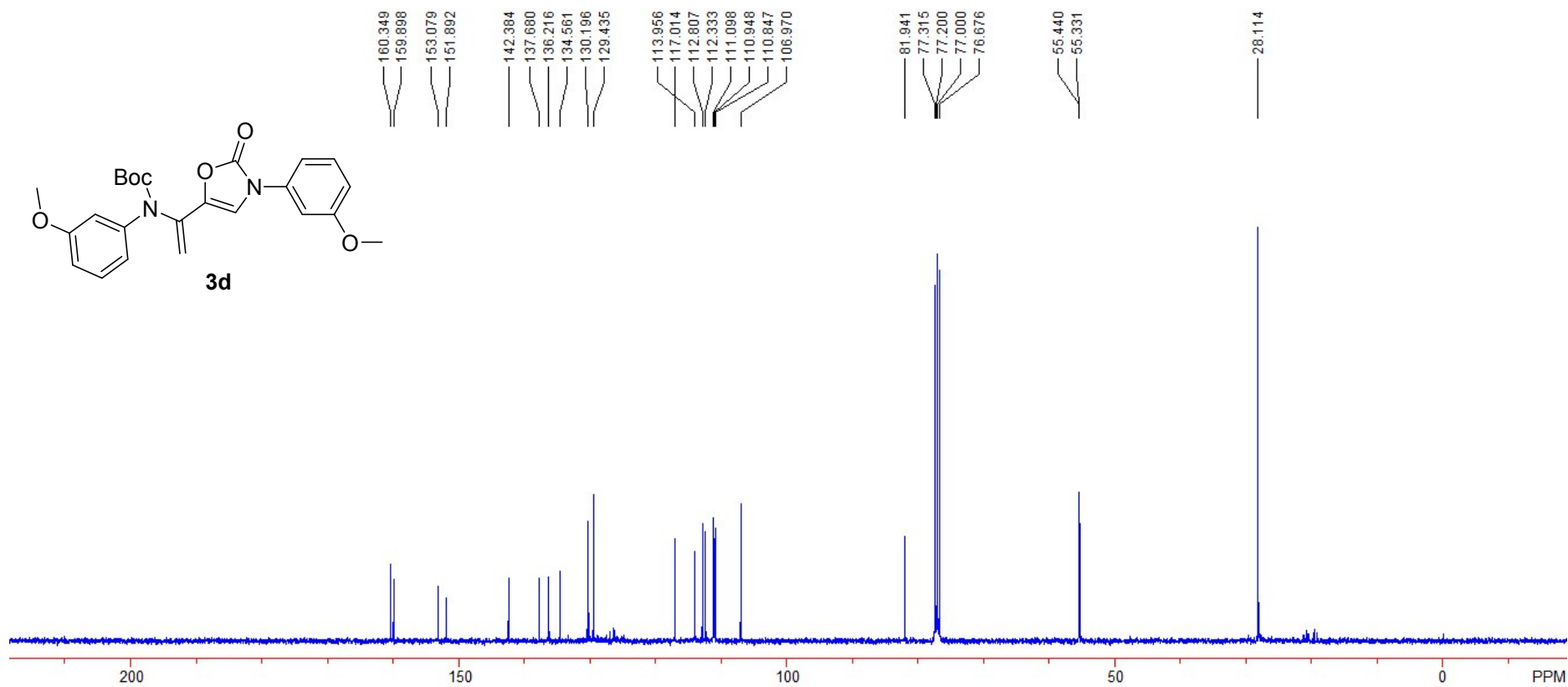
^{13}C NMR (100Hz, CDCl_3)



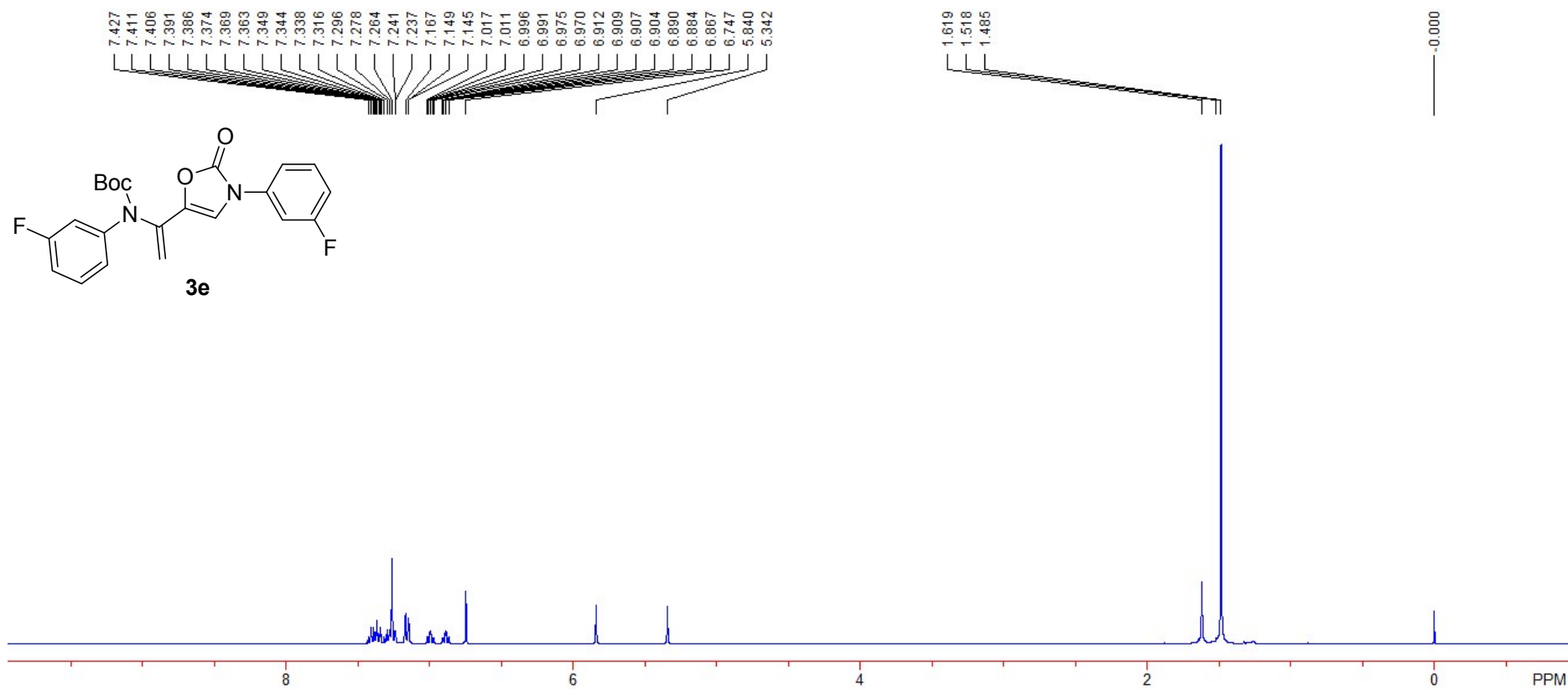
¹H NMR (400Hz, CDCl₃)



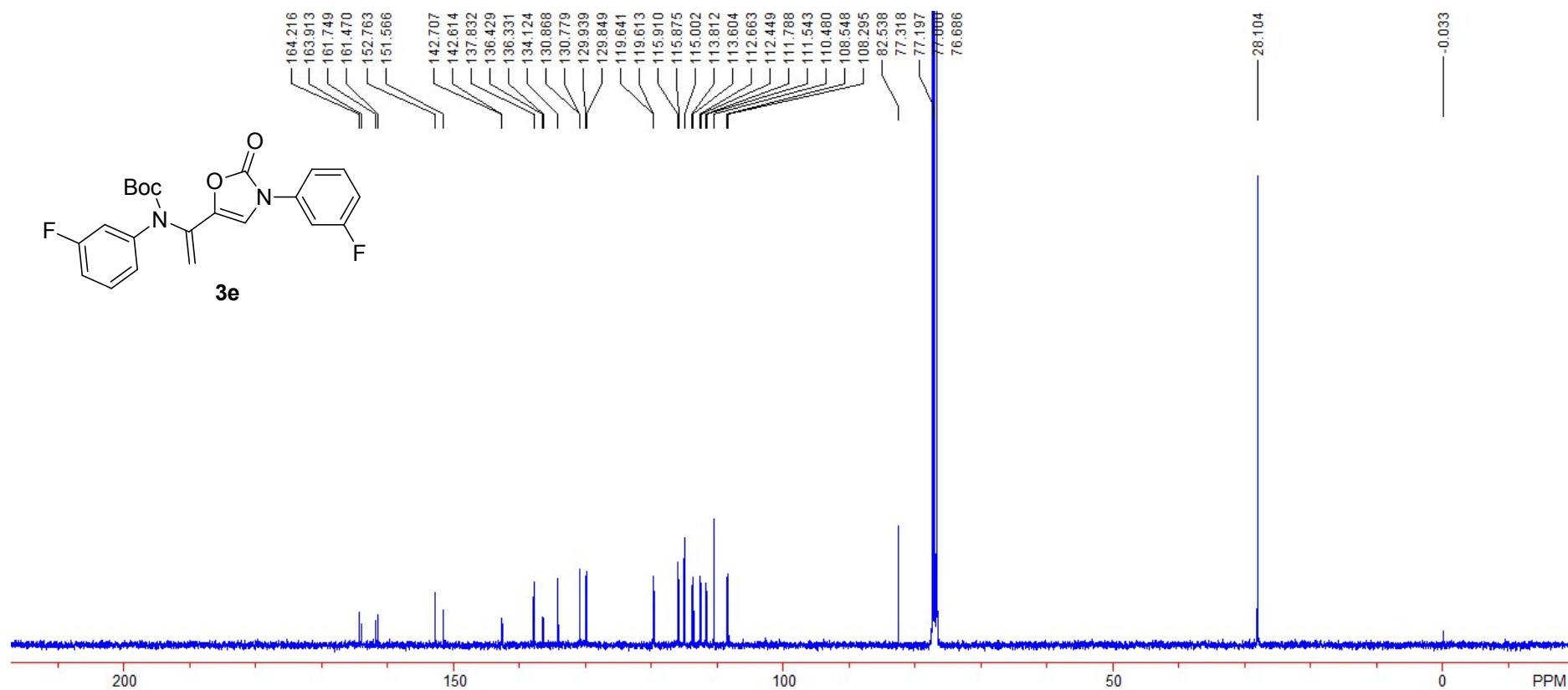
^{13}C NMR (100Hz, CDCl_3)



