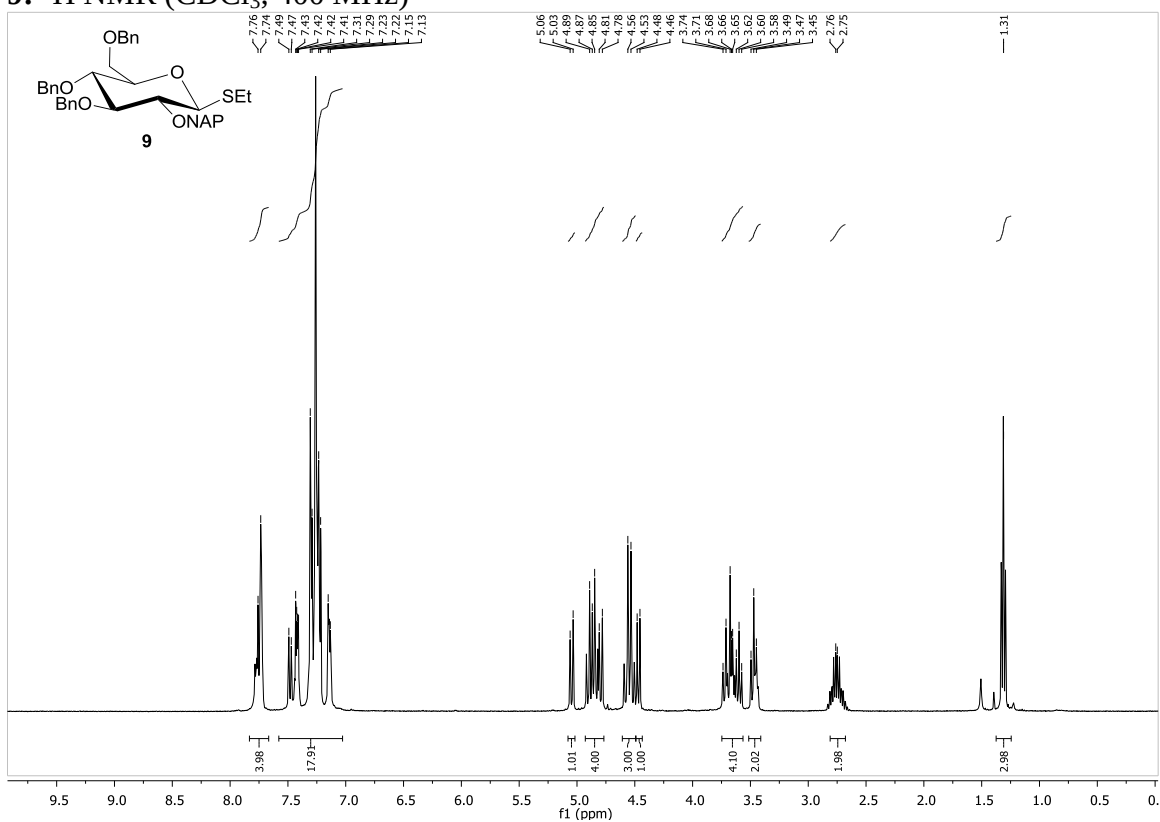
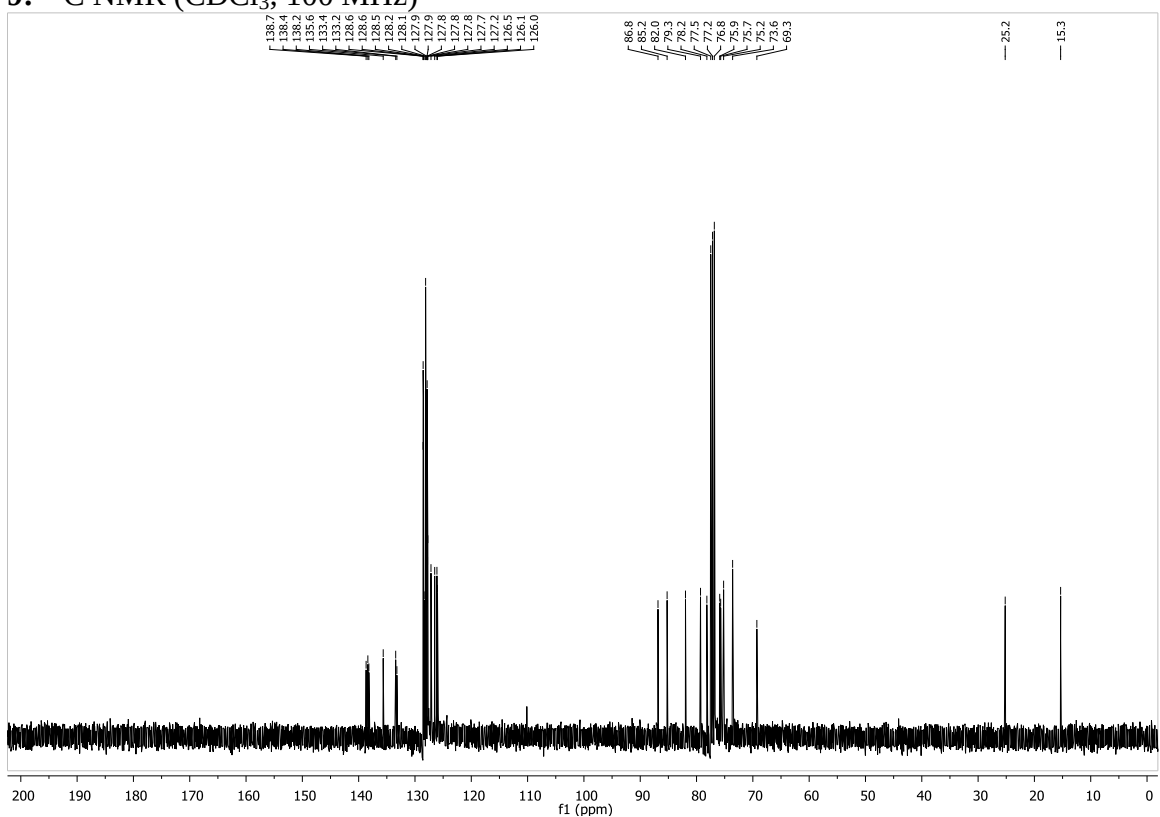


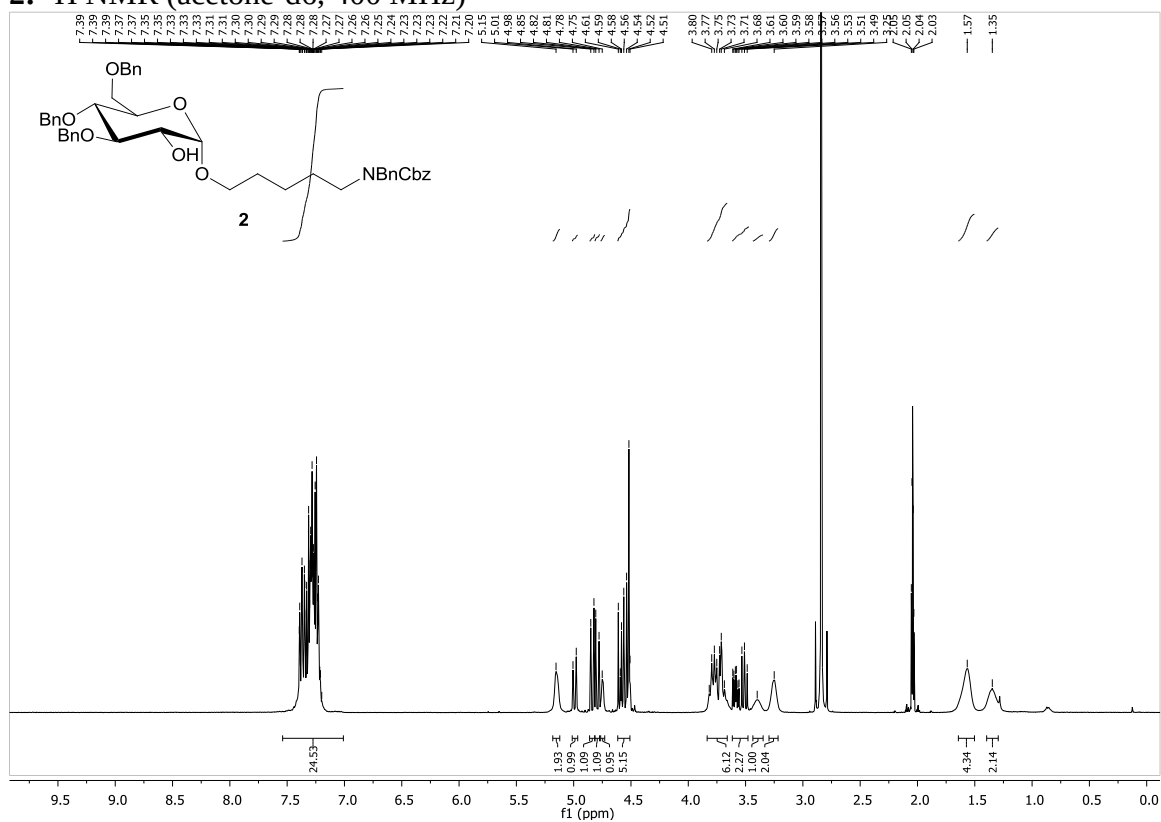
9: ^1H NMR (CDCl_3 , 400 MHz)



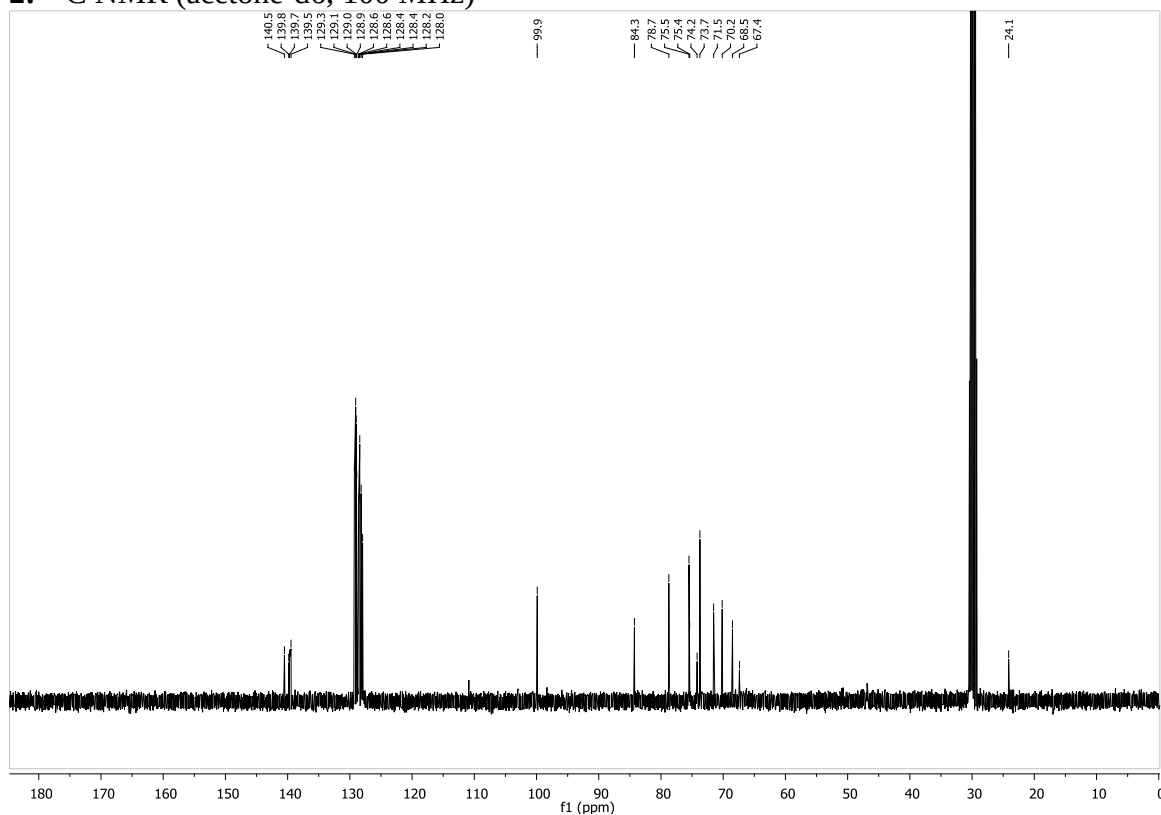
9: ^{13}C NMR (CDCl_3 , 100 MHz)



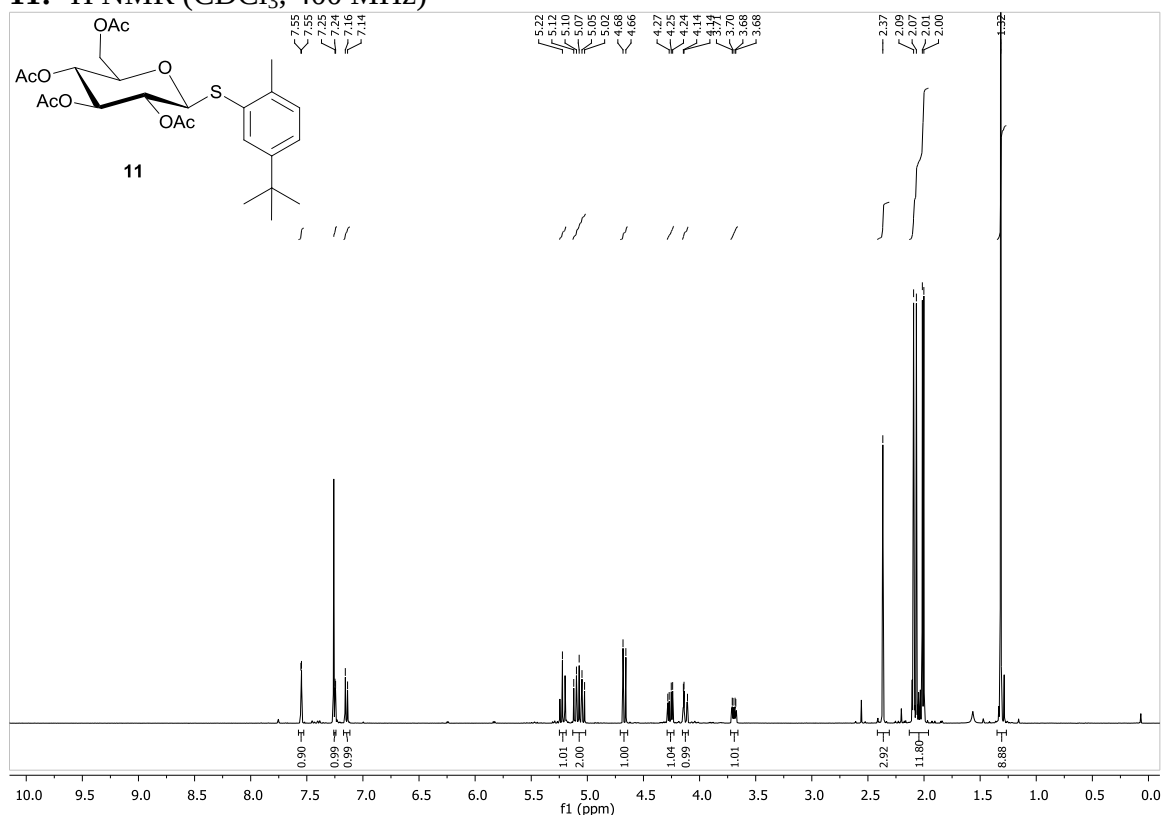
2: ^1H NMR (acetone- d_6 , 400 MHz)



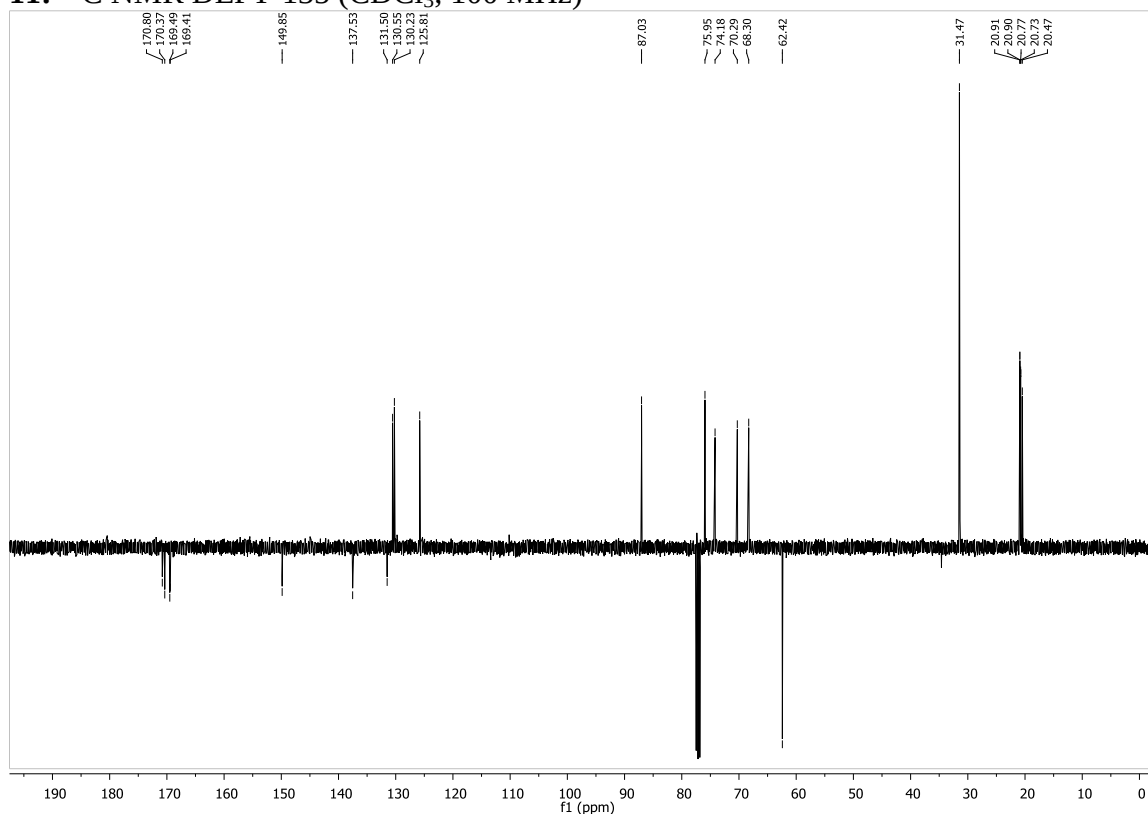
2: ^{13}C NMR (acetone- d_6 , 100 MHz)



