SUPPORTING INFORMATION

Synthesis of *β-C*-glycopyranosyl aldehydes and 2,6-anhydro-heptitols

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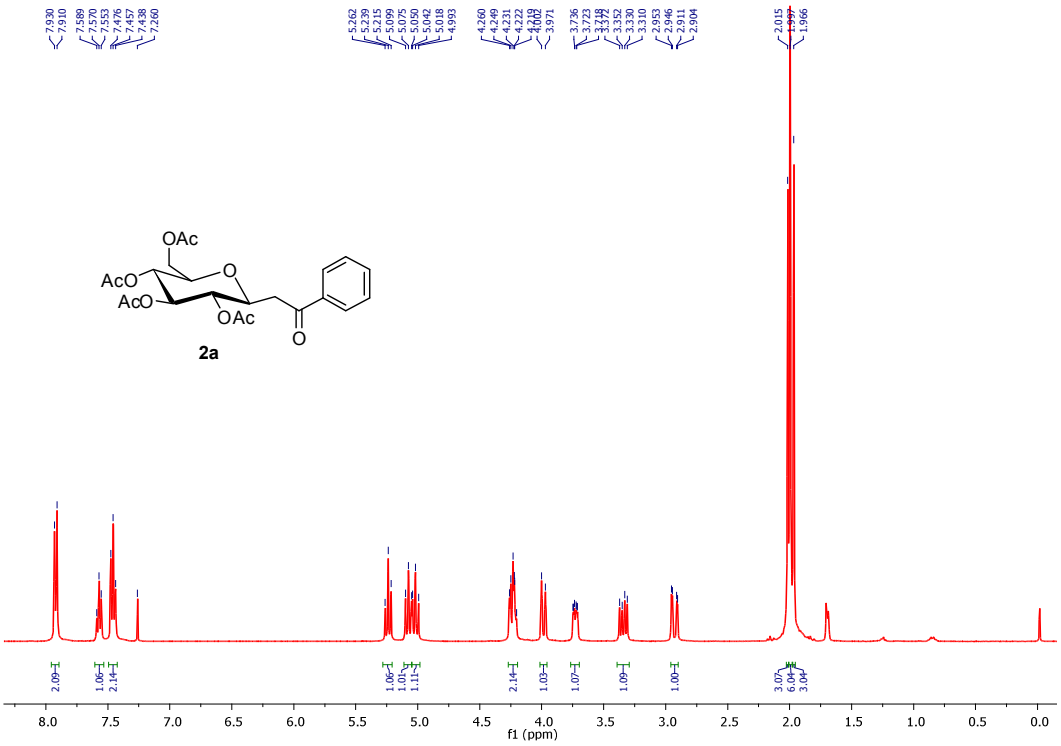

Figure S1. ^{1}H NMR spectrum of compound **2a** (400 MHz, $CDCl_3$)

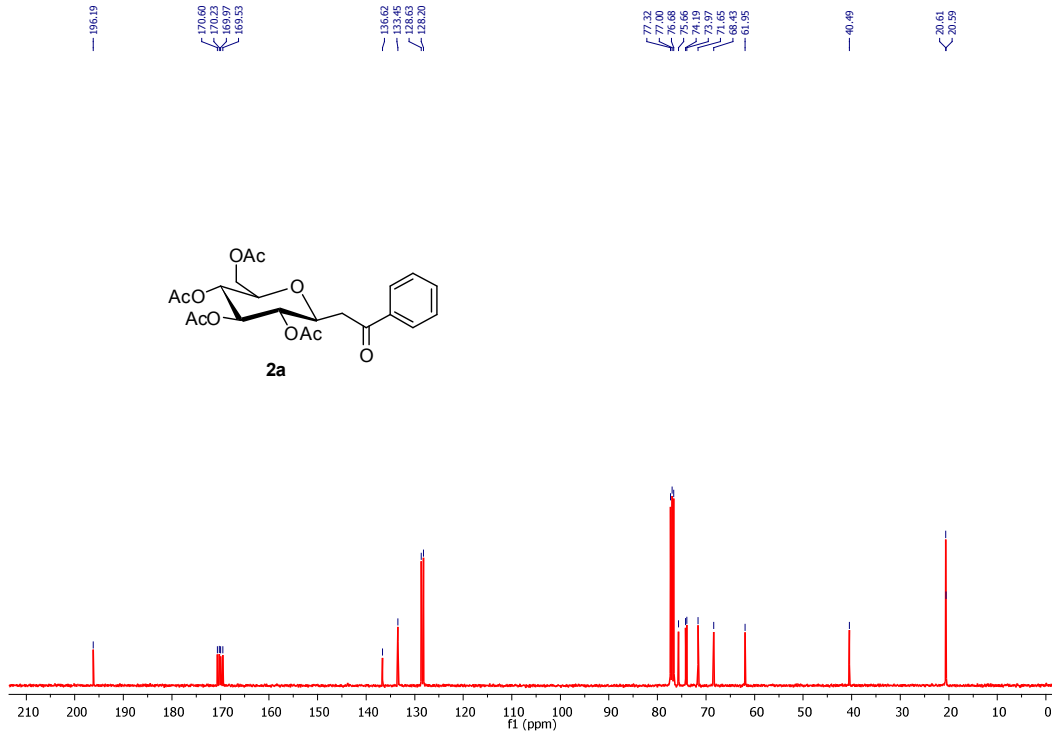

Figure S2. ^{13}C NMR spectrum of compound **2a** (100.6 MHz, $CDCl_3$)

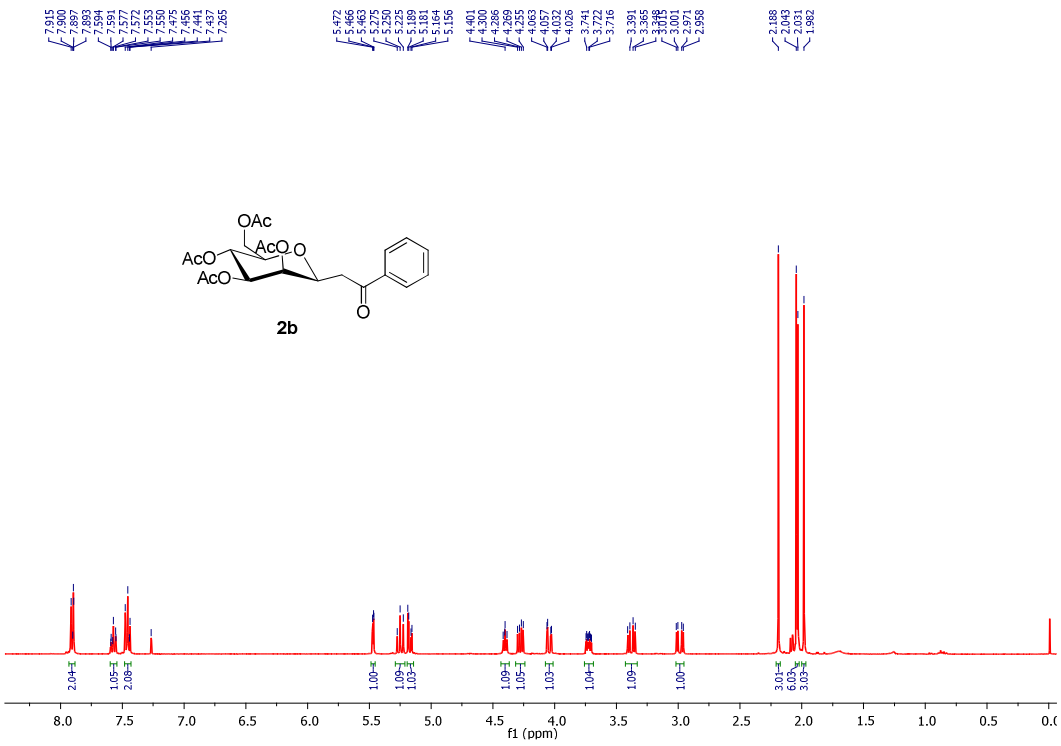

Figure S3. ^{1}H NMR spectrum of compound **2b** (400 MHz, $CDCl_3$)

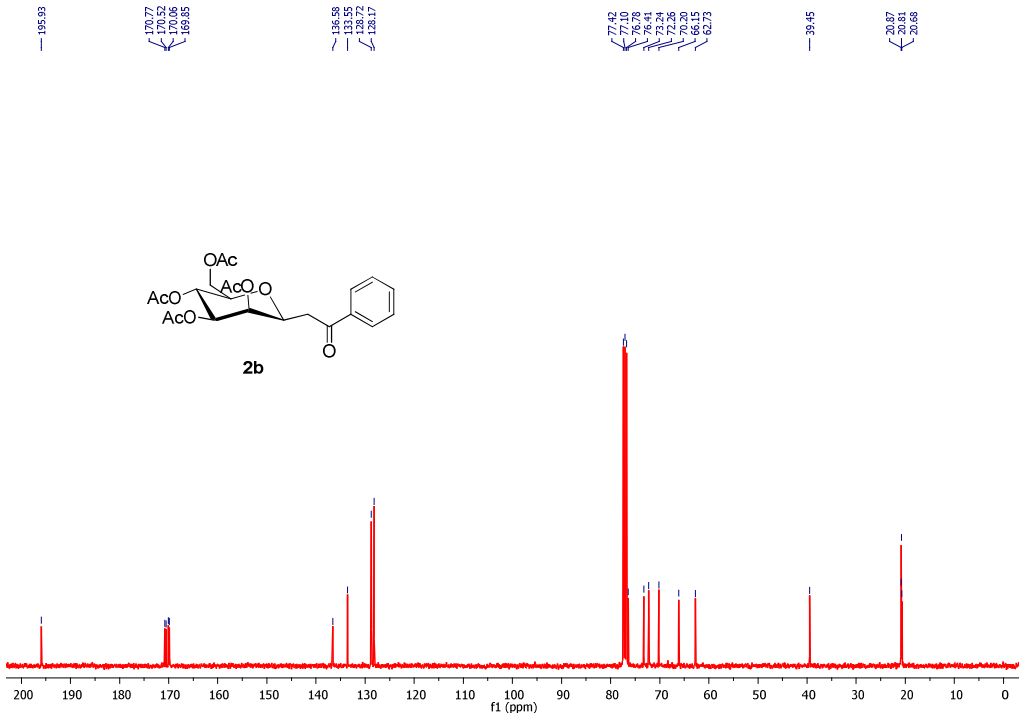

Figure S4. ^{13}C NMR spectrum of compound **2b** (100.6 MHz, $CDCl_3$)