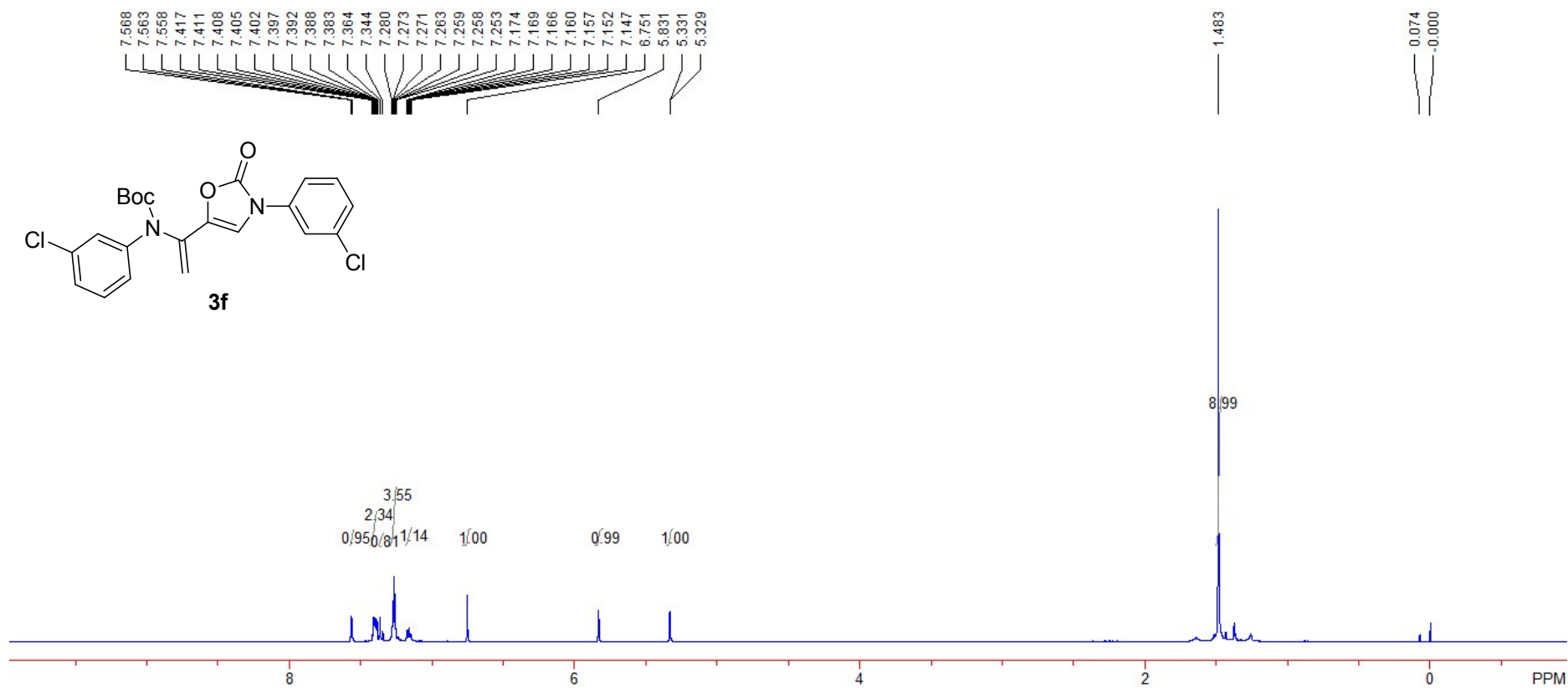
¹H NMR (400Hz, CDCl₃)



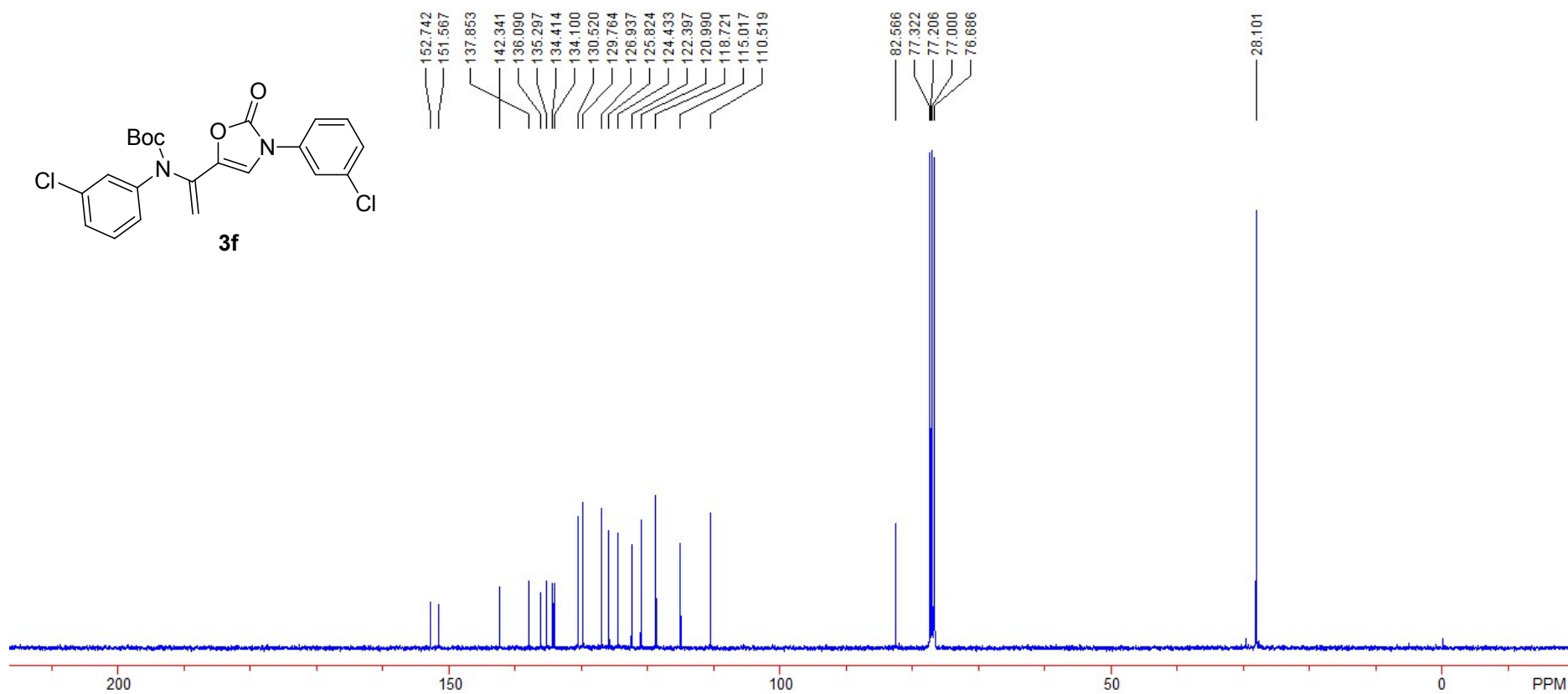
^{13}C NMR (100Hz, CDCl_3)



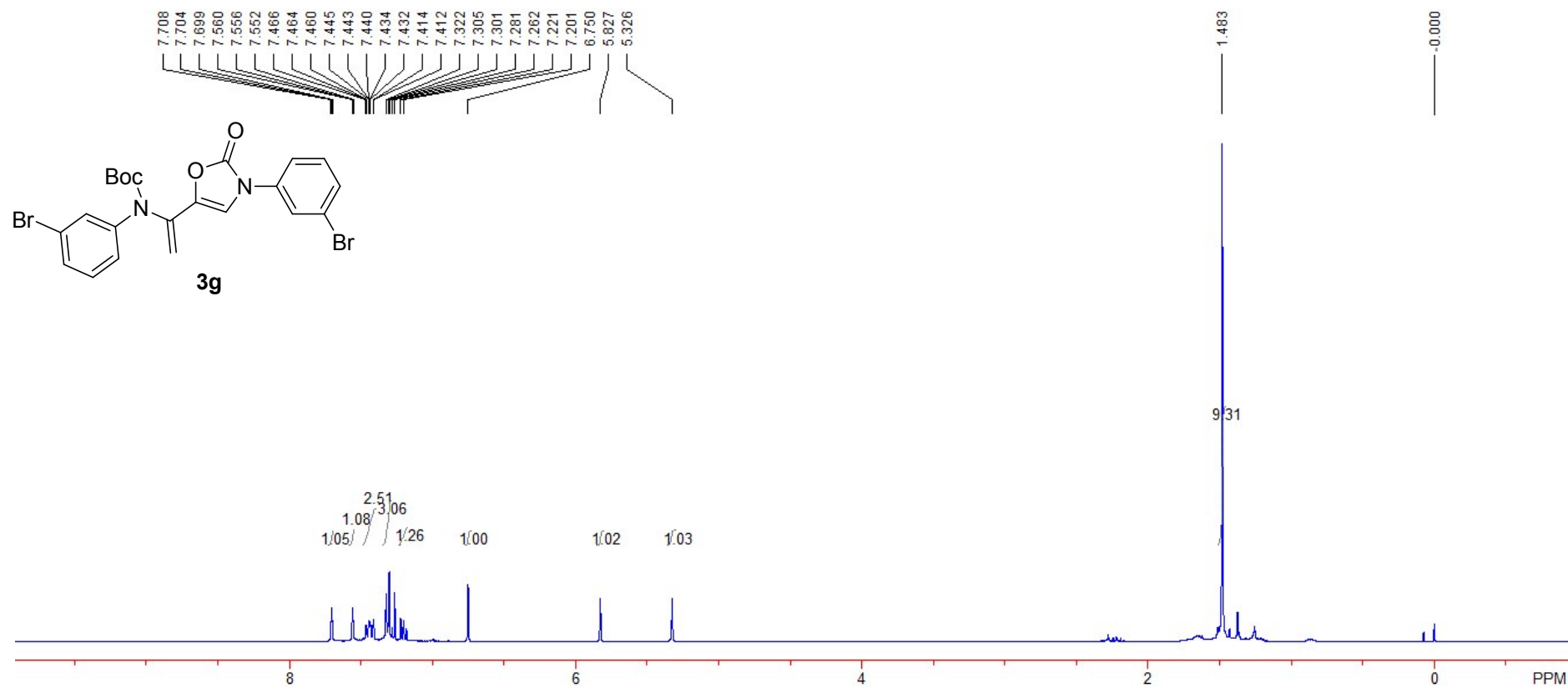
¹H NMR (400Hz, CDCl₃)



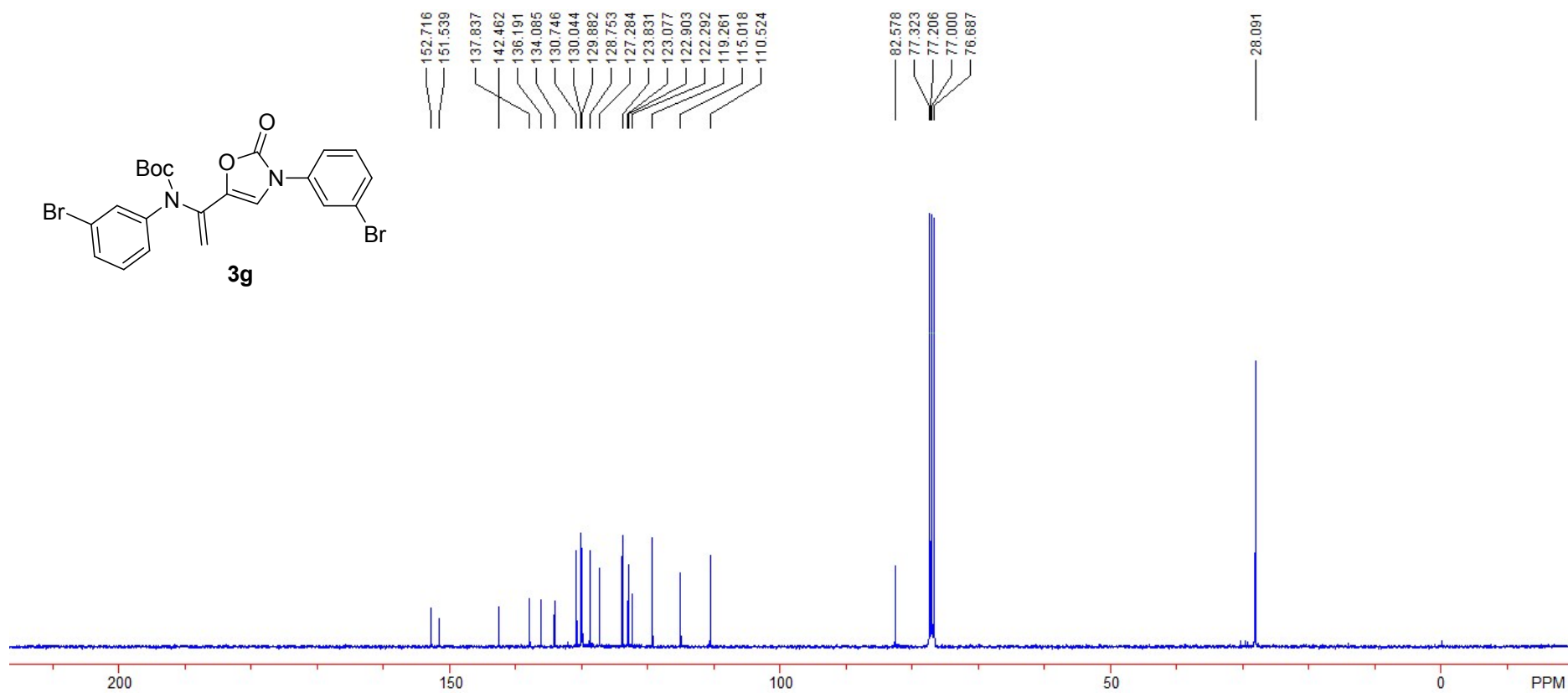
^{13}C NMR (100Hz, CDCl_3)



