Electronic Supplementary Material (ESI) for RSC Advances.

"Total syntheses of D-*allo*-1-deoxynojirimycin and L-*talo*-1-deoxyonojirimycin *via* reductive cyclisation''

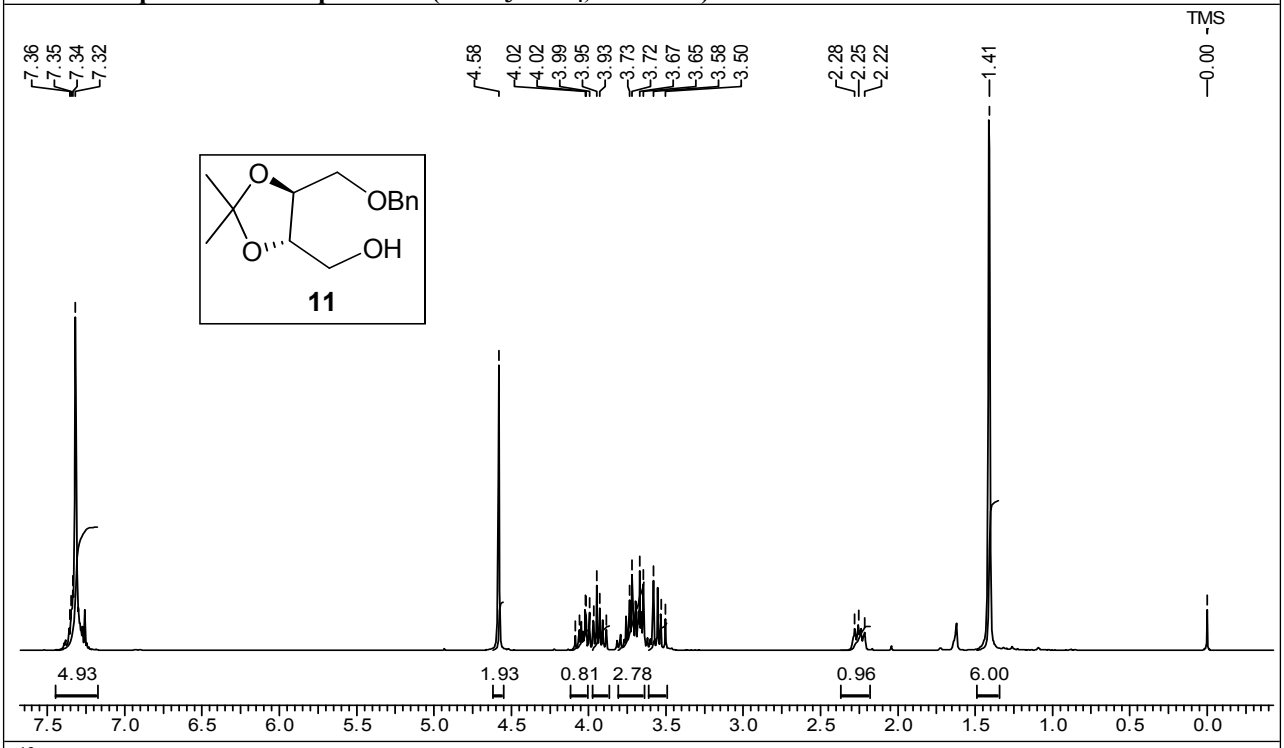
Subhash P. Chavan,* Nilesh B. Dumare and Kailash P. Pawar

Division of Organic Chemistry, CSIR-NCL (National Chemical Laboratory), Pune-411008, India
sp.chavan@ncl.res.in

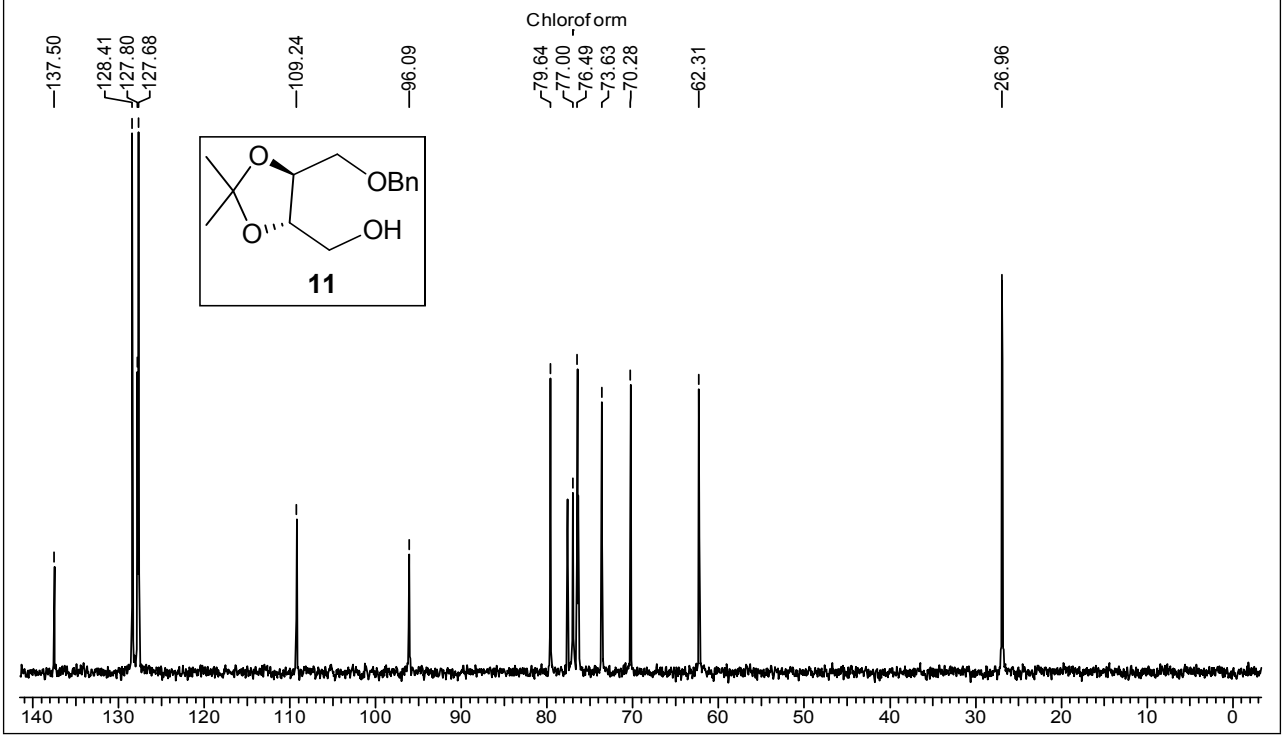
Supporting Information:

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

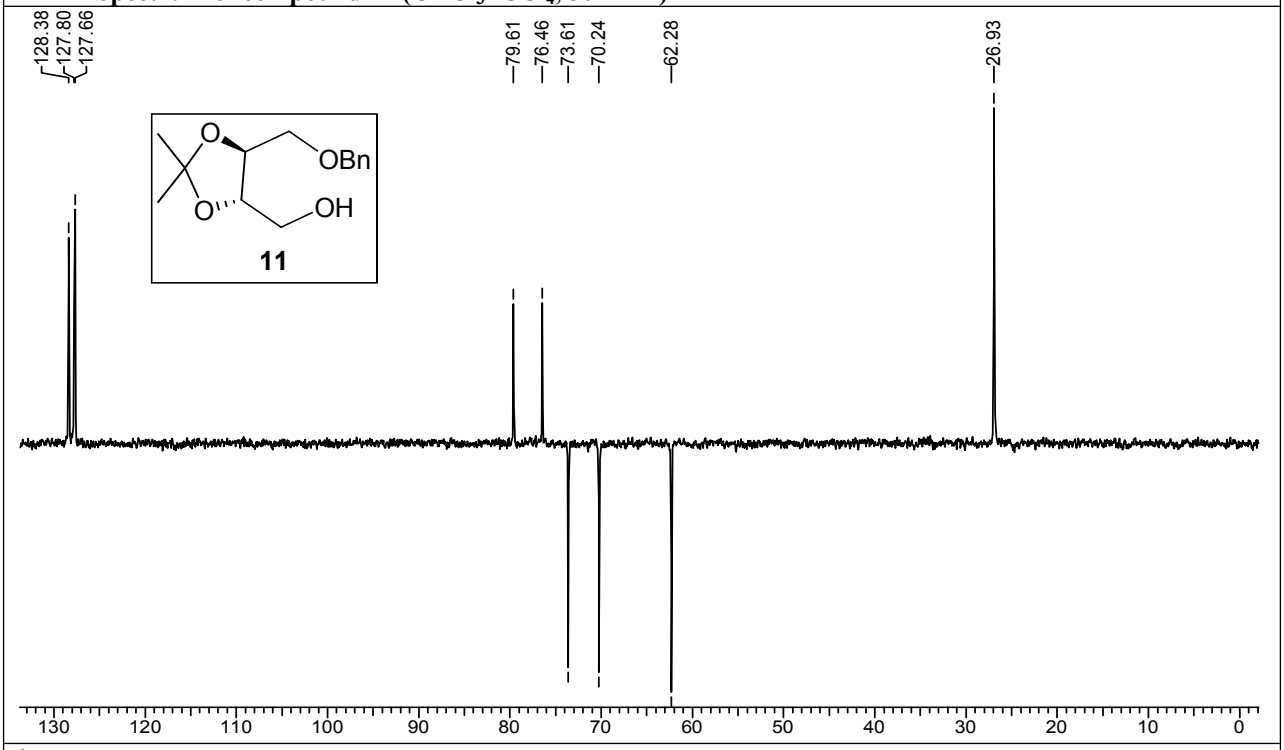
^{1}H NMR Spectrum of compound 11 ($CDCl_3$+CCl_4, 200 MHz)



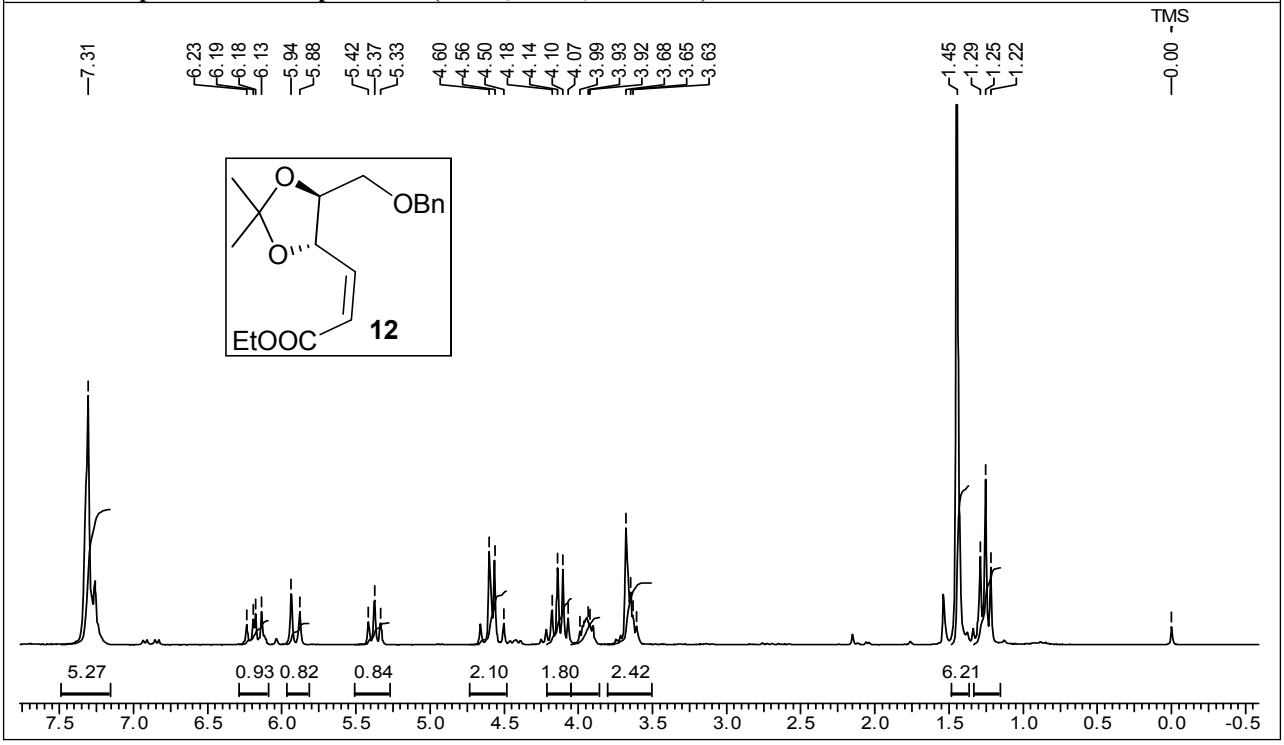
^{13}C NMR Spectrum of compound 11 ($CDCl_3$+CCl_4, 50 MHz)



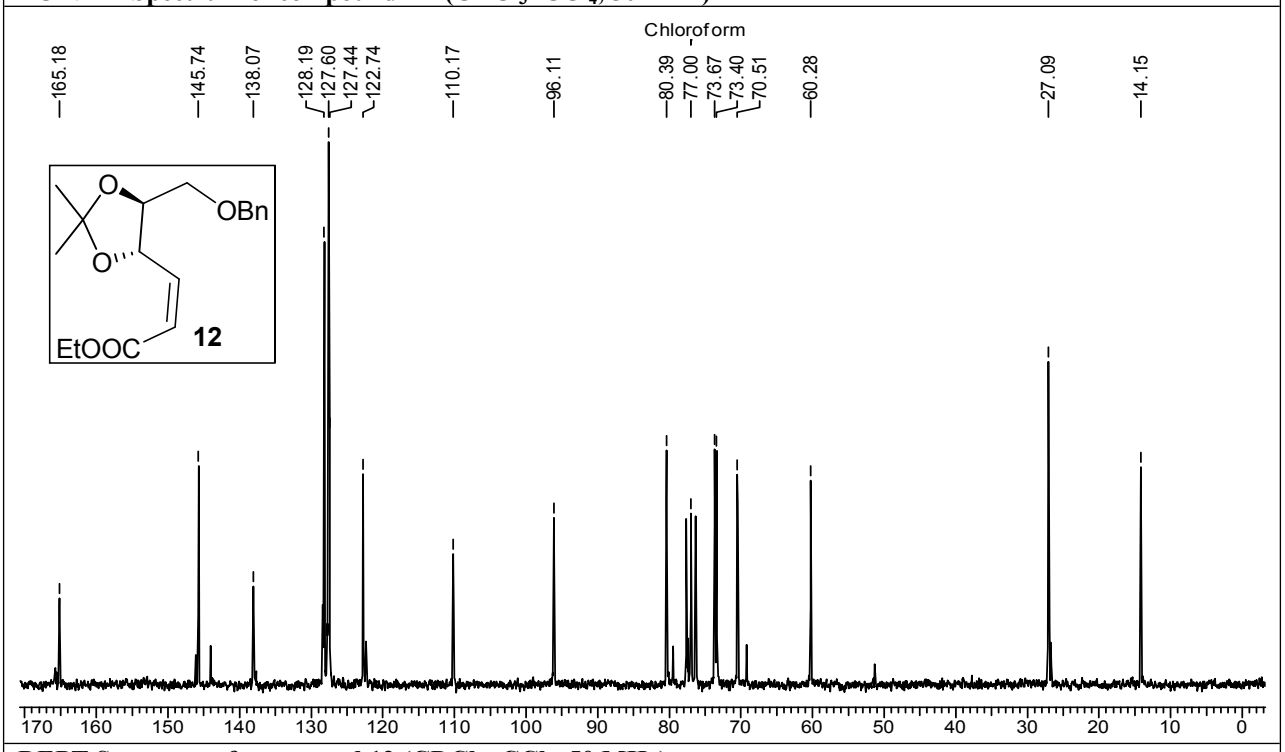
DEPT Spectrum of compound 11 ($CDCl_3$+CCl_4, 50 MHz)



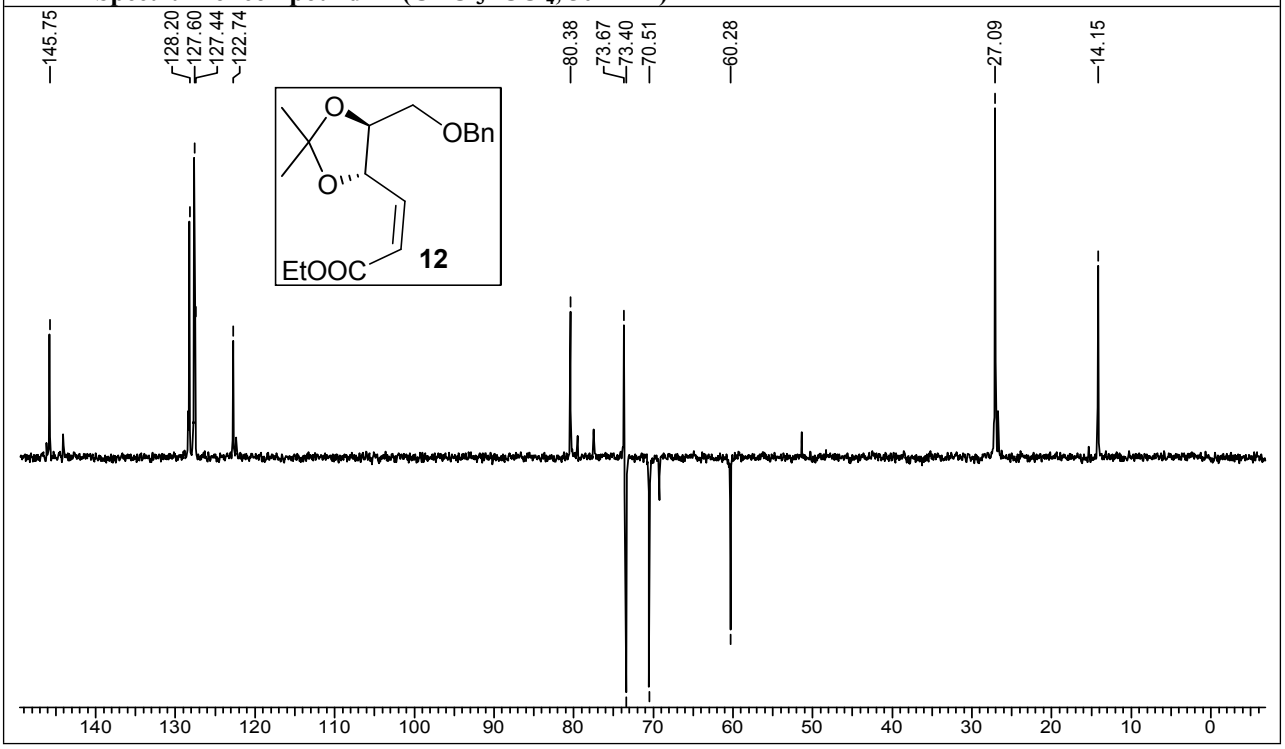
^{1}H NMR Spectrum of compound 12 ($CDCl_3$+CCl_4, 200 MHz)