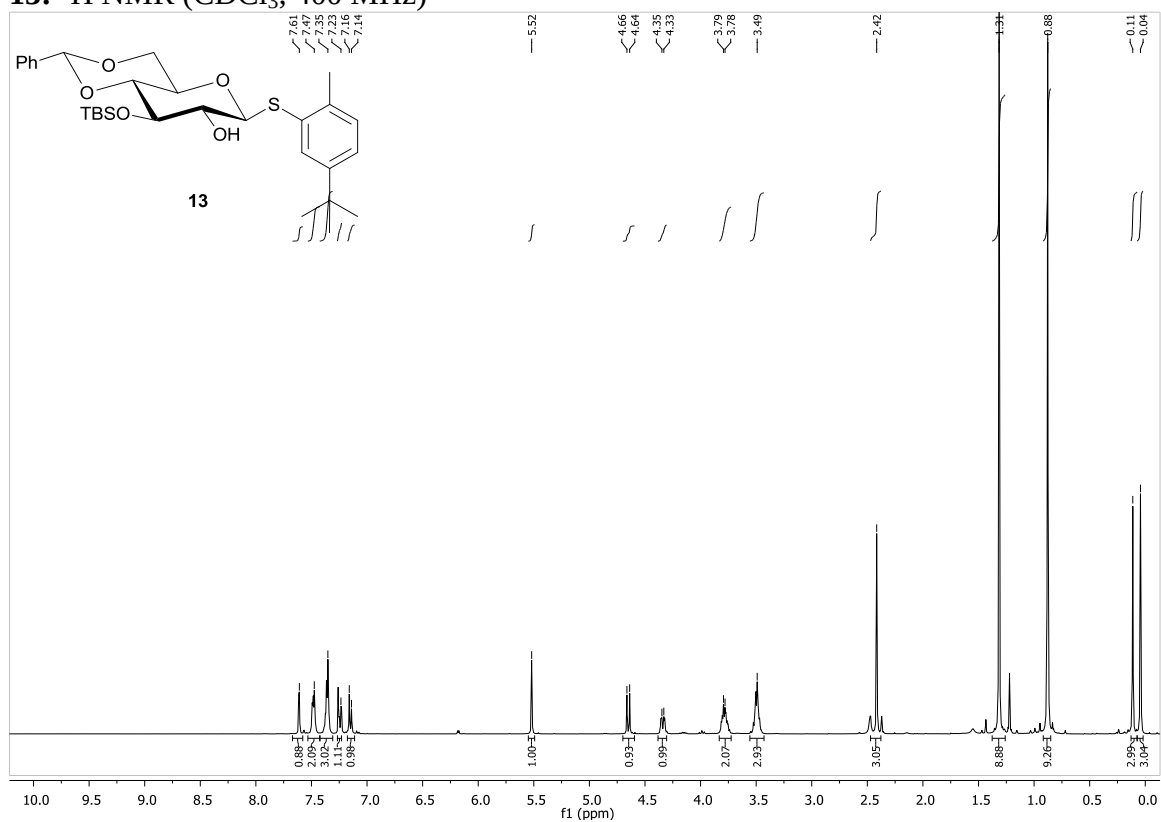
11: ^1H NMR (CDCl_3 , 400 MHz)



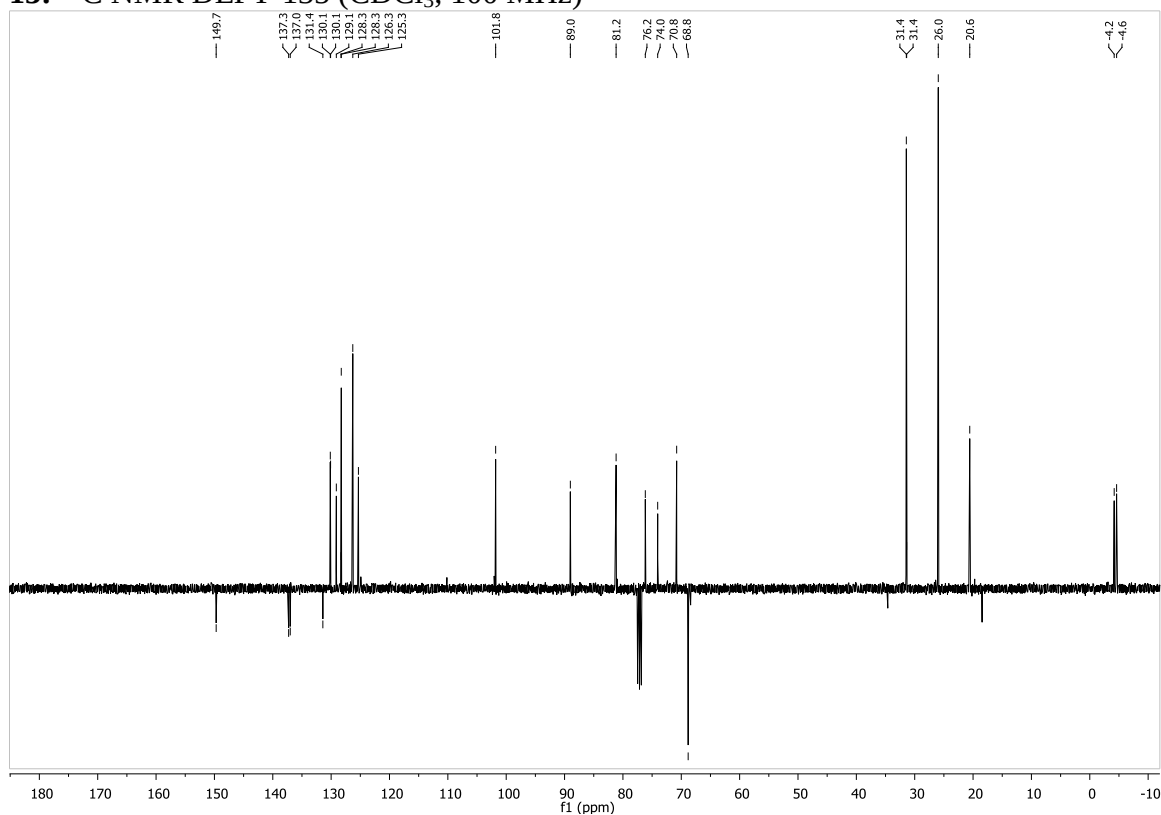
11: ^{13}C NMR DEPT-135 (CDCl_3 , 100 MHz)



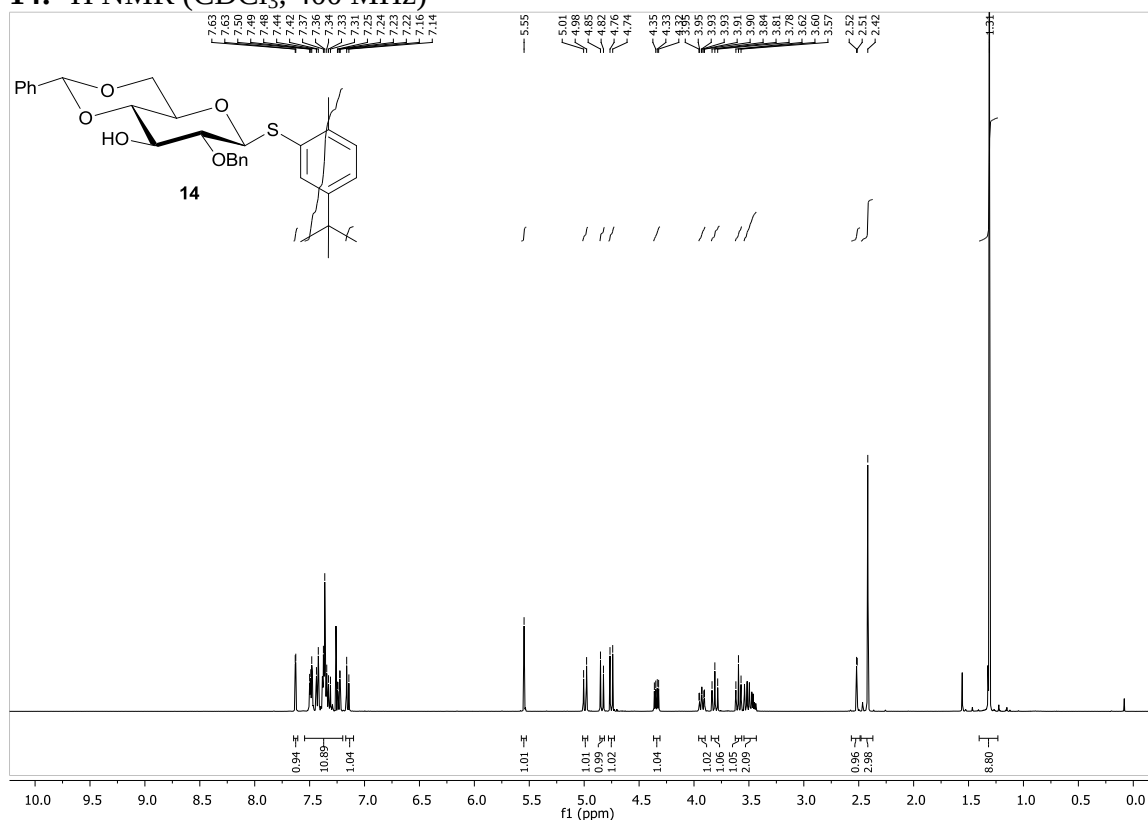
13: ^1H NMR (CDCl_3 , 400 MHz)



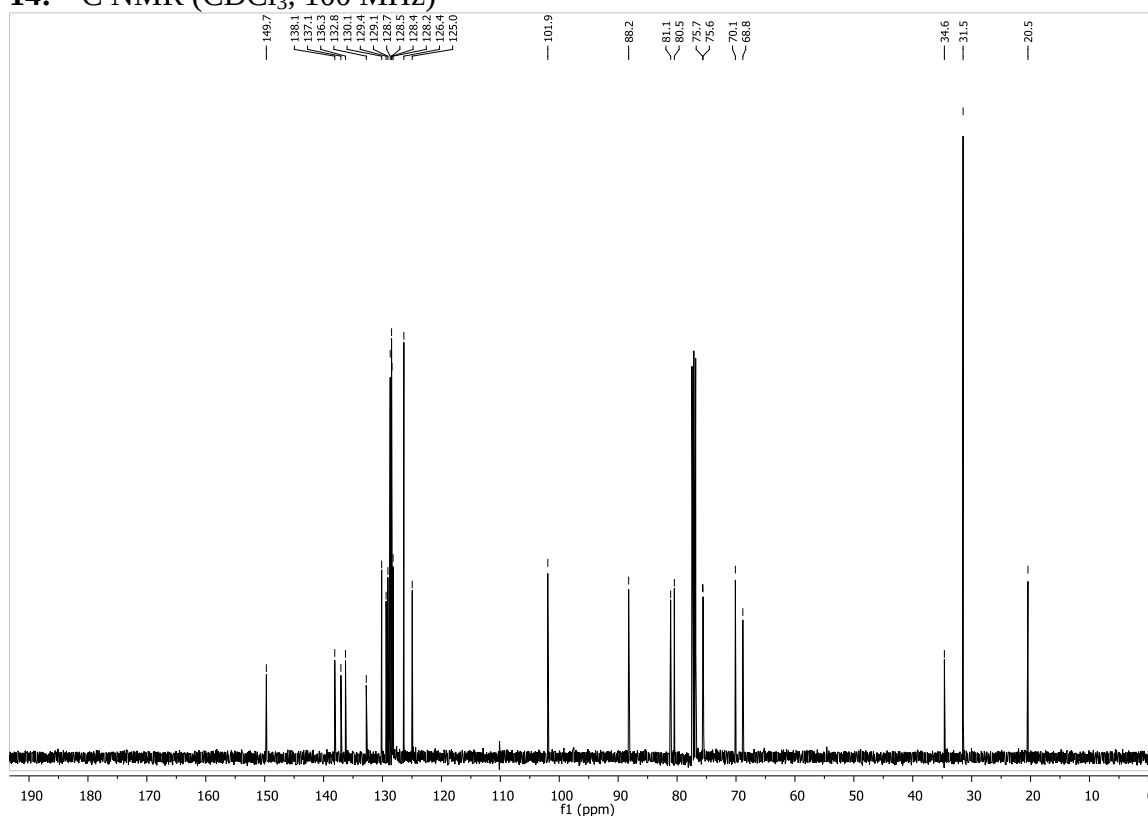
13: ^{13}C NMR DEPT-135 (CDCl_3 , 100 MHz)



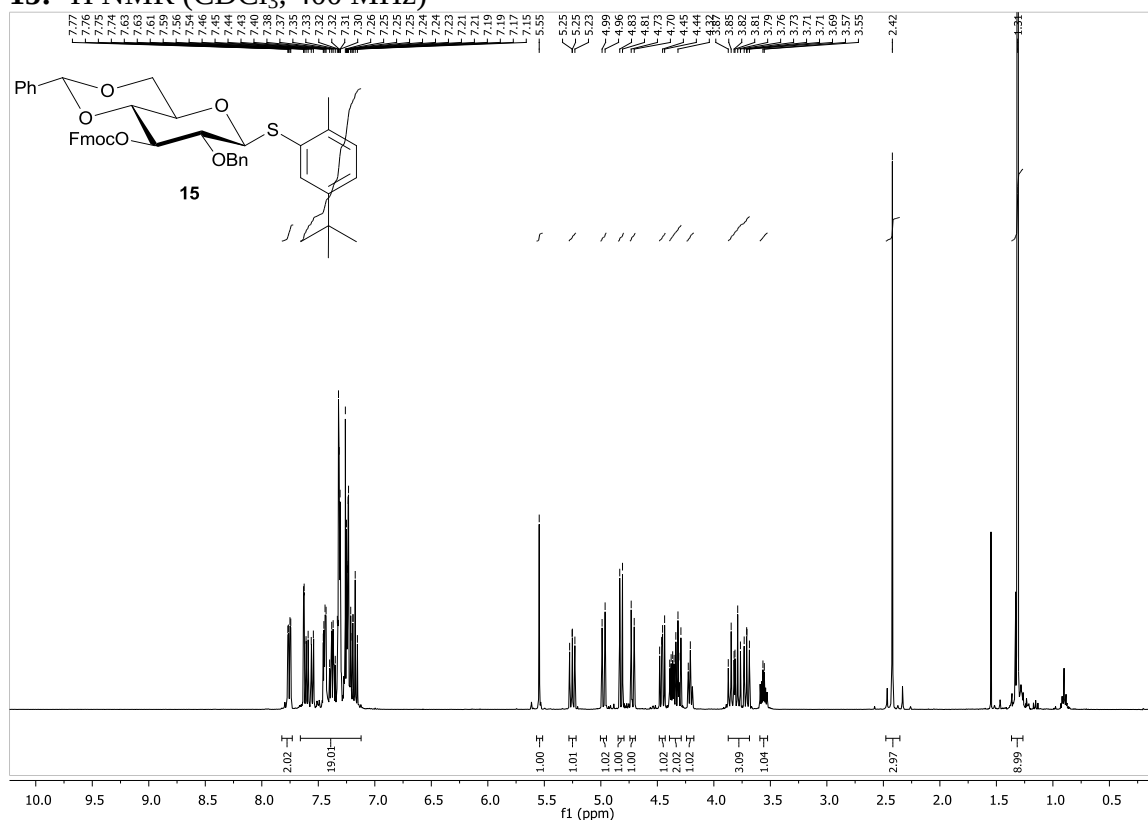
14: ^1H NMR (CDCl_3 , 400 MHz)



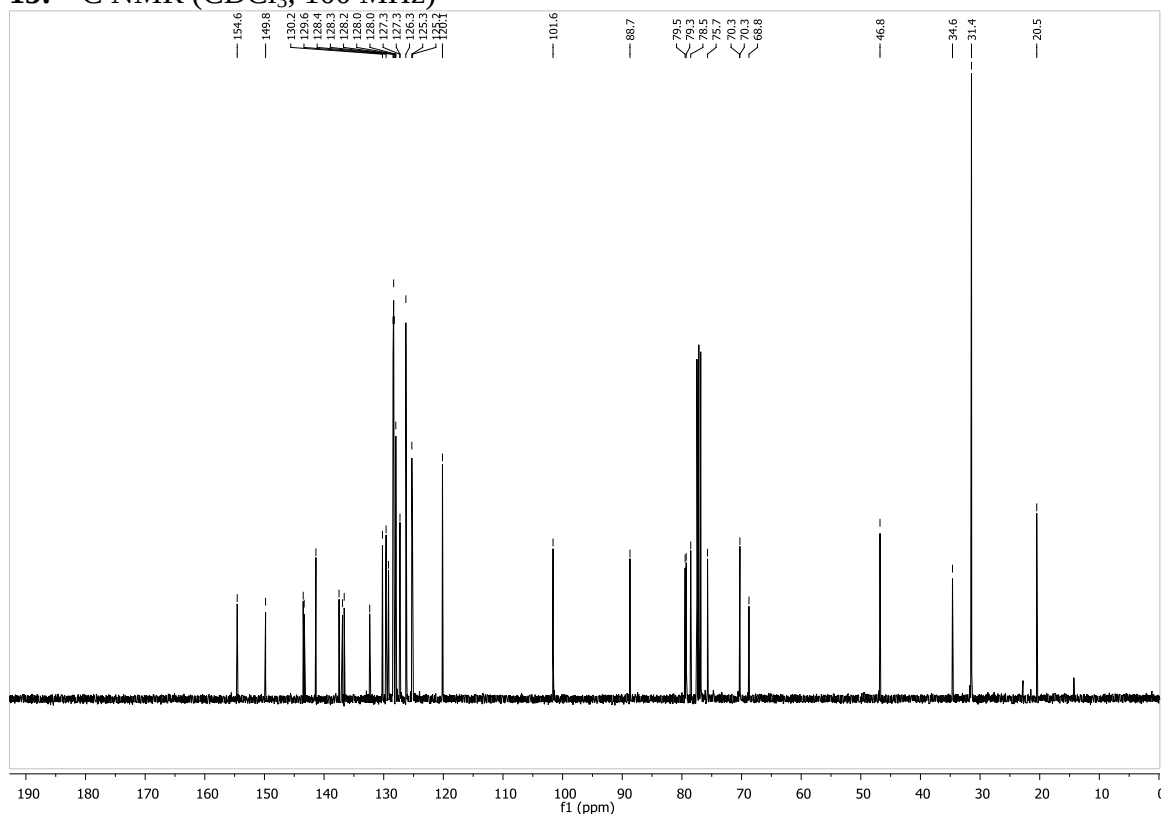
14: ^{13}C NMR (CDCl_3 , 100 MHz)