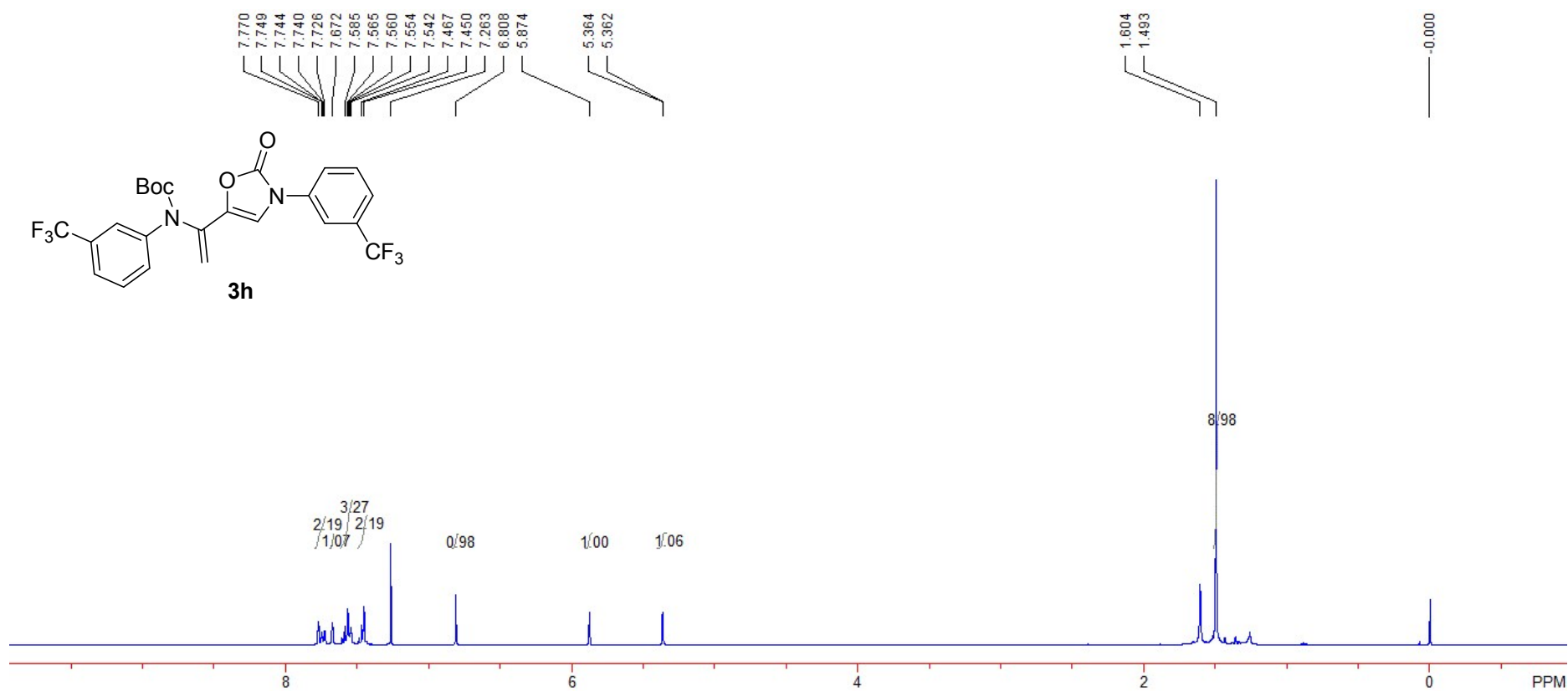
^1H NMR (400Hz, CDCl_3)



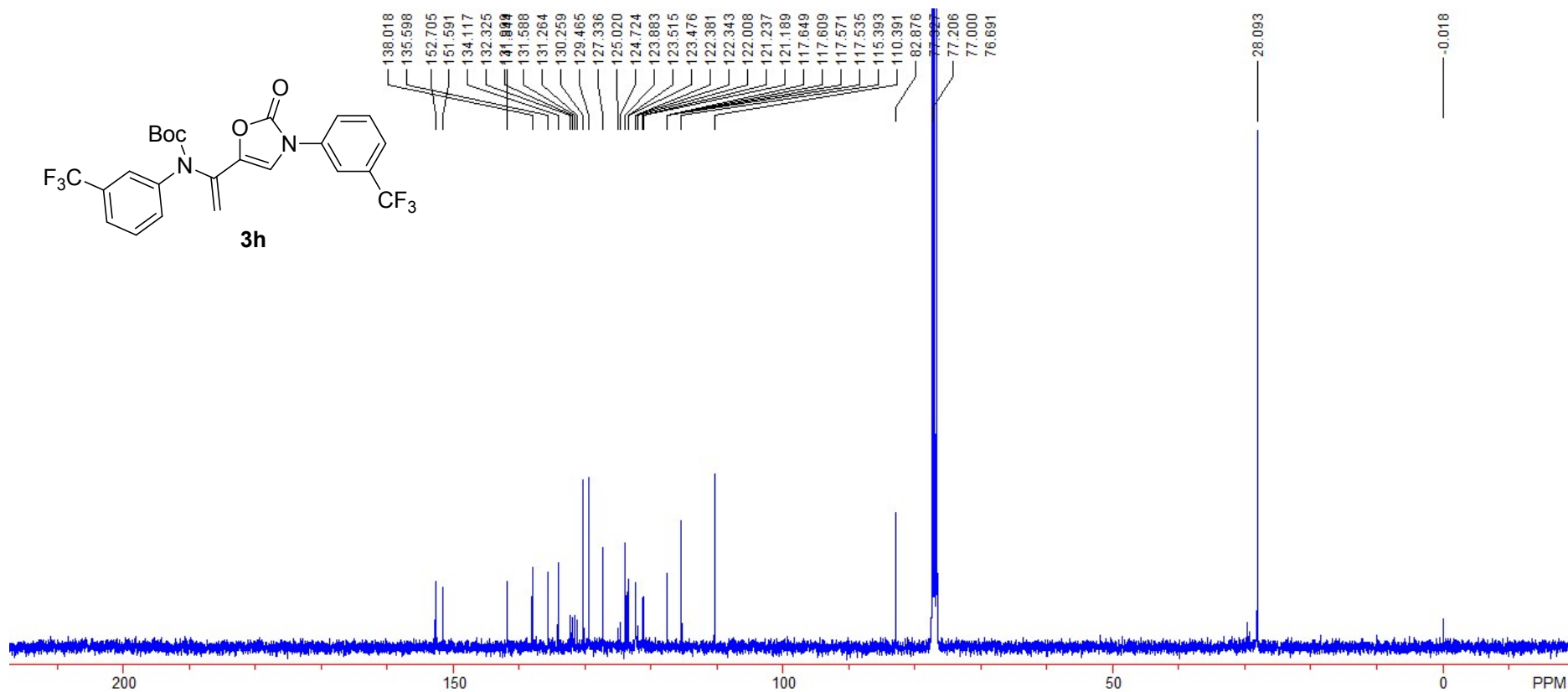
^{13}C NMR (100Hz, CDCl_3)



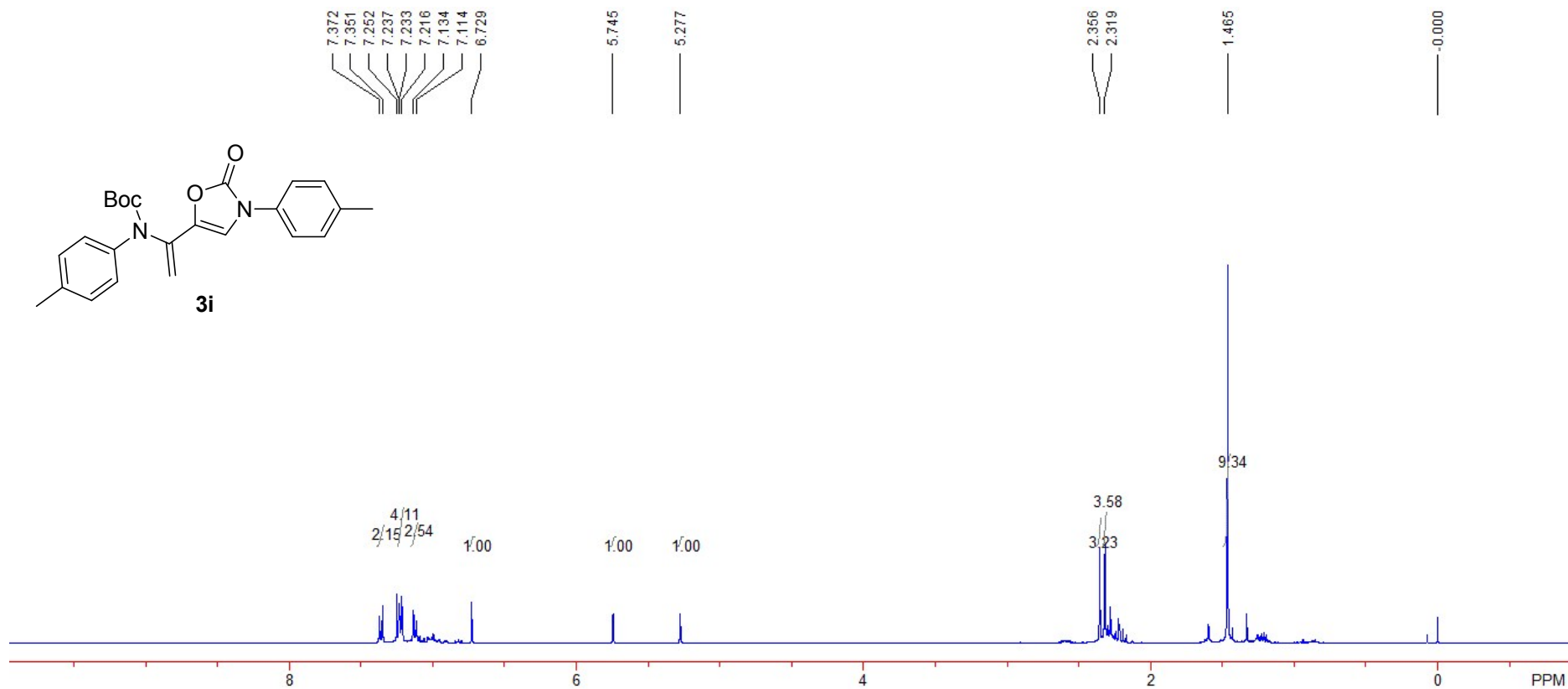
¹H NMR (400Hz, CDCl₃)