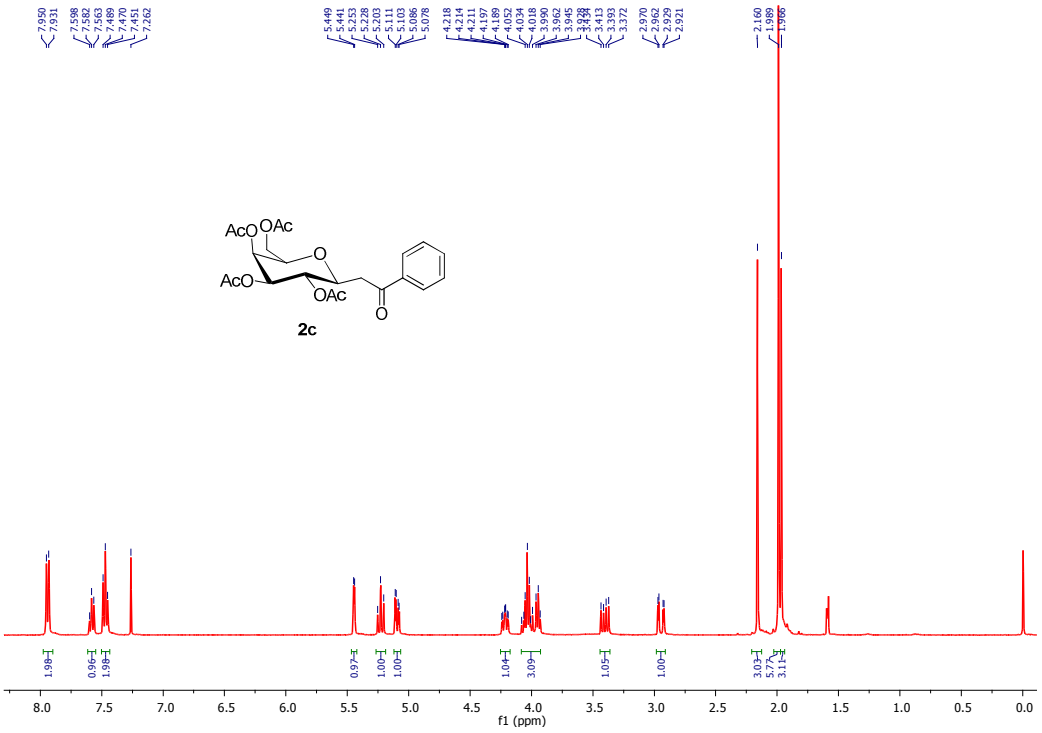

Figure S5. ^{1}H NMR spectrum of compound **2c** (400 MHz, $CDCl_3$)

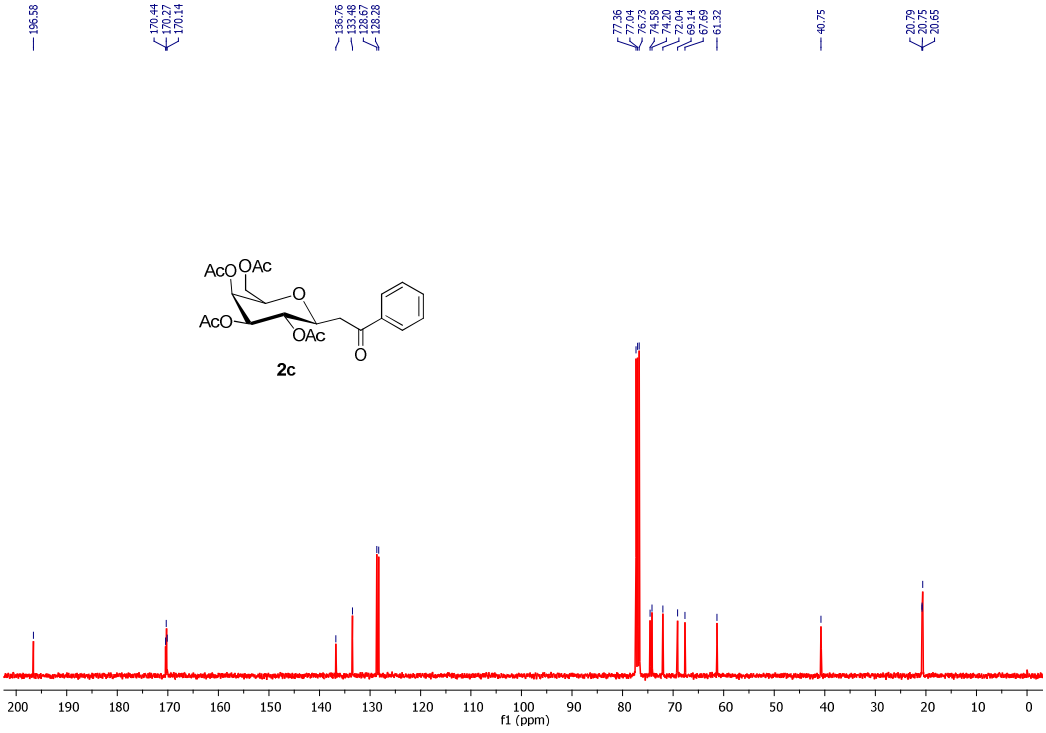

Figure S6. ^{13}C NMR spectrum of compound **2c** (100.6 MHz, $CDCl_3$)

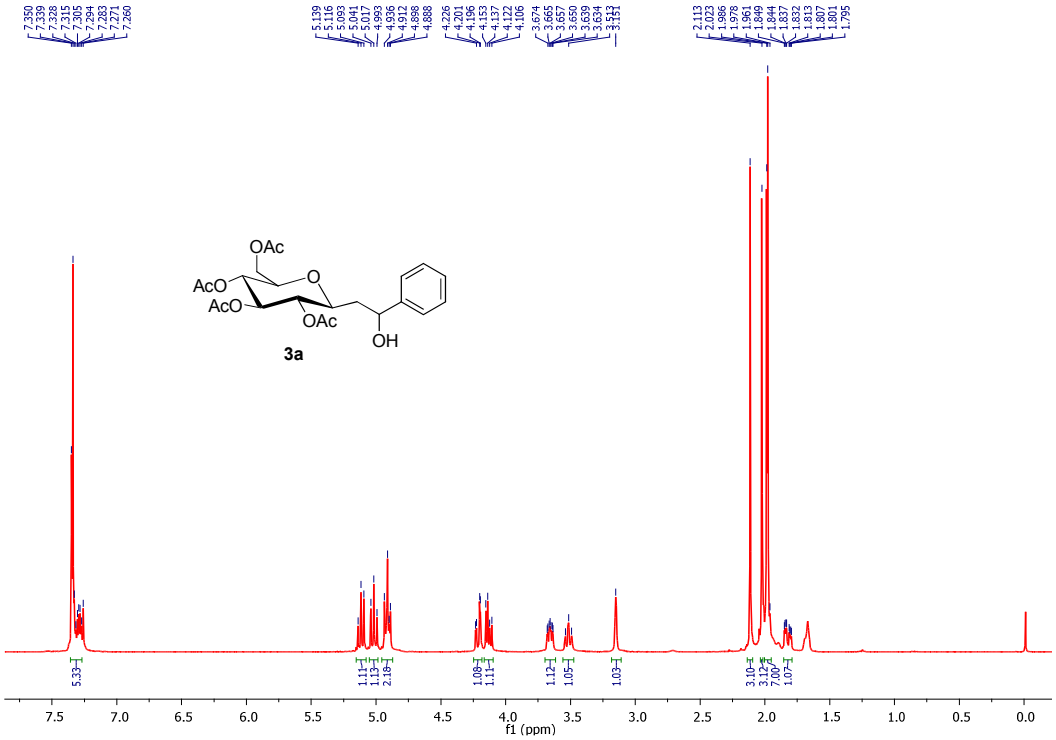

Figure S7. ^{1}H NMR spectrum of compound **3a** (400 MHz, $CDCl_3$)

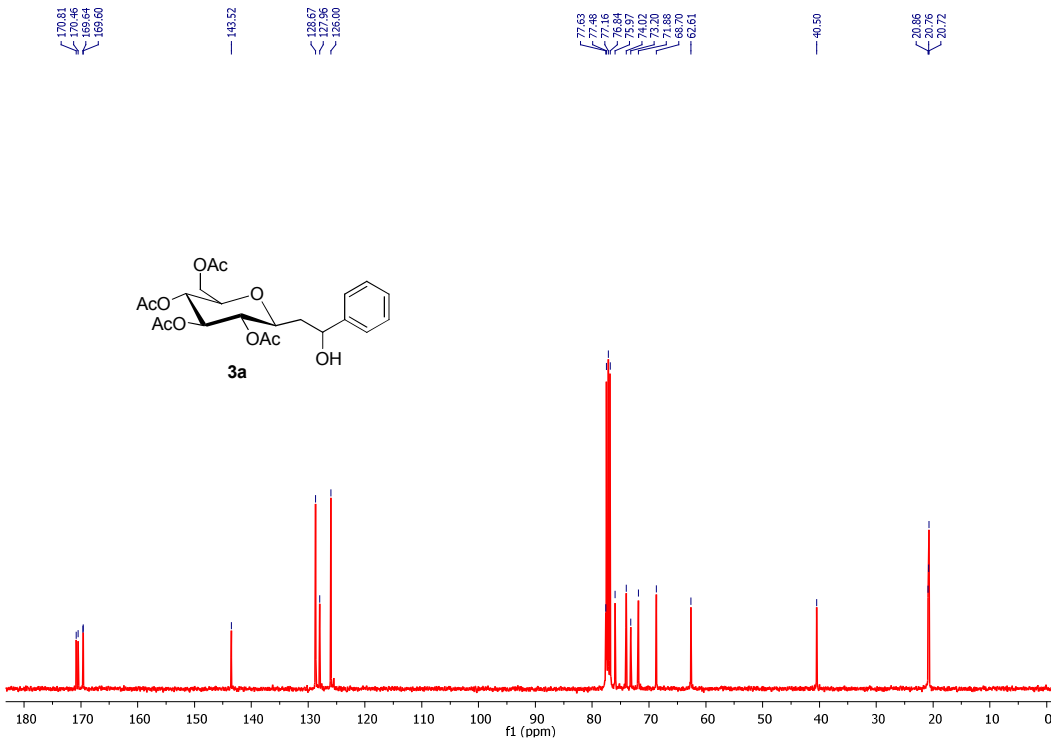

Figure S8. ^{13}C NMR spectrum of compound **3a** (100.6 MHz, $CDCl_3$)

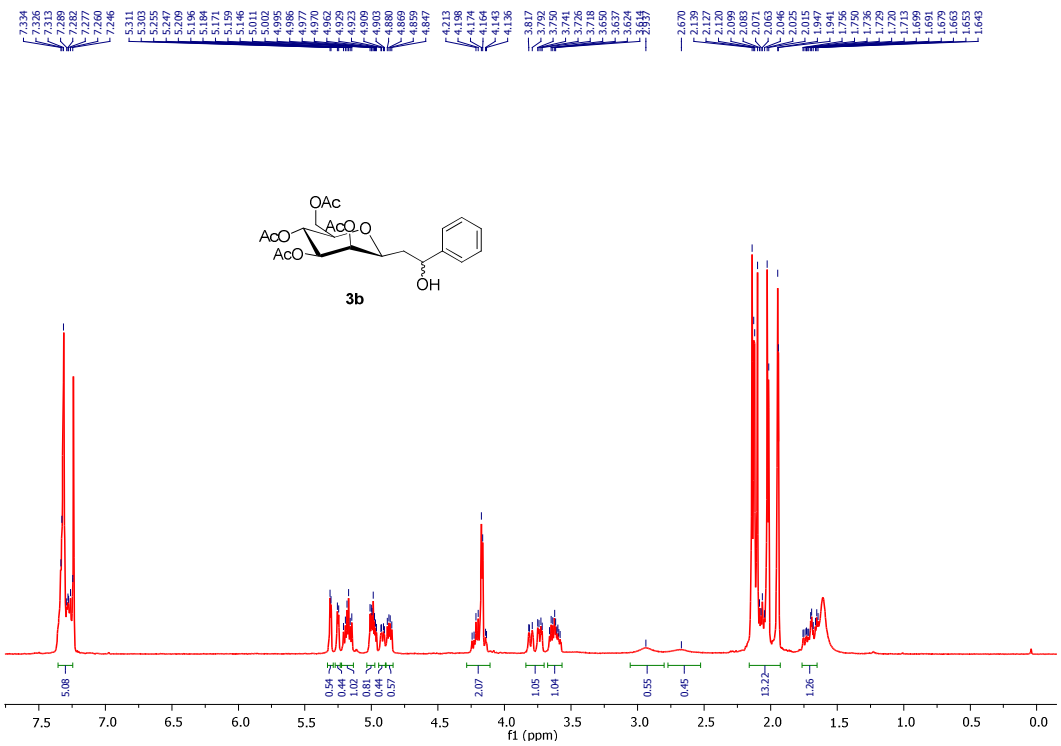

Figure S9. ^{1}H NMR spectrum of compound **3b** (400 MHz, $CDCl_3$)