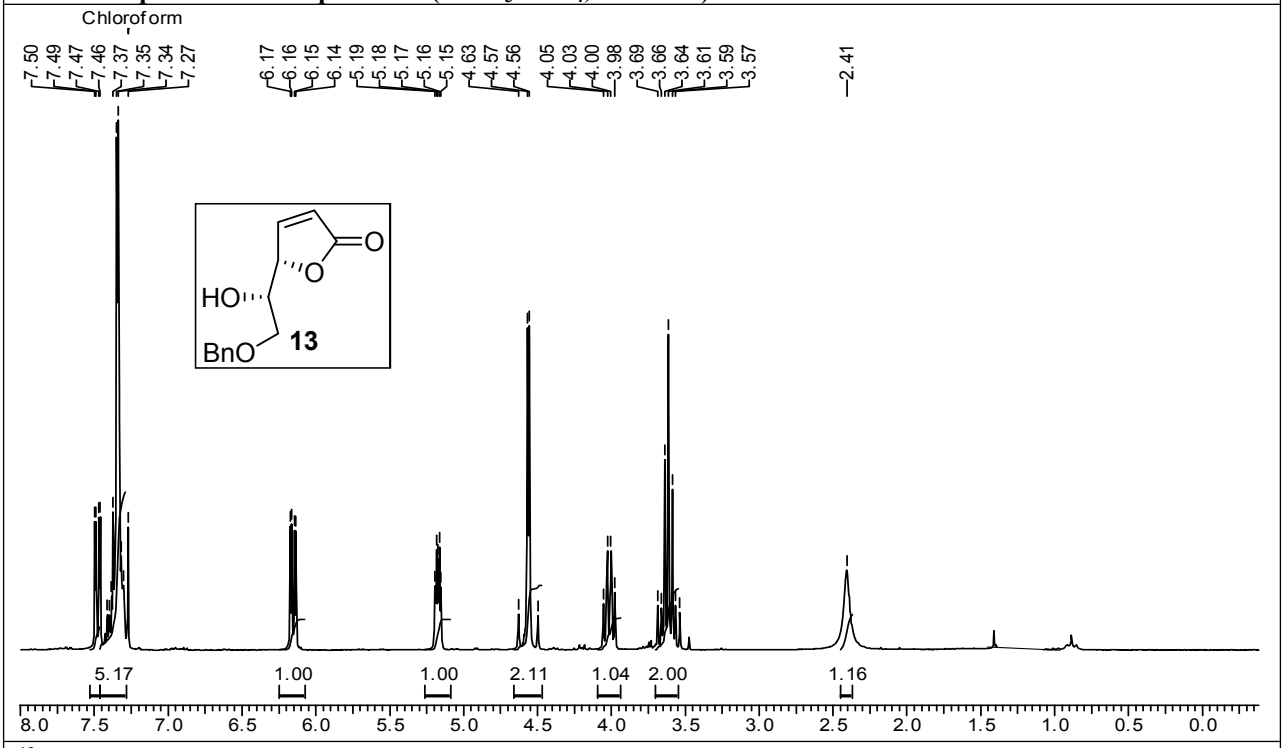
^{13}C NMR Spectrum of compound 12 ($CDCl_3$+CCl_4, 50 MHz)



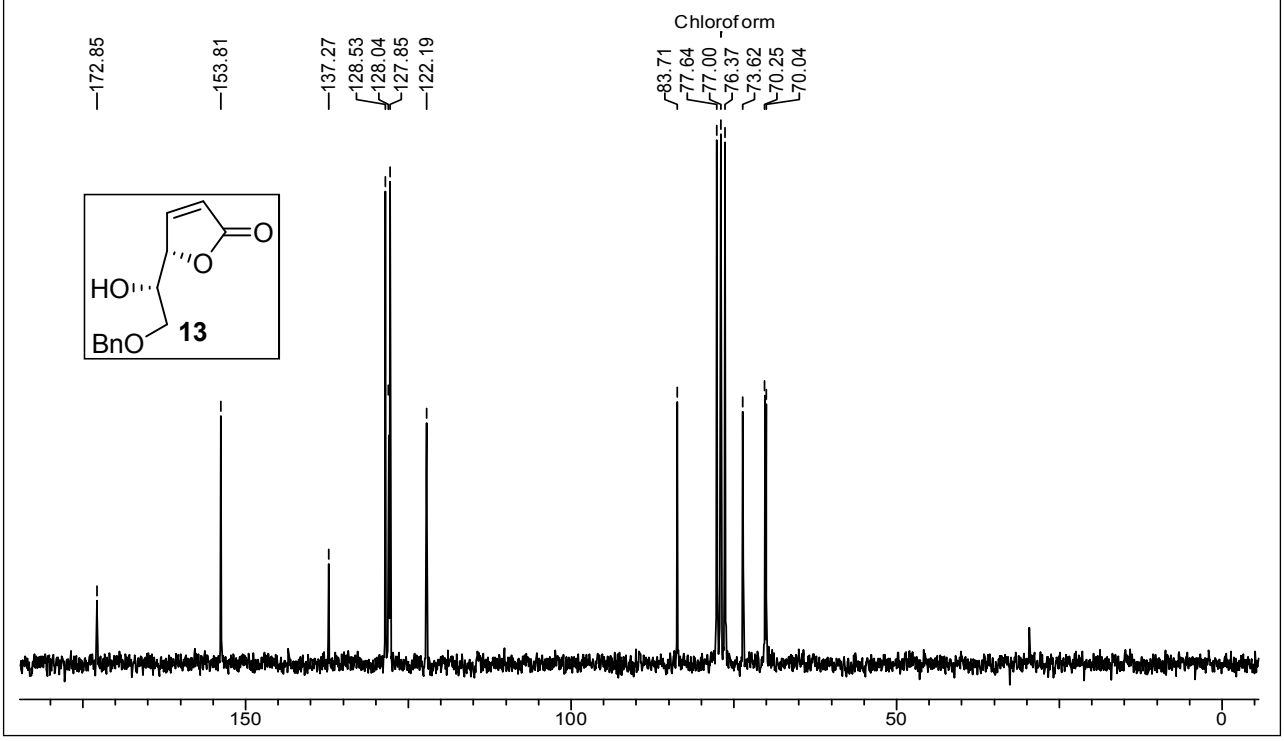
DEPT Spectrum of compound 12 ($CDCl_3$+CCl_4, 50 MHz)



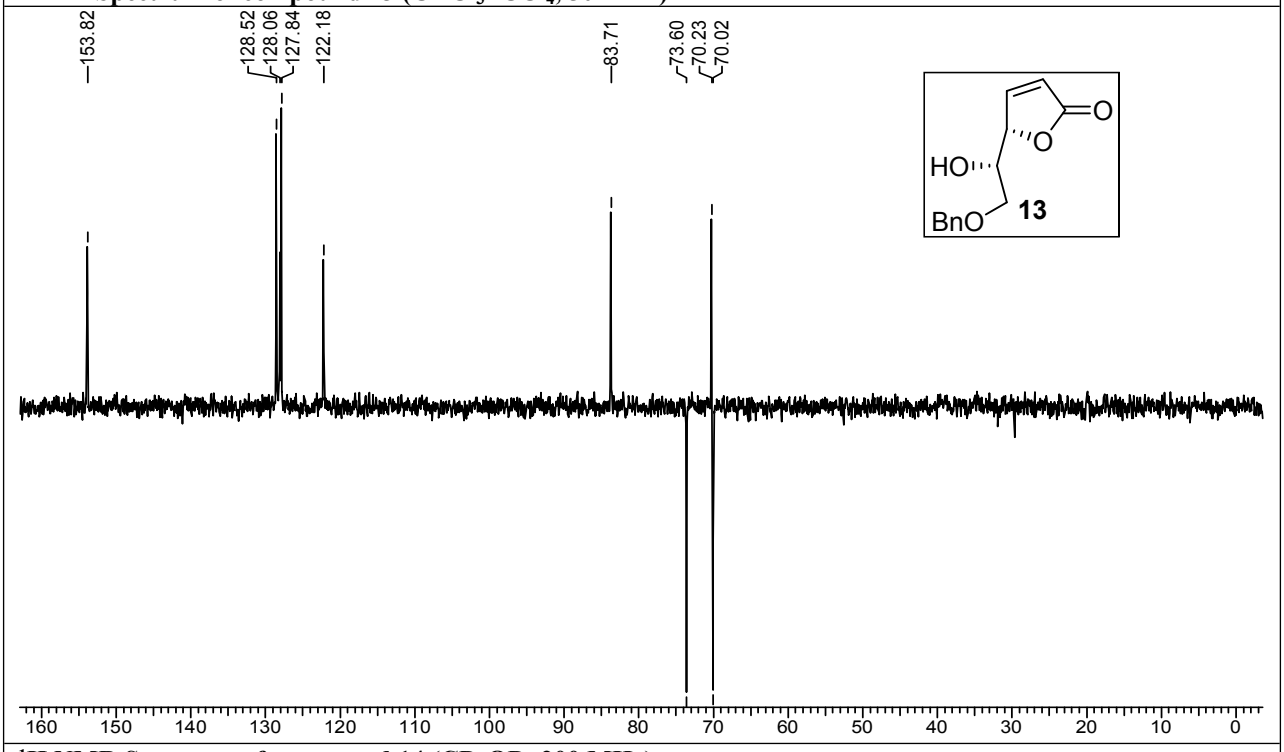
^{1}H NMR Spectrum of compound 13 ($CDCl_3$+CCl_4, 200 MHz)



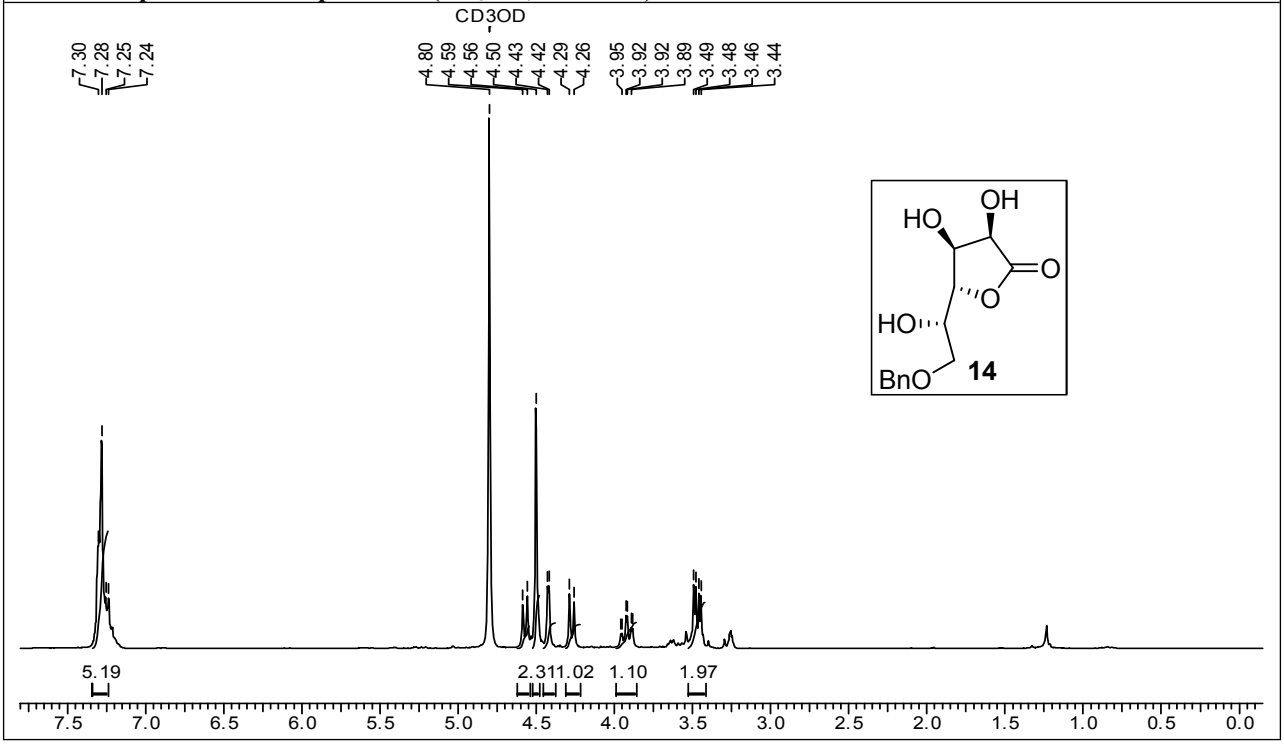
^{13}C NMR Spectrum of compound 13 ($CDCl_3$+CCl_4, 50 MHz)



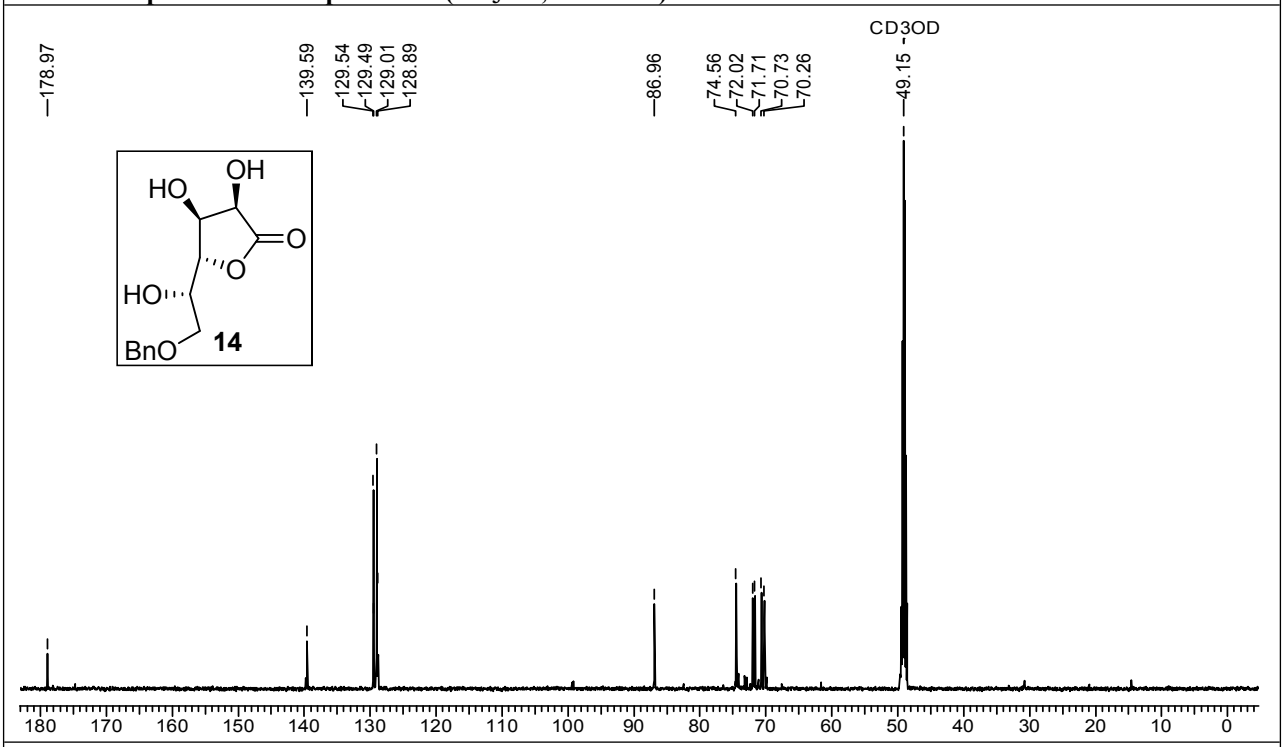
DEPT Spectrum of compound 13 ($CDCl_3$+CCl_4, 50 MHz)



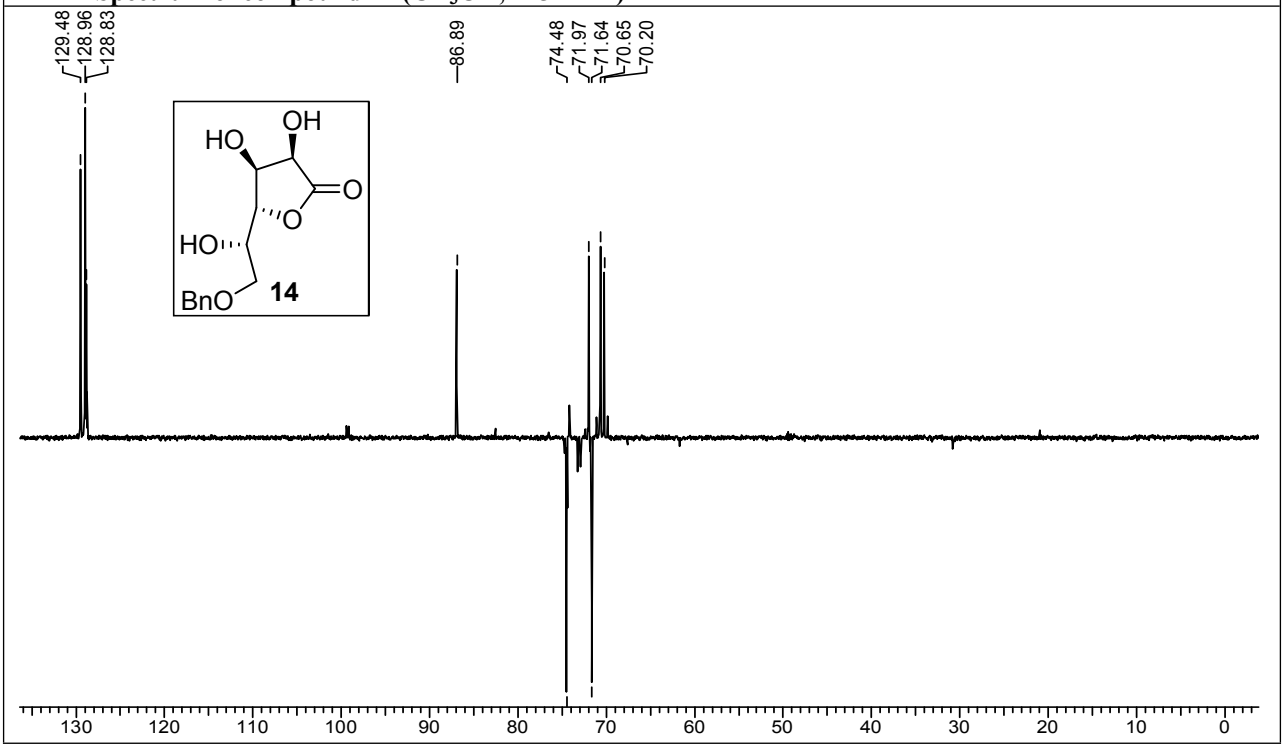
^{1}H NMR Spectrum of compound 14 (CD_3OD, 200 MHz)