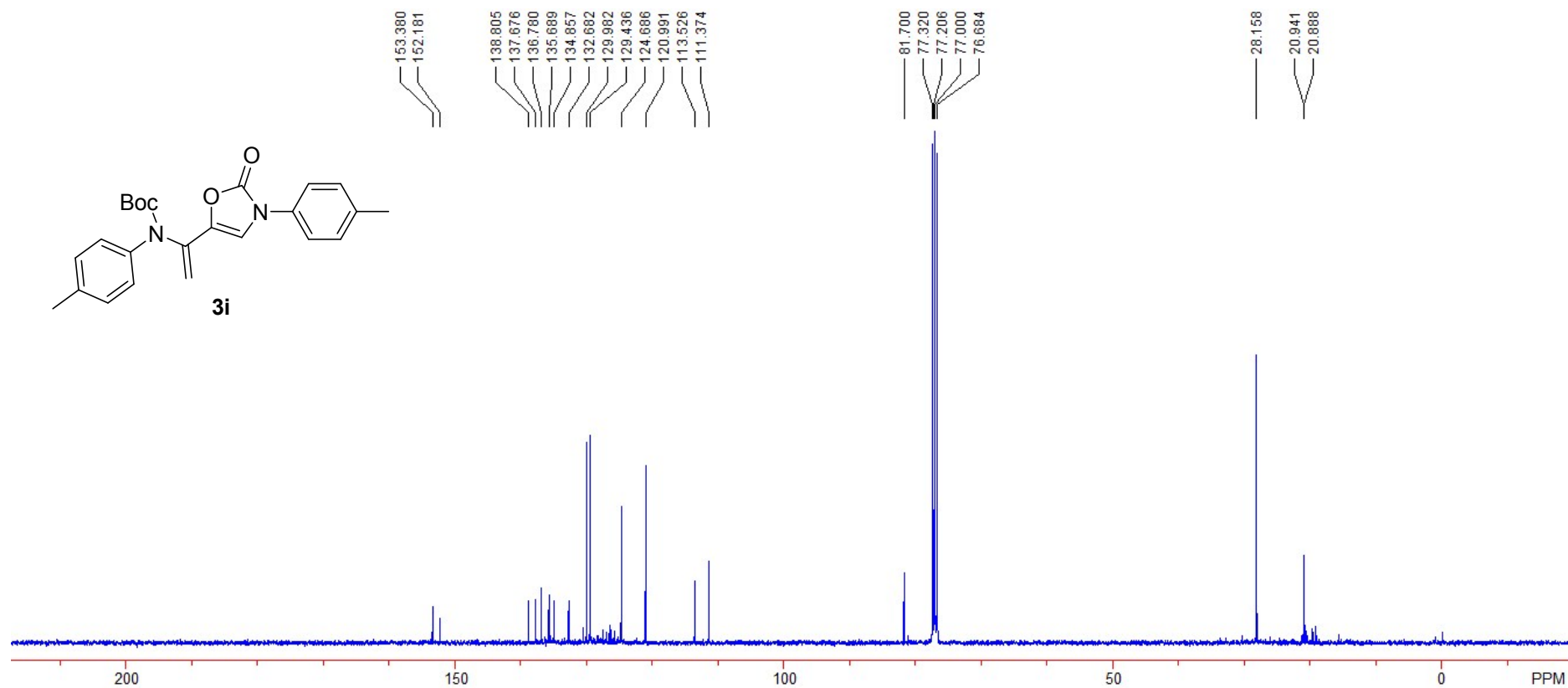
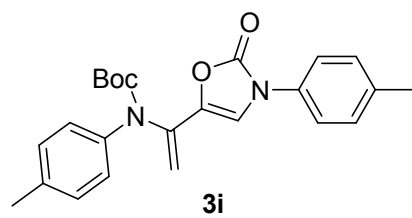
^{13}C NMR (100Hz, CDCl_3)



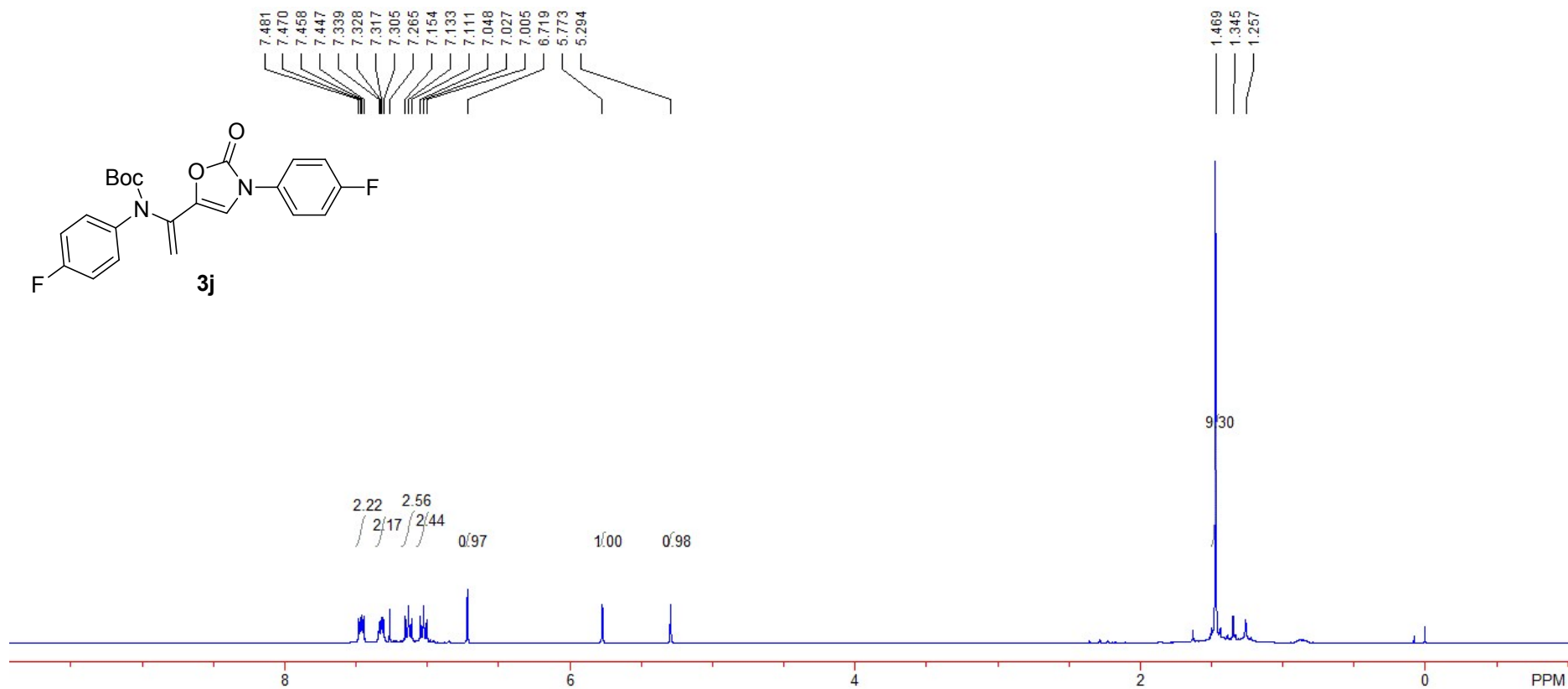
¹H NMR (400Hz, CDCl₃)



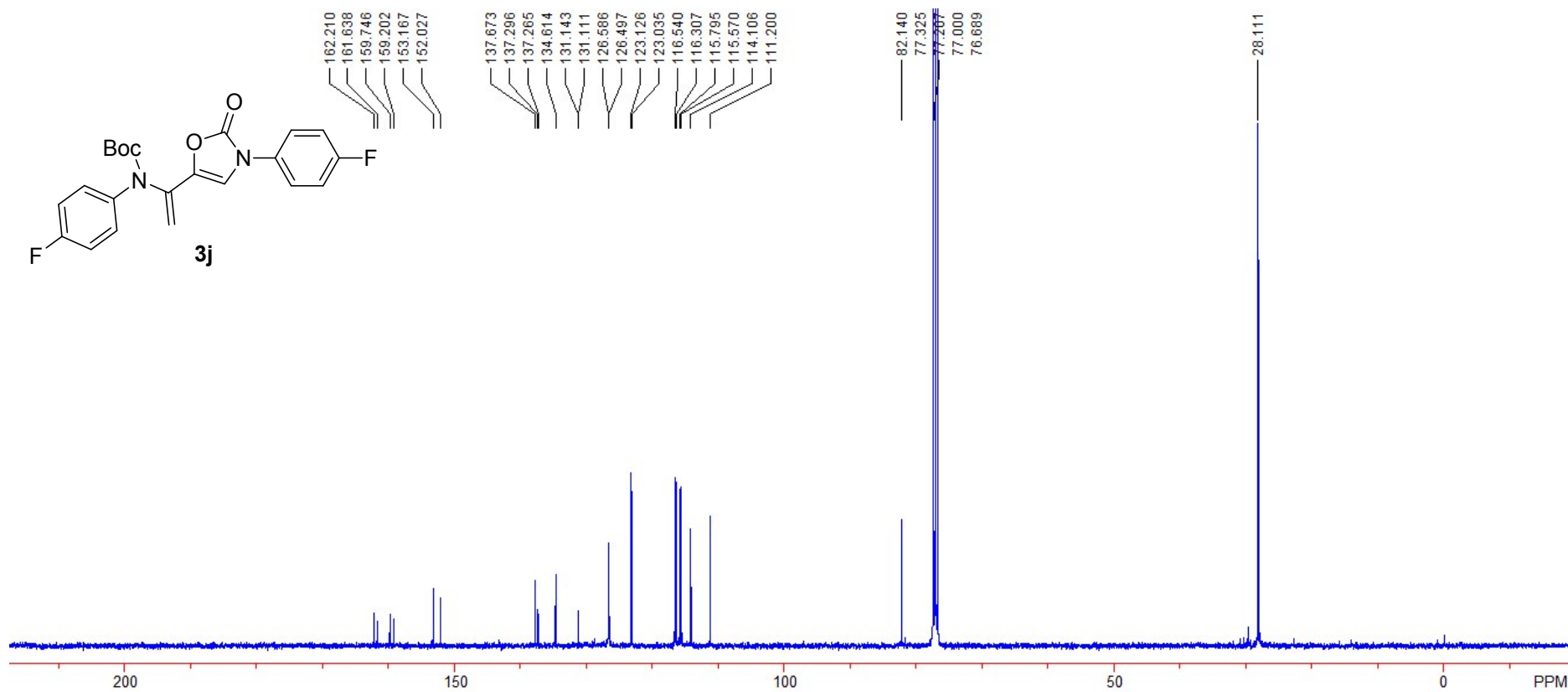
^{13}C NMR (100Hz, CDCl_3)