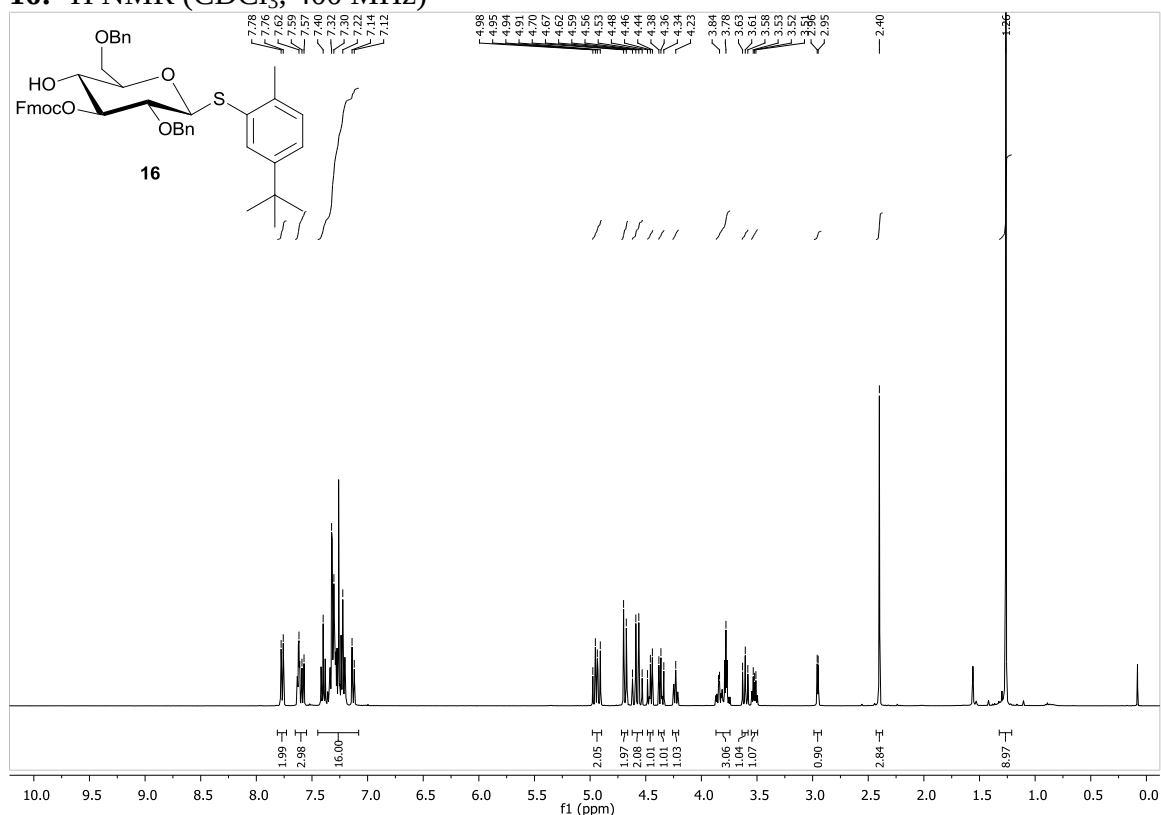
15: ^1H NMR (CDCl_3 , 400 MHz)



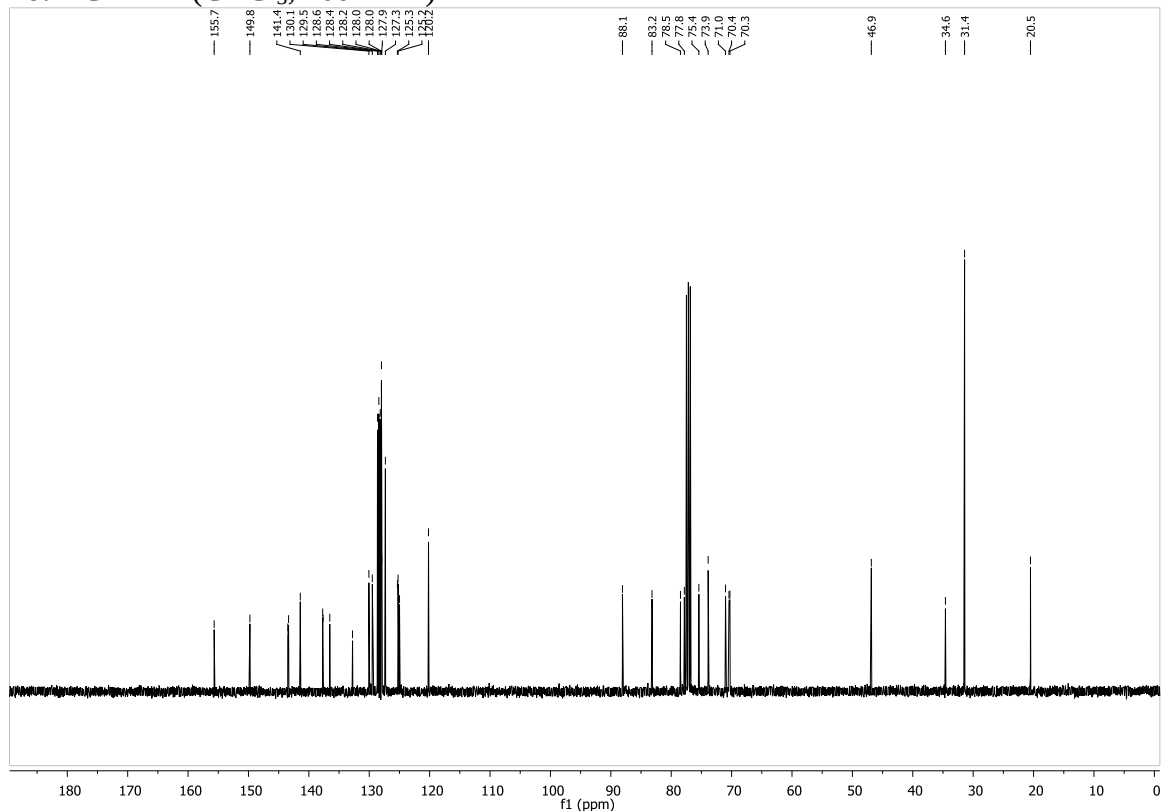
15: ^{13}C NMR (CDCl_3 , 100 MHz)



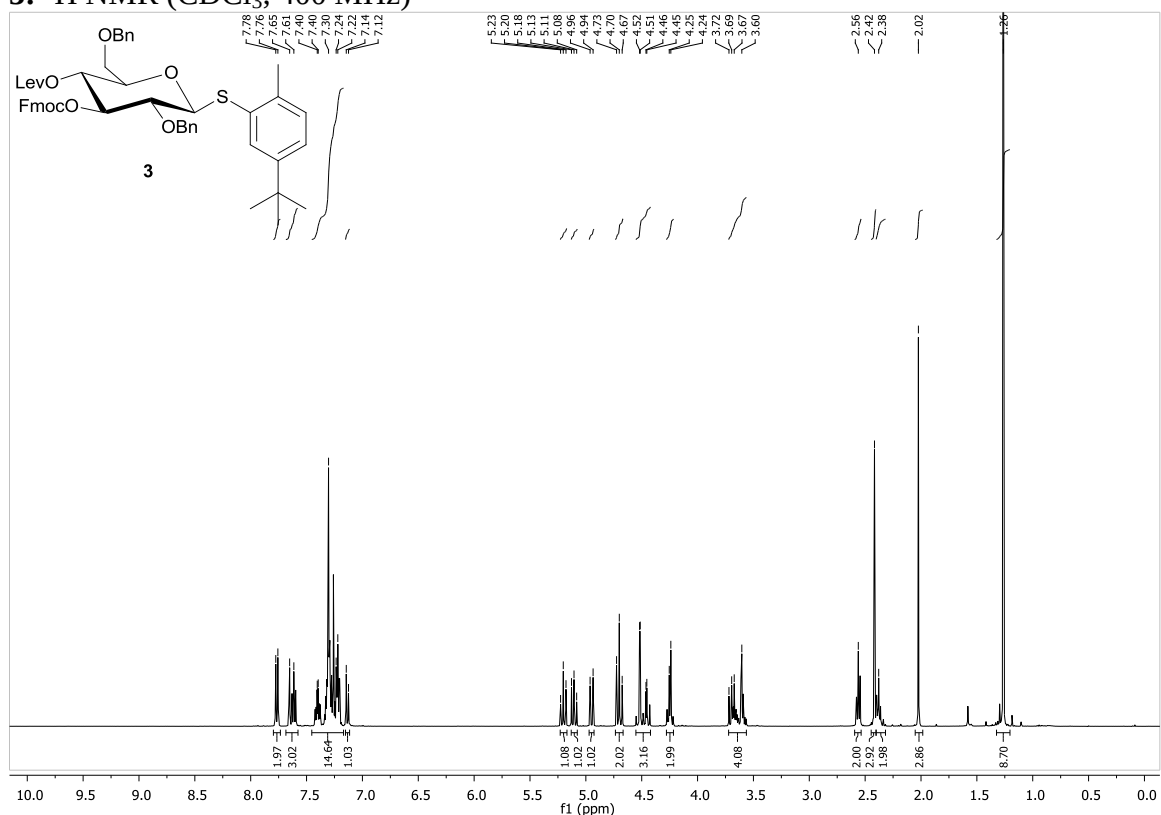
16: ^1H NMR (CDCl_3 , 400 MHz)



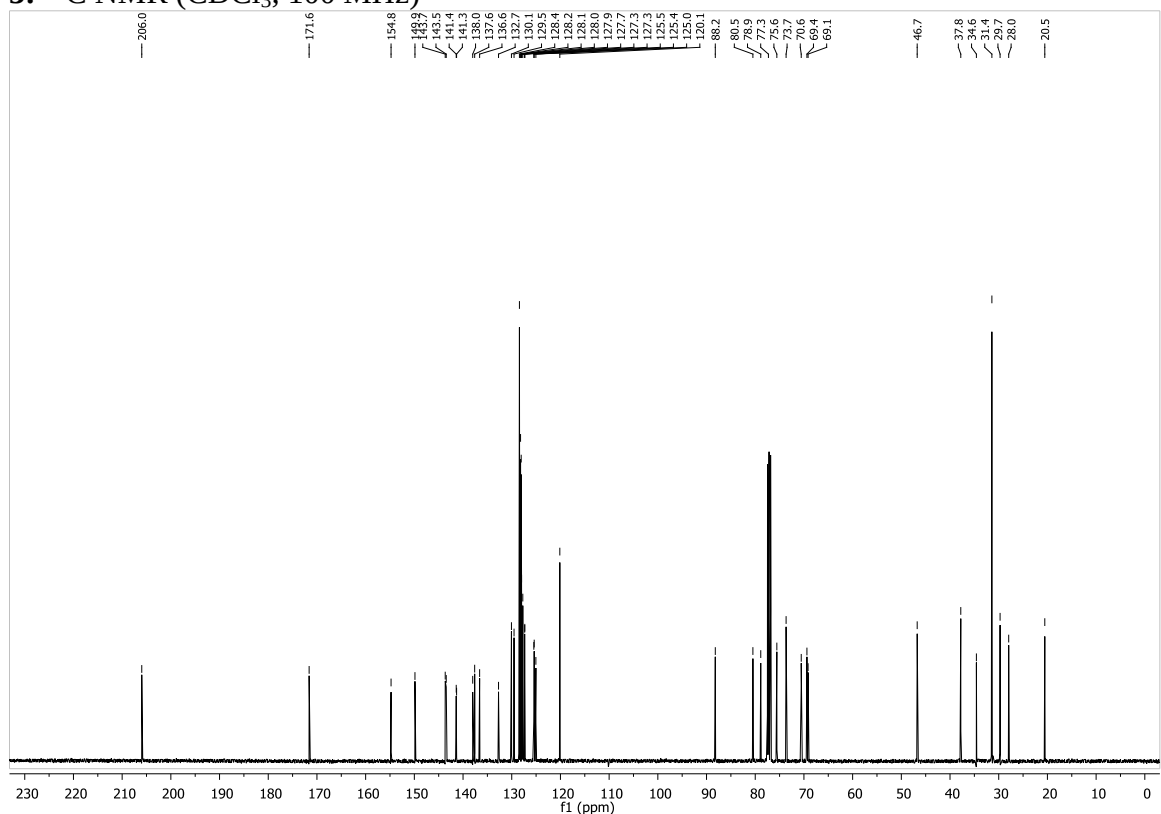
16: ^{13}C NMR (CDCl_3 , 100 MHz)



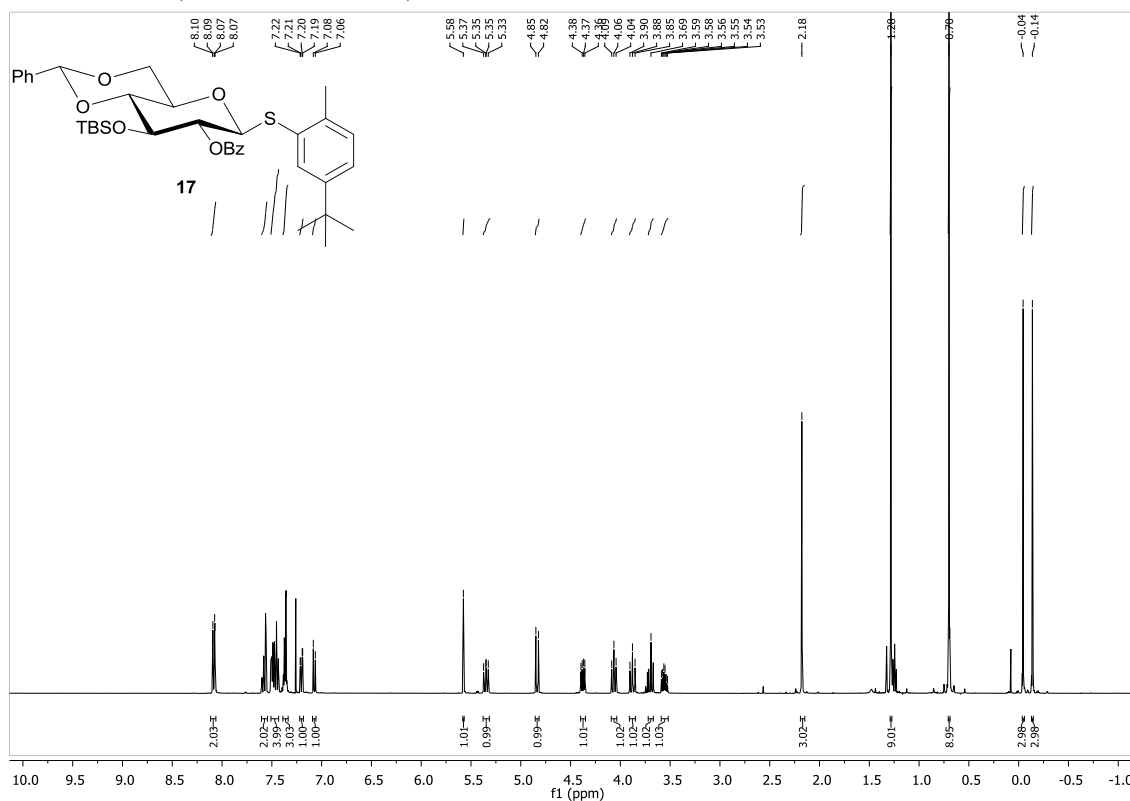
3: ^1H NMR (CDCl_3 , 400 MHz)