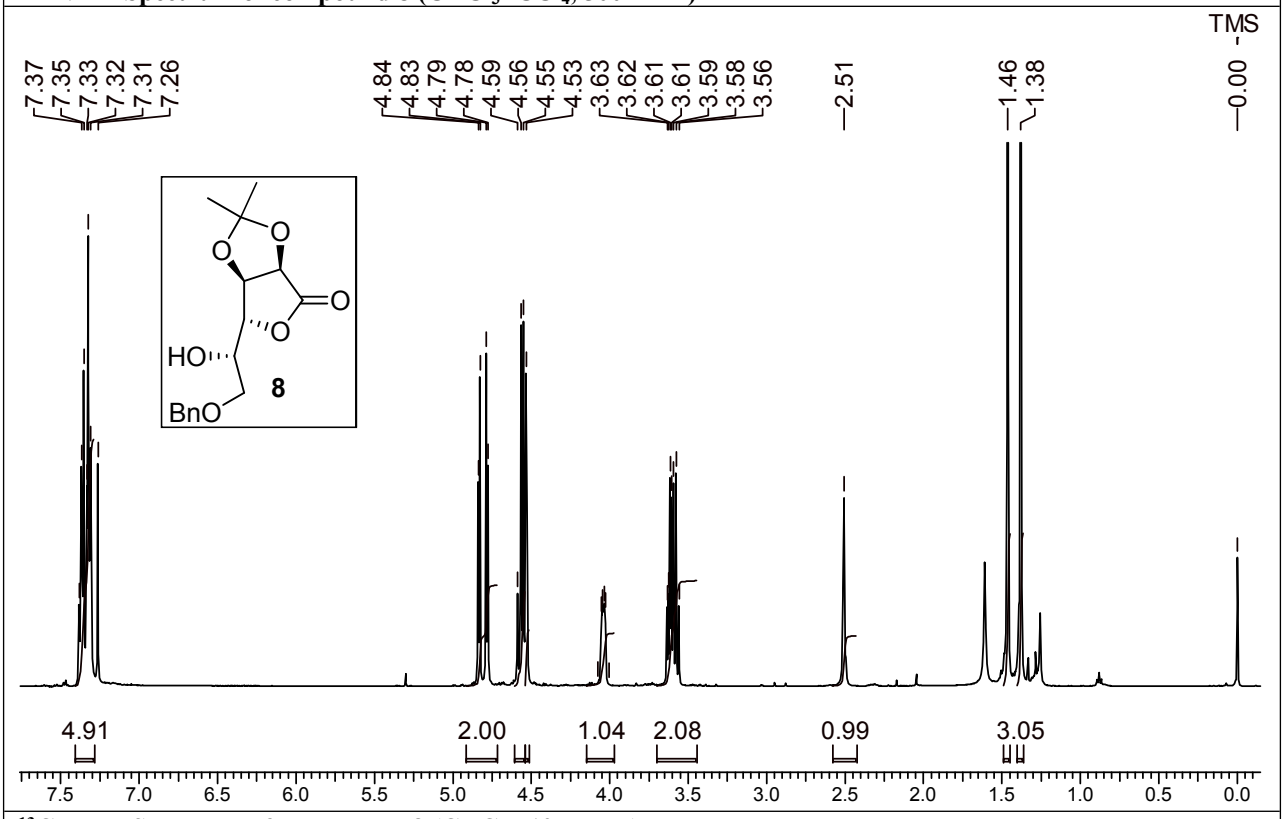
^{13}C NMR Spectrum of compound 14 (CD_3OD, 125 MHz)



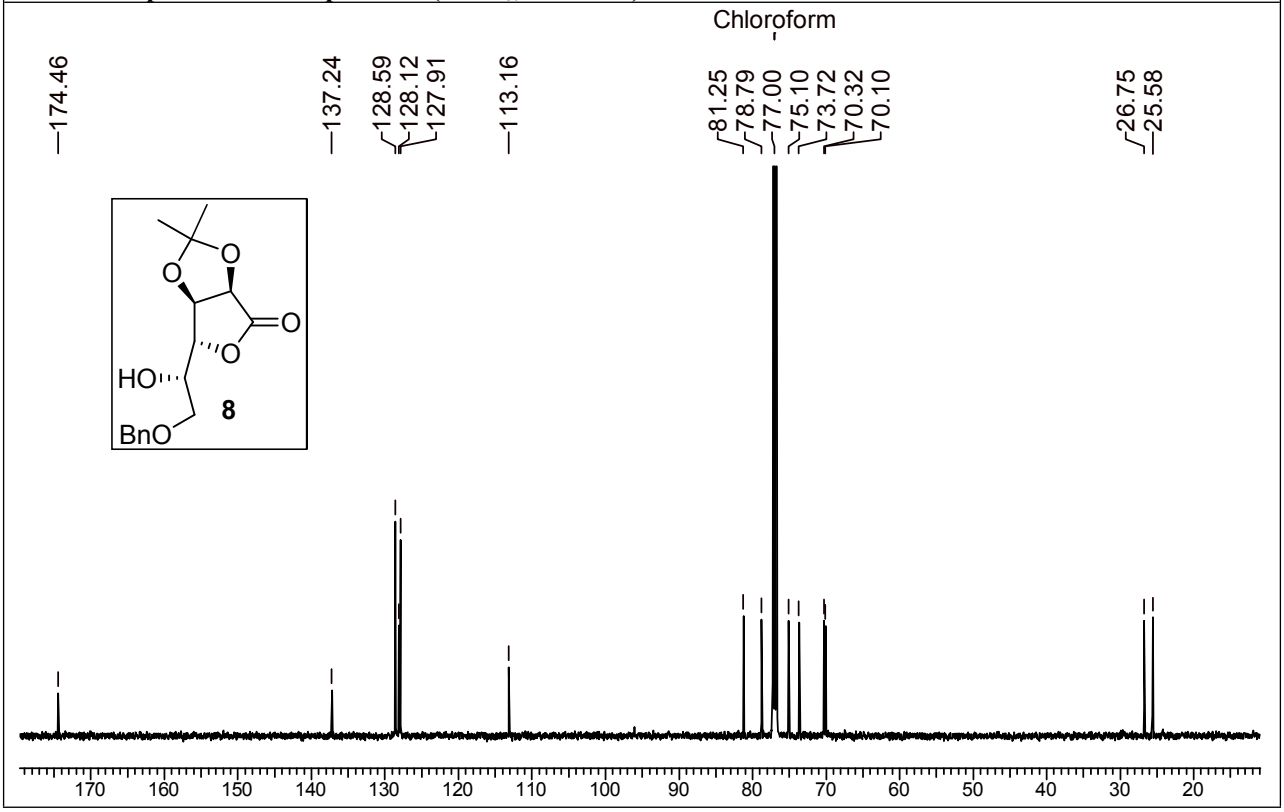
DEPT Spectrum of compound 14 (CD_3OD, 125 MHz)



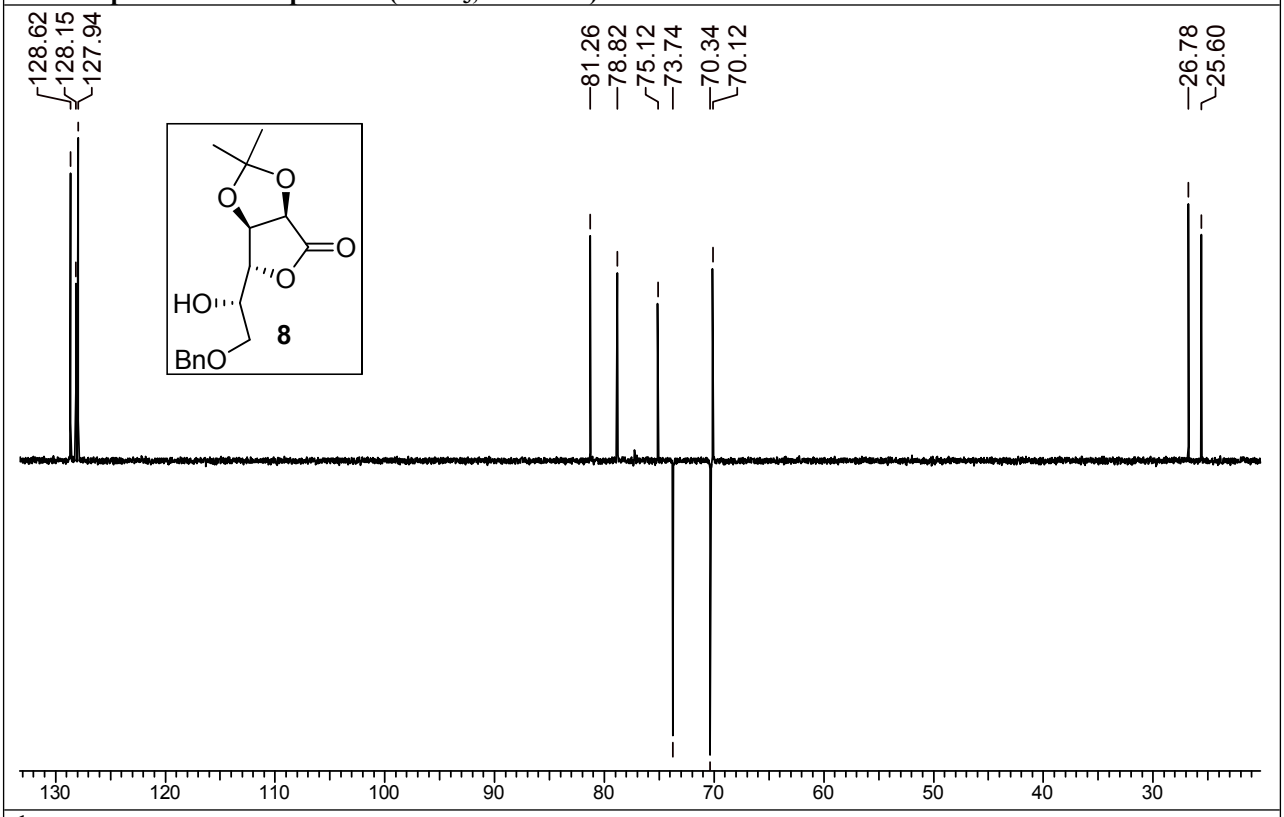
^{1}H NMR Spectrum of compound 8 ($CDCl_3$+CCl_4, 500 MHz)



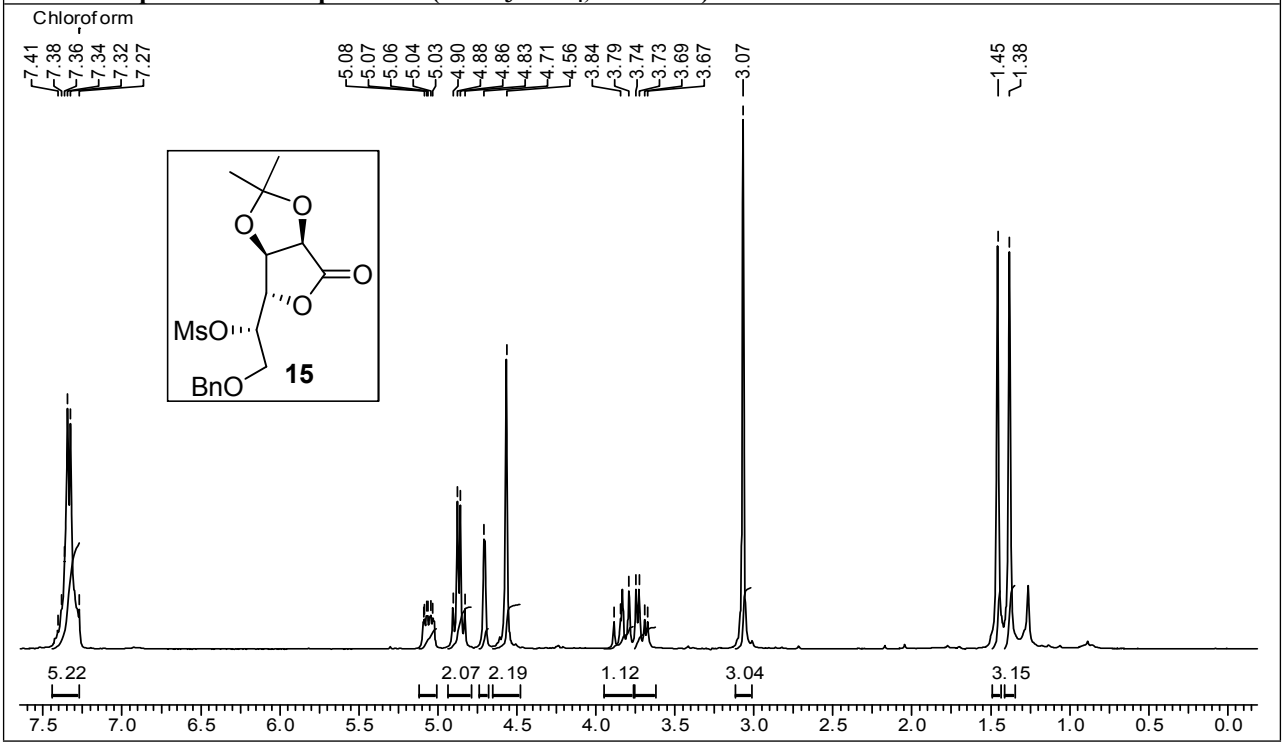
^{13}C NMR Spectrum of compound 8 ($CDCl_3$, 125 MHz)



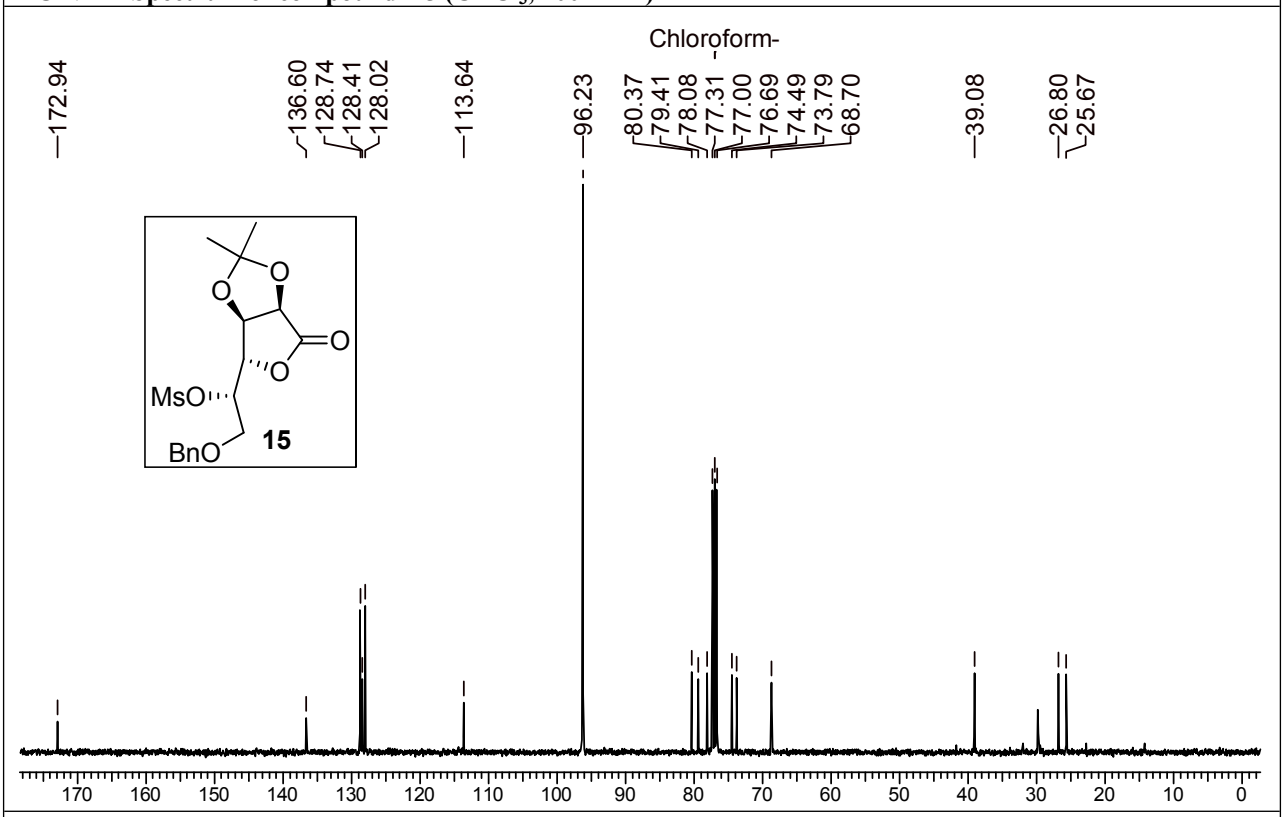
DEPT Spectrum of compound 8 ($CDCl_3$, 125 MHz)



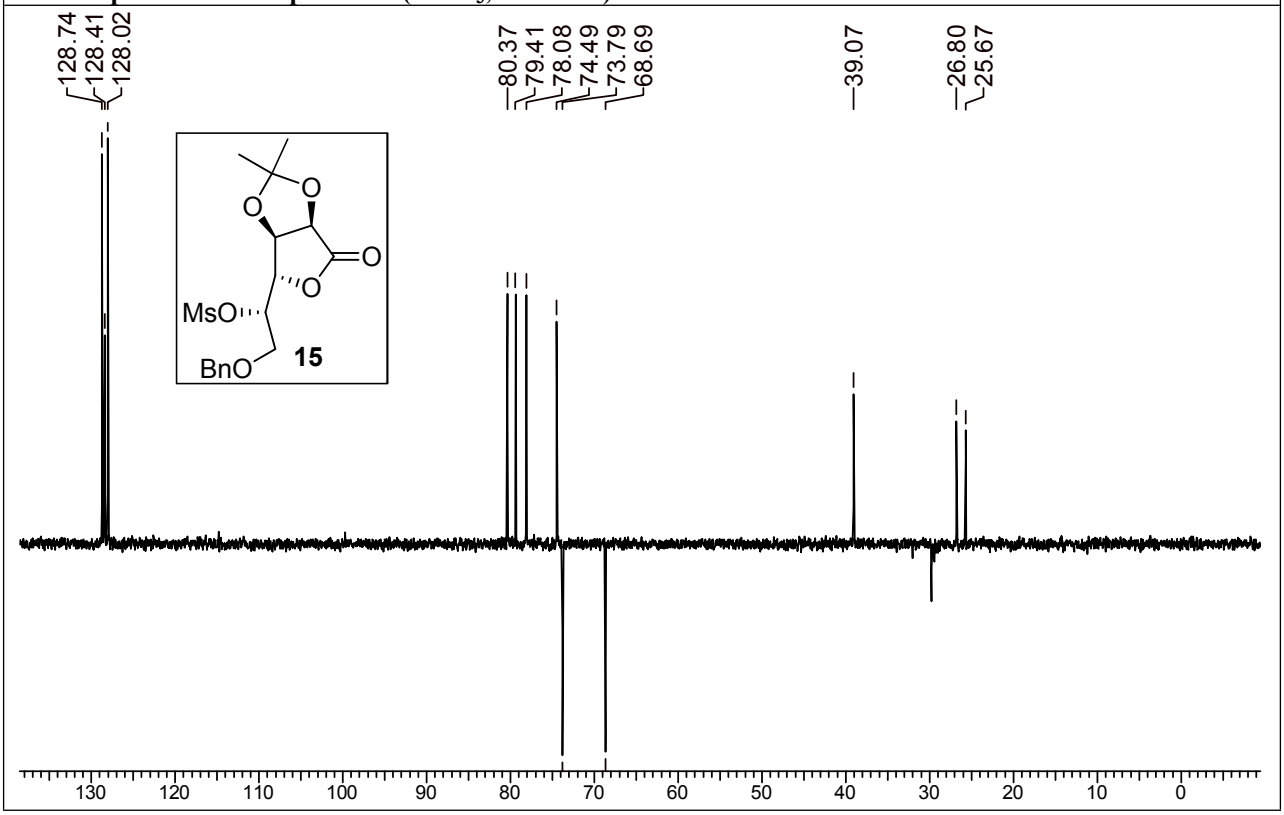
^{1}H NMR Spectrum of compound 15 ($CDCl_3$+CCl_4, 200 MHz)