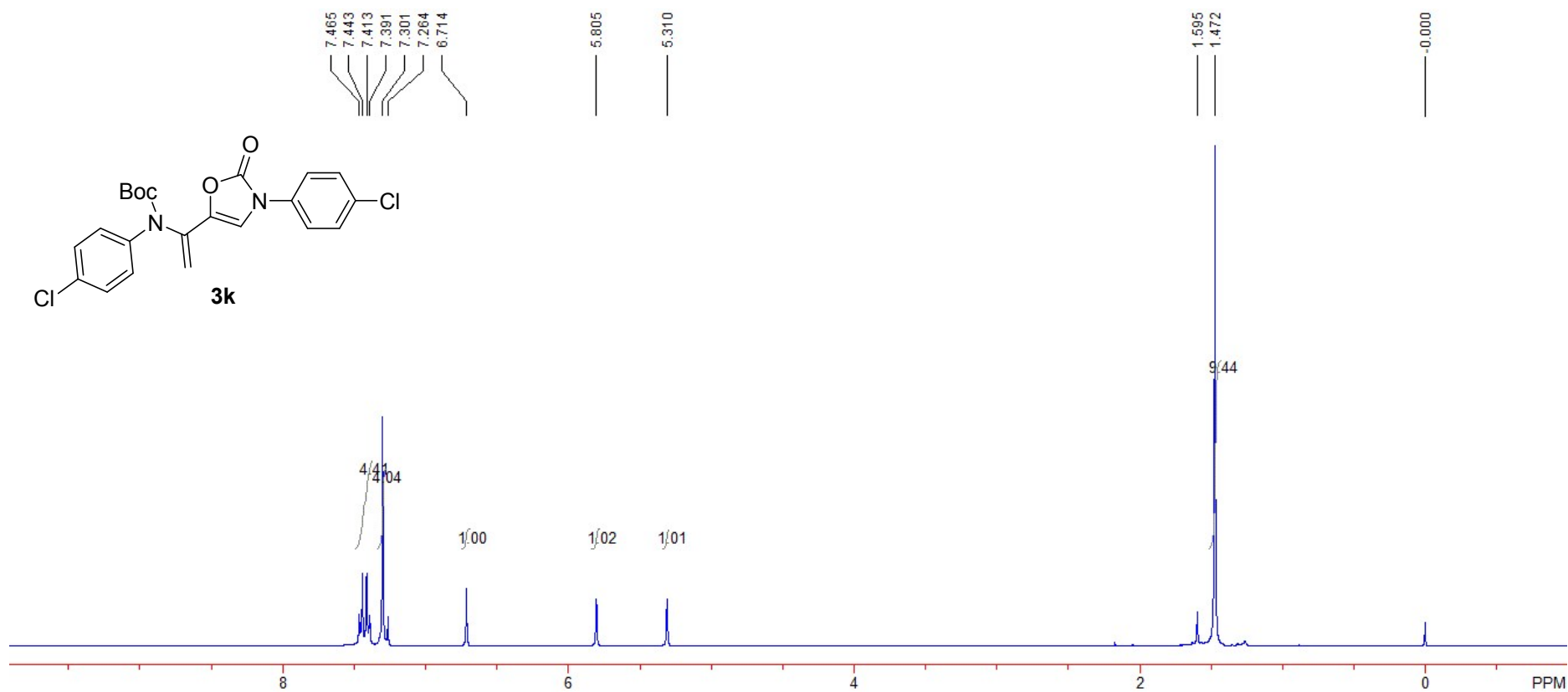
¹H NMR (400Hz, CDCl₃)



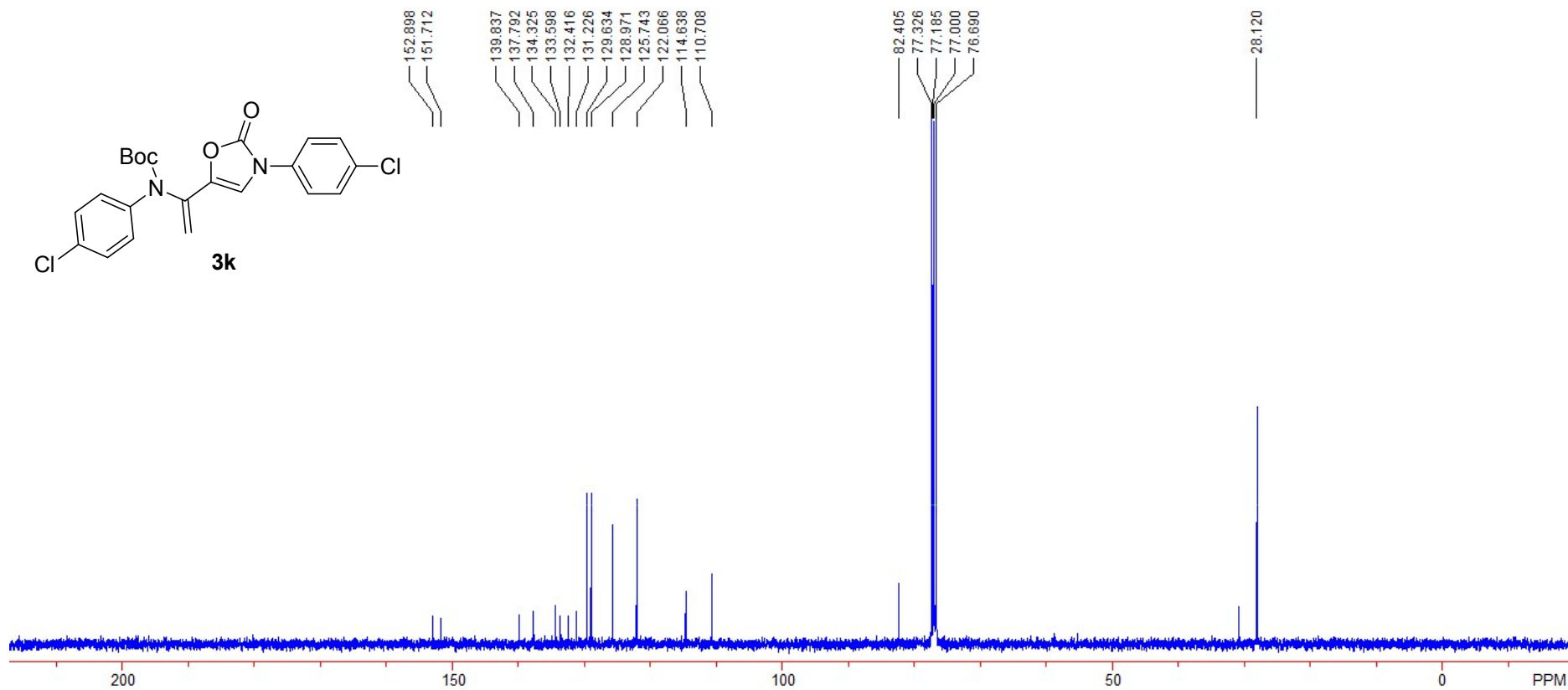
^{13}C NMR (100Hz, CDCl_3)



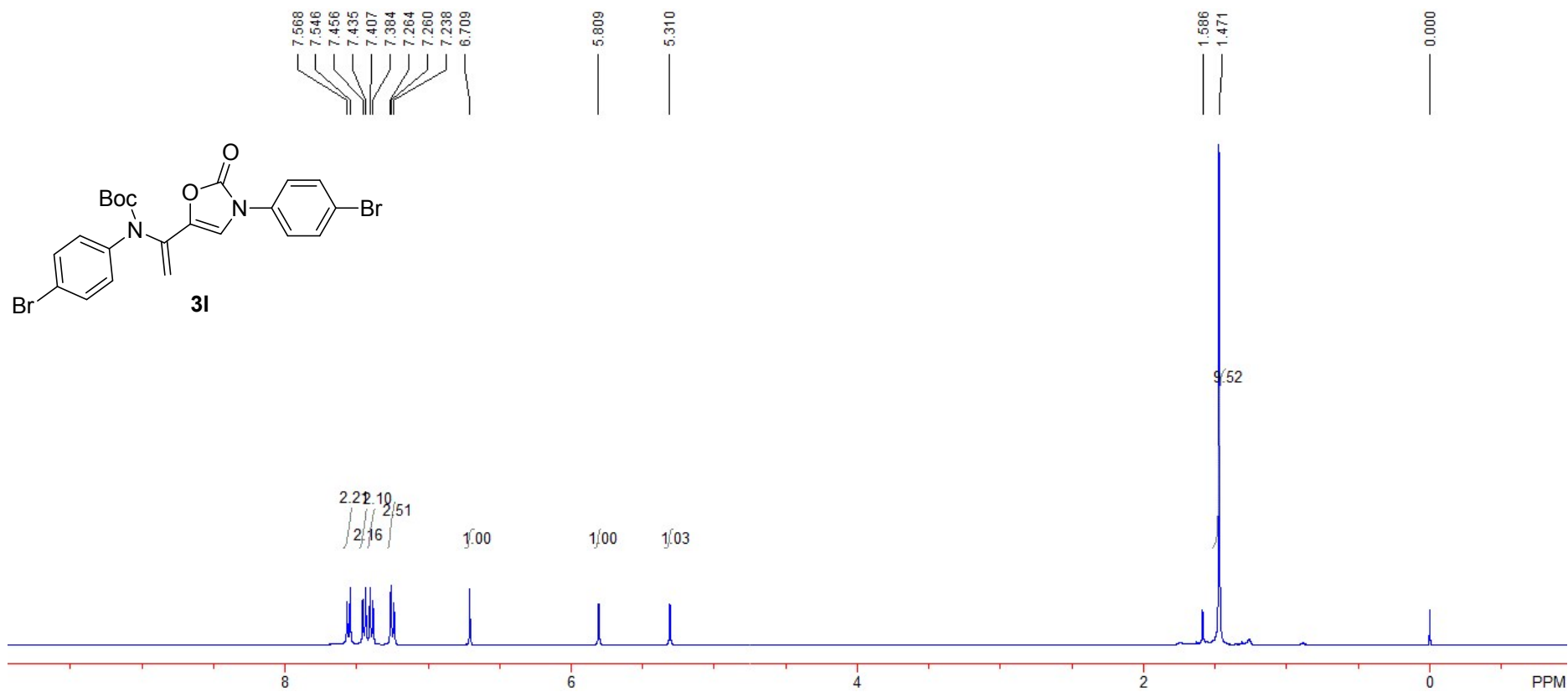
^1H NMR (400Hz, CDCl_3)