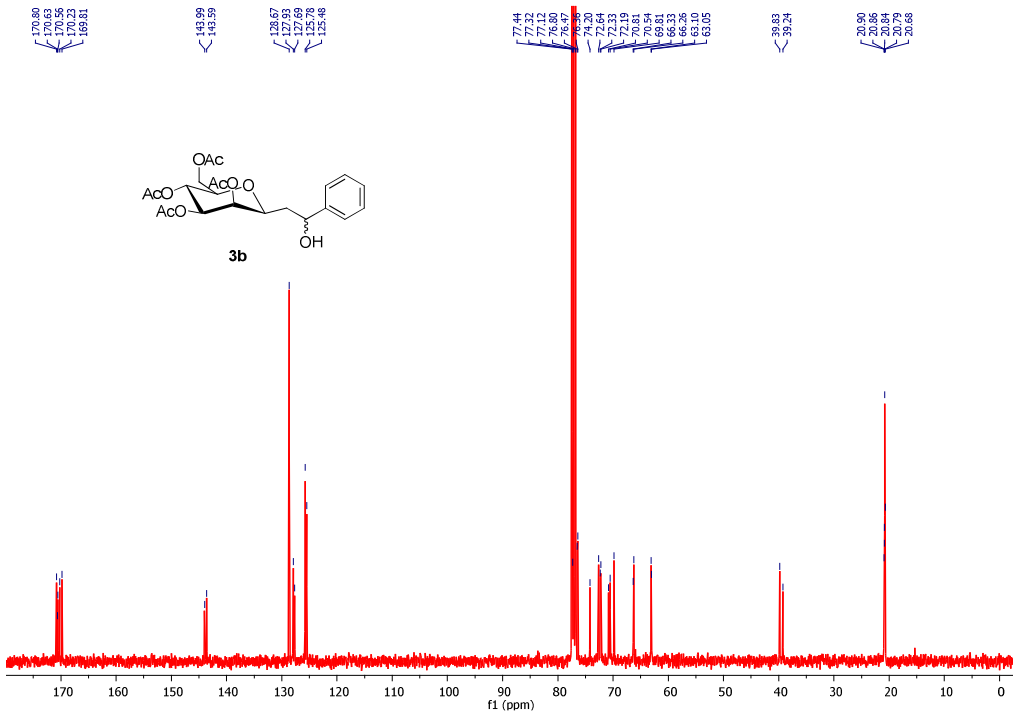

Figure S10. ^{13}C NMR spectrum of compound **3b** (100.6 MHz, $CDCl_3$)

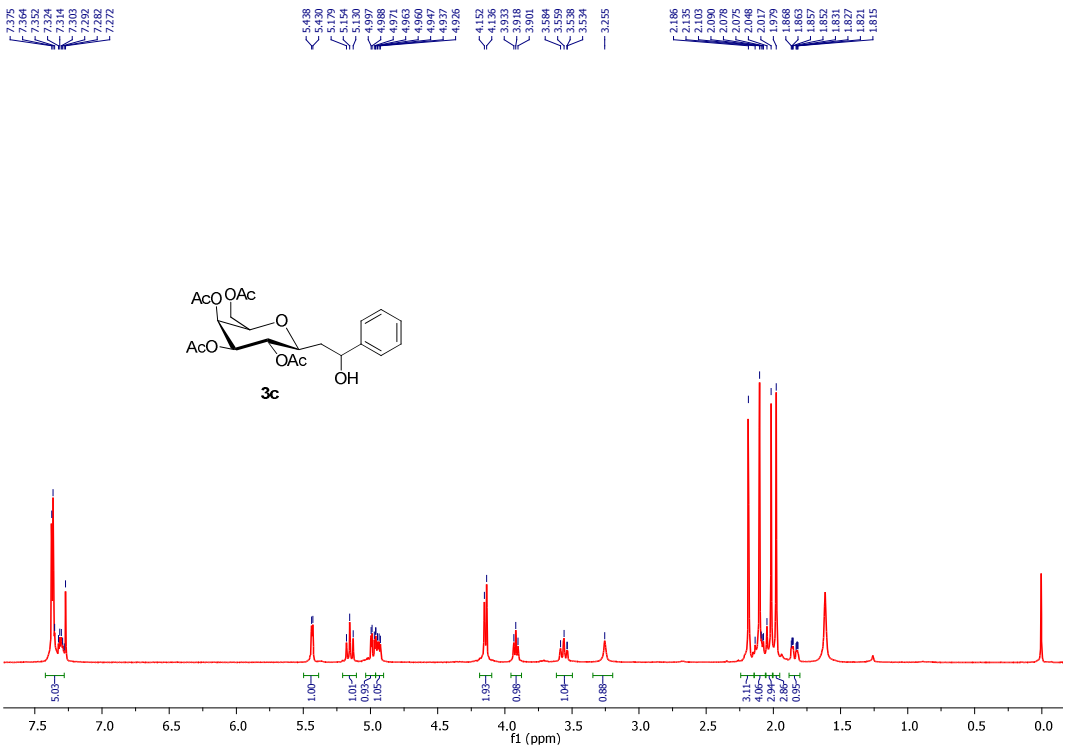

Figure S11. ^{1}H NMR spectrum of compound **3c** (400 MHz, $CDCl_3$)

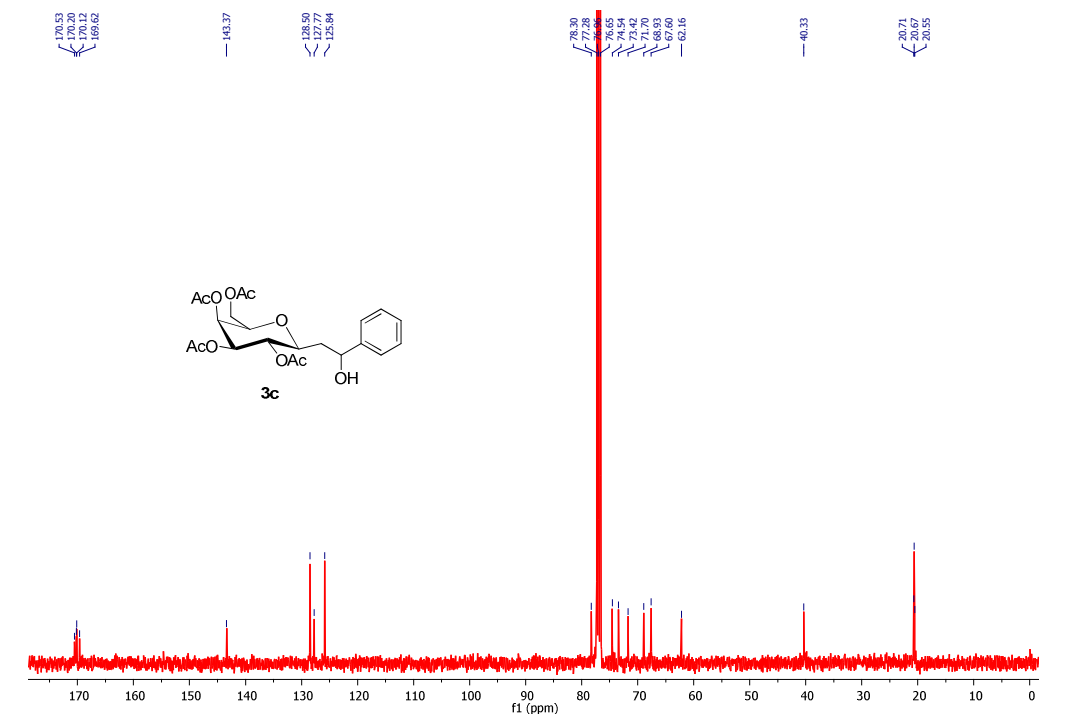

Figure S12. ^{13}C NMR spectrum of compound **3c** (100.6 MHz, $CDCl_3$)

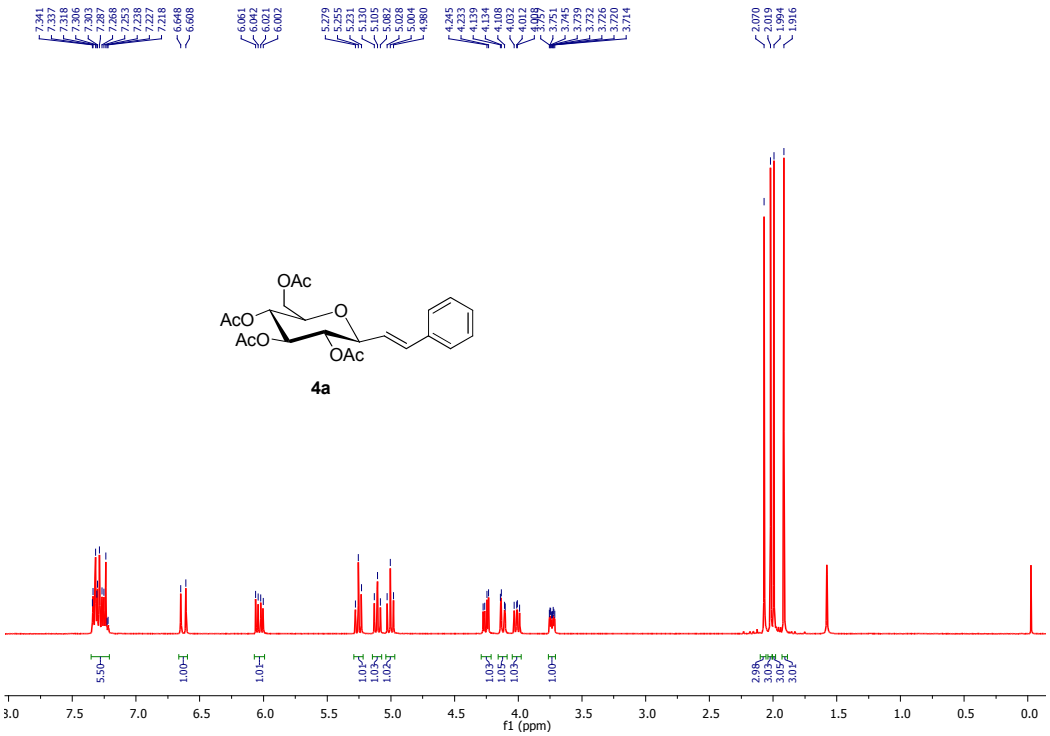

Figure S13. ^{1}H NMR spectrum of compound **4a** (400 MHz, $CDCl_3$)