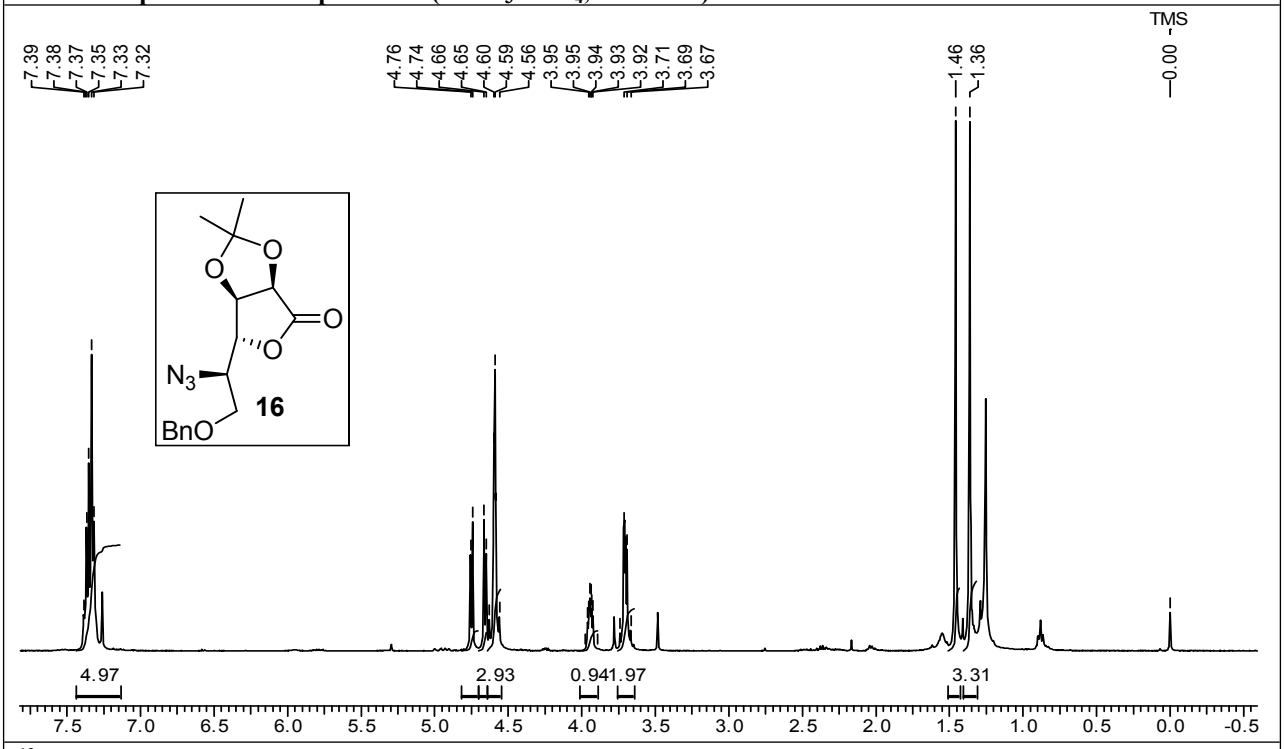
^{13}C NMR Spectrum of compound 15 ($CDCl_3$, 100 MHz)



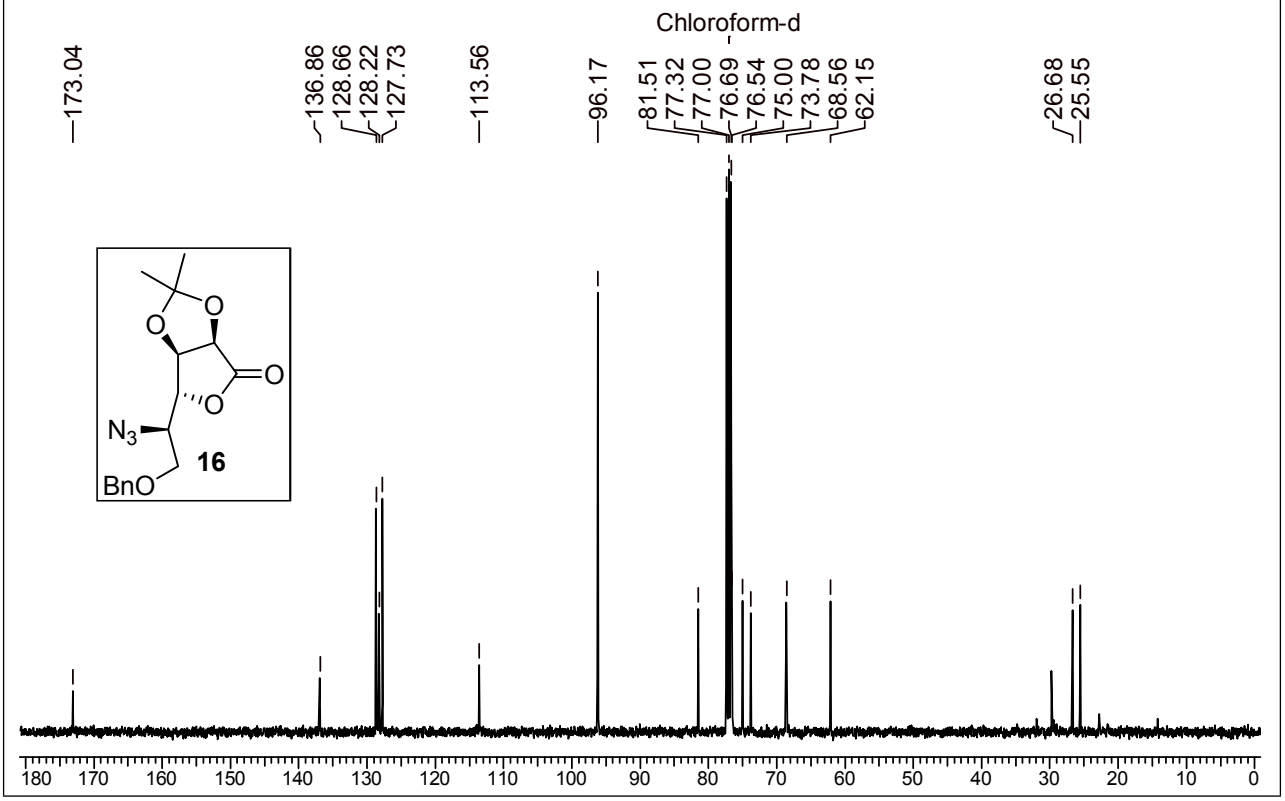
DEPT Spectrum of compound 15 ($CDCl_3$, 100 MHz)



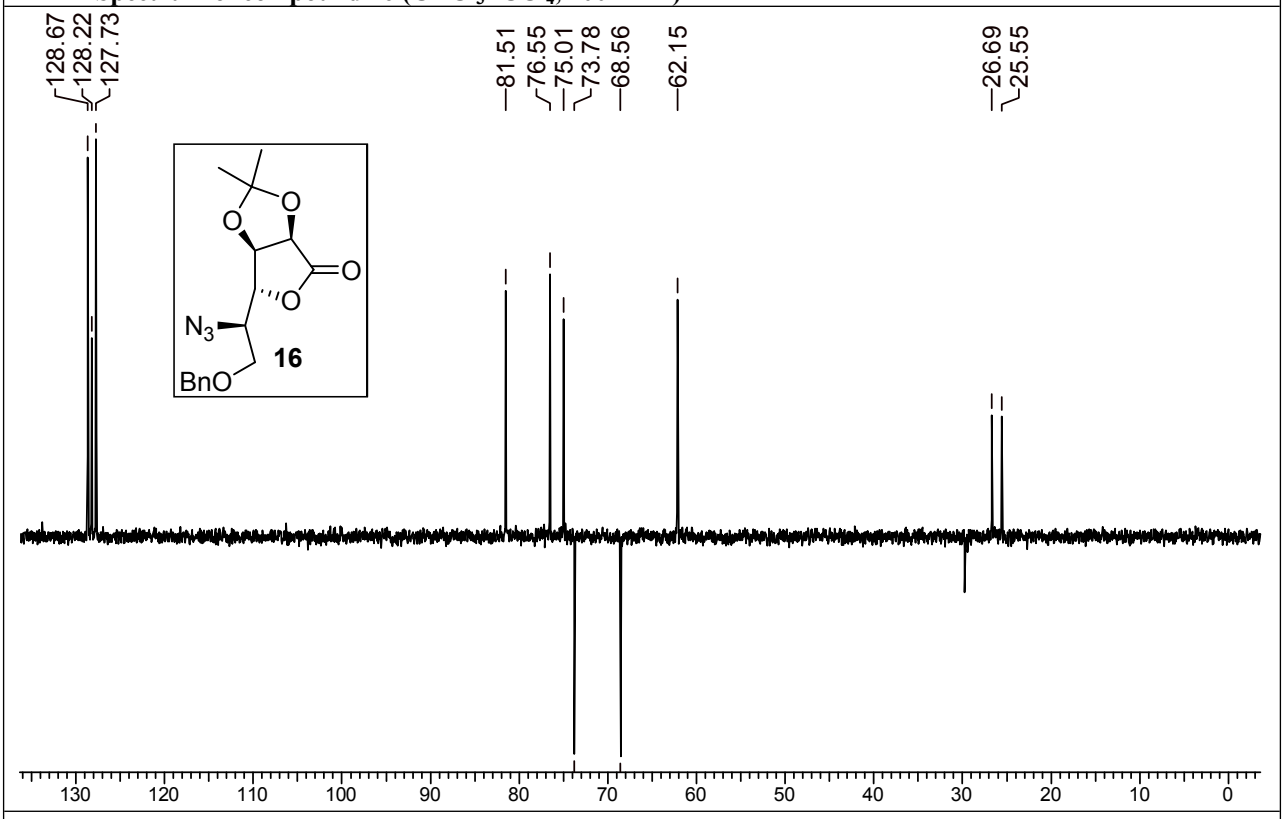
^{1}H NMR Spectrum of compound 15 ($CDCl_3$+CCl_4, 400 MHz)



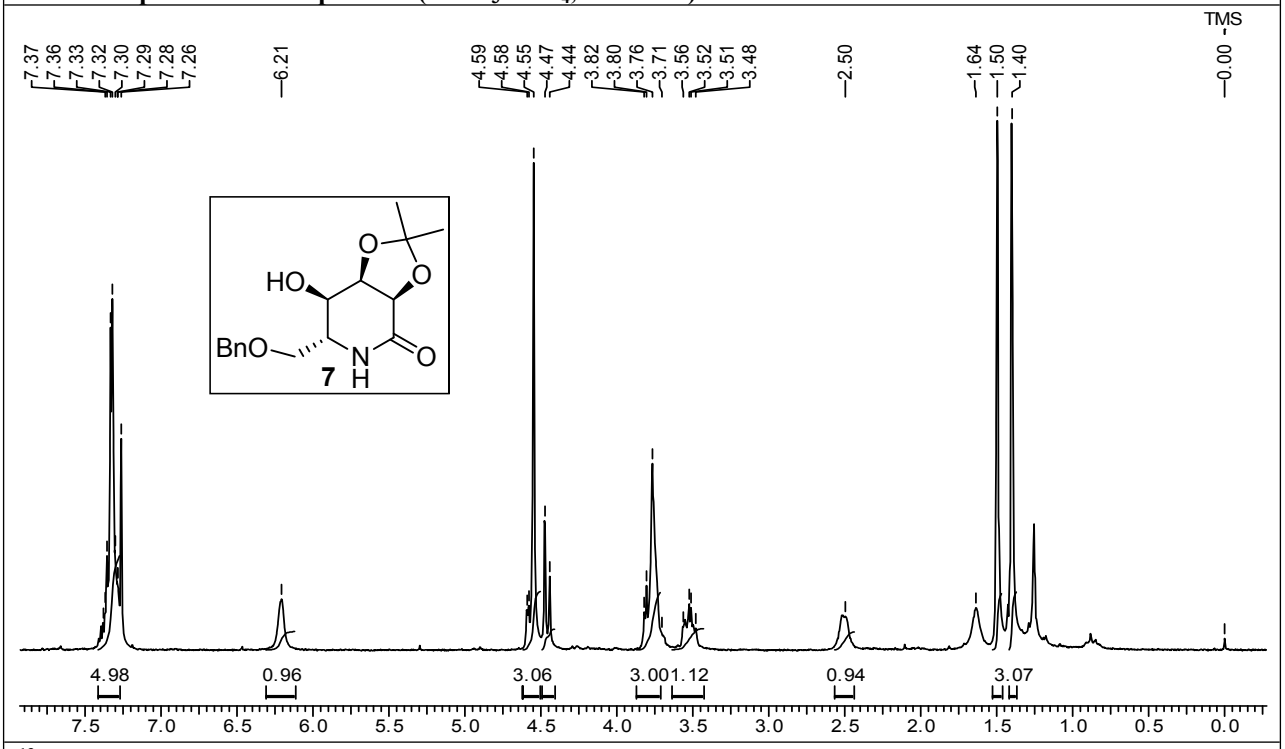
^{13}C NMR Spectrum of compound 16 ($CDCl_3$+CCl_4, 100 MHz)



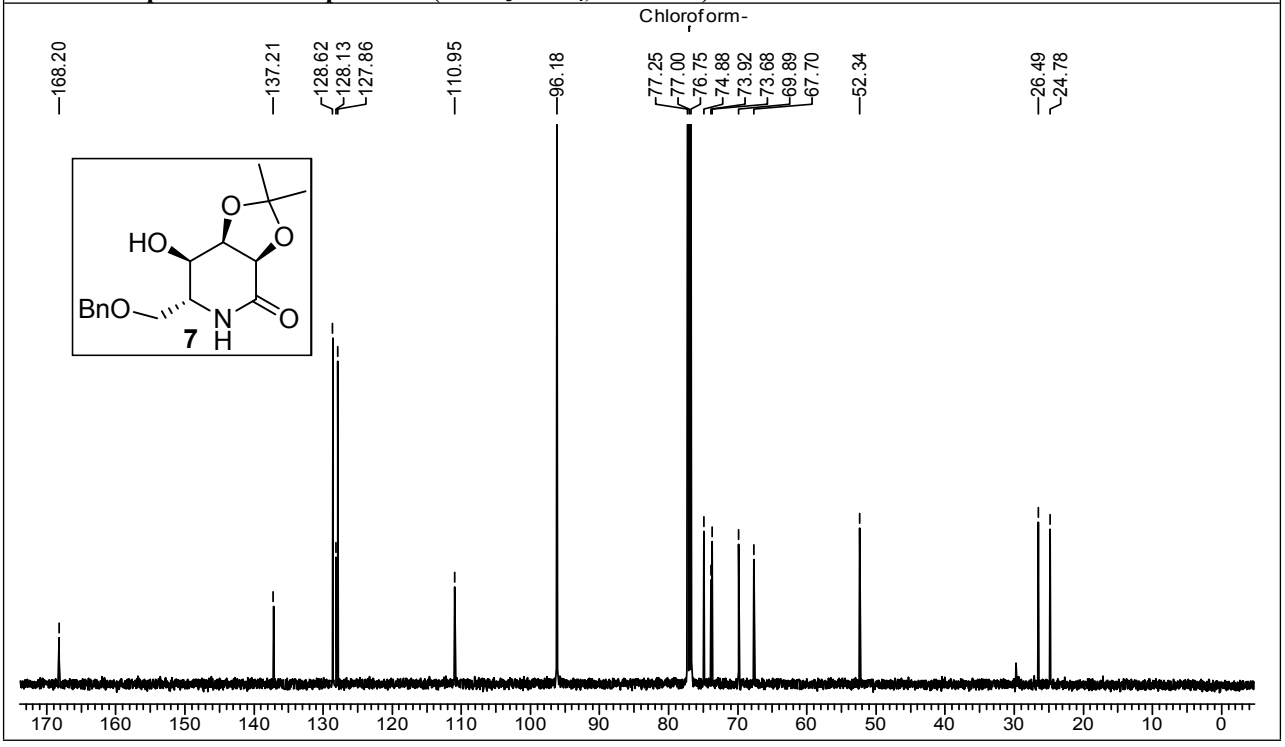
DEPT Spectrum of compound 16 ($CDCl_3$+CCl_4, 100 MHz)