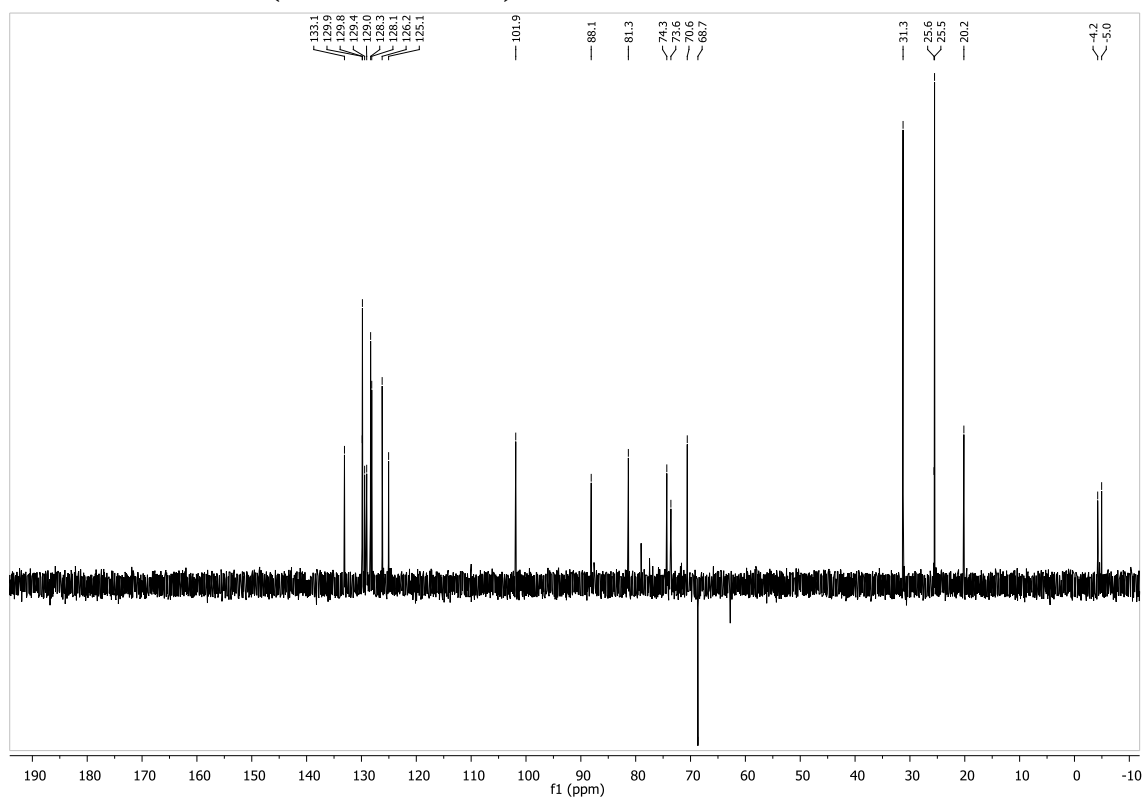
3: ^{13}C NMR (CDCl_3 , 100 MHz)



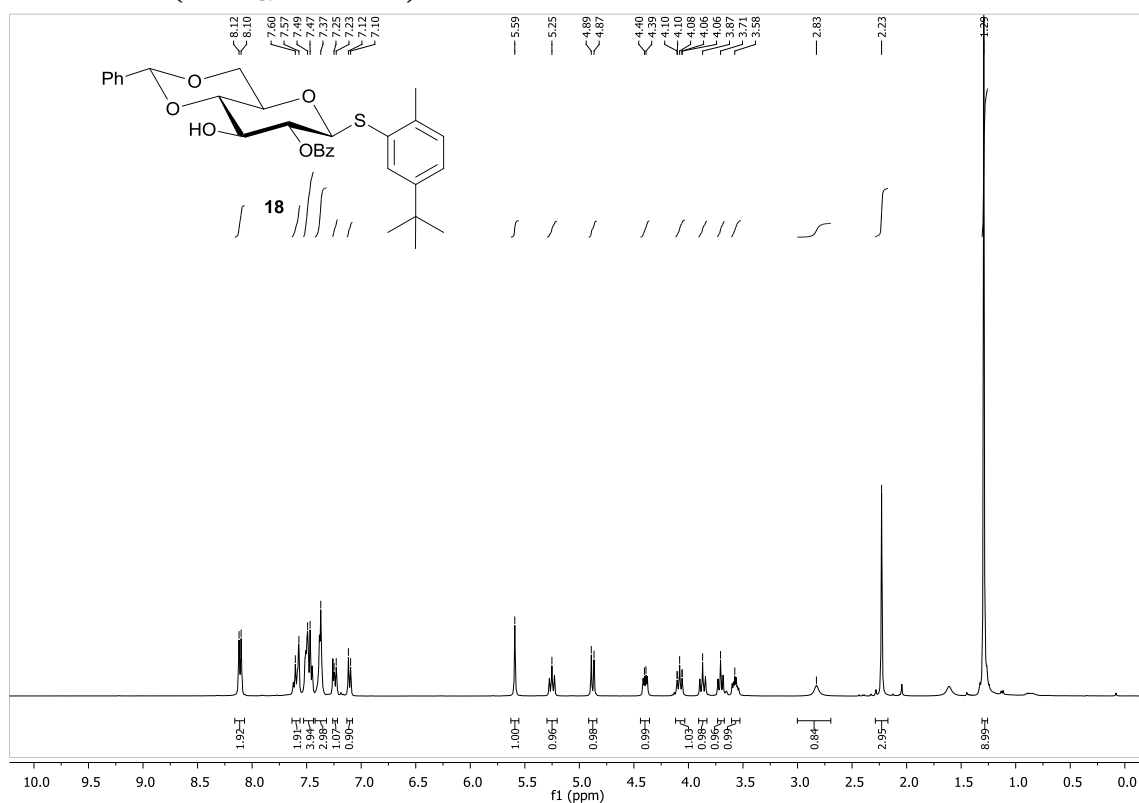
17: ^1H NMR (CDCl_3 , 400 MHz)



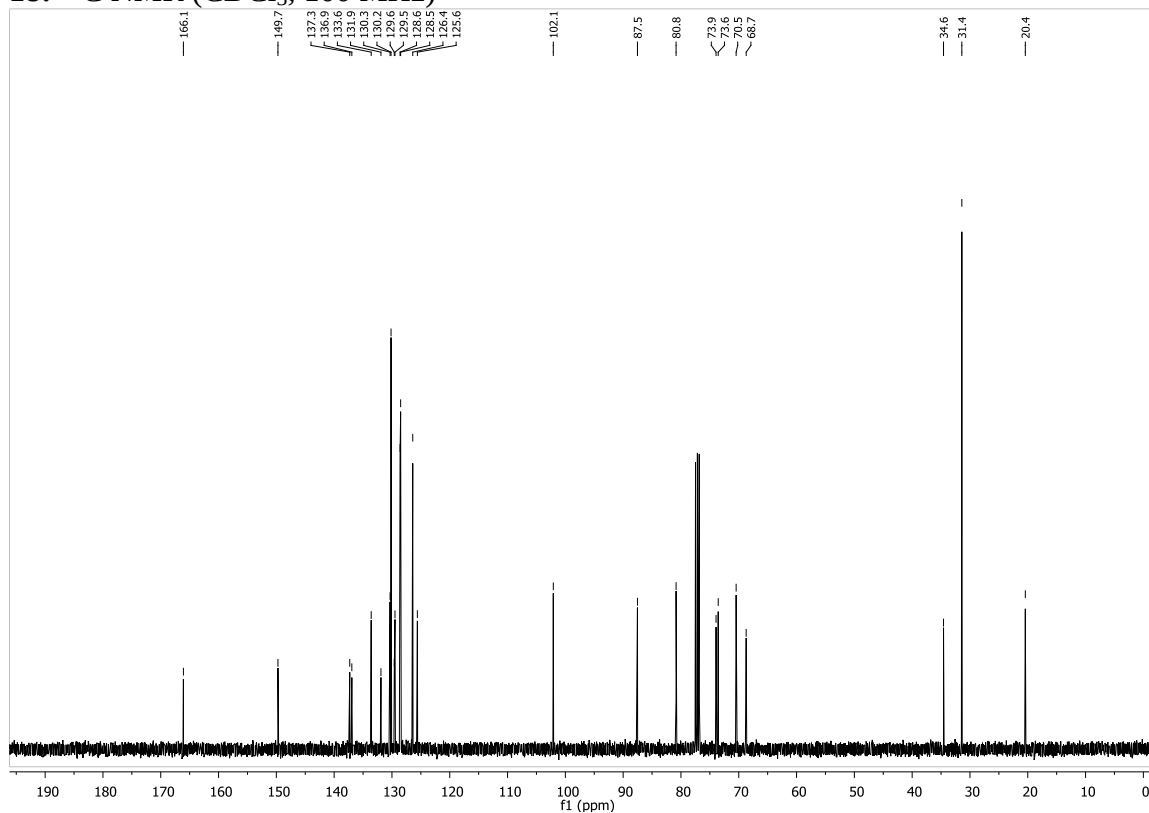
17: ^{13}C NMR DEPT (CDCl_3 , 100 MHz)



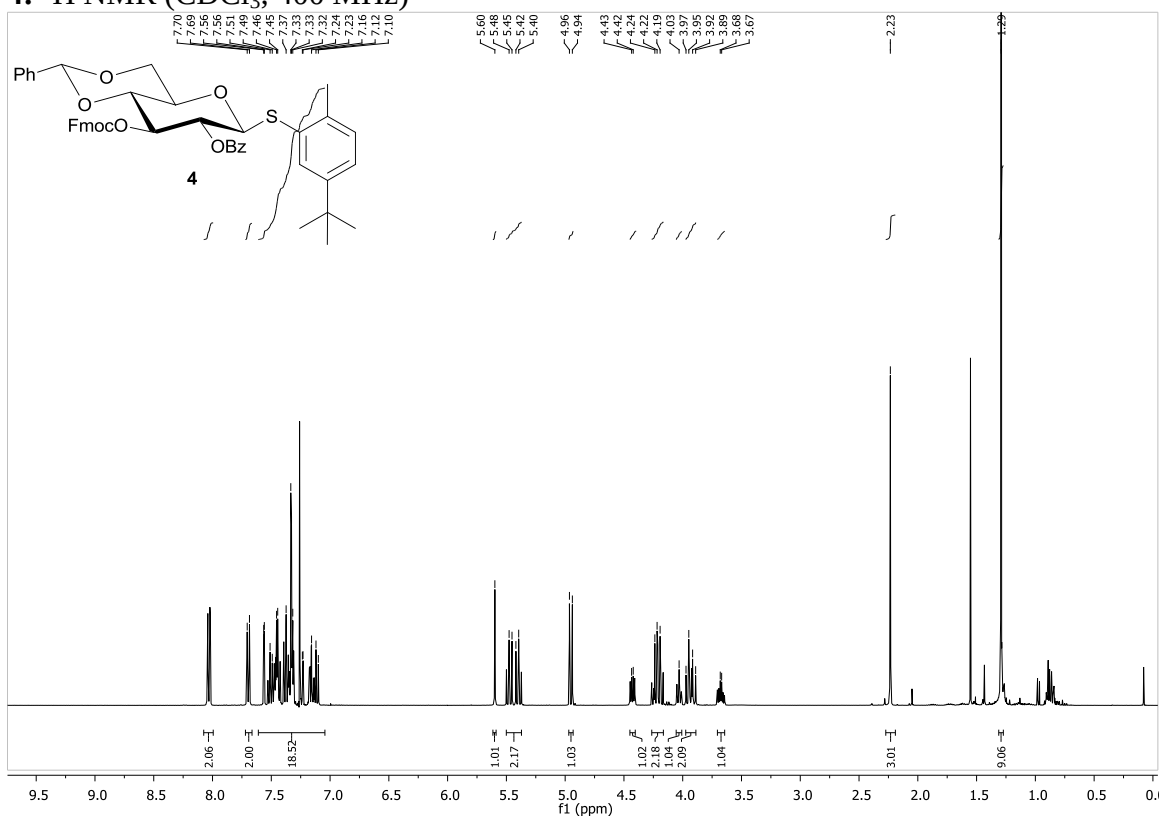
18: ^1H NMR (CDCl_3 , 400 MHz)



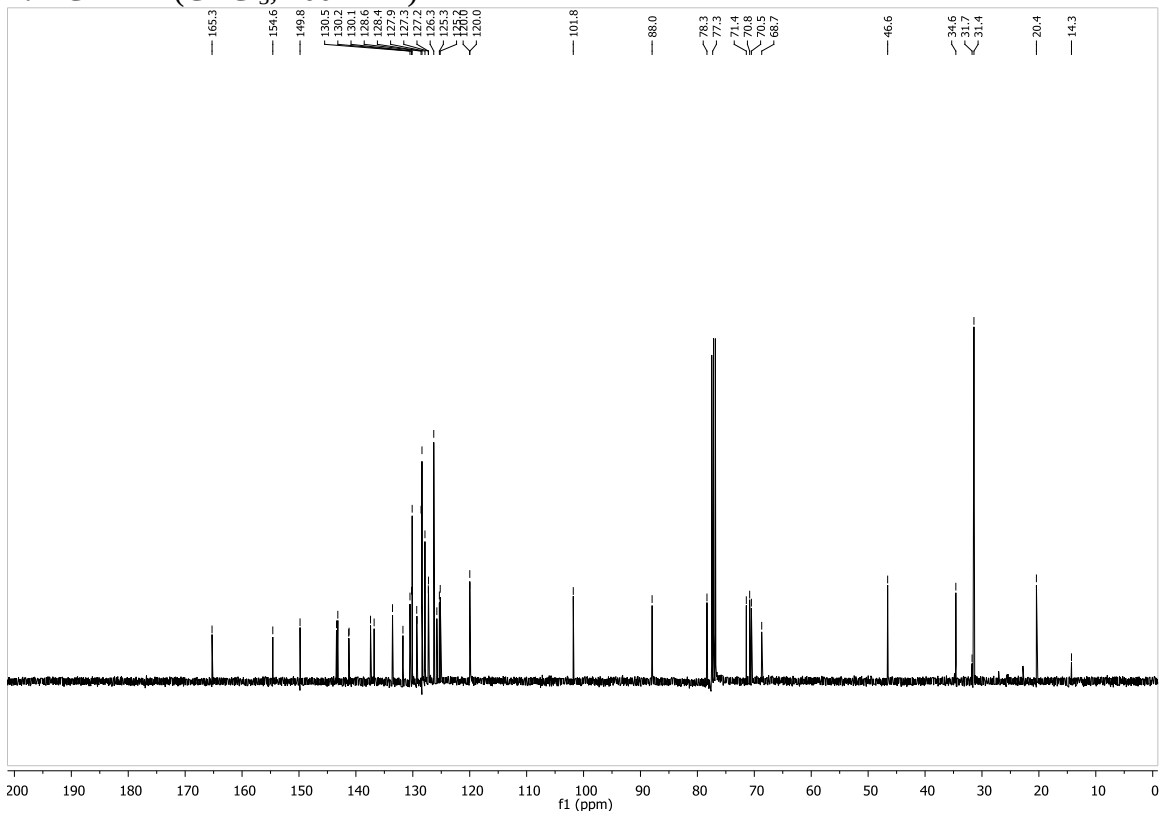
18: ^{13}C NMR (CDCl_3 , 100 MHz)



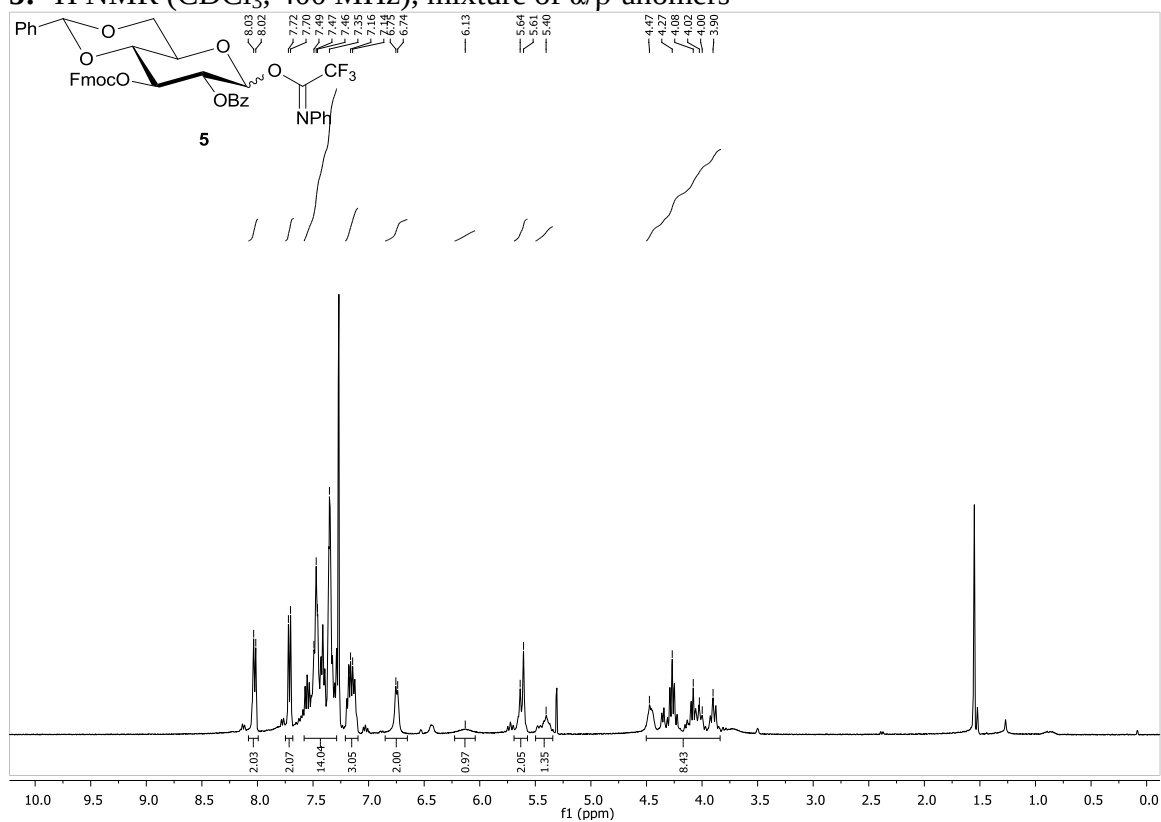
4: ^1H NMR (CDCl_3 , 400 MHz)