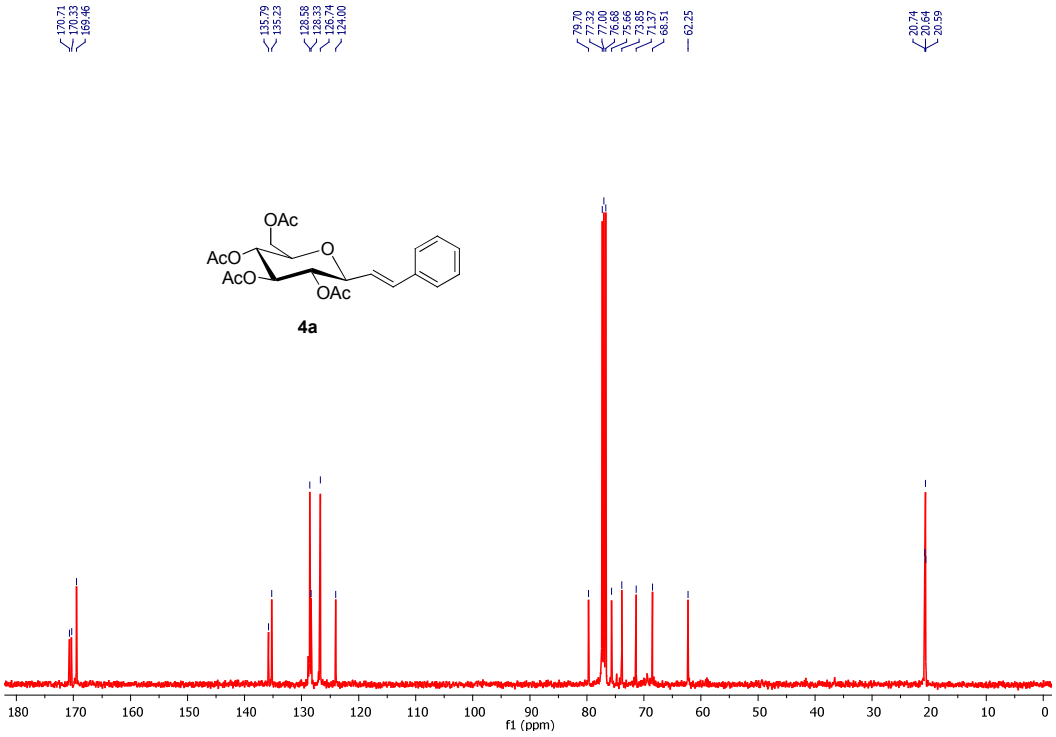

Figure S14. ^{13}C NMR spectrum of compound **4a** (100.6 MHz, $CDCl_3$)

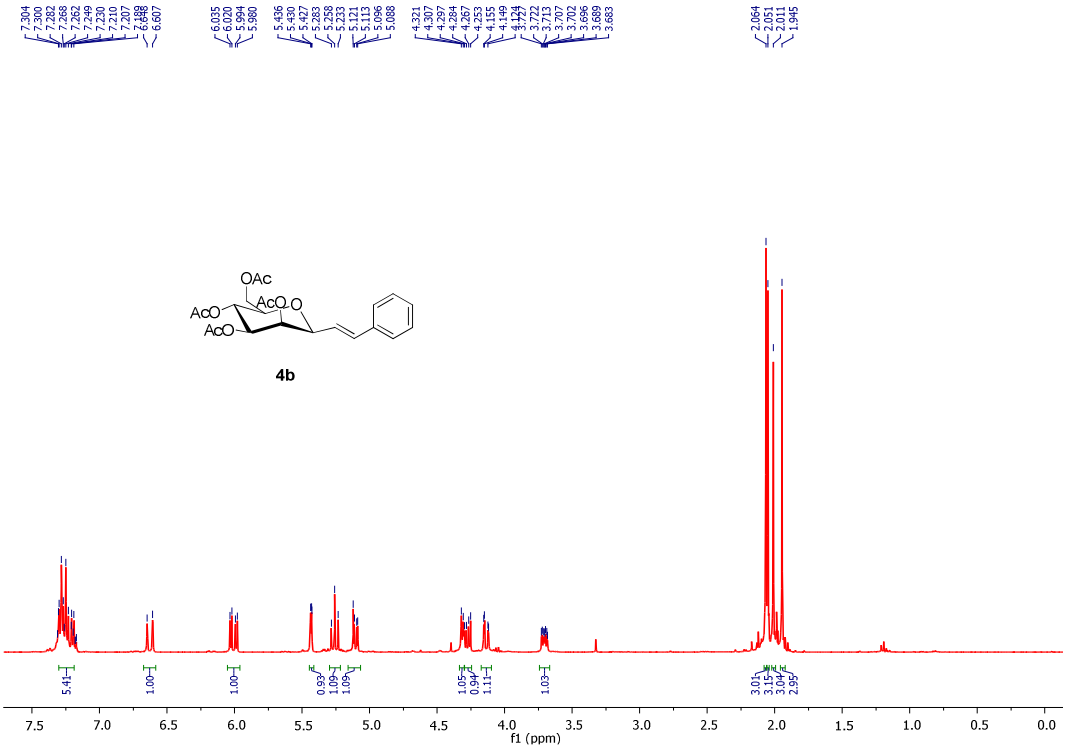

Figure S15. ^{1}H NMR spectrum of compound **4b** (400 MHz, $CDCl_3$)

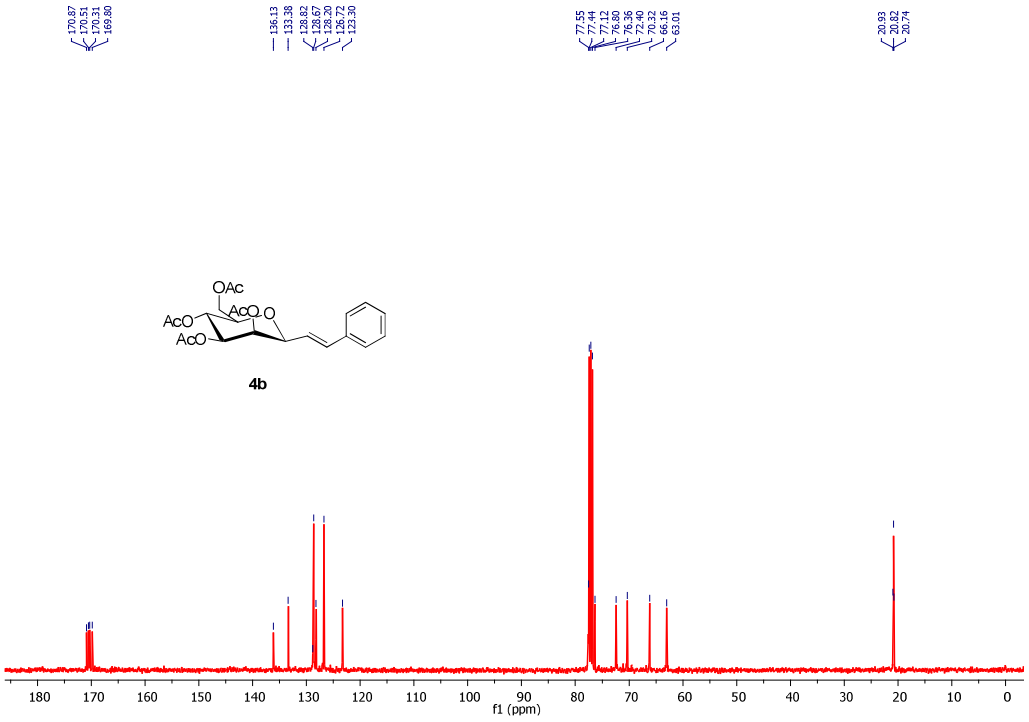

Figure S16. ^{13}C NMR spectrum of compound **4b** (100.6 MHz, $CDCl_3$)

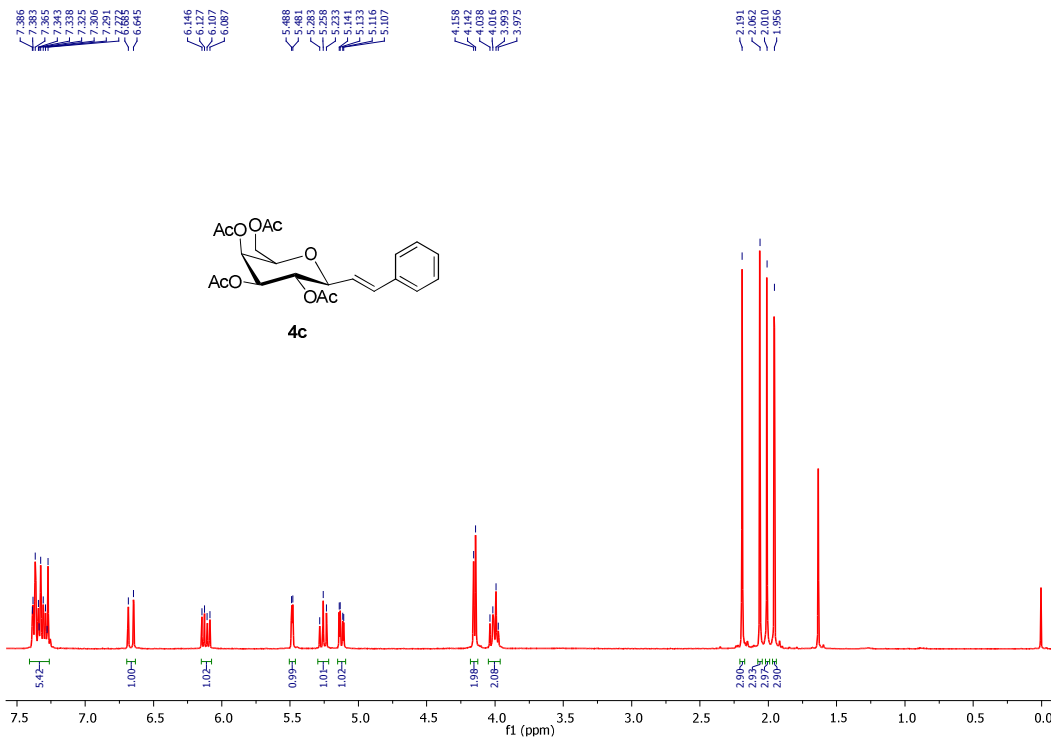

Figure S17. ^{1}H NMR spectrum of compound **4c** (400 MHz, $CDCl_3$)