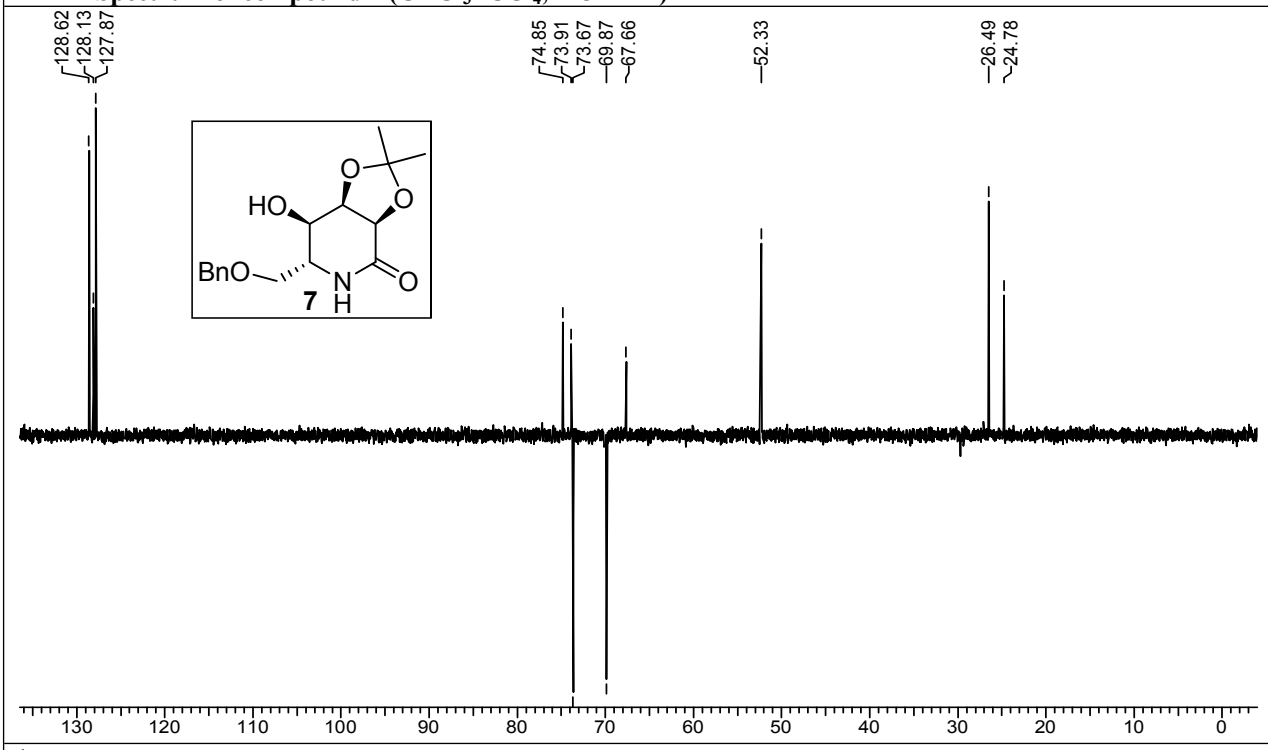
^{1}H NMR Spectrum of compound 7 ($CDCl_3$+CCl_4, 200 MHz)



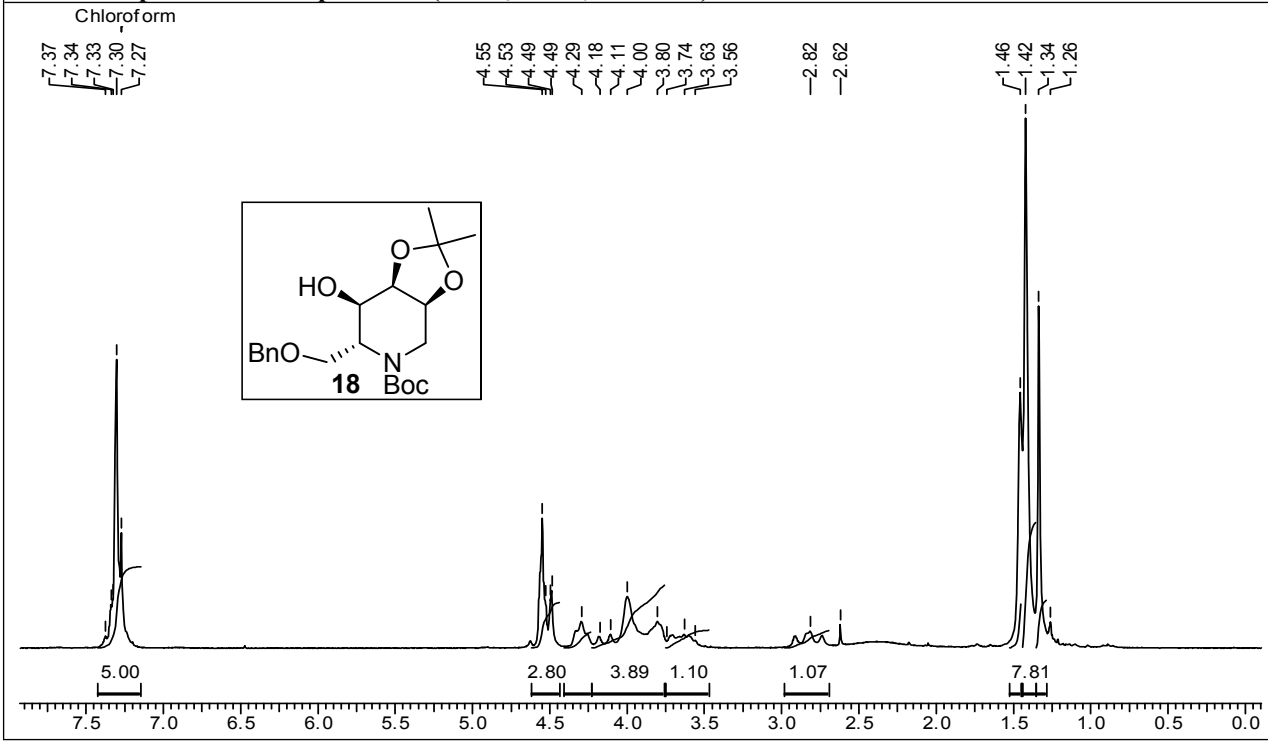
^{13}C NMR Spectrum of compound 7 ($CDCl_3$+CCl_4, 125 MHz)



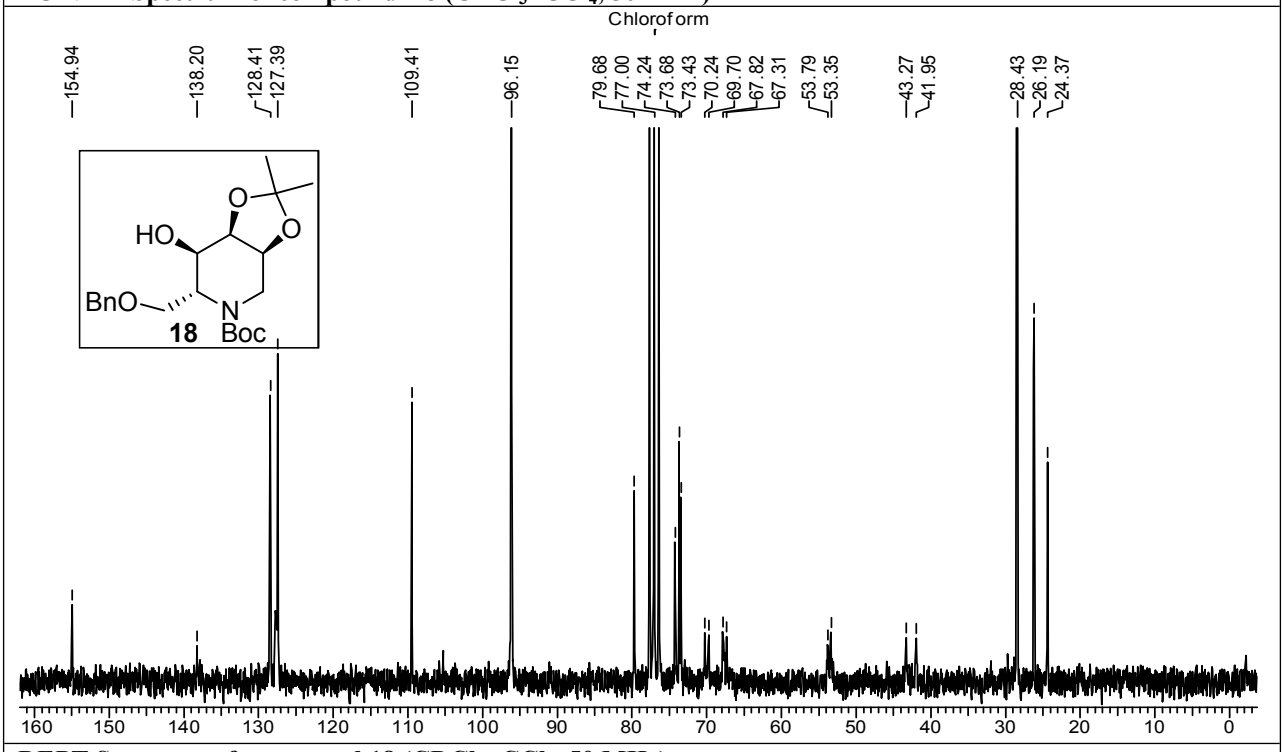
DEPT Spectrum of compound 7 ($CDCl_3$+CCl_4, 125 MHz)



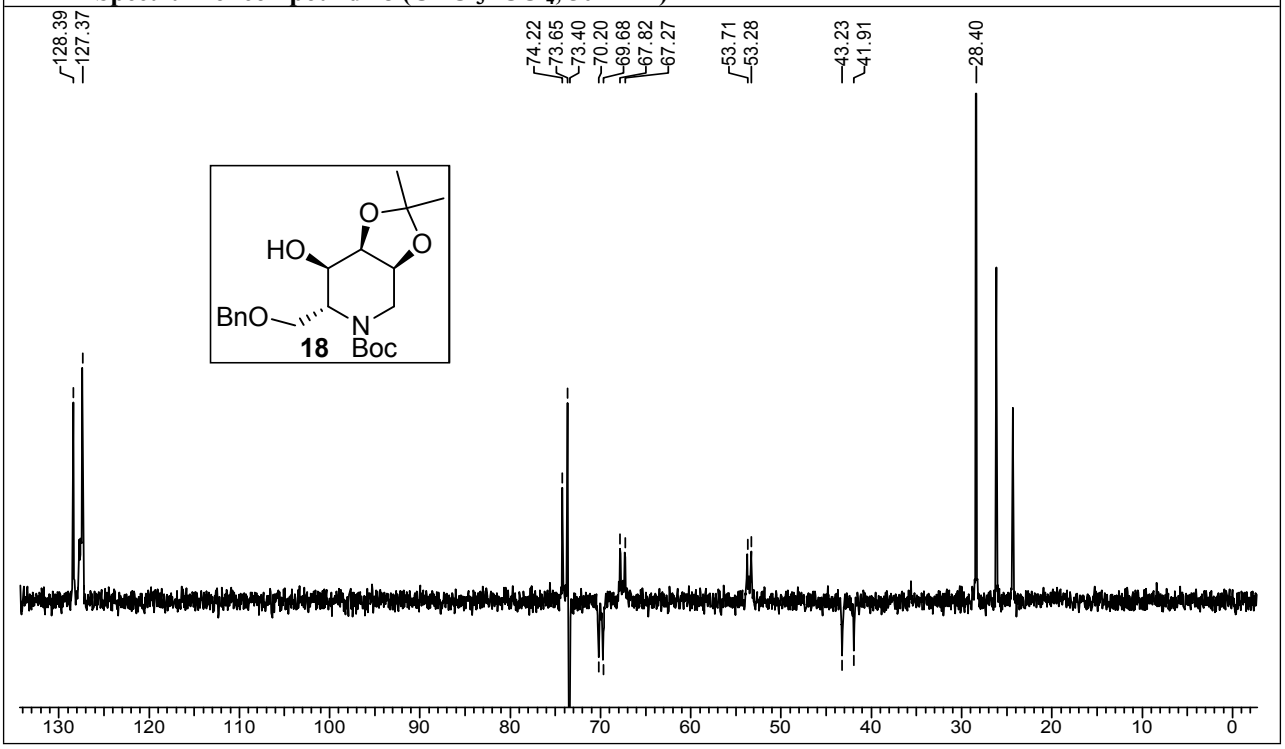
^{1}H NMR Spectrum of compound 18 ($CDCl_3$+CCl_4, 200 MHz)



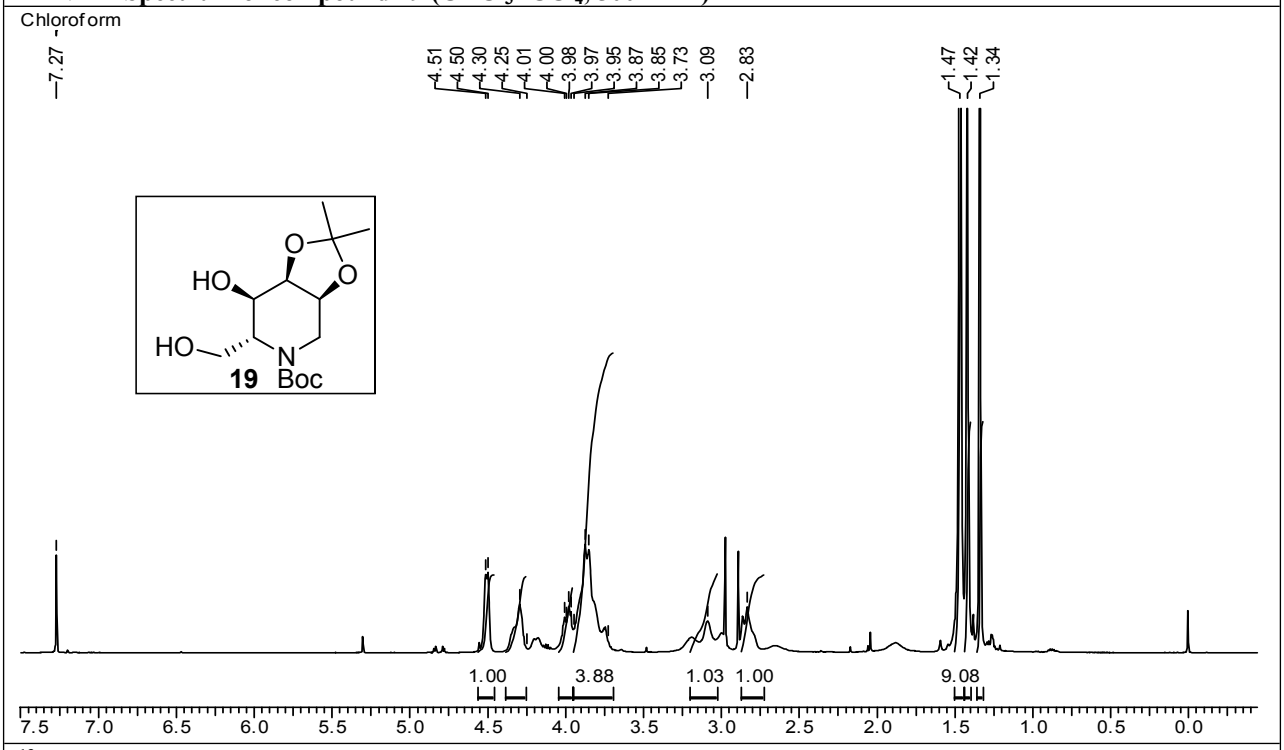
^{13}C NMR Spectrum of compound 18 ($CDCl_3$+CCl_4, 50 MHz)



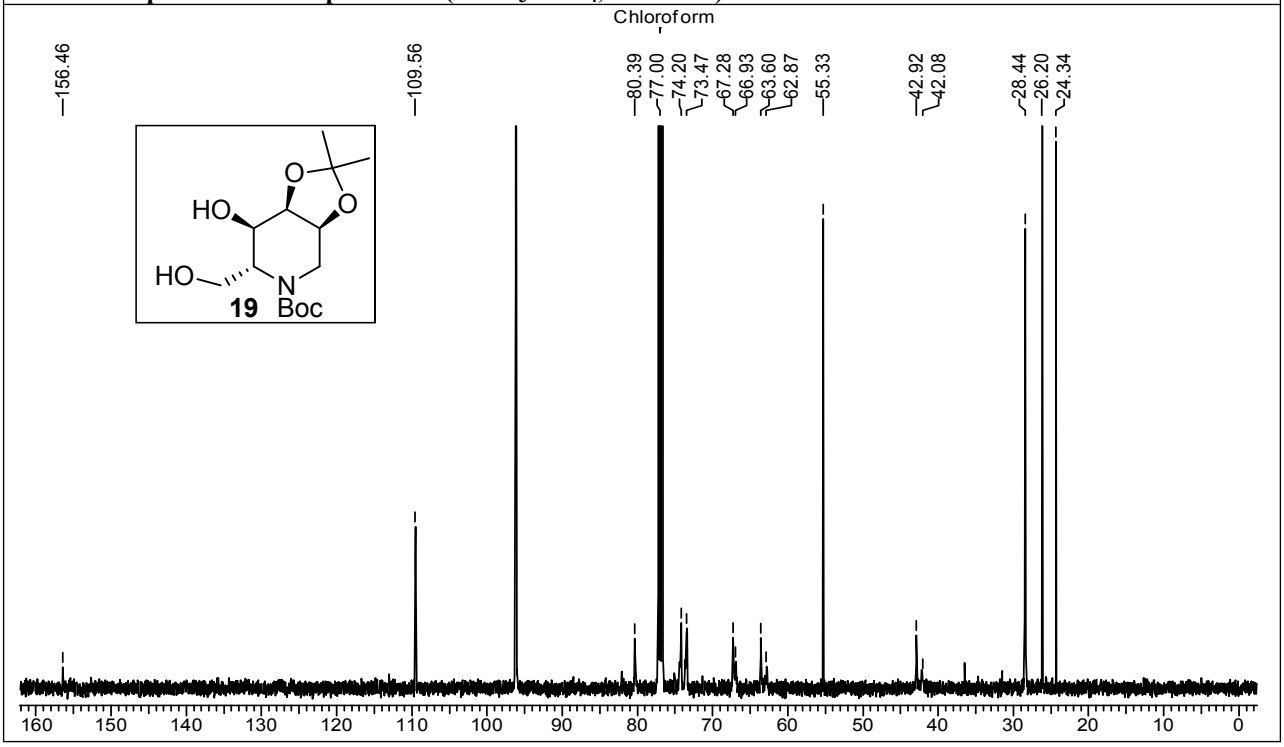
DEPT Spectrum of compound 18 ($CDCl_3$+CCl_4, 50 MHz)