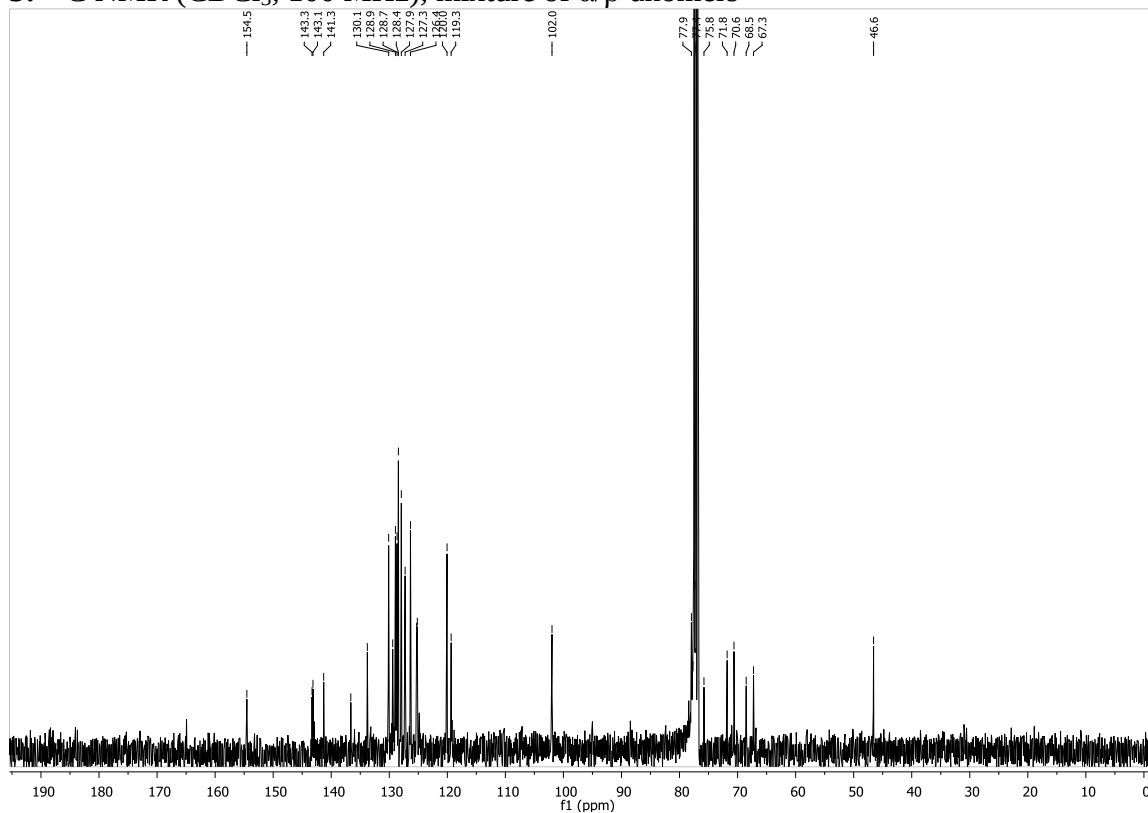
4: ^{13}C NMR (CDCl_3 , 100 MHz)



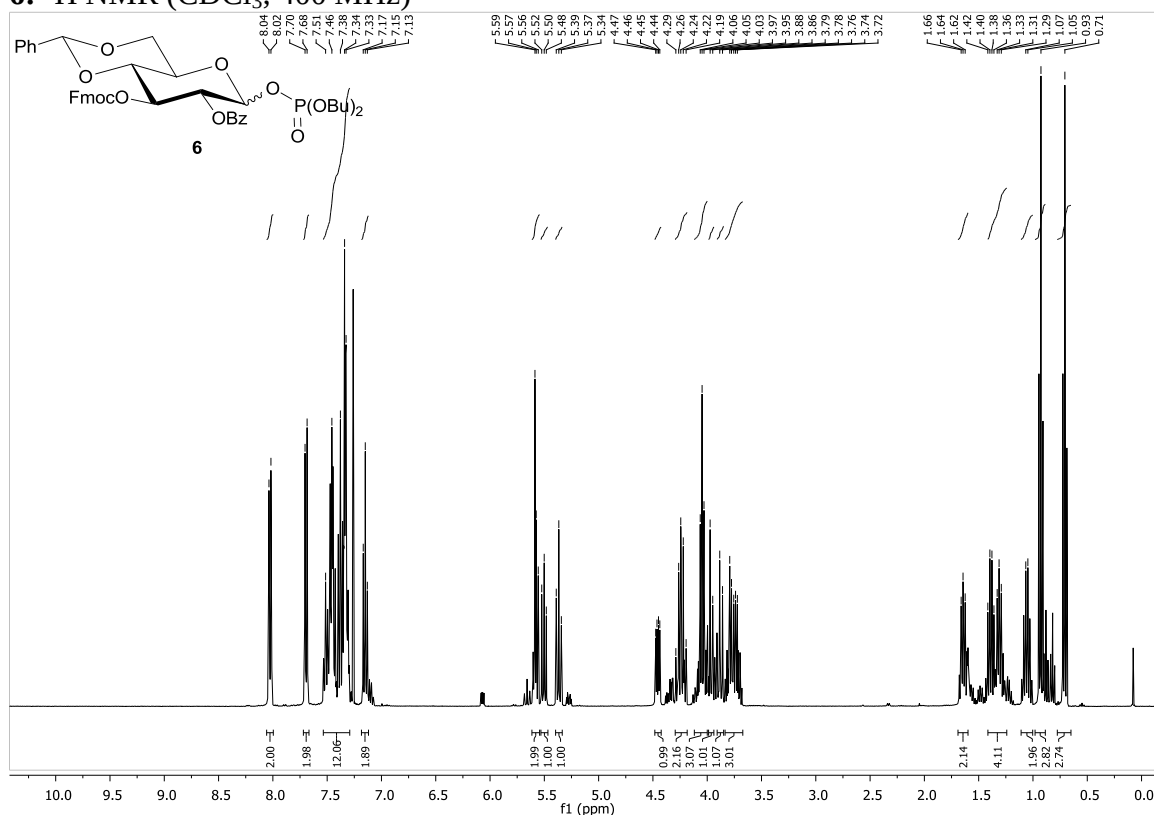
5: ^1H NMR (CDCl_3 , 400 MHz), mixture of α/β -anomers



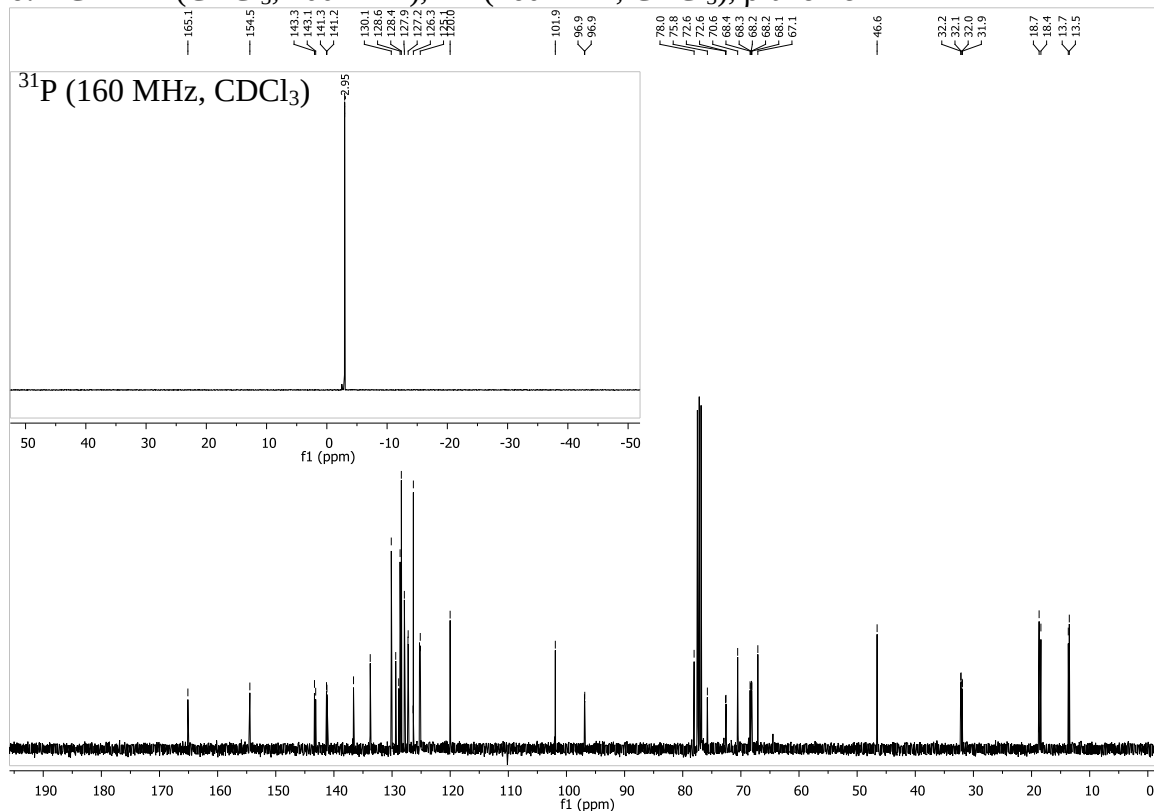
5: ^{13}C NMR (CDCl_3 , 100 MHz), mixture of α/β -anomers



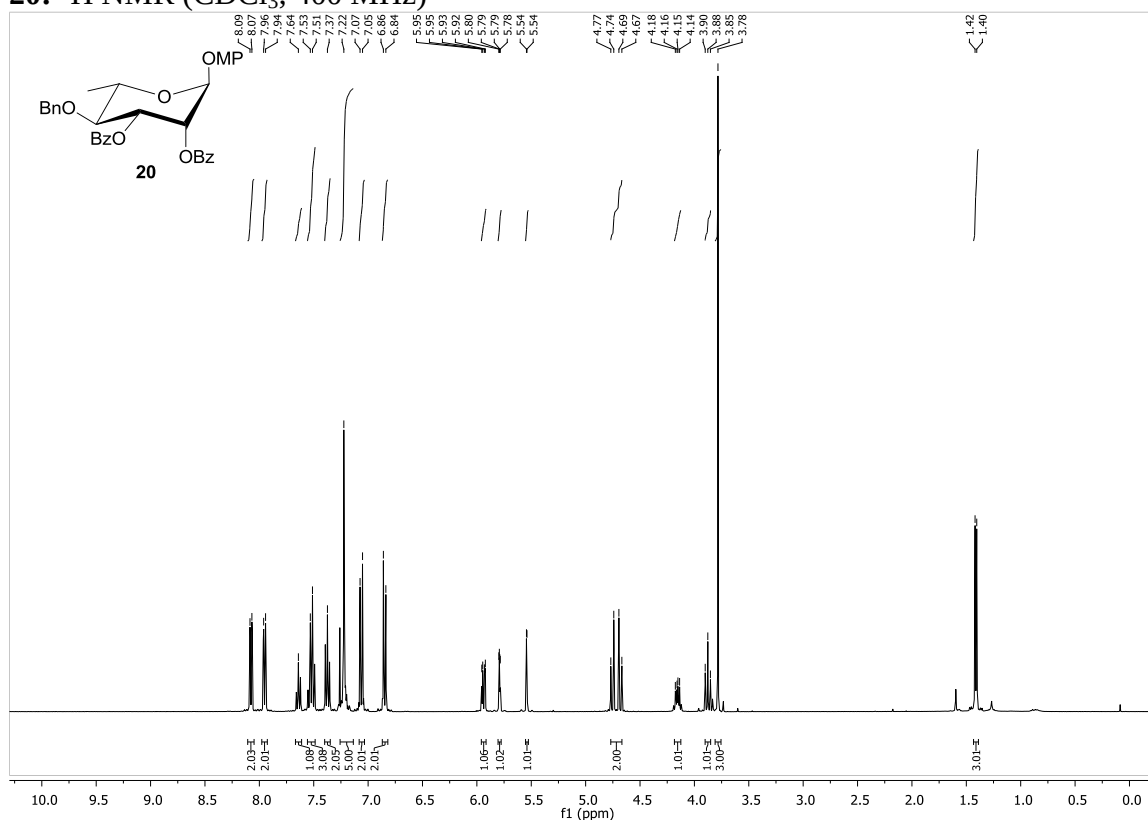
6: ^1H NMR (CDCl_3 , 400 MHz)



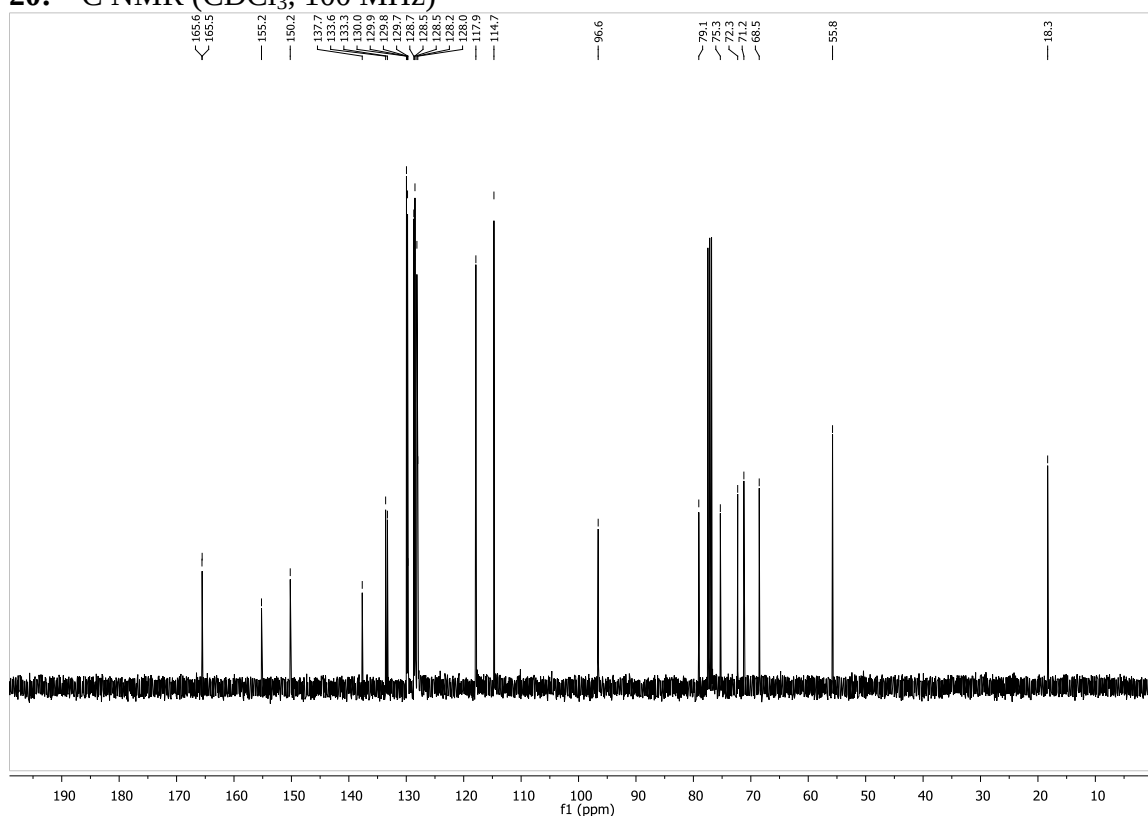
6: ^{13}C NMR (CDCl_3 , 100 MHz), ^{31}P (160 MHz, CDCl_3), β -anomer



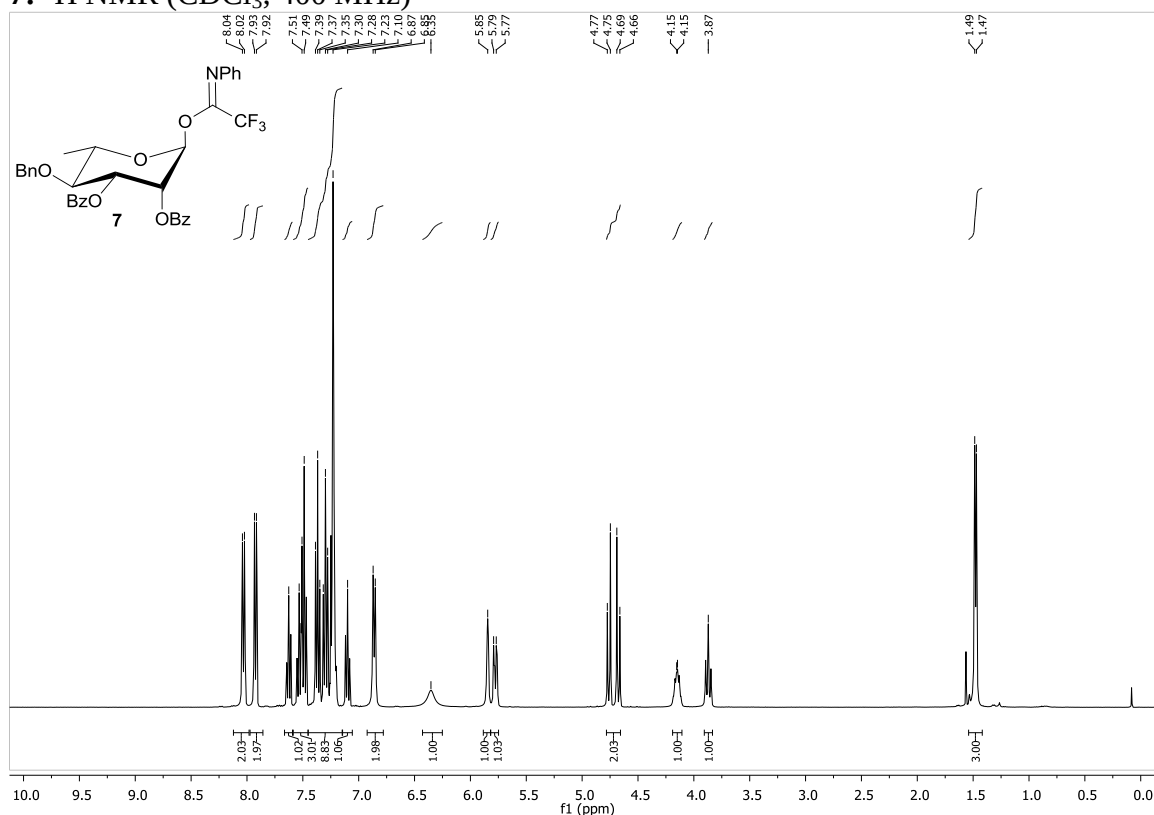
20: ^1H NMR (CDCl_3 , 400 MHz)