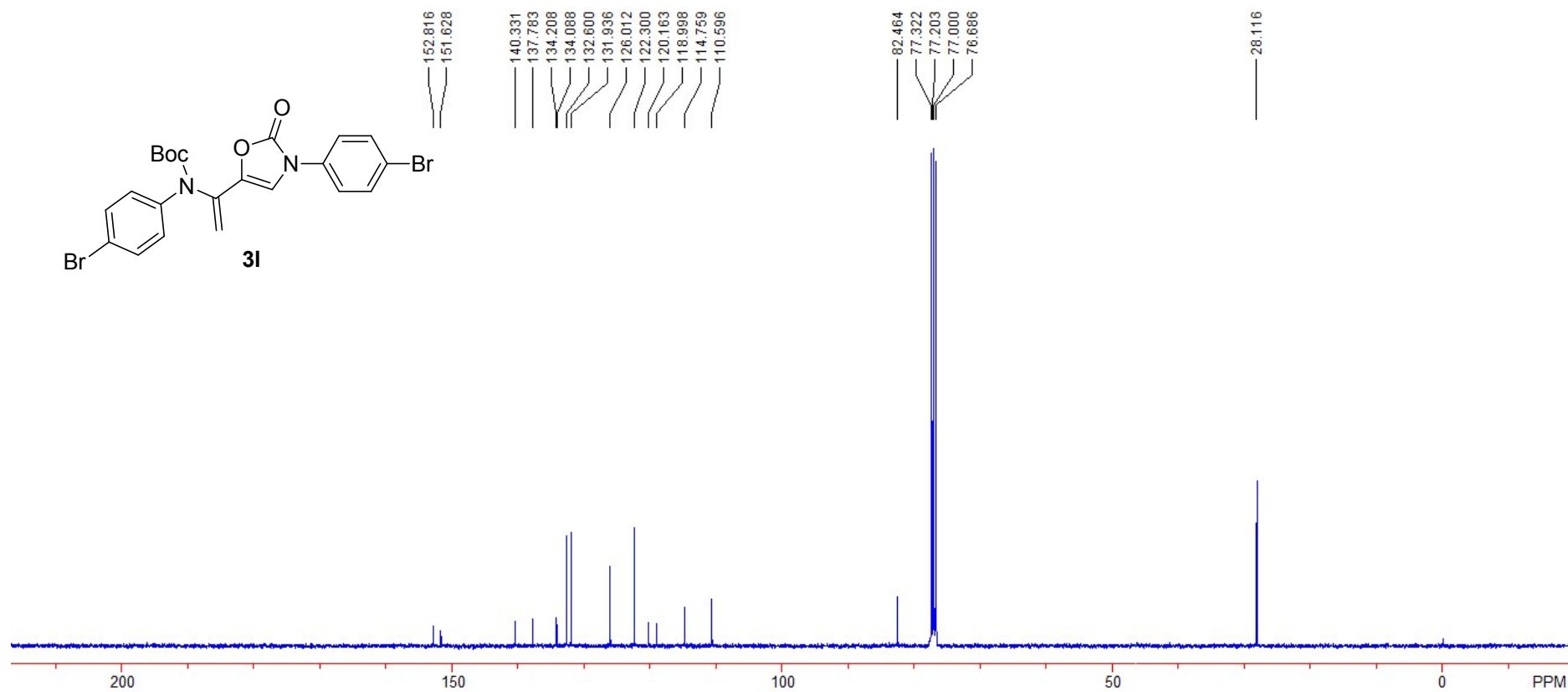
^{13}C NMR (100Hz, CDCl_3)



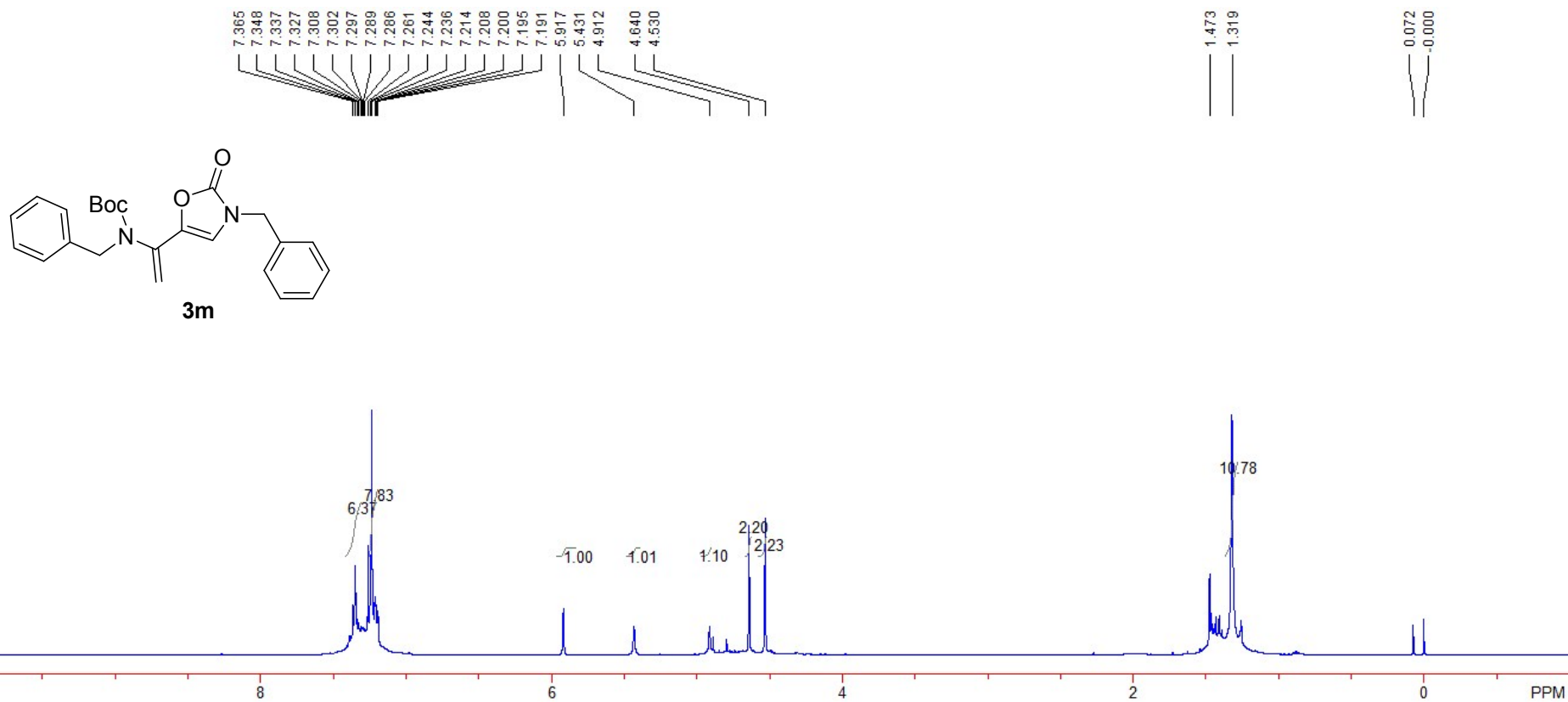
^1H NMR (400Hz, CDCl_3)



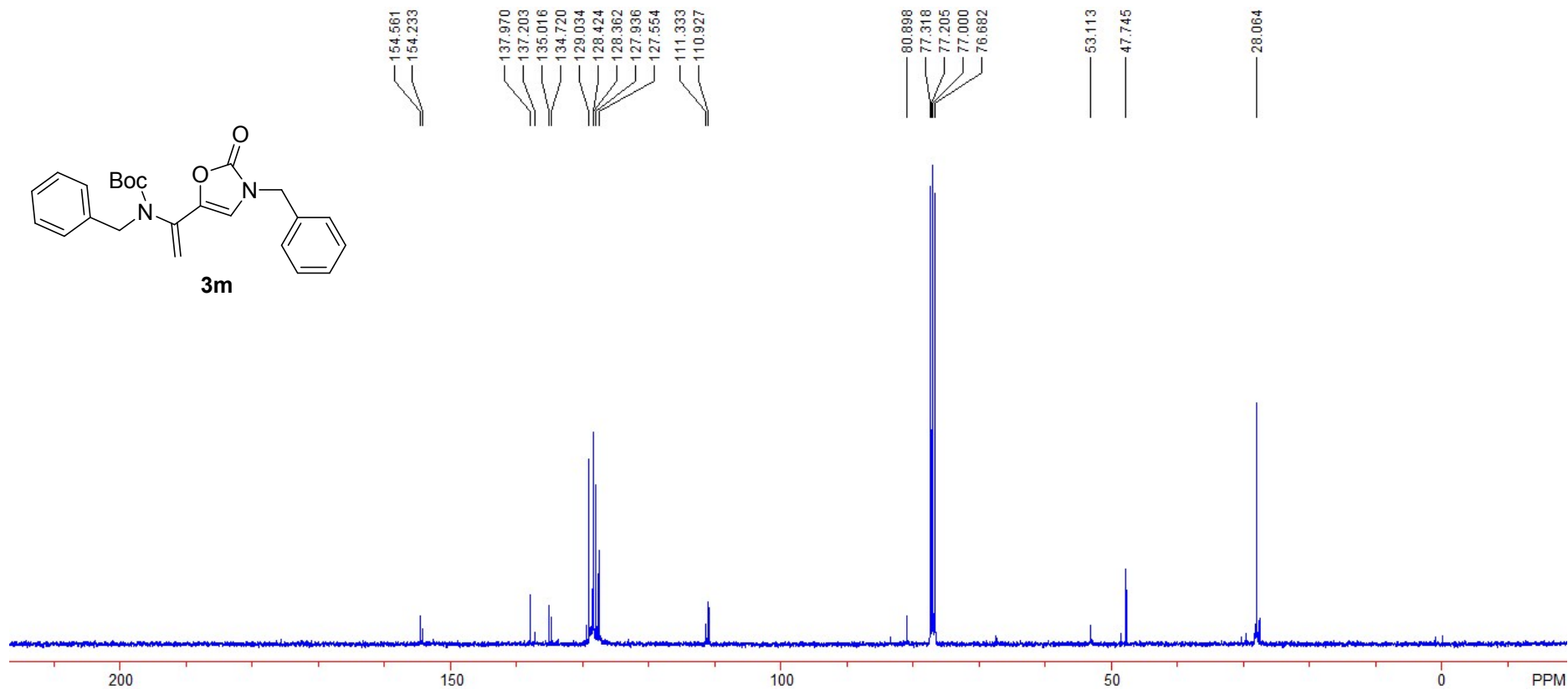
^{13}C NMR (100Hz, CDCl_3)



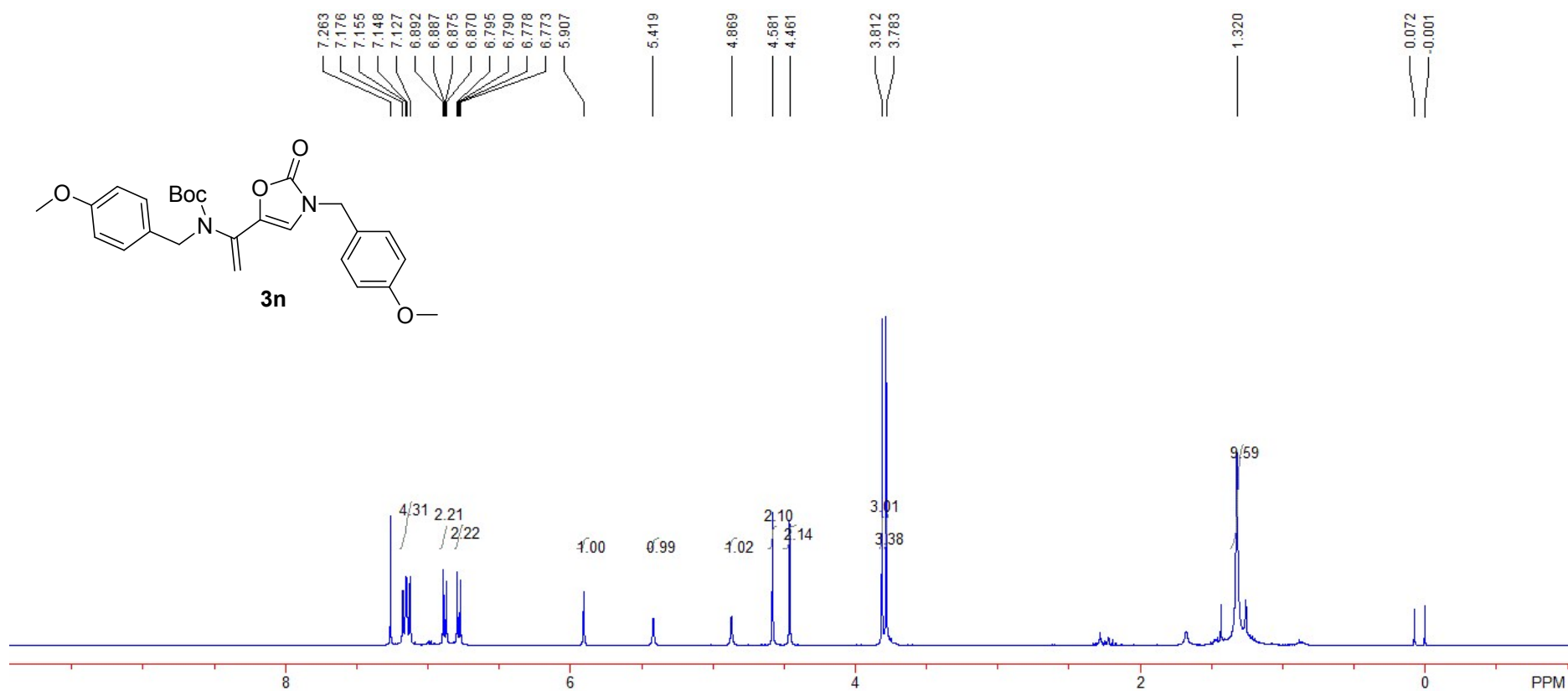
¹H NMR (400Hz, CDCl₃)