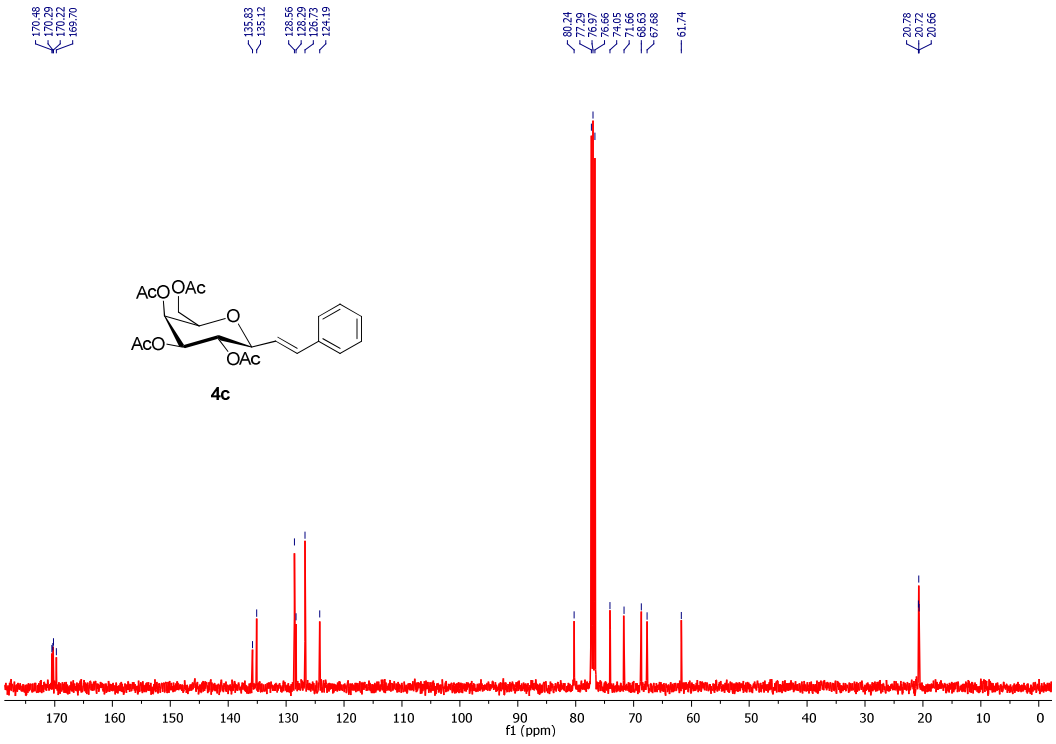

Figure S18. ^{13}C NMR spectrum of compound **4c** (100.6 MHz, $CDCl_3$)

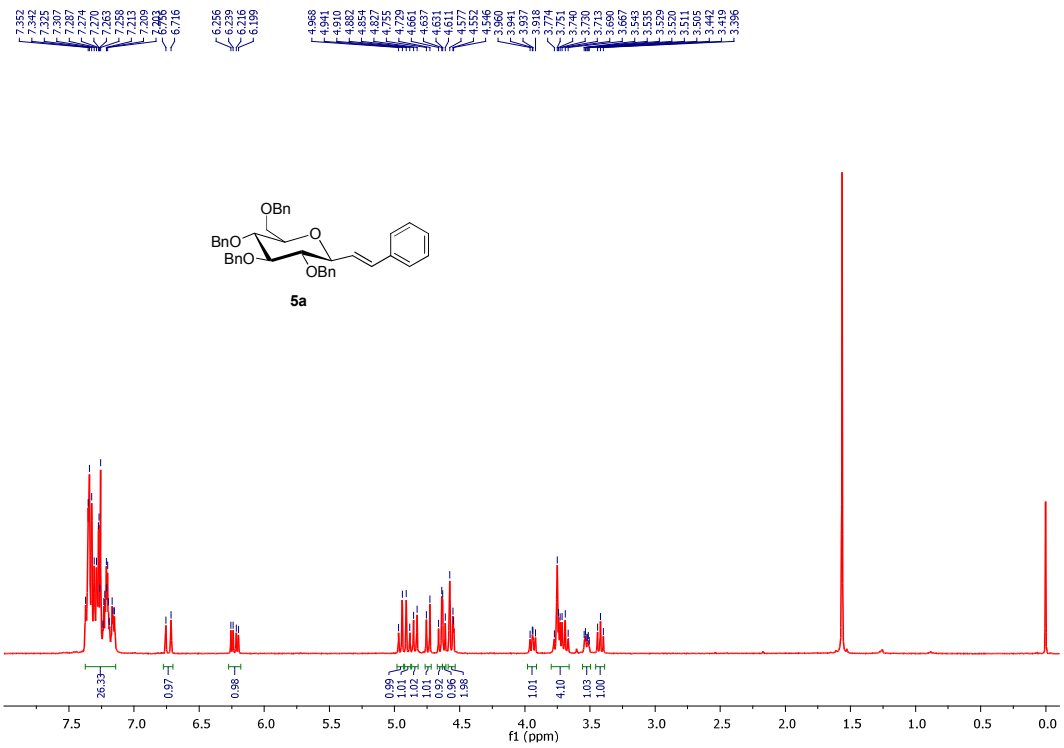

Figure S19. ^{1}H NMR spectrum of compound **5a** (400 MHz, $CDCl_3$)

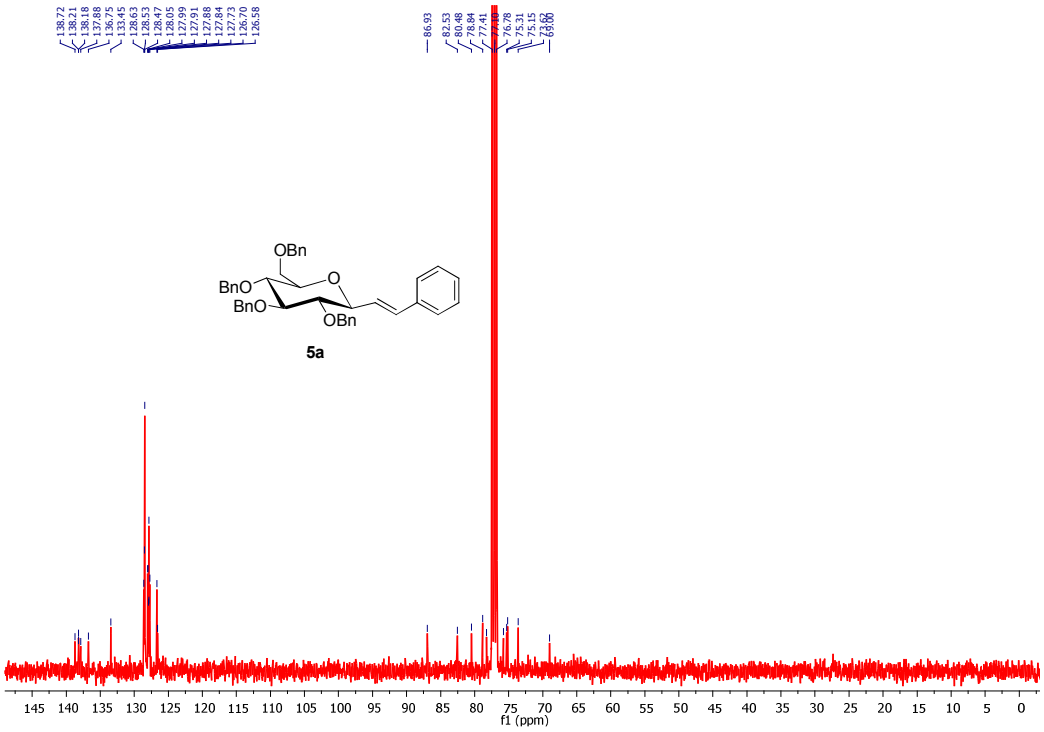

Figure S20. ^{13}C NMR spectrum of compound **5a** (100.6 MHz, $CDCl_3$)

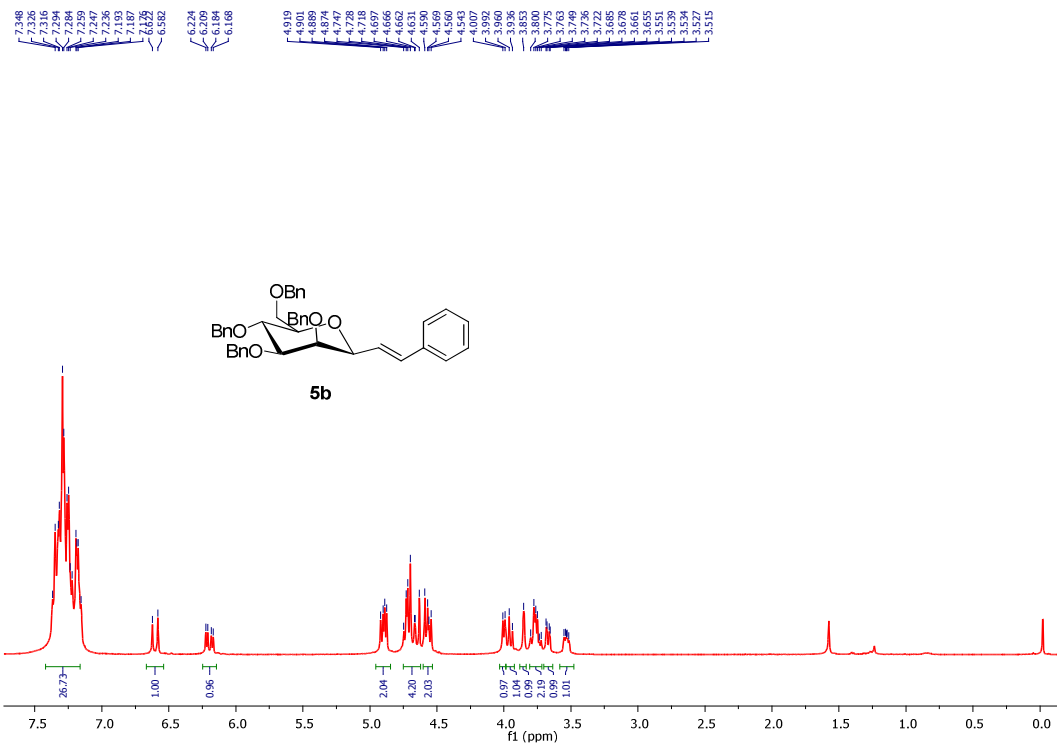

Figure S21. ^{1}H NMR spectrum of compound **5b** (400 MHz, $CDCl_3$)