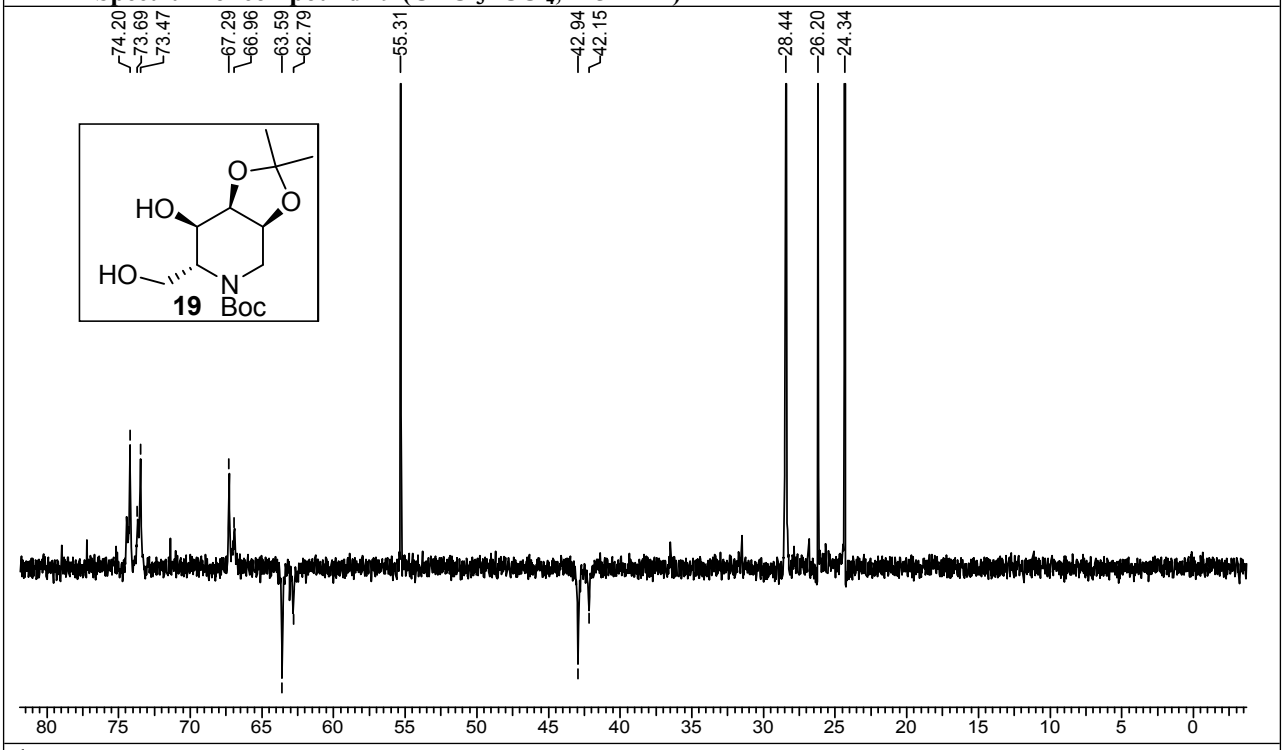
^{1}H NMR Spectrum of compound 19 ($CDCl_3$+CCl_4, 500 MHz)



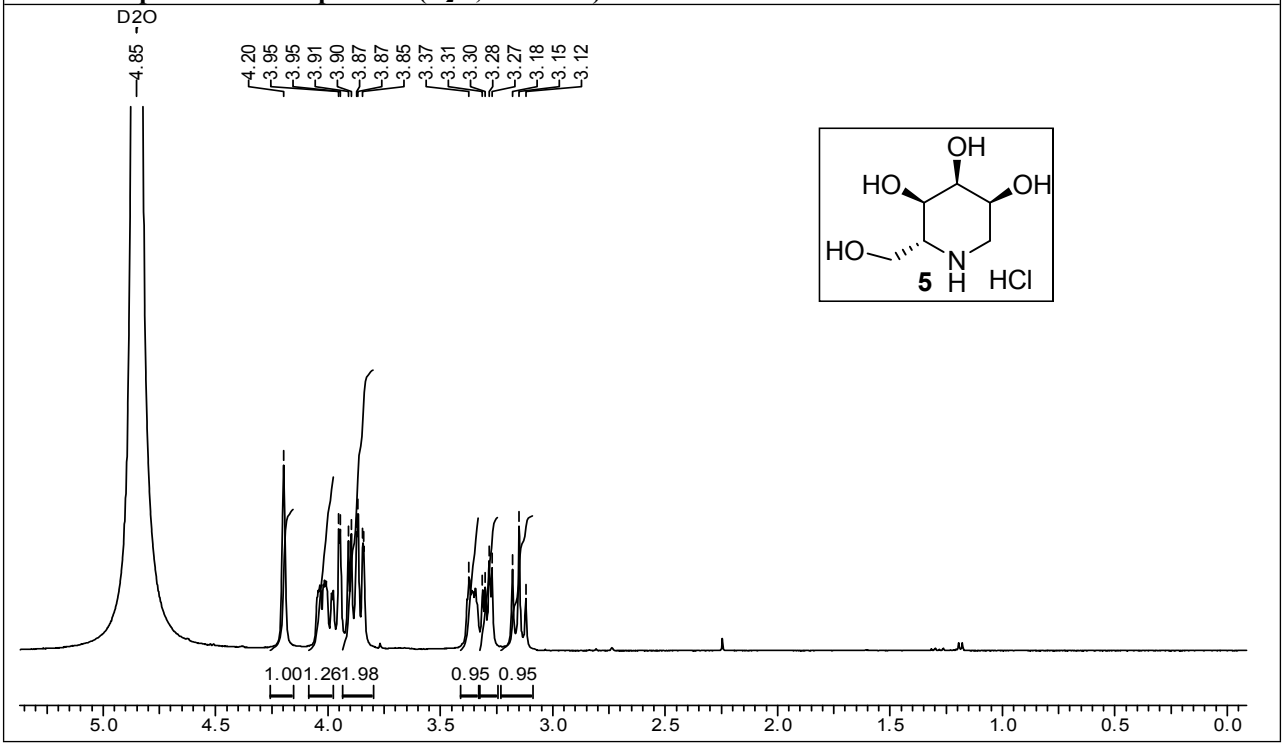
^{13}C NMR Spectrum of compound 19 ($CDCl_3$+CCl_4, 125 MHz)



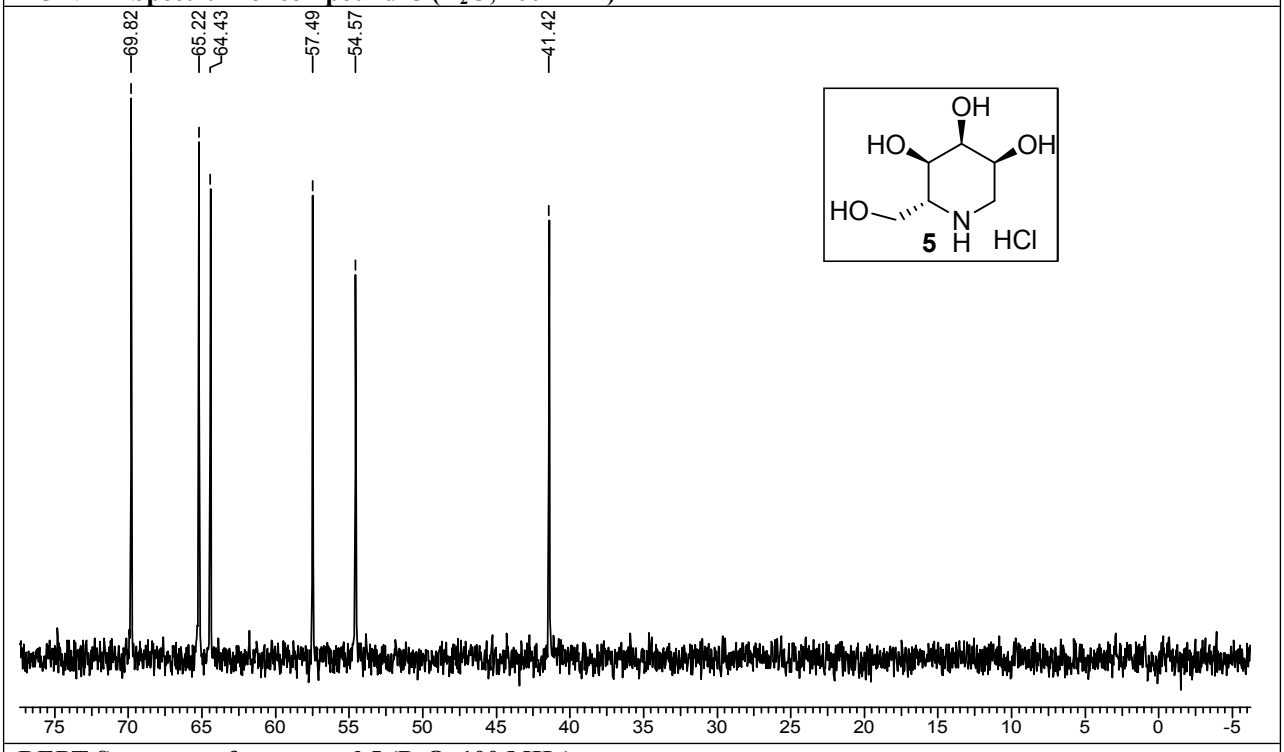
DEPT Spectrum of compound 19 ($CDCl_3$+CCl_4, 125 MHz)



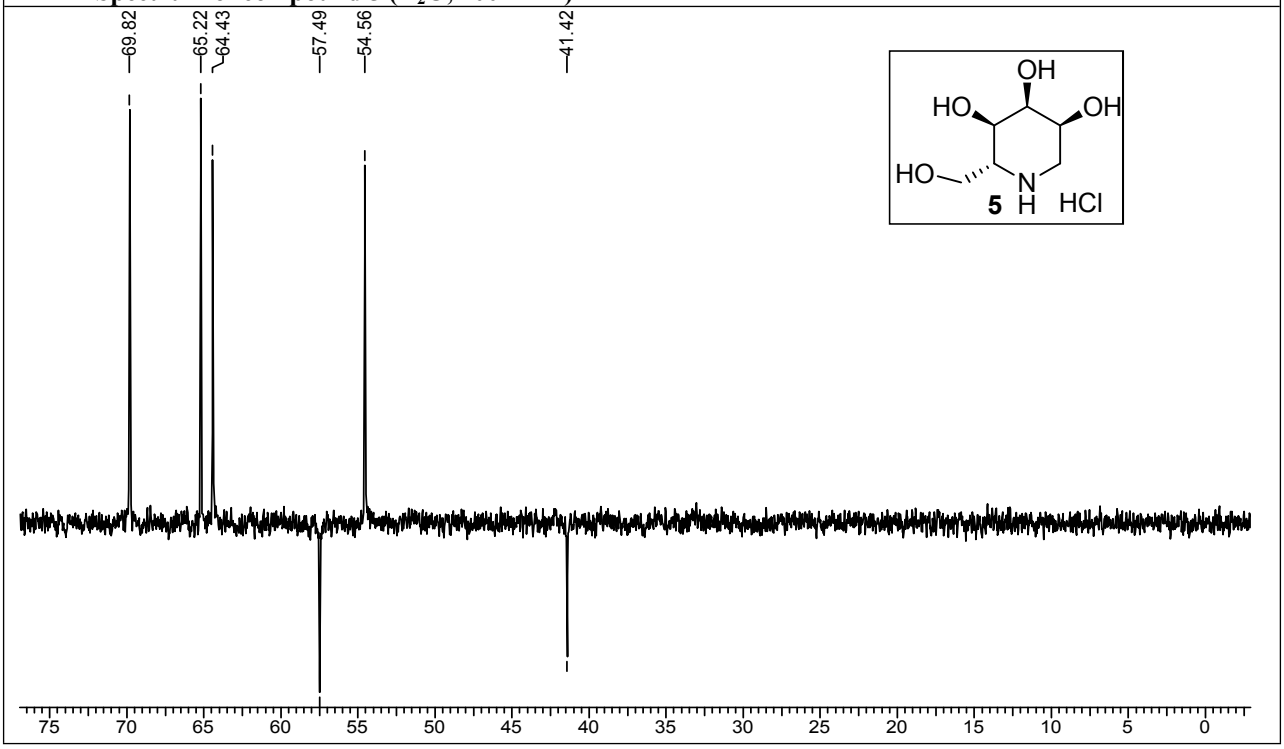
^{1}H NMR Spectrum of compound 5 (D_2O, 400 MHz)



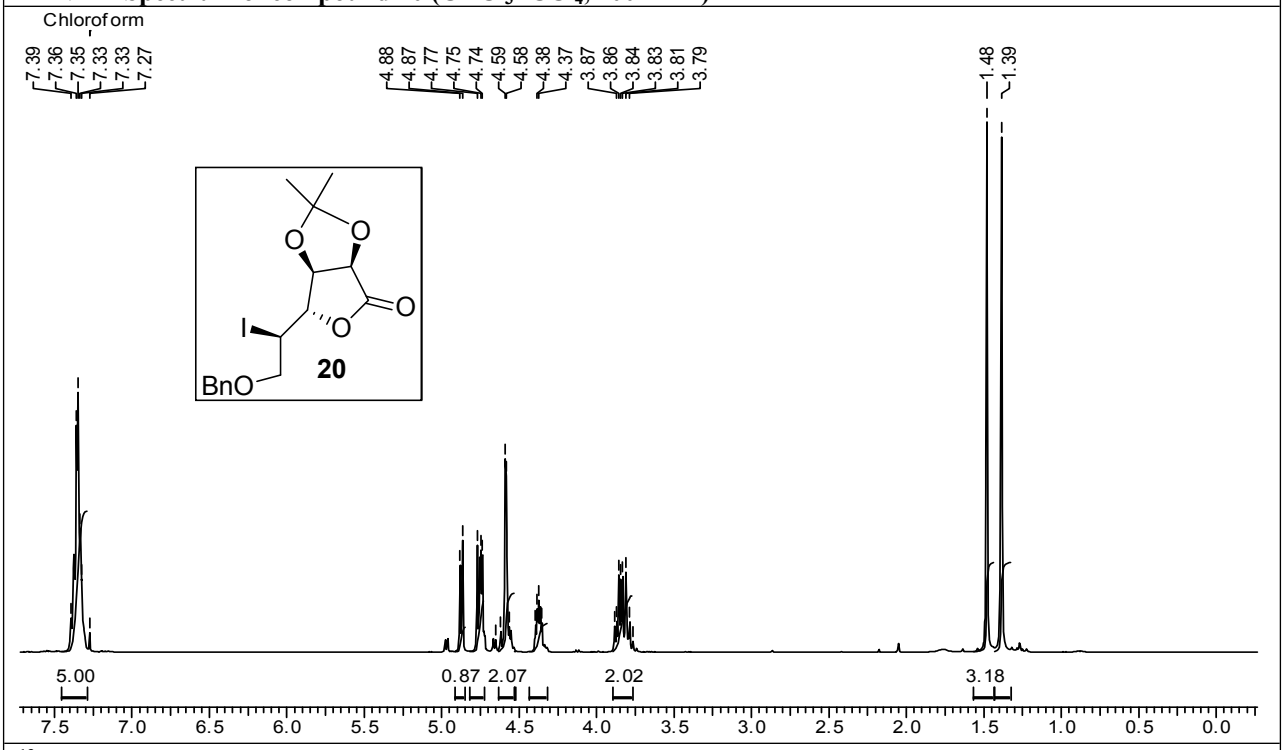
^{13}C NMR Spectrum of compound 5 (D_2O, 100 MHz)



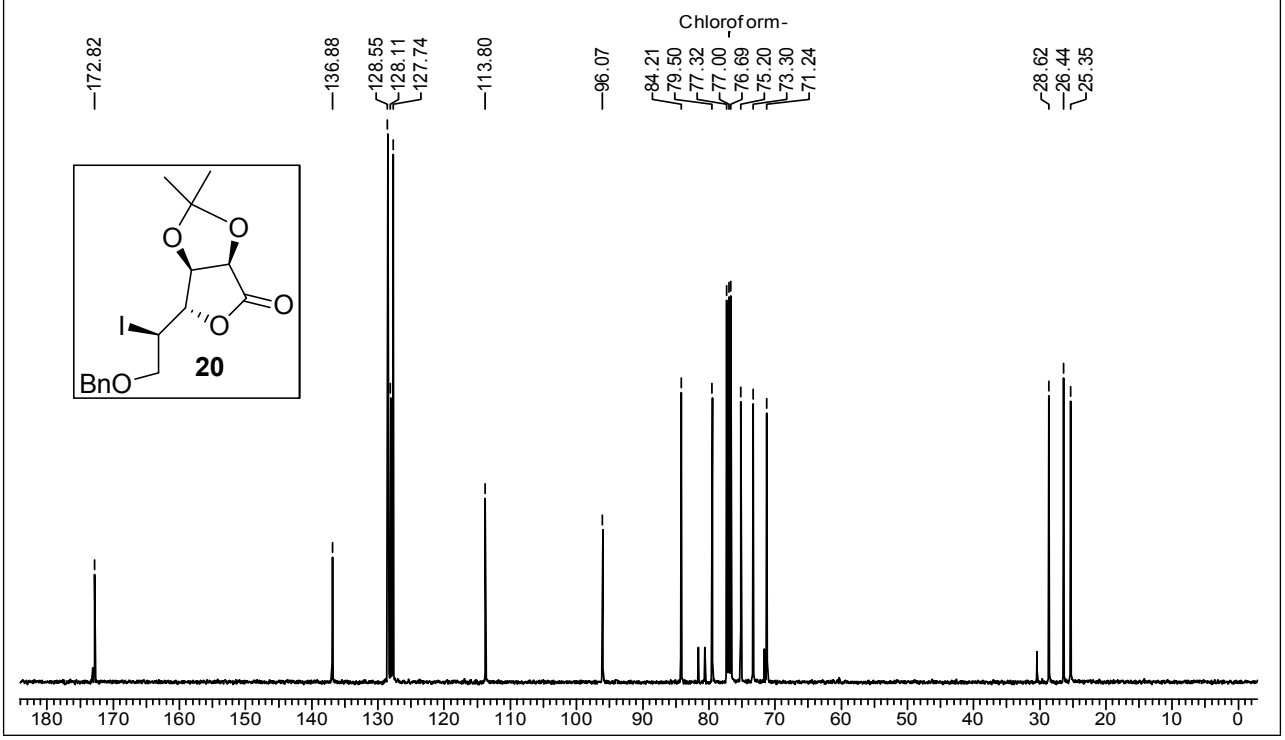
DEPT Spectrum of compound 5 (D_2O, 100 MHz)