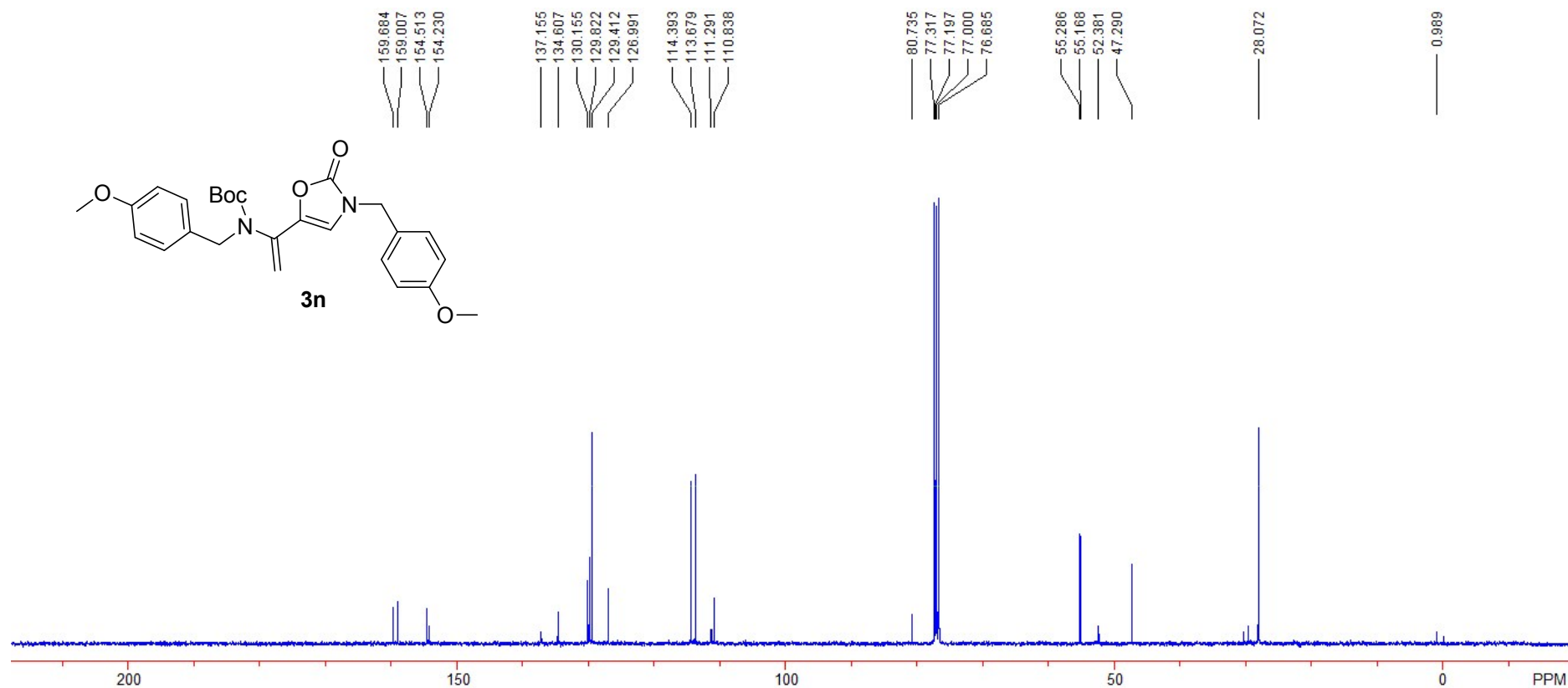
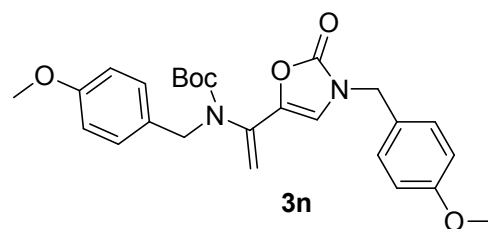
^{13}C NMR (100Hz, CDCl_3)



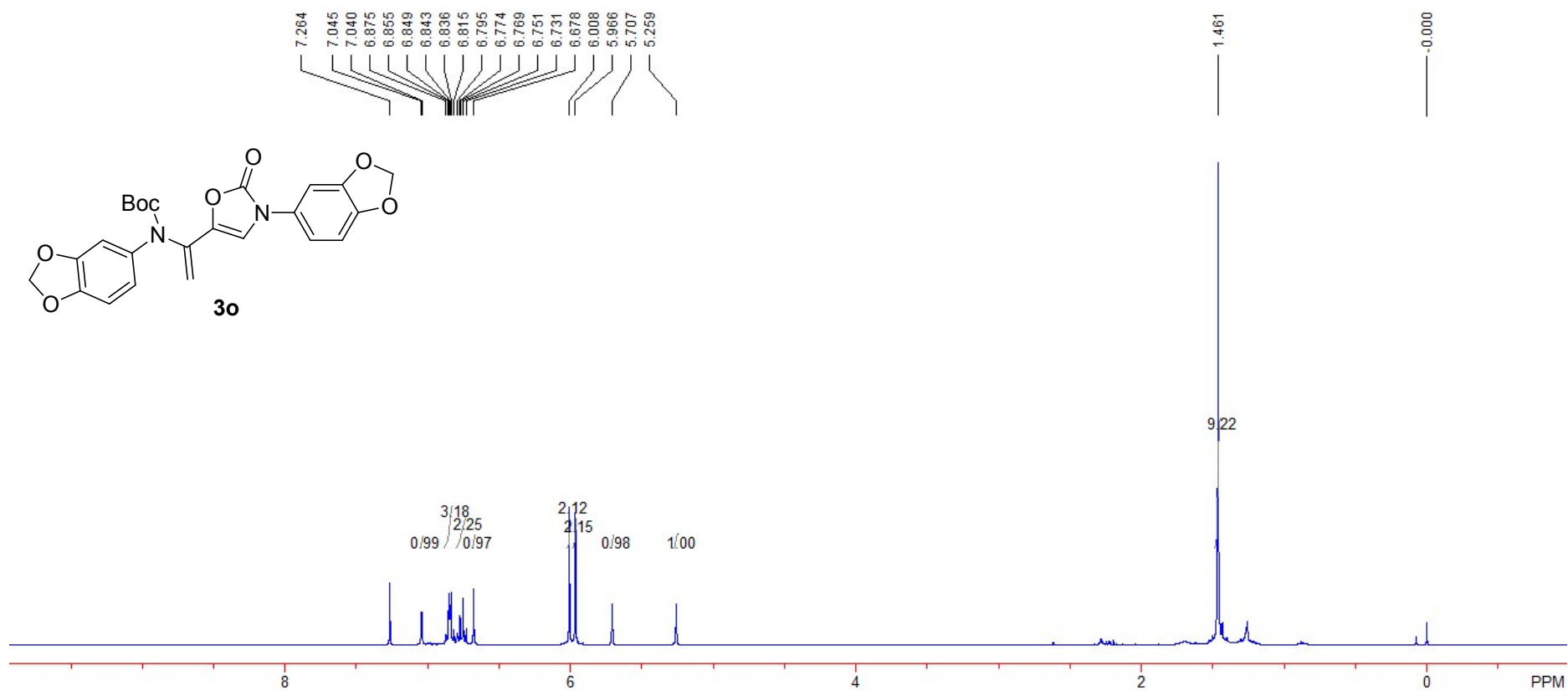
^1H NMR (400Hz, CDCl_3)



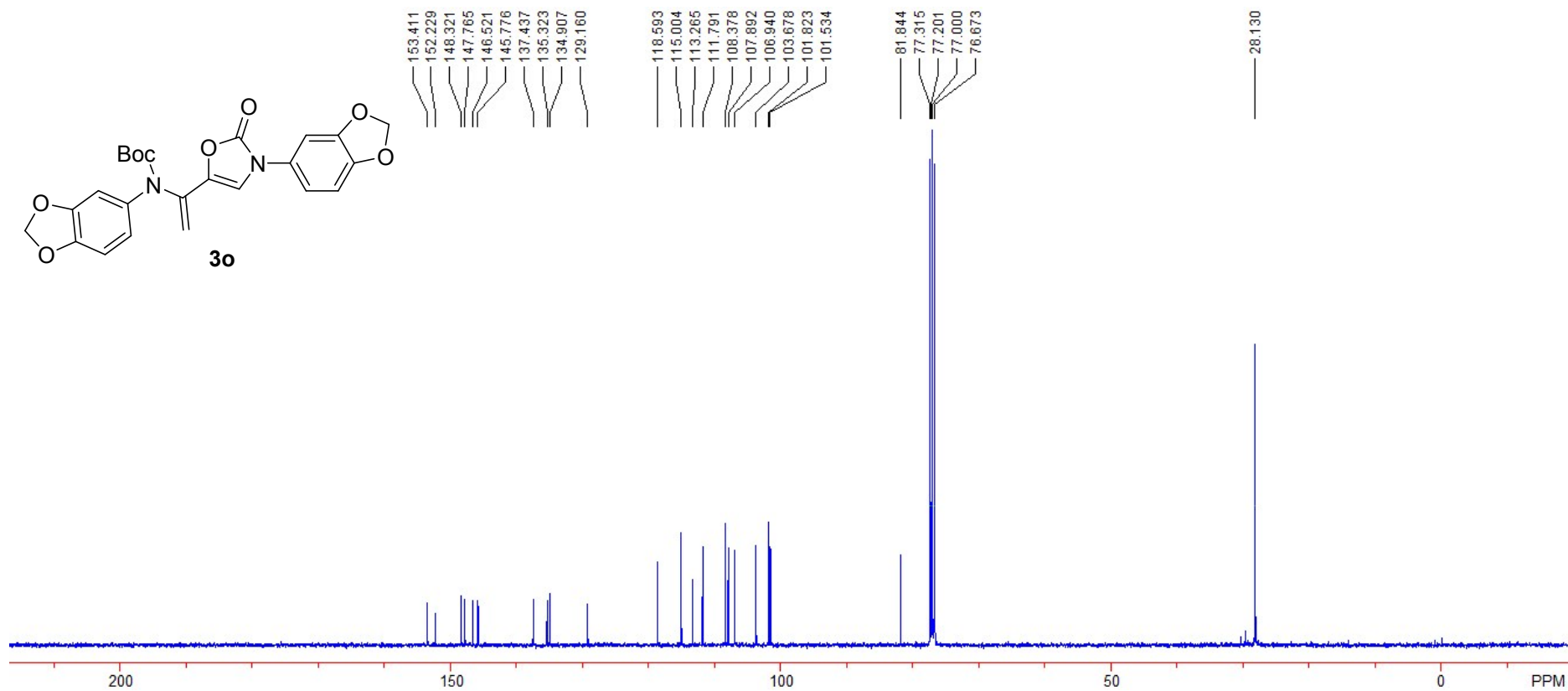
^{13}C NMR (100Hz, CDCl_3)