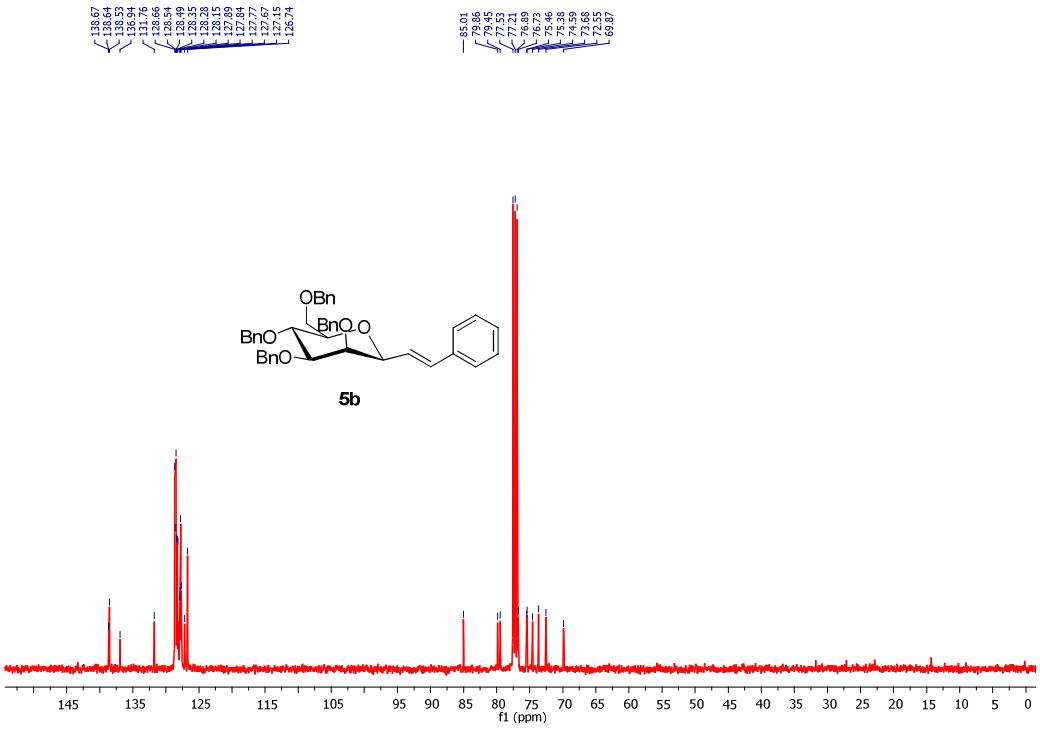

Figure S22. ^{13}C NMR spectrum of compound **5b** (100.6 MHz, $CDCl_3$)

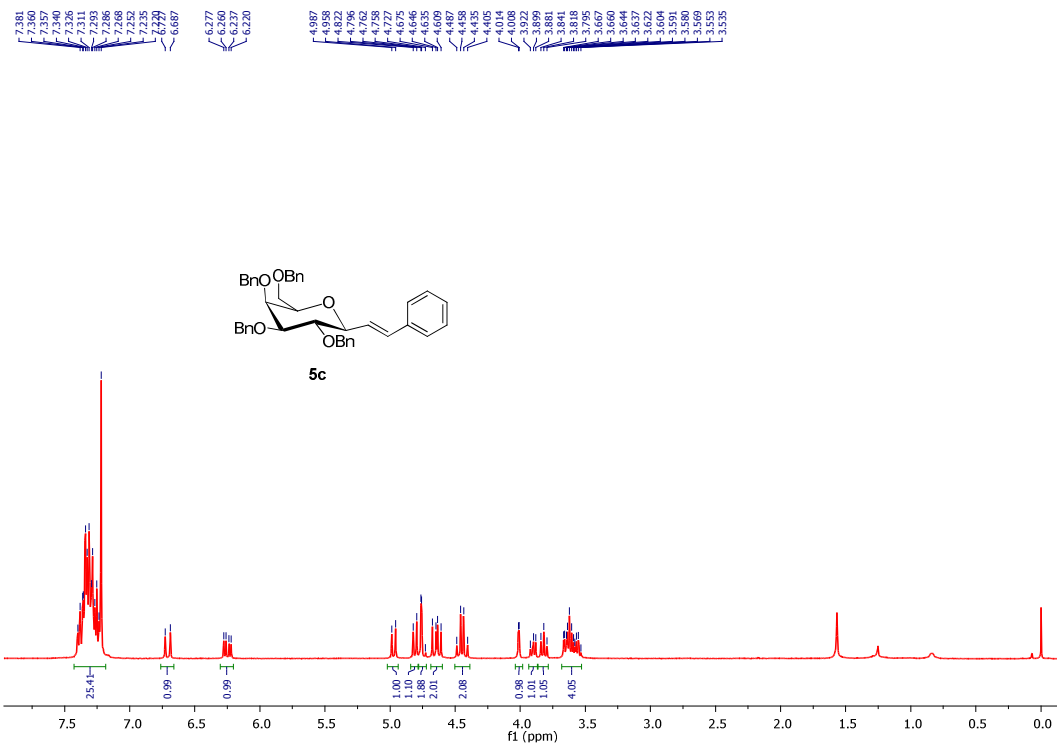

Figure S23. ^{1}H NMR spectrum of compound **5c** (400 MHz, $CDCl_3$)

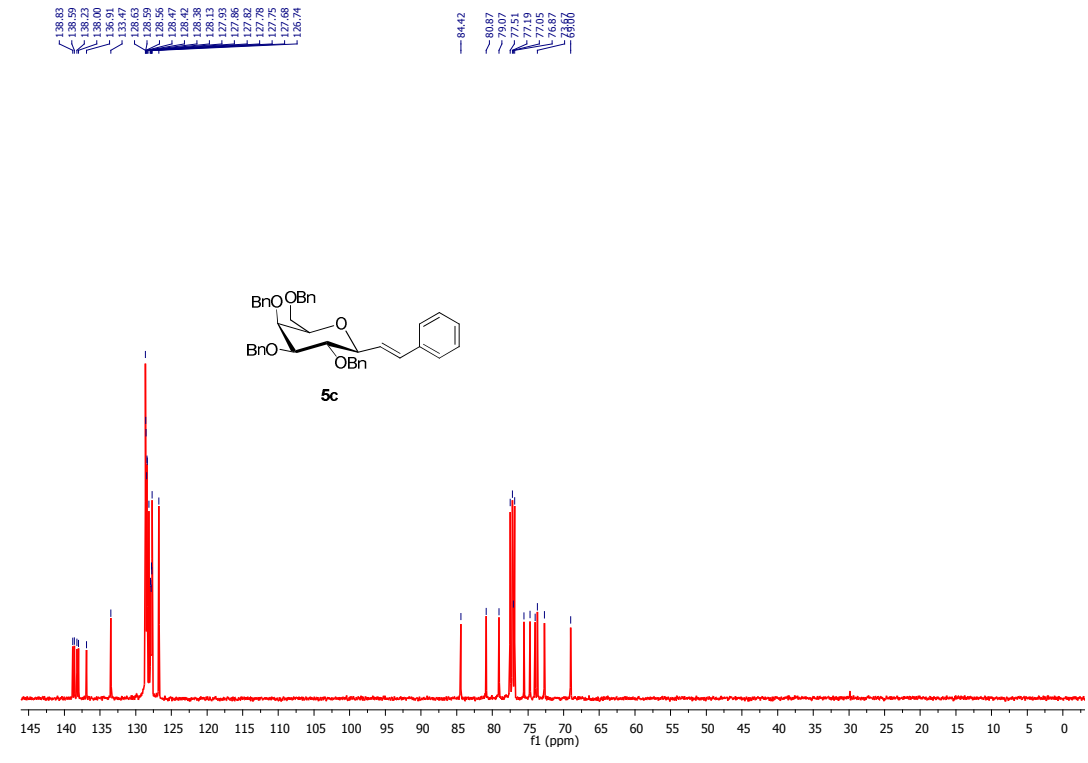

Figure S24. ^{13}C NMR spectrum of compound **5c** (100.6 MHz, $CDCl_3$)

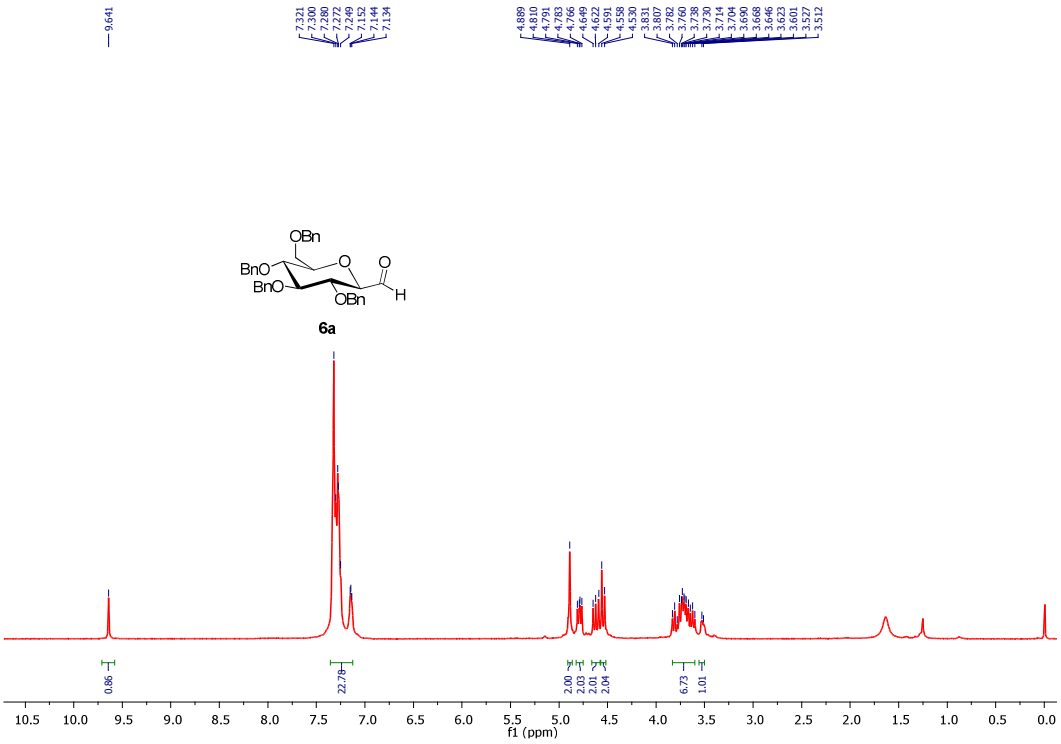

Figure S25. ^{1}H NMR spectrum of compound **6a** (400 MHz, $CDCl_3$)

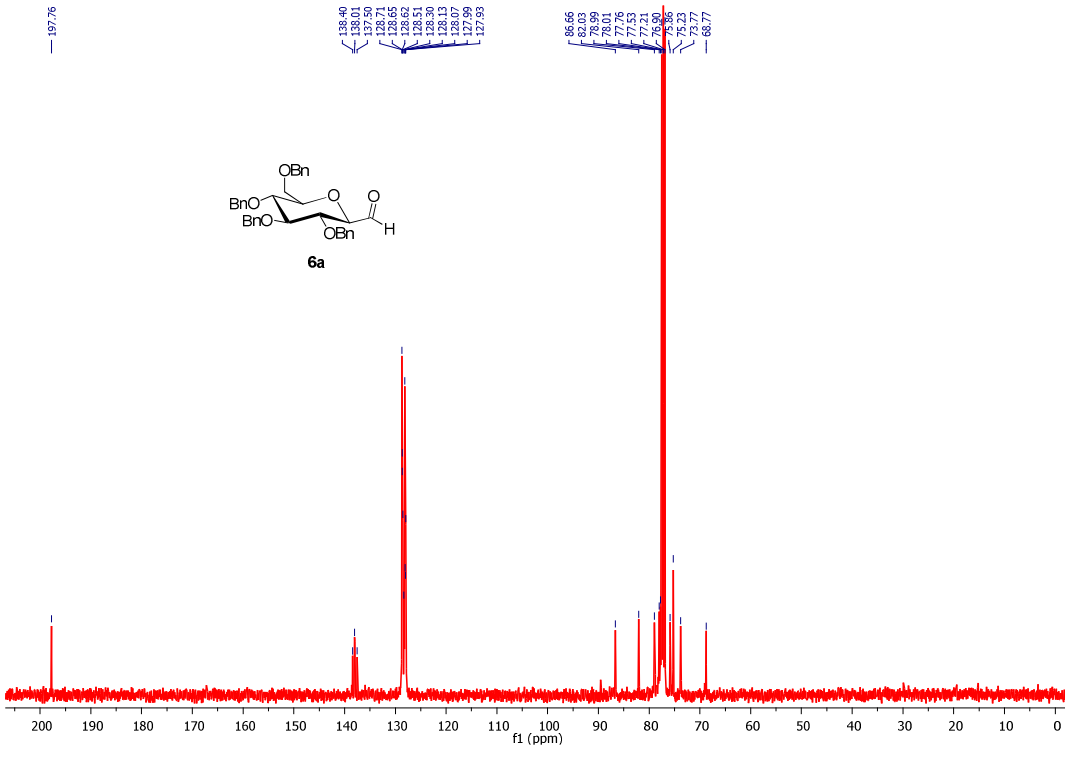

Figure S26. ^{13}C NMR spectrum of compound **6a** (100.6 MHz, $CDCl_3$)