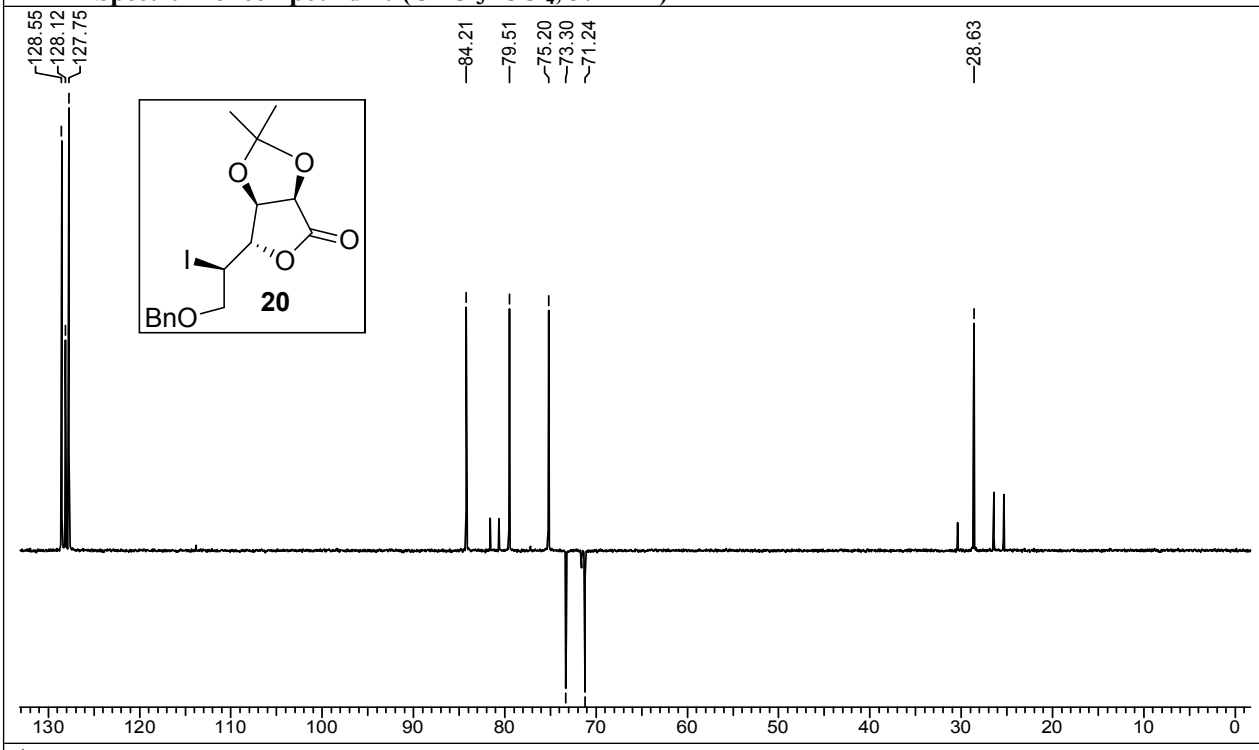
^{1}H NMR Spectrum of compound 20 ($CDCl_3$+CCl_4, 400 MHz)



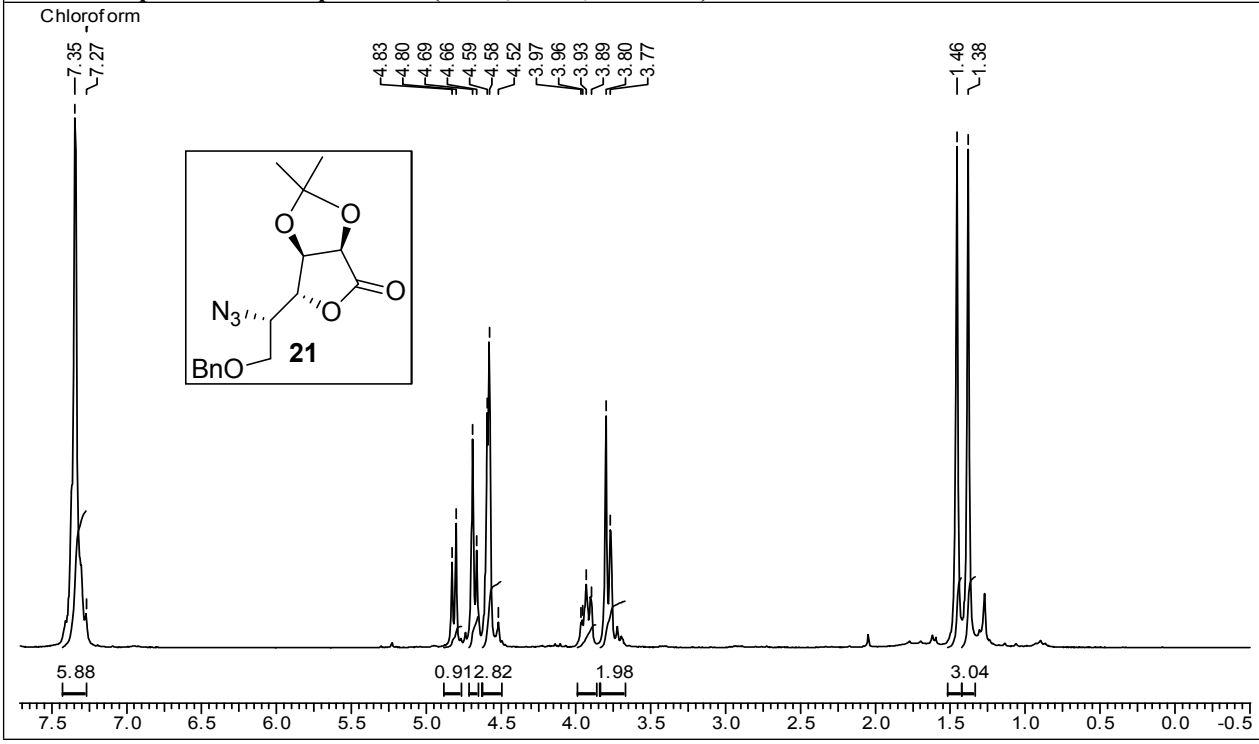
^{13}C NMR Spectrum of compound 20 ($CDCl_3$+CCl_4, 50 MHz)



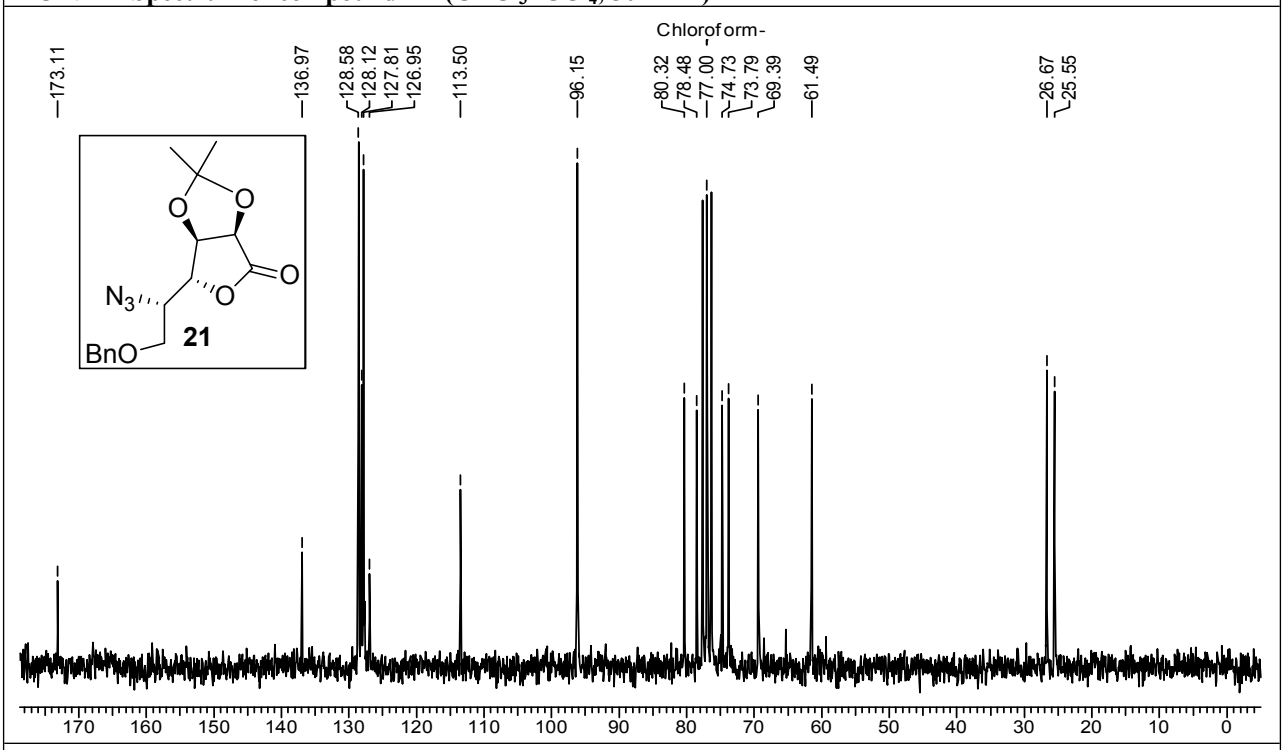
DEPT Spectrum of compound 20 ($CDCl_3$+CCl_4, 50 MHz)



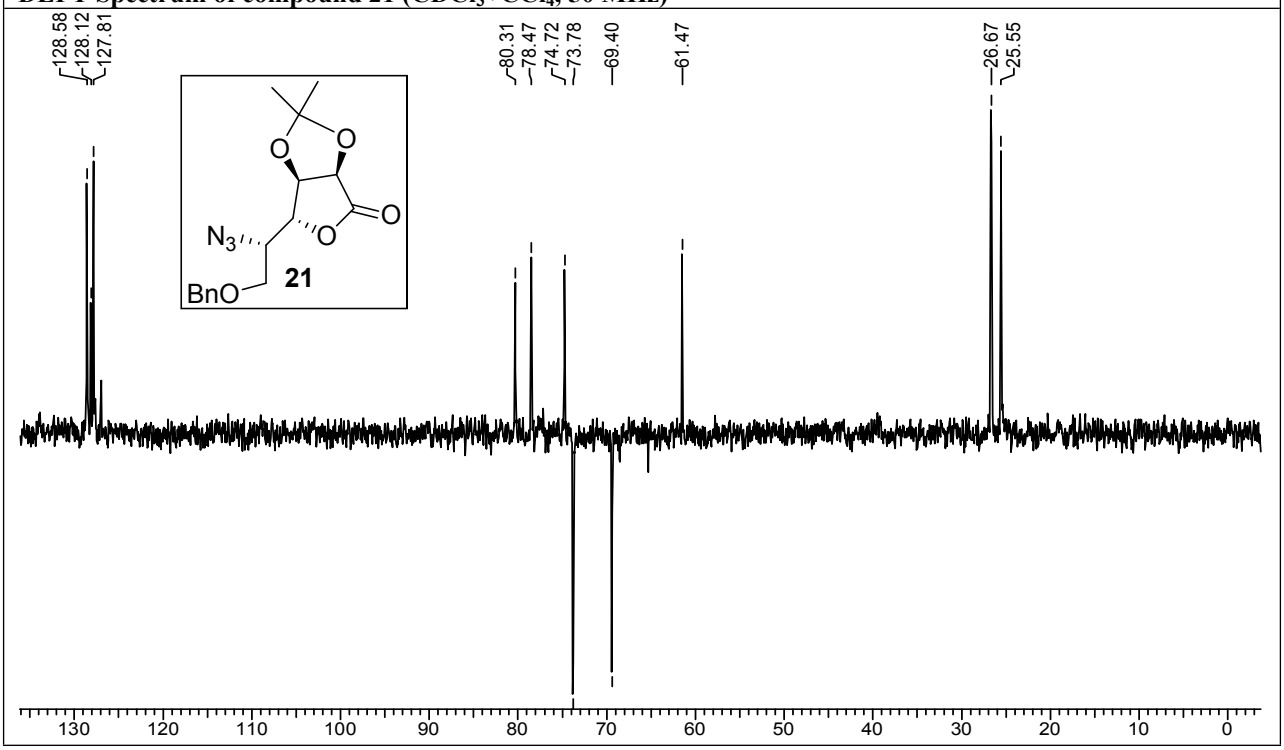
^{1}H NMR Spectrum of compound 21 ($CDCl_3$+CCl_4, 200 MHz)



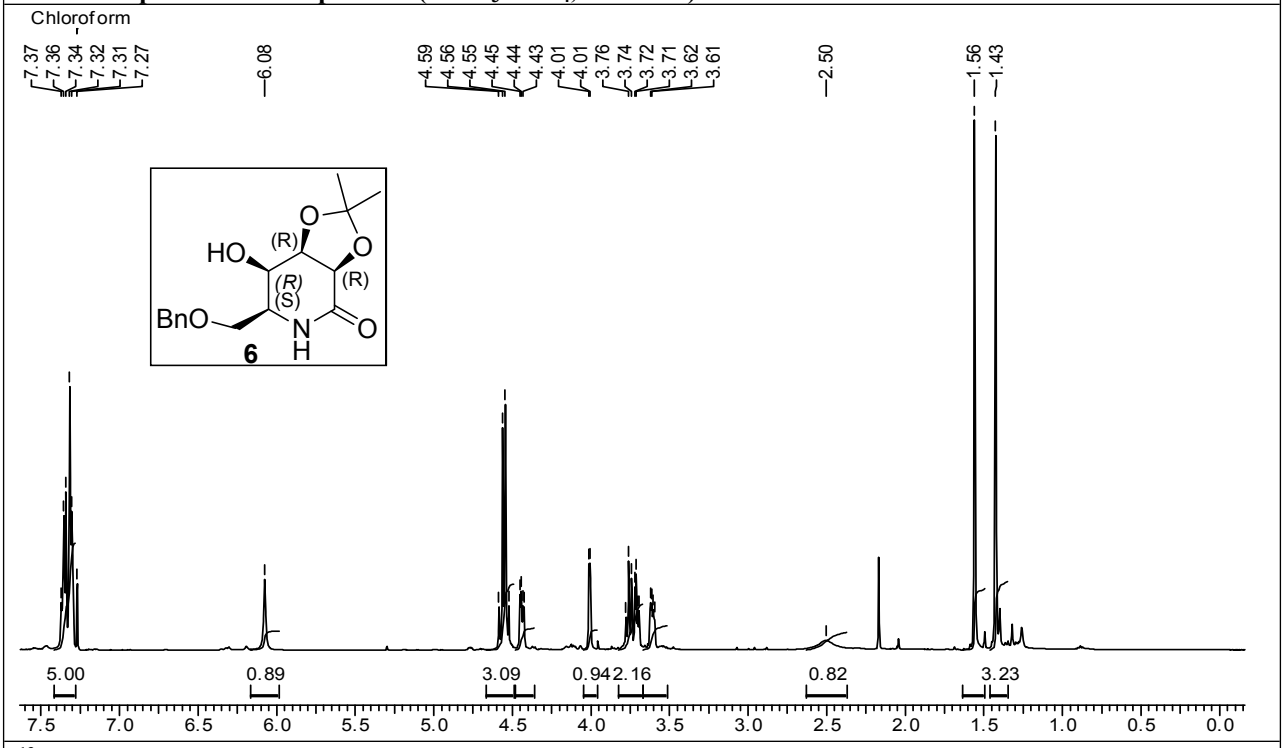
^{13}C NMR Spectrum of compound 21 ($CDCl_3$+CCl_4, 50 MHz)



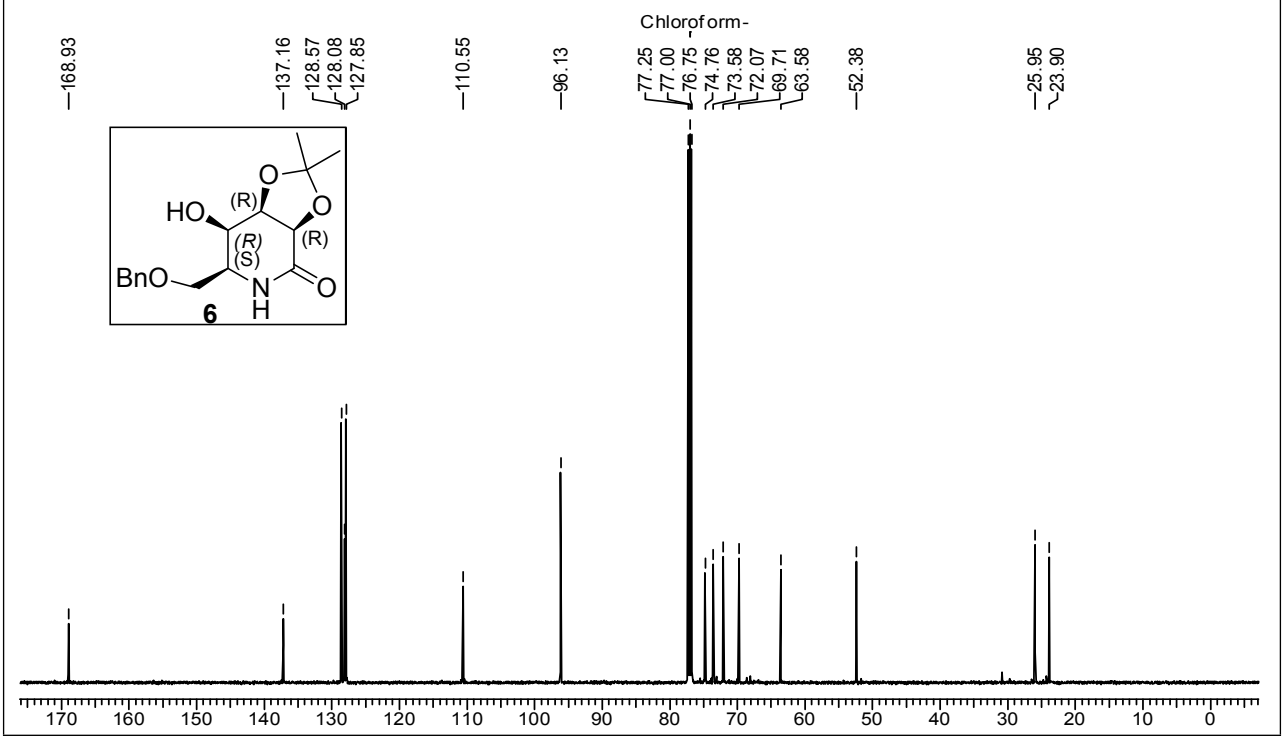
DEPT Spectrum of compound 21 ($CDCl_3$+CCl_4, 50 MHz)



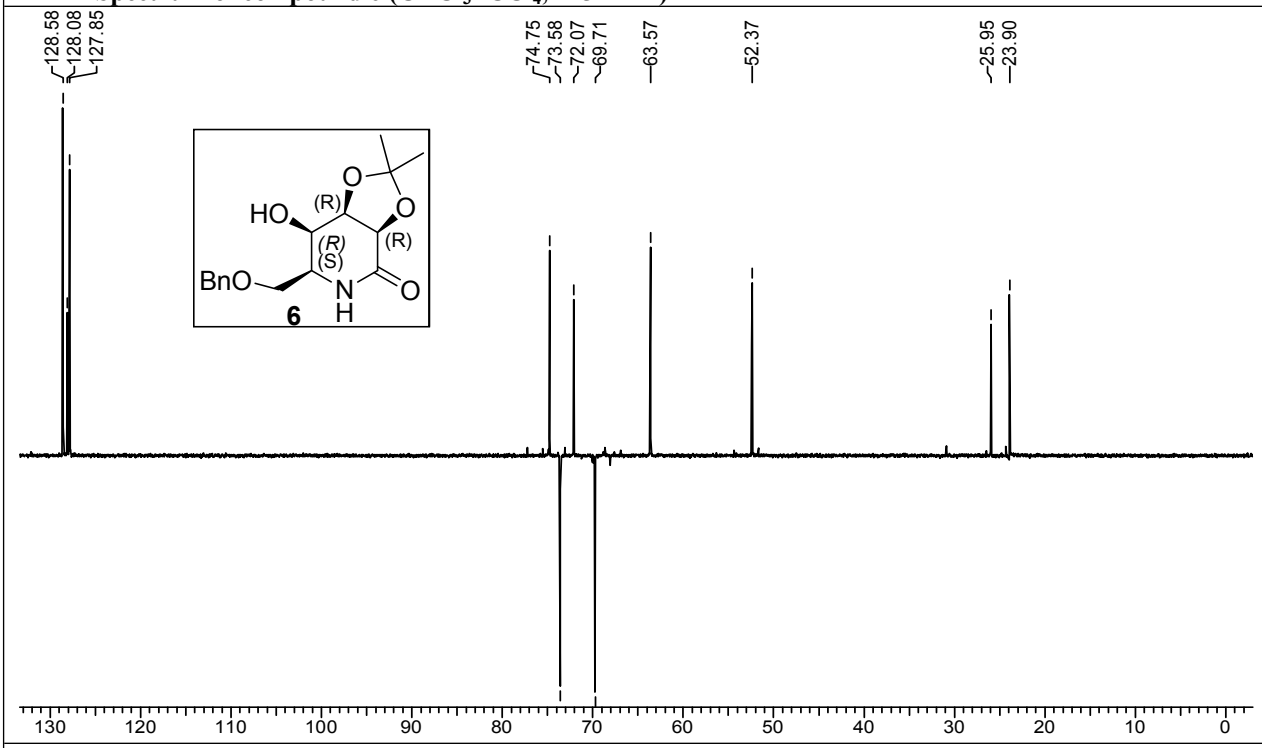
^{1}H NMR Spectrum of compound 6 ($CDCl_3$+CCl_4, 500 MHz)