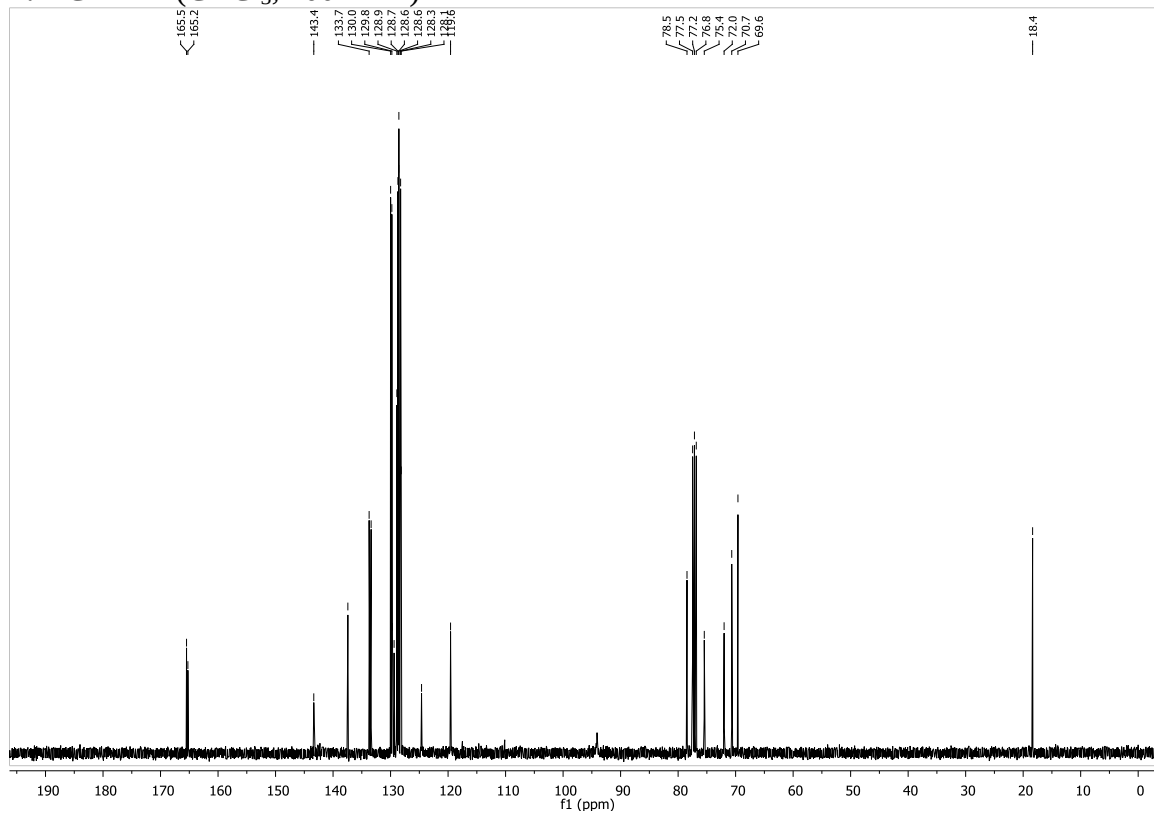
20: ^{13}C NMR (CDCl_3 , 100 MHz)



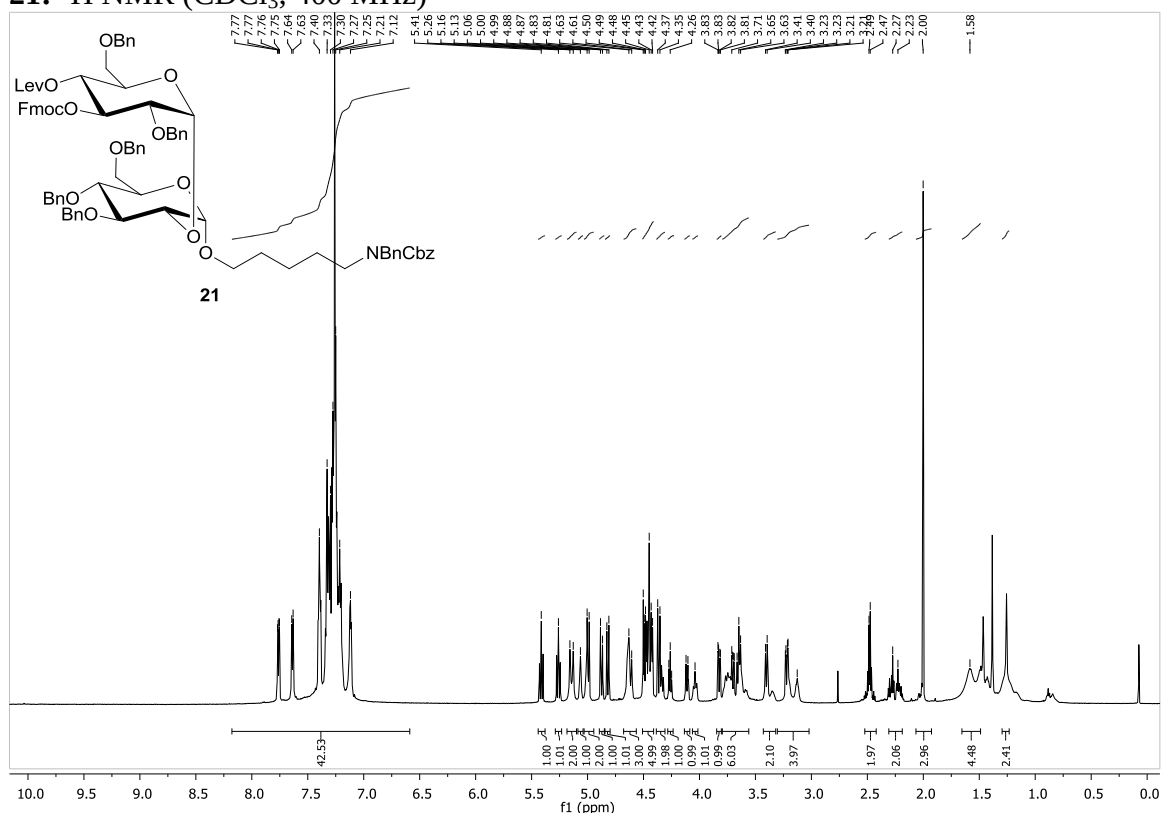
7: ^1H NMR (CDCl_3 , 400 MHz)



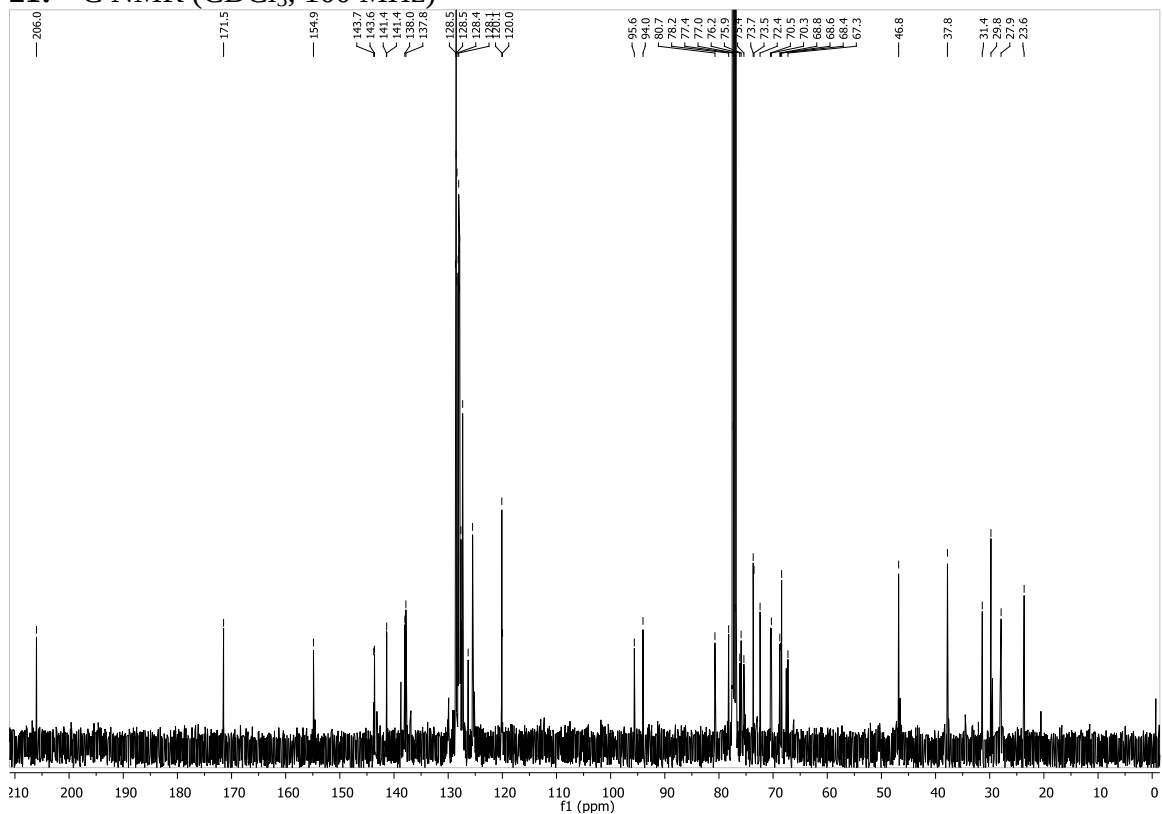
7: ^{13}C NMR (CDCl_3 , 100 MHz)



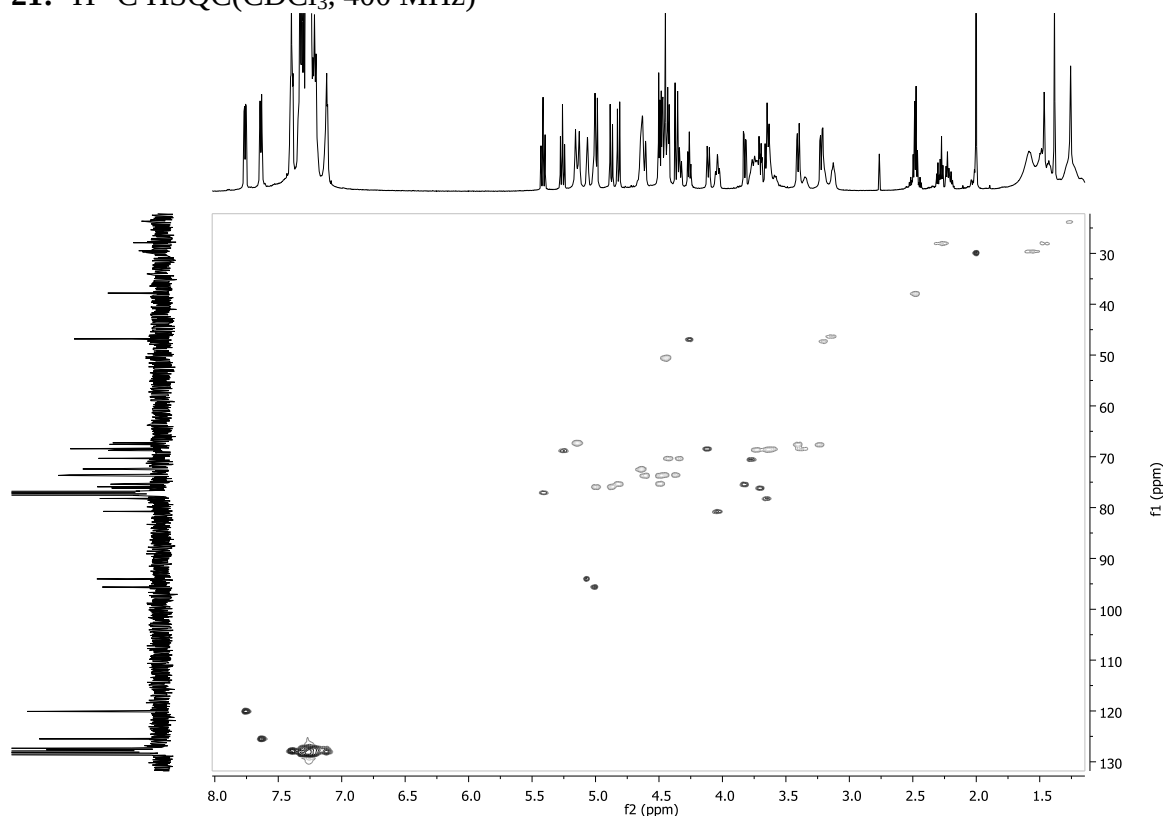
21: ^1H NMR (CDCl_3 , 400 MHz)



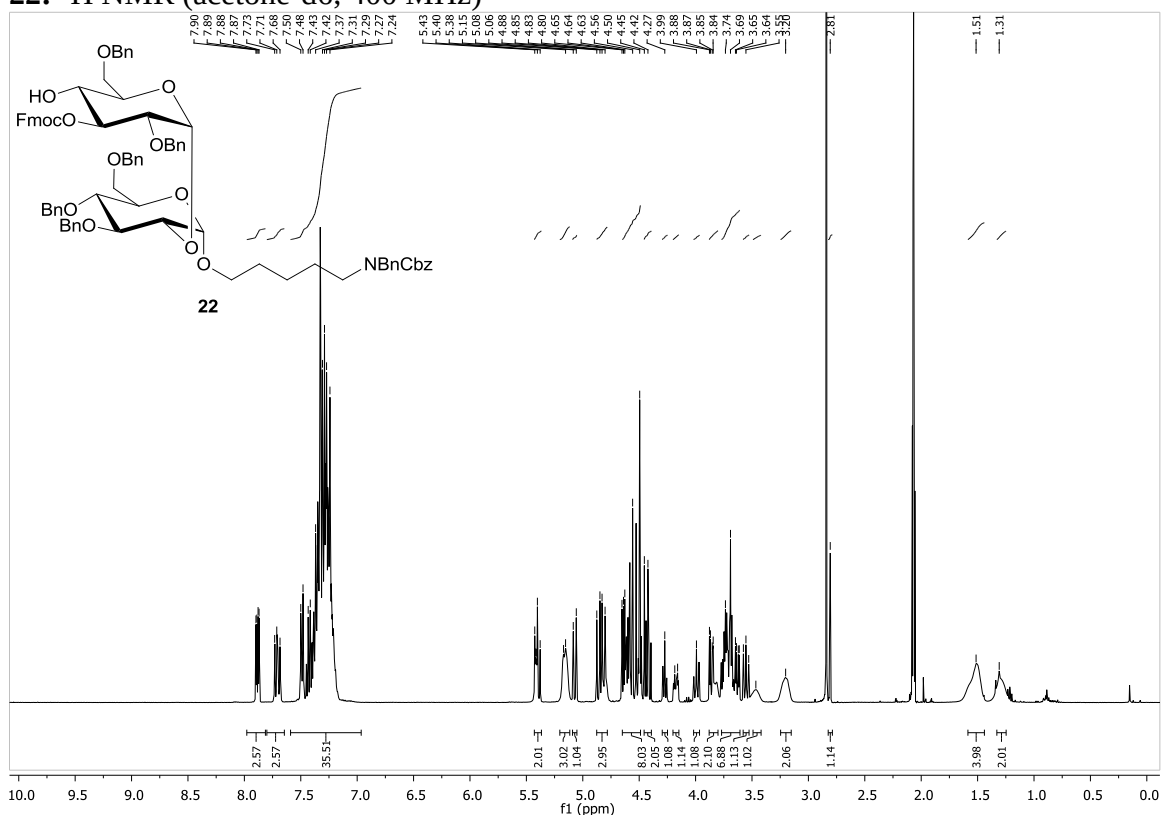
21: ^{13}C NMR (CDCl_3 , 100 MHz)



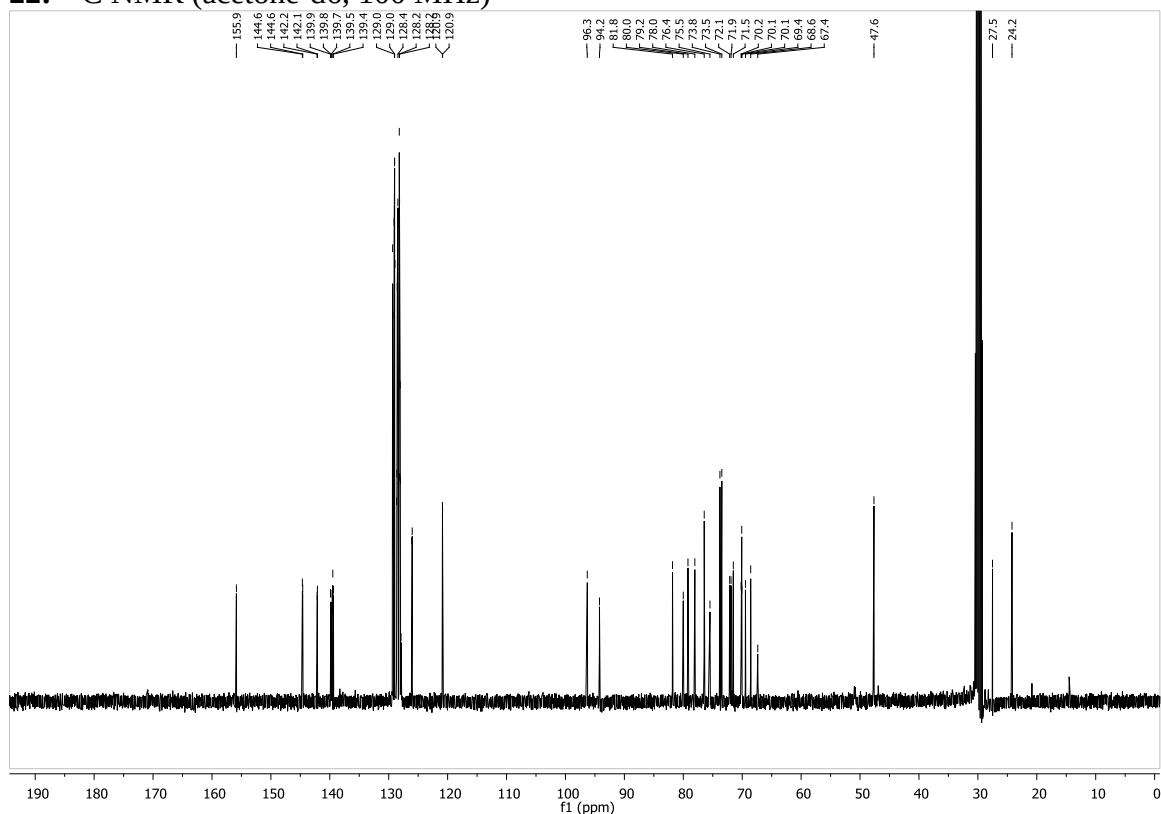
21: $^1\text{H}^{13}\text{C}$ HSQC(CDCl_3 , 400 MHz)