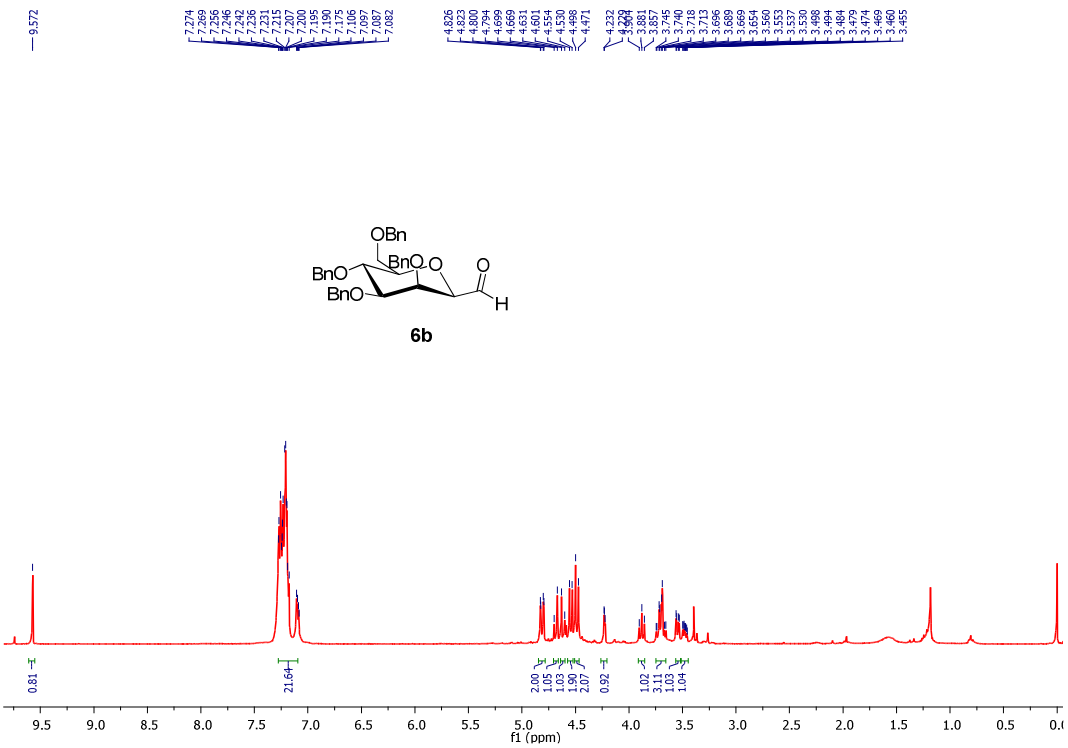

Figure S27. ^{1}H NMR spectrum of compound **6b** (400 MHz, $CDCl_3$)

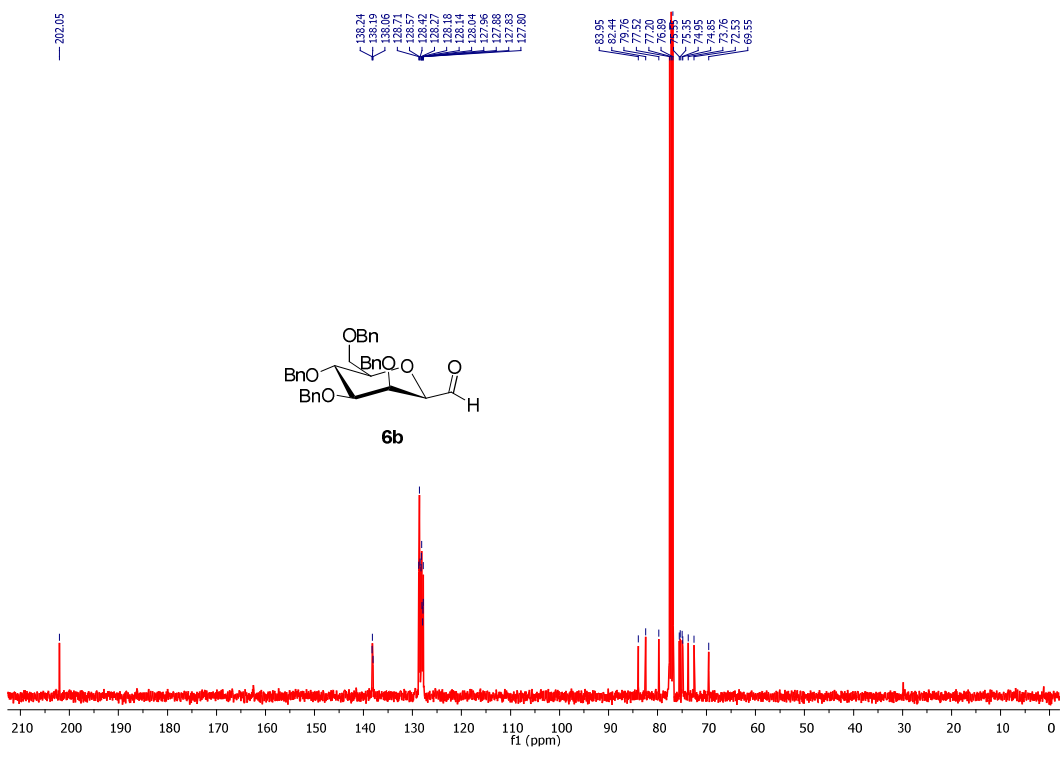

Figure S28. ^{13}C NMR spectrum of compound **6b** (100.6 MHz, $CDCl_3$)

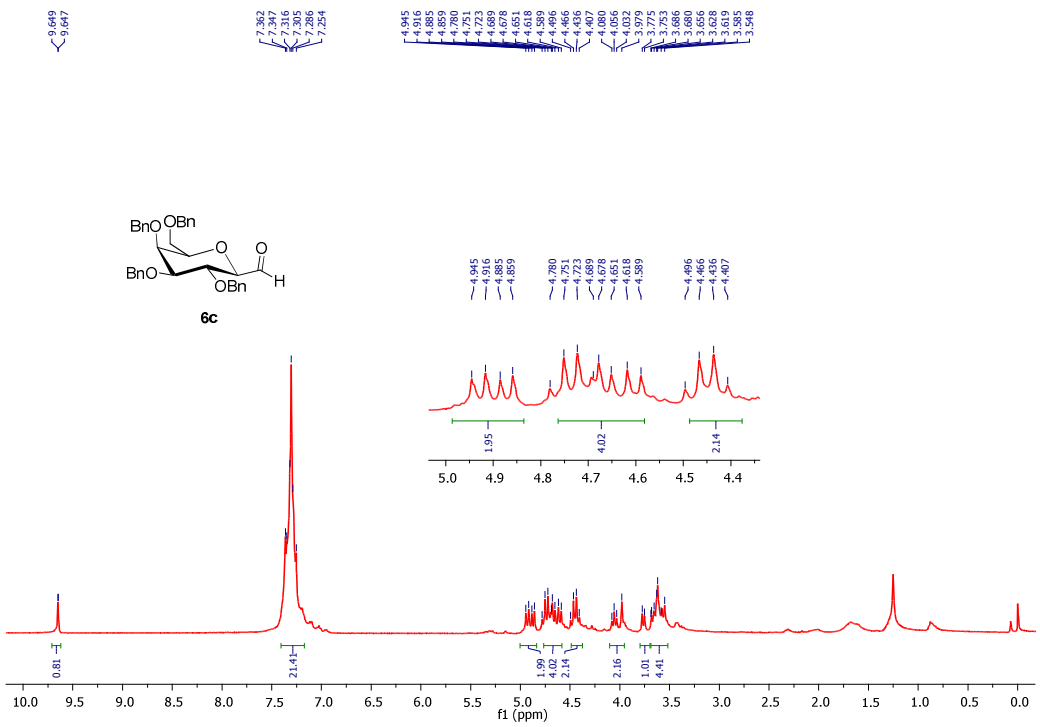

Figure S29. ^{1}H NMR spectrum of compound **6c** (400 MHz, $CDCl_3$)

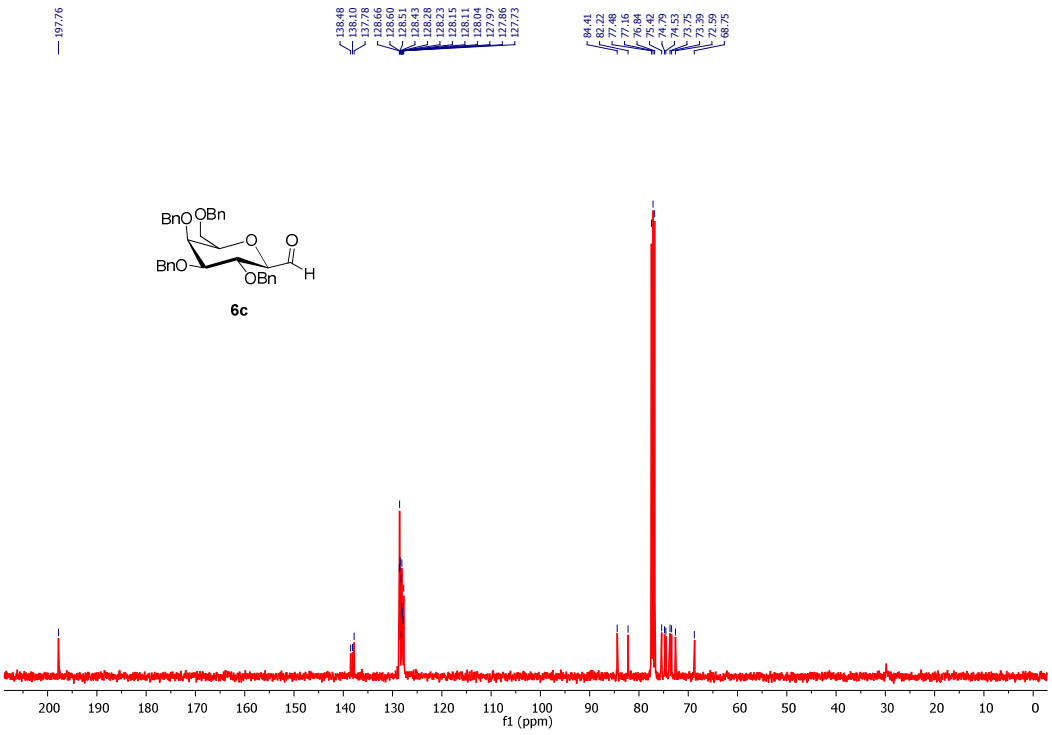

Figure S30. ^{13}C NMR spectrum of compound **6c** (100.6 MHz, $CDCl_3$)