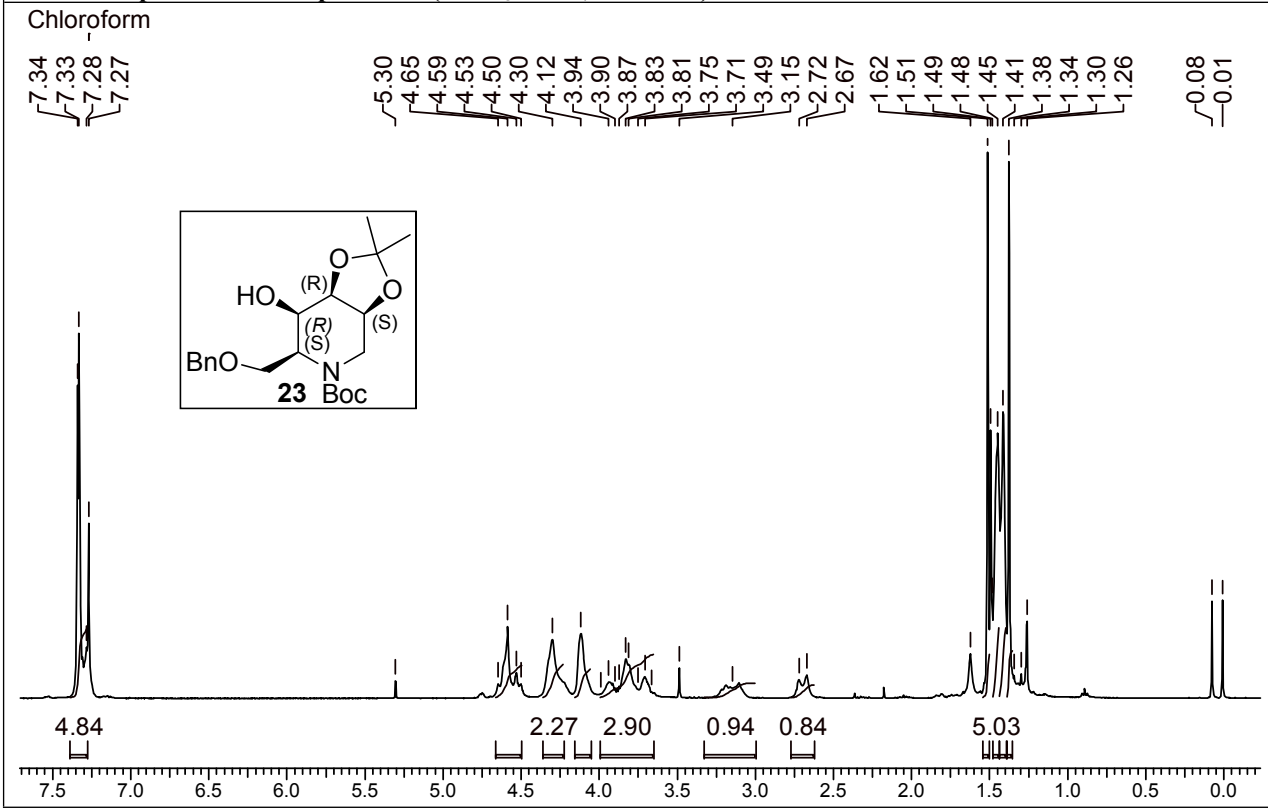
^{13}C NMR Spectrum of compound 6 ($CDCl_3$+CCl_4, 125 MHz)



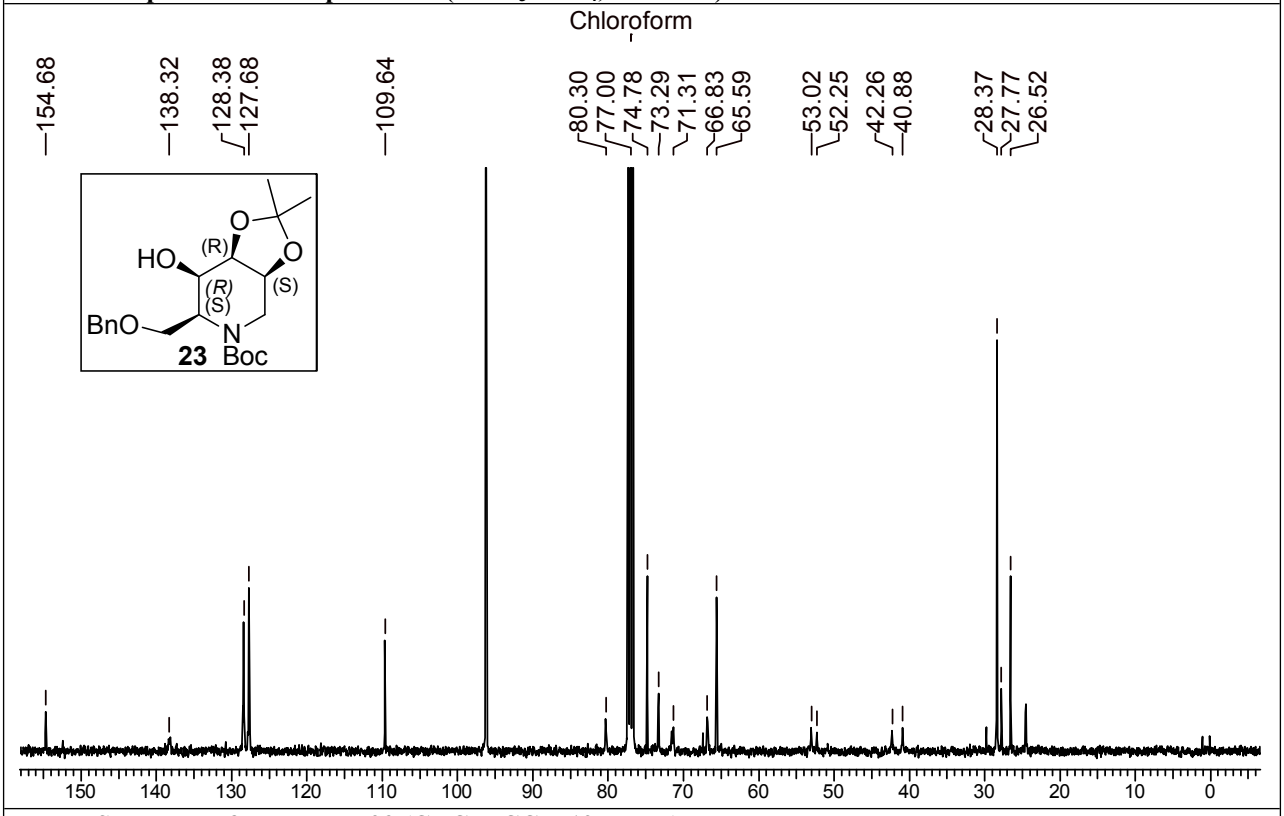
DEPT Spectrum of compound 6 ($CDCl_3$+CCl_4, 125 MHz)



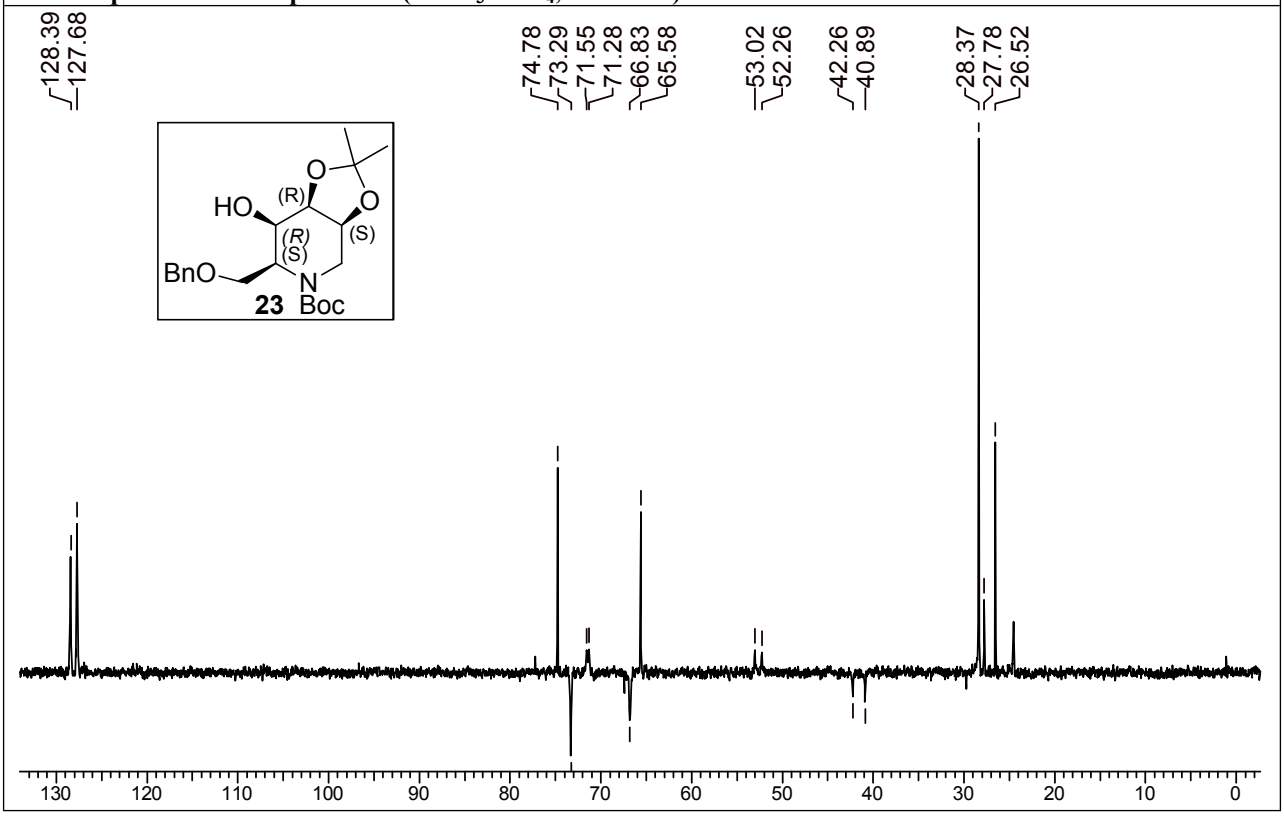
^{1}H NMR Spectrum of compound 23 ($CDCl_3$+CCl_4, 400 MHz)



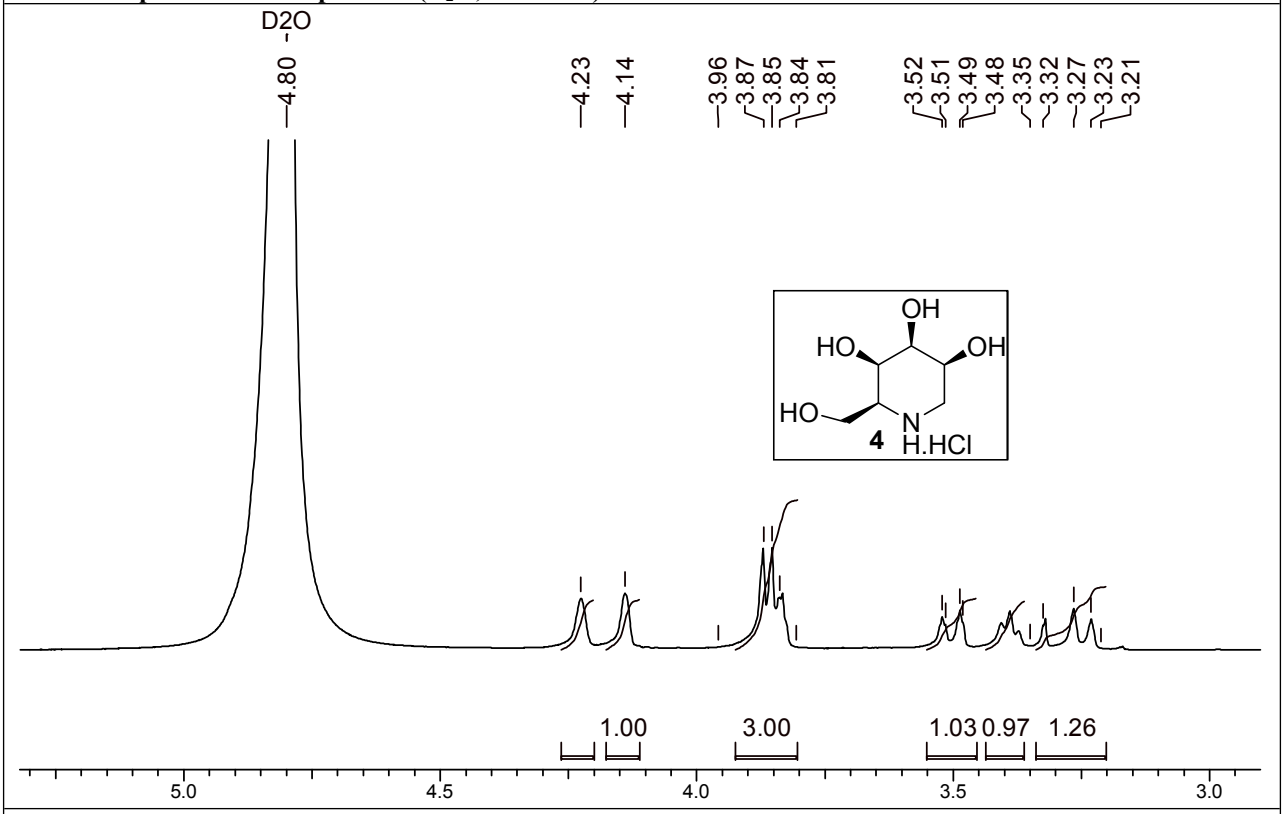
^{13}C NMR Spectrum of compound 23 ($CDCl_3$+CCl_4, 125 MHz)



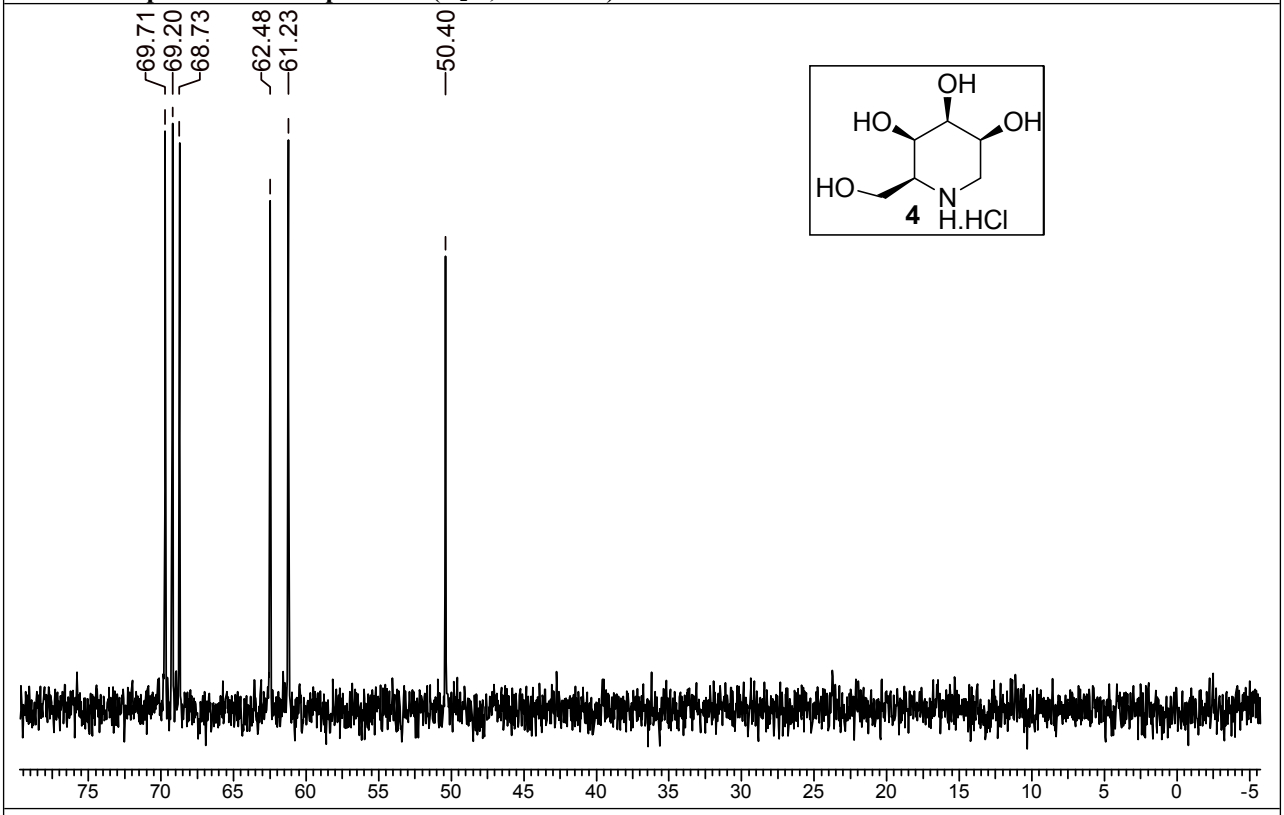
DEPT Spectrum of compound 23 ($CDCl_3$+CCl_4, 125 MHz)



^{1}H NMR Spectrum of compound 4 (D_2O, 400 MHz)



^{13}C NMR Spectrum of compound 4 (D_2O, 100 MHz)



DEPT Spectrum of compound 4 (D_2O, 100 MHz)