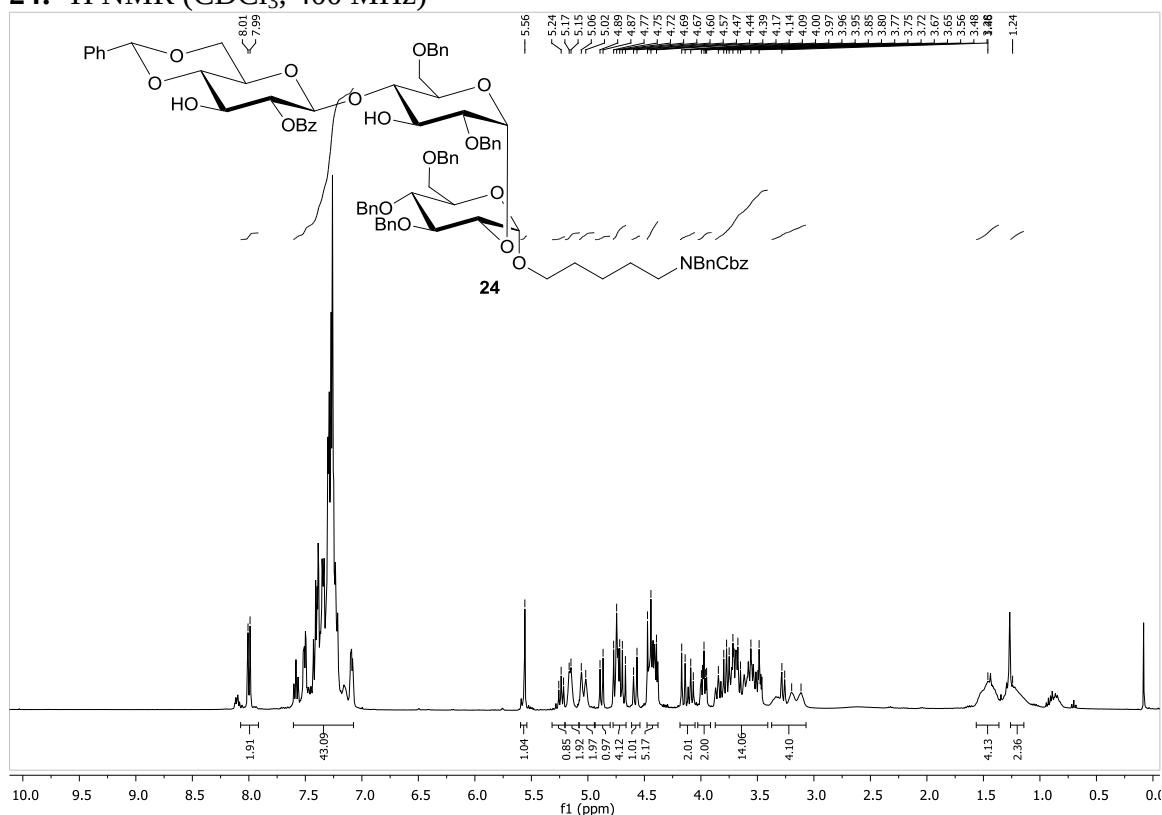
22: ^1H NMR (acetone- d_6 , 400 MHz)



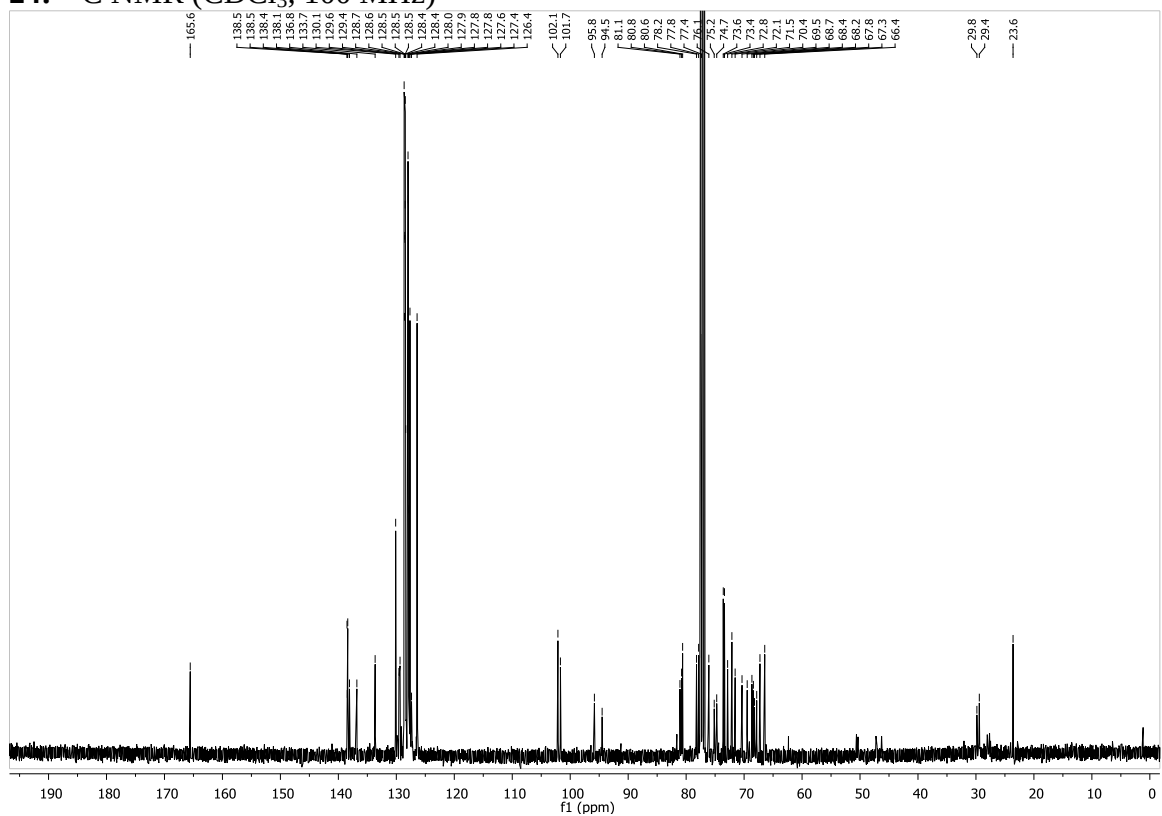
22: ^{13}C NMR (acetone- d_6 , 100 MHz)



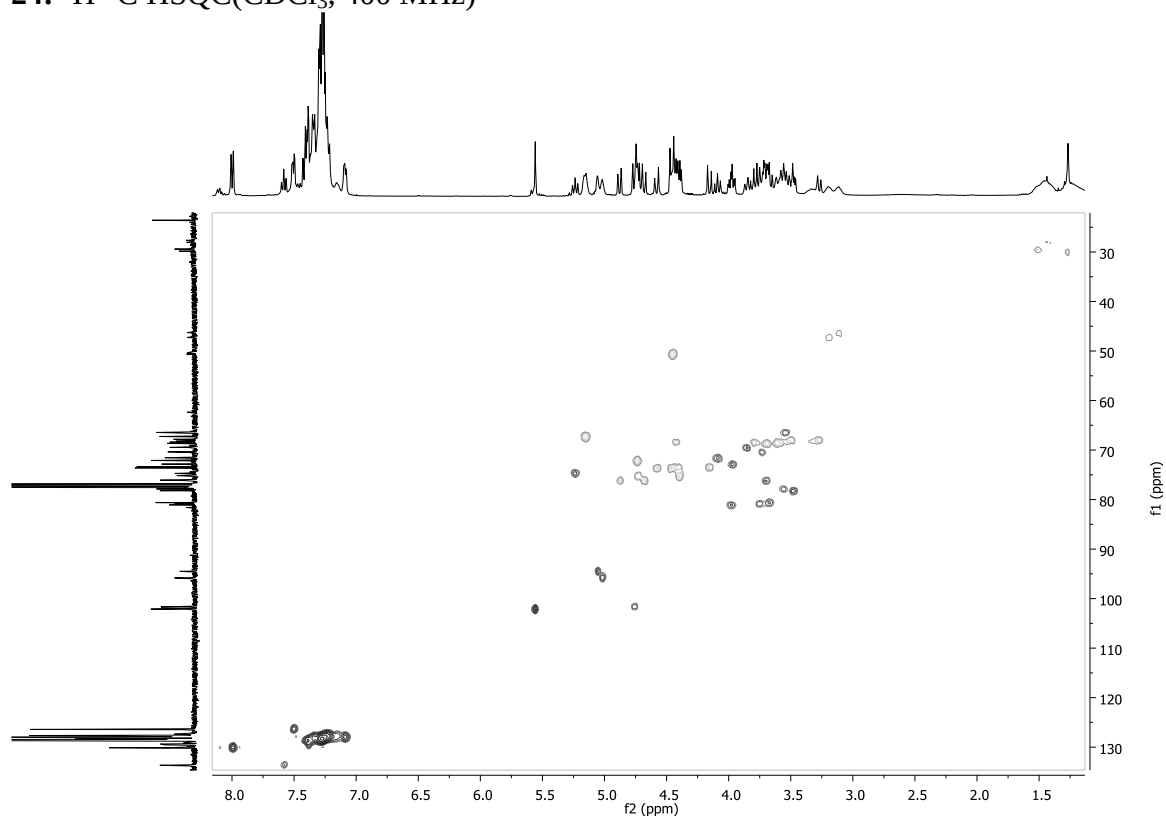
24: ^1H NMR (CDCl_3 , 400 MHz)



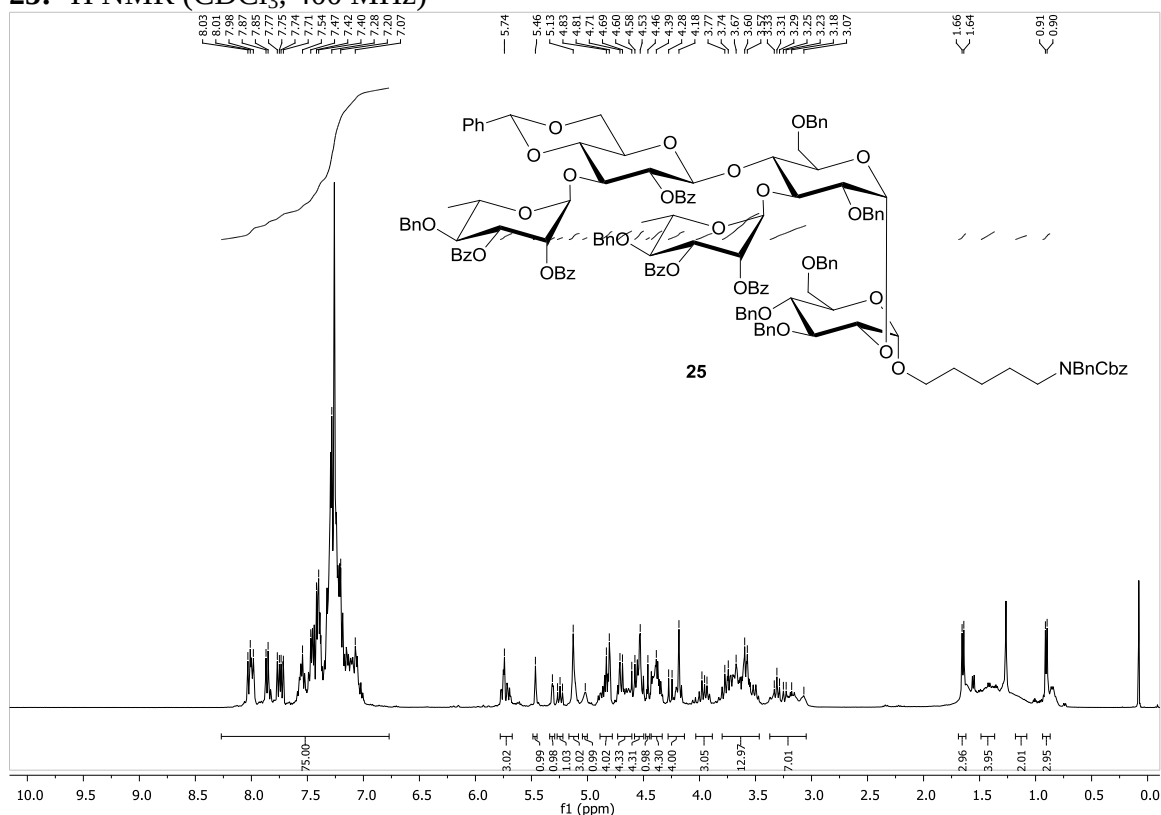
24: ^{13}C NMR (CDCl_3 , 100 MHz)



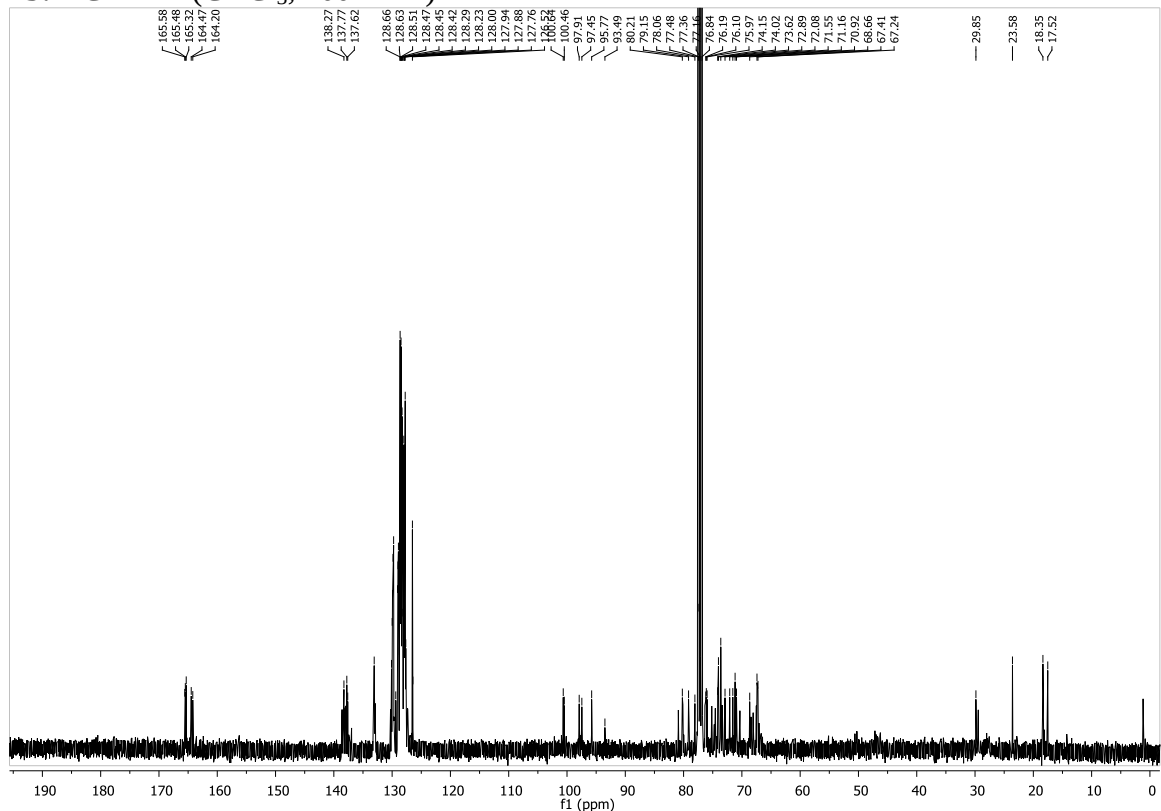
24: $^1\text{H}^{13}\text{C}$ HSQC(CDCl_3 , 400 MHz)