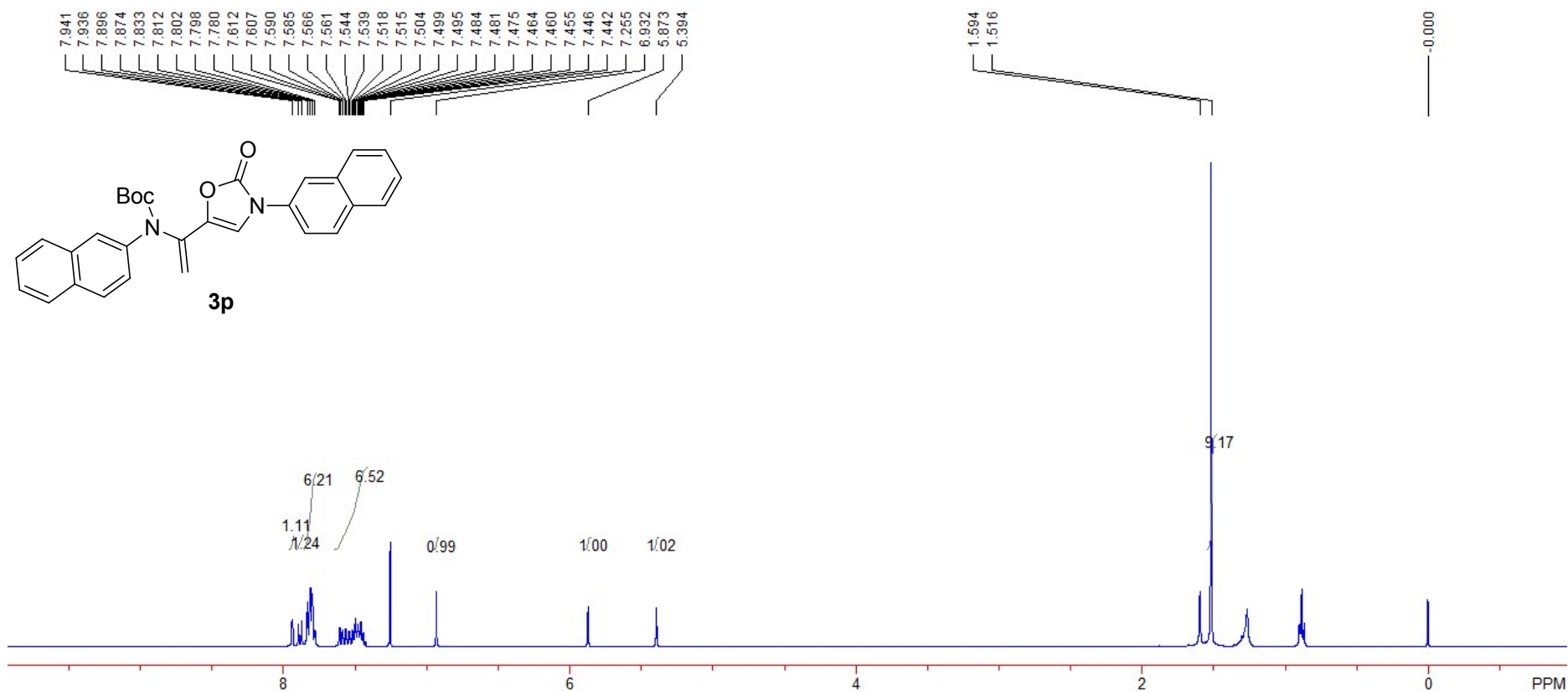
^1H NMR (400Hz, CDCl_3)

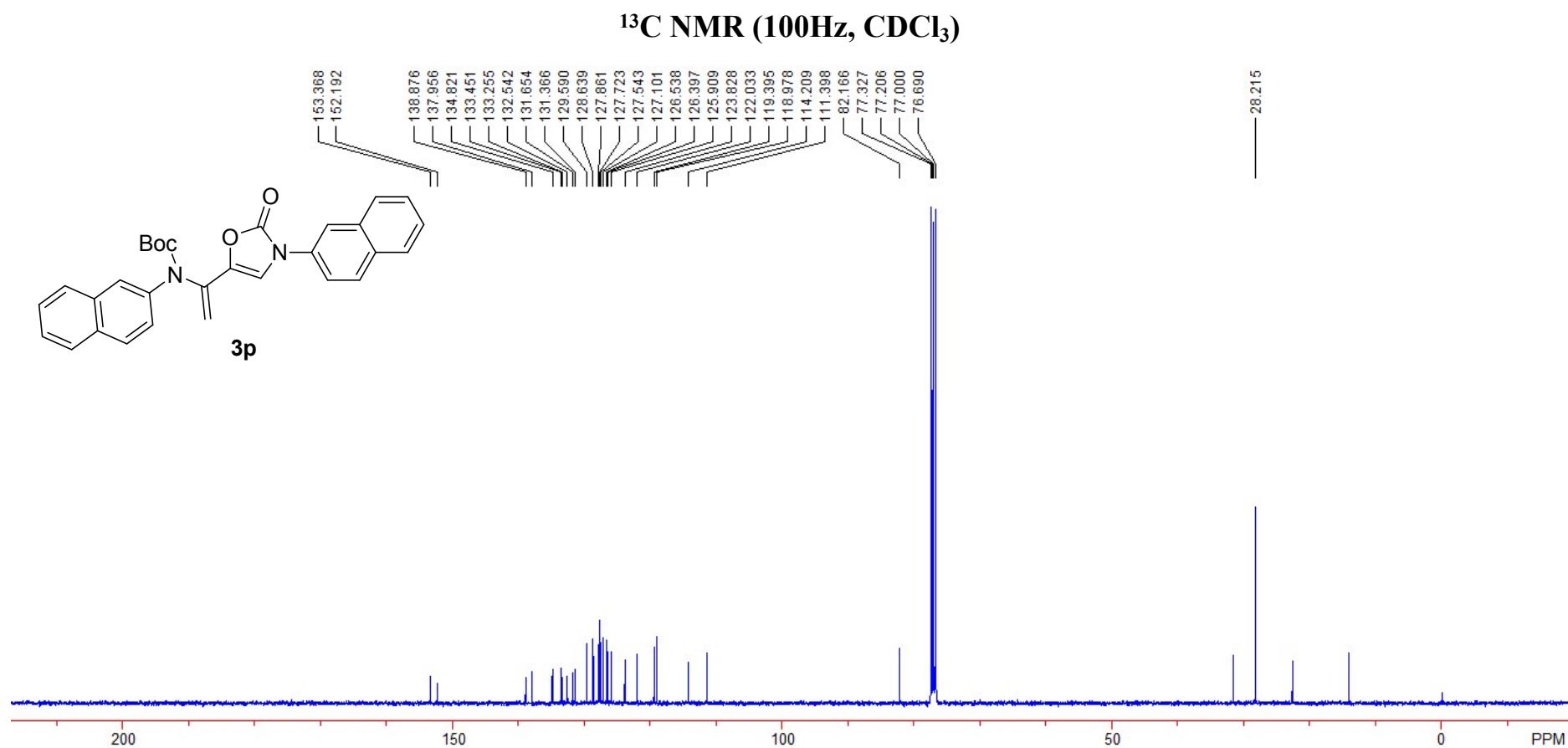


^{13}C NMR (100Hz, CDCl_3)

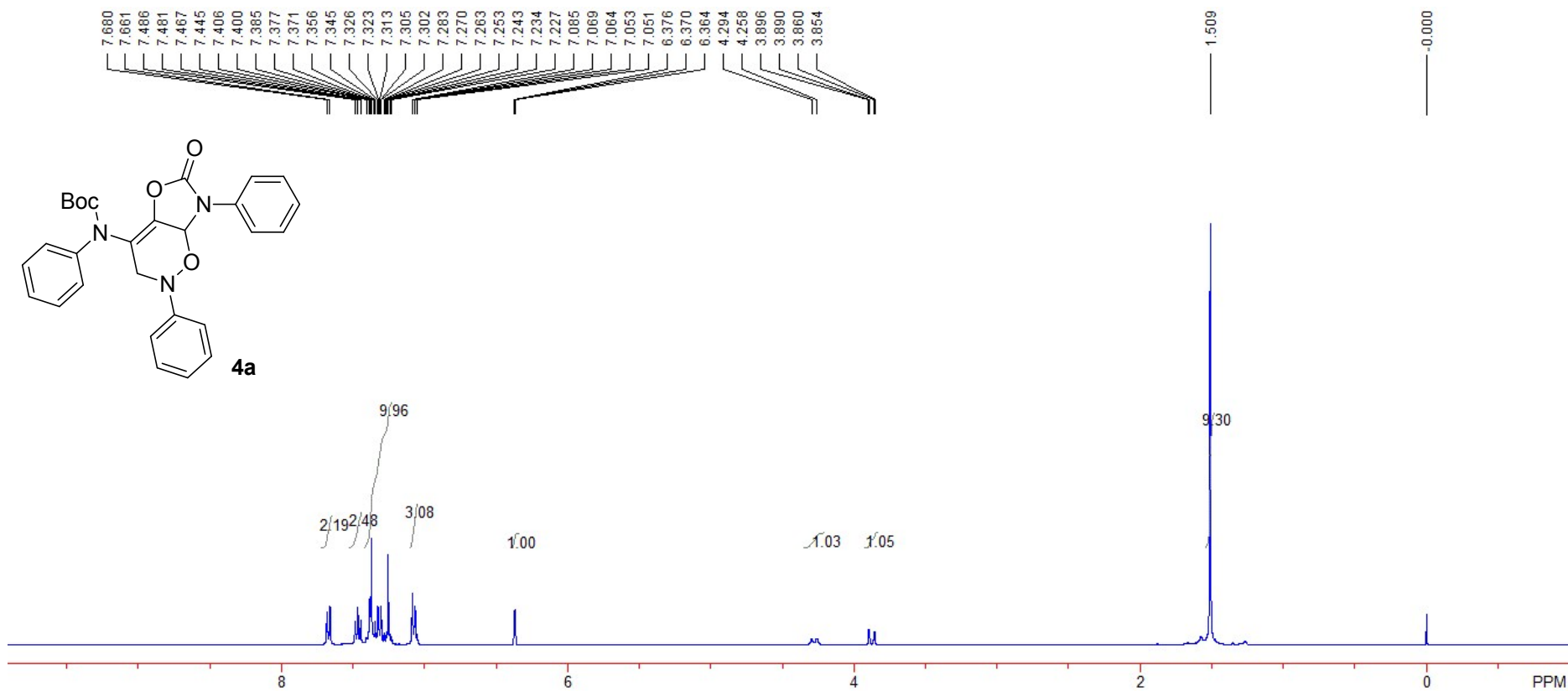


^1H NMR (400Hz, CDCl_3)





¹H NMR (400Hz, CDCl₃)



^{13}C NMR (100Hz, CDCl_3)