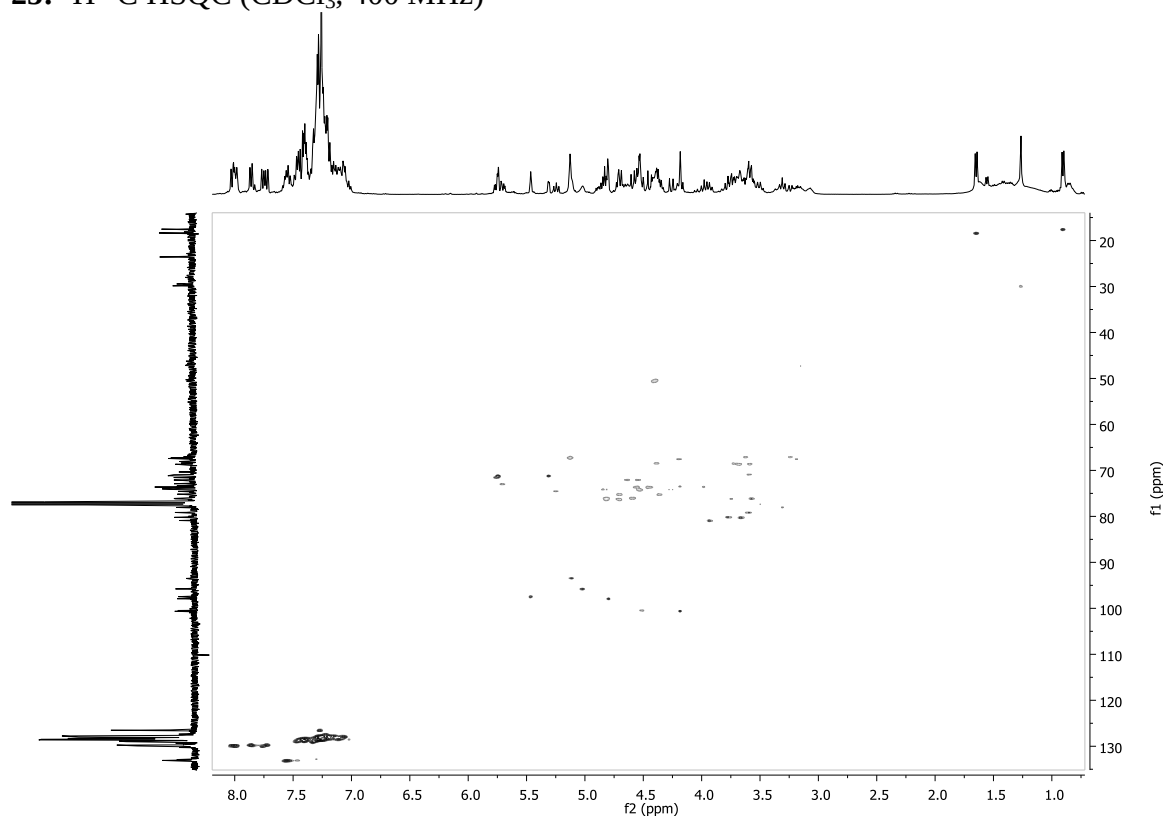
25: ^1H NMR (CDCl_3 , 400 MHz)



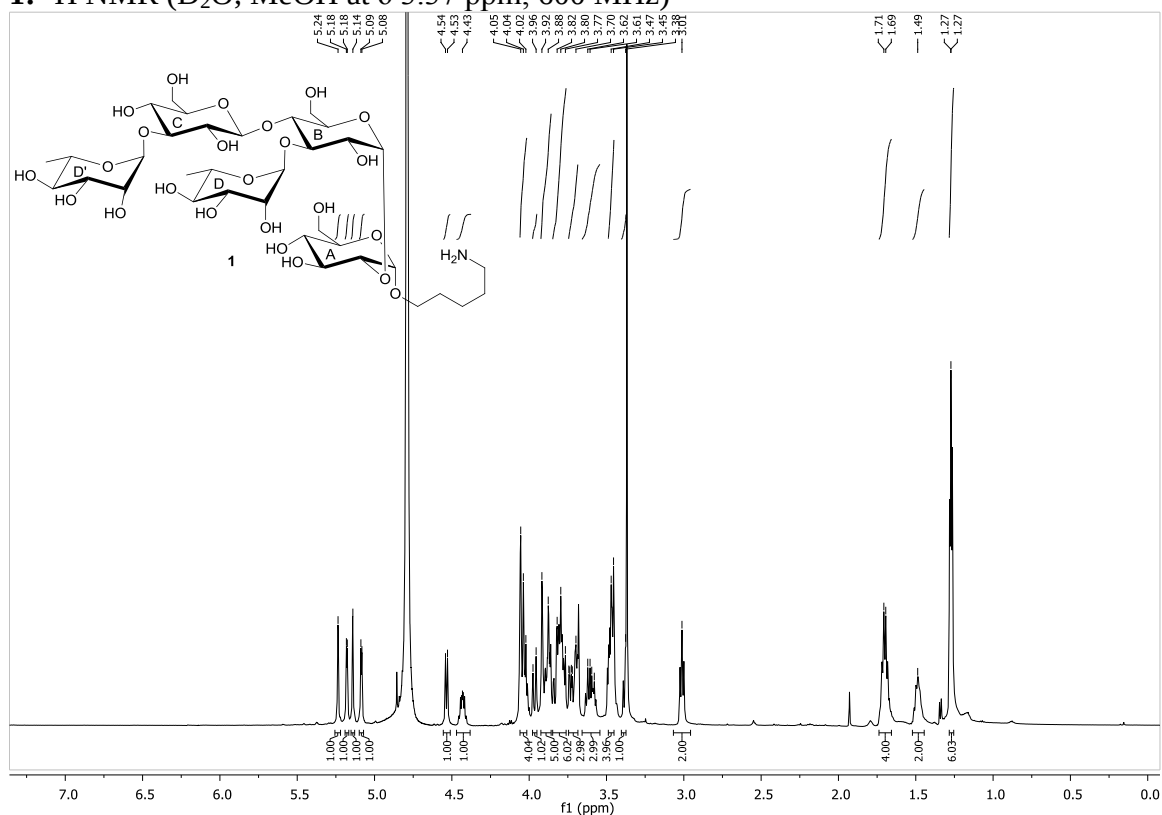
25: ^{13}C NMR (CDCl_3 , 100 MHz)



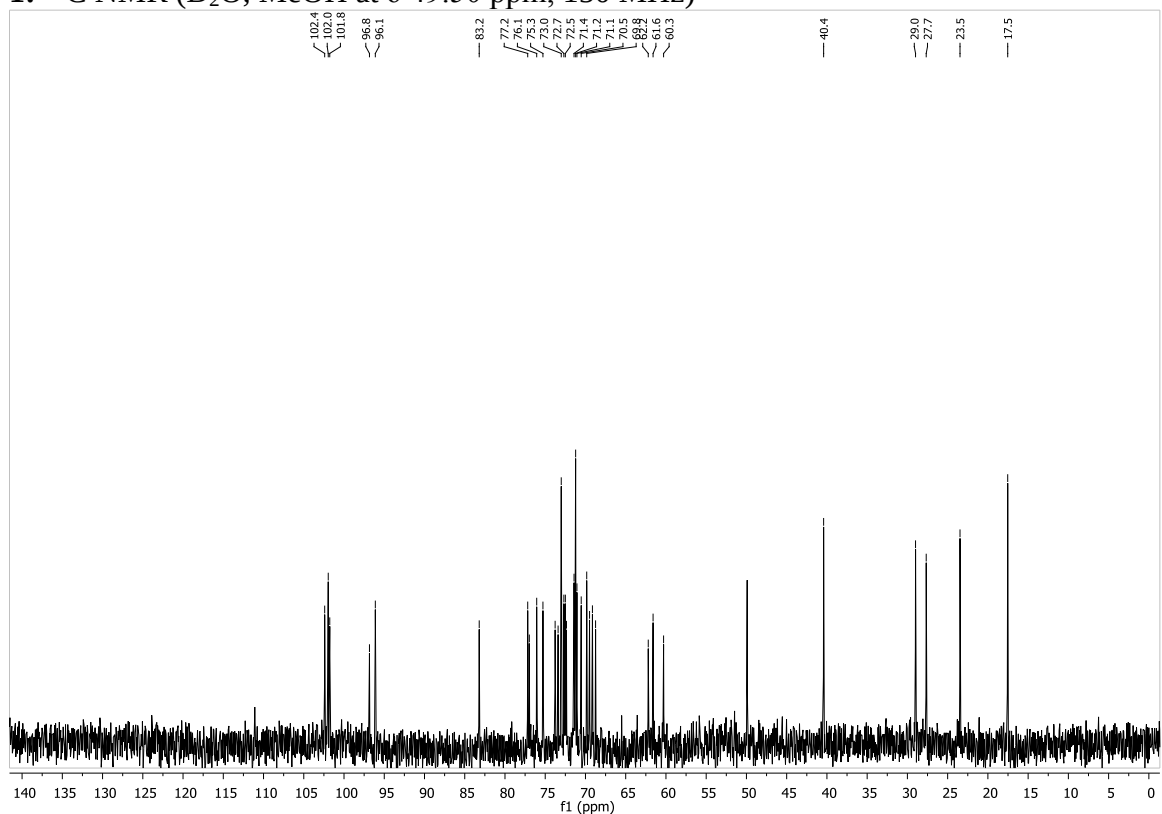
25: $^1\text{H}^{13}\text{C}$ HSQC (CDCl_3 , 400 MHz)



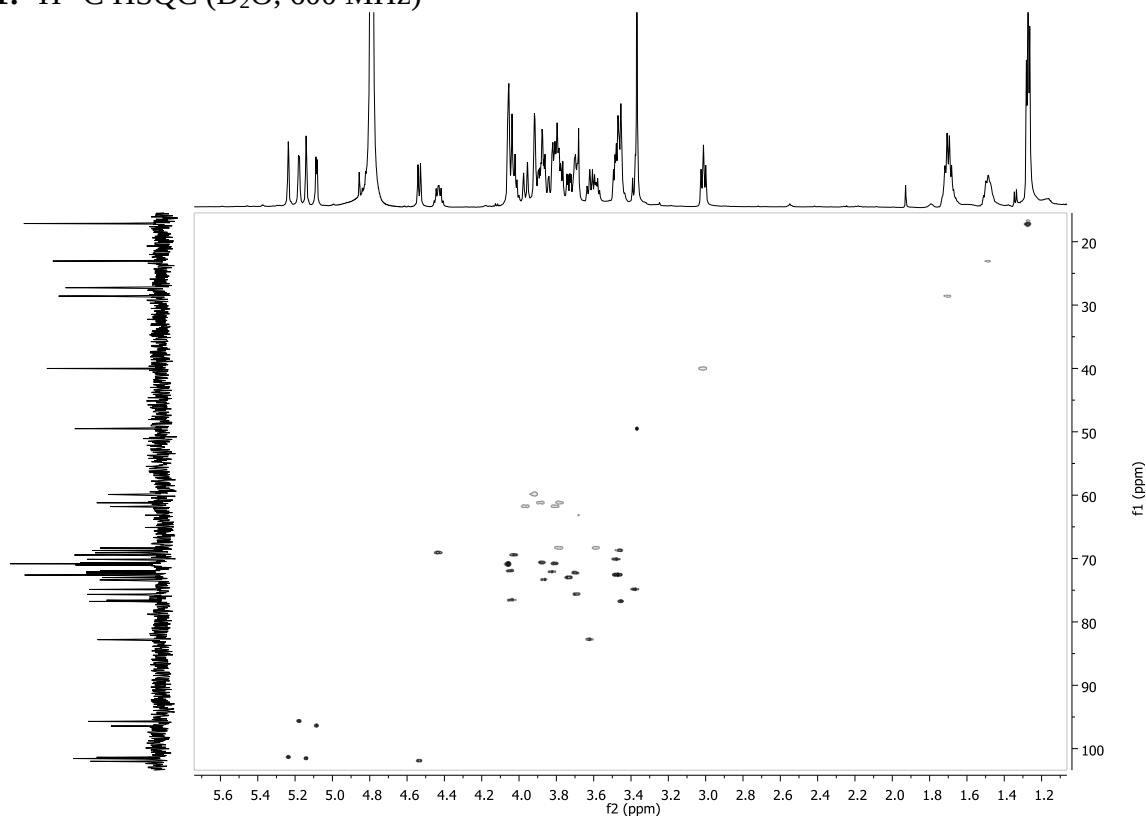
1: ^1H NMR (D_2O , MeOH at δ 3.37 ppm, 600 MHz)



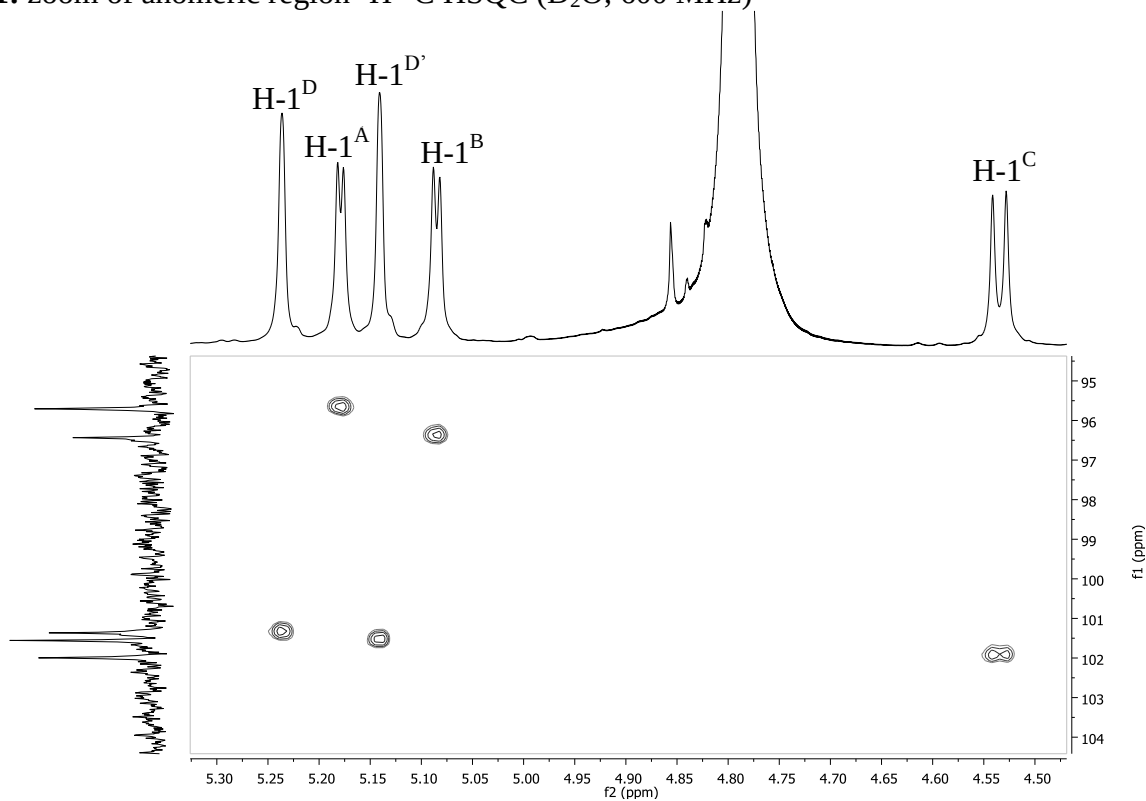
1: ^{13}C NMR (D_2O , MeOH at δ 49.50 ppm, 150 MHz)



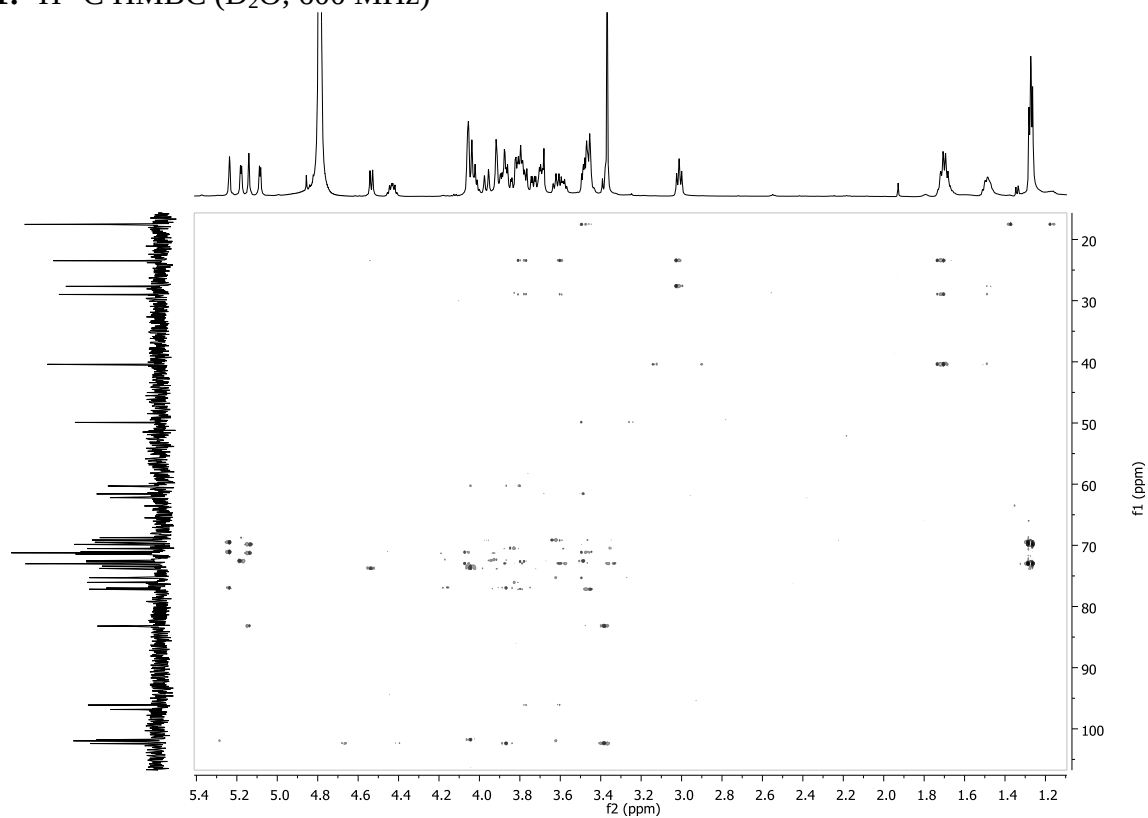
1: $^1\text{H}^{13}\text{C}$ HSQC (D_2O , 600 MHz)



1: zoom of anomeric region $^1\text{H}^{13}\text{C}$ HSQC (D_2O , 600 MHz)



1: $^1\text{H}^{13}\text{C}$ HMBC (D_2O , 600 MHz)



1: HRMS (MALDI-TOF)