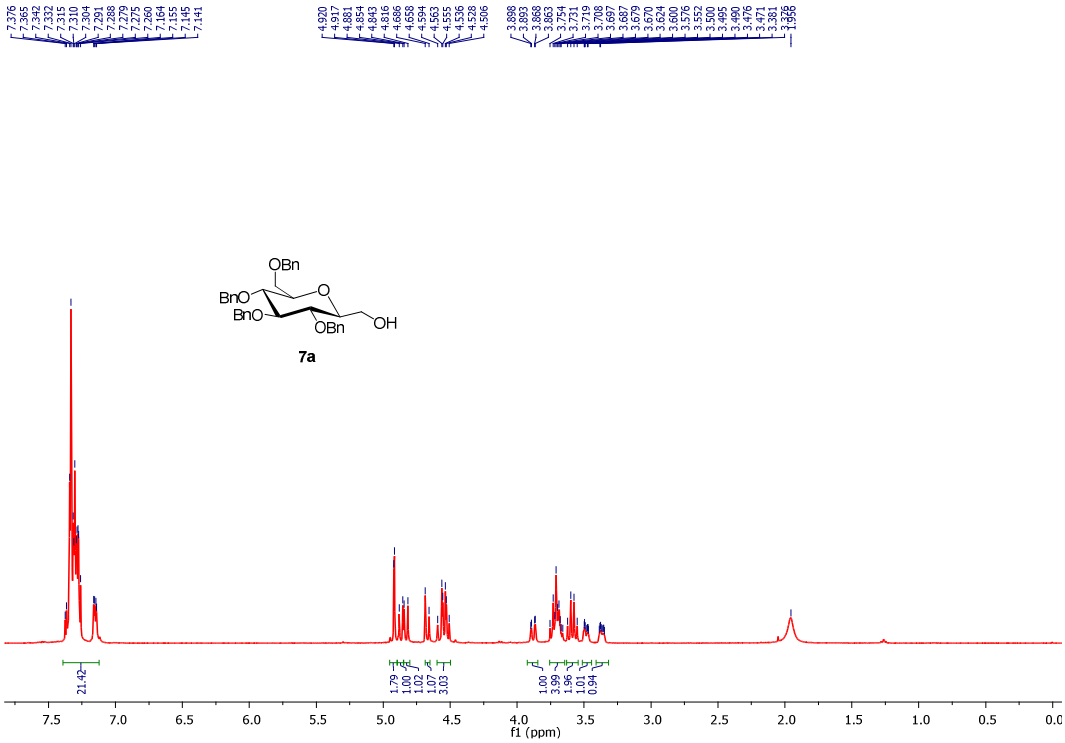

Figure S31. ^{1}H NMR spectrum of compound **7a** (400 MHz, $CDCl_3$)

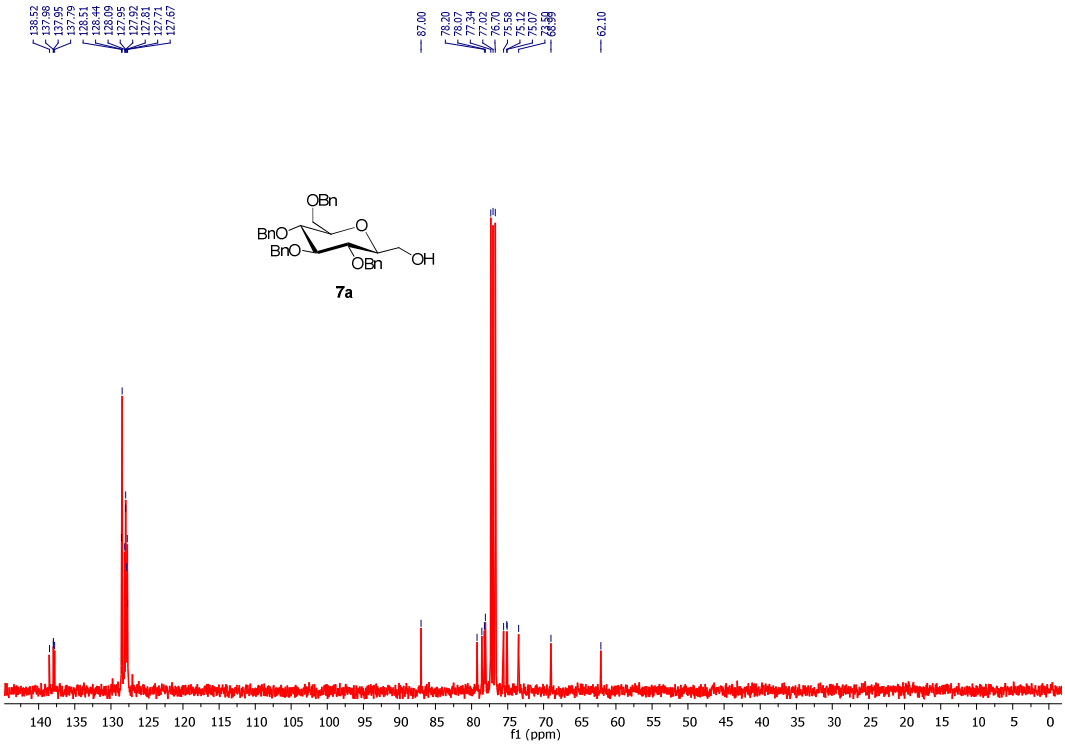

Figure S32. ^{13}C NMR spectrum of compound **7a** (100.6 MHz, $CDCl_3$)

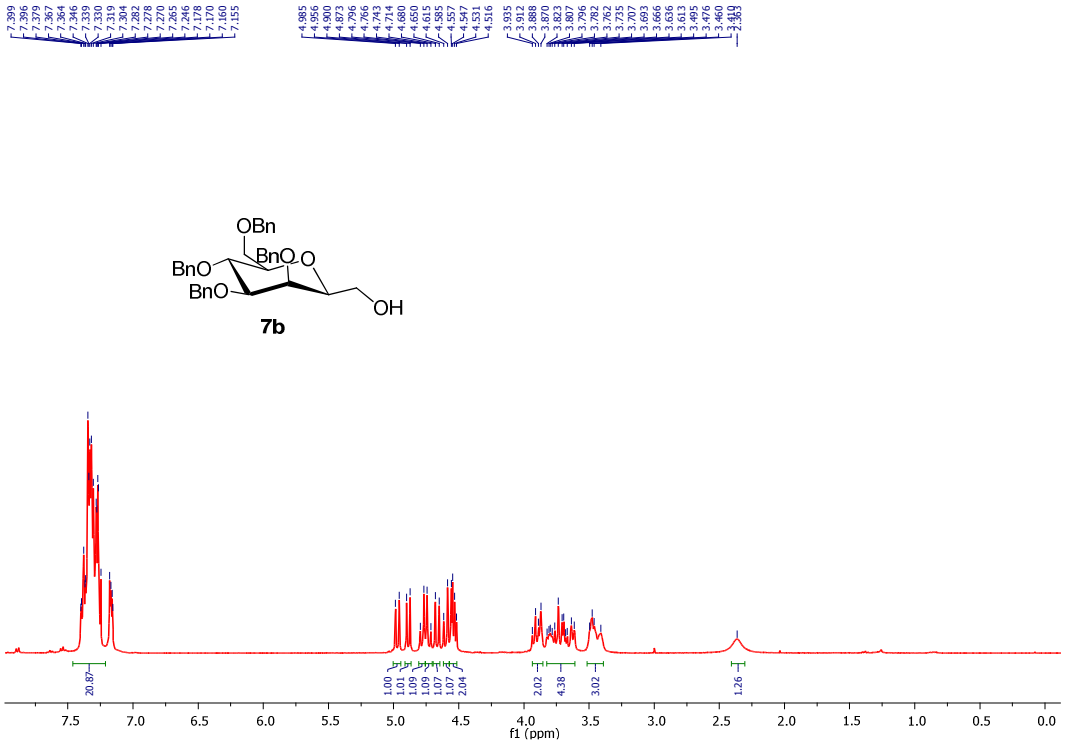

Figure S33.[1]H NMR spectrum of compound **7b** (400 MHz, $CDCl_3$)

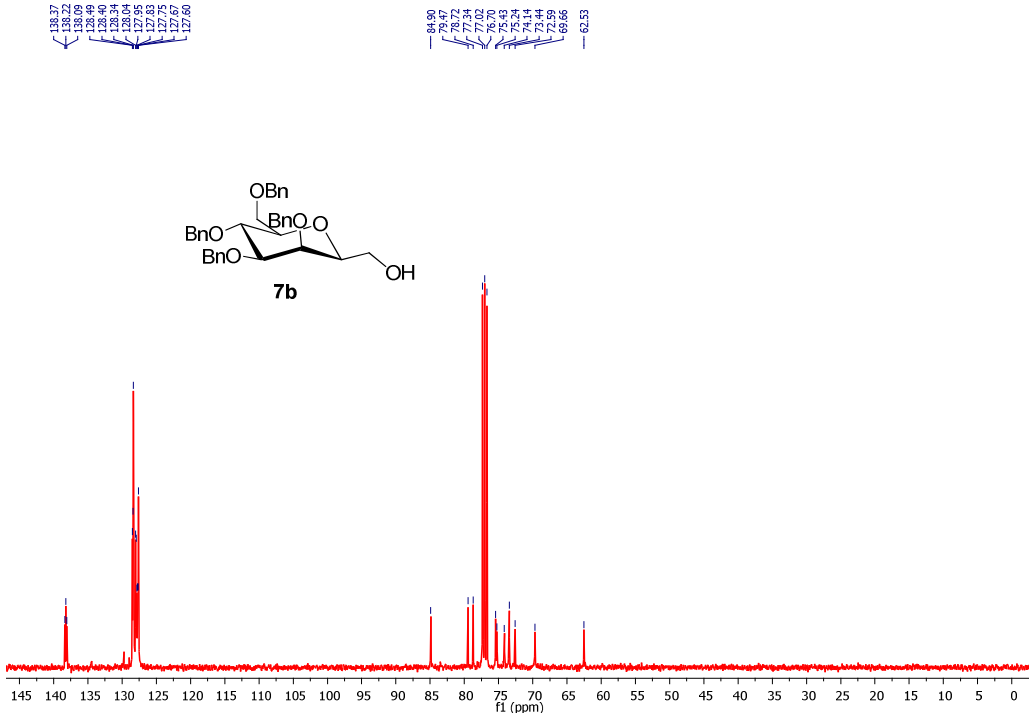

Figure S34. [13]C NMR spectrum of compound **7b** (100.6 MHz, $CDCl_3$)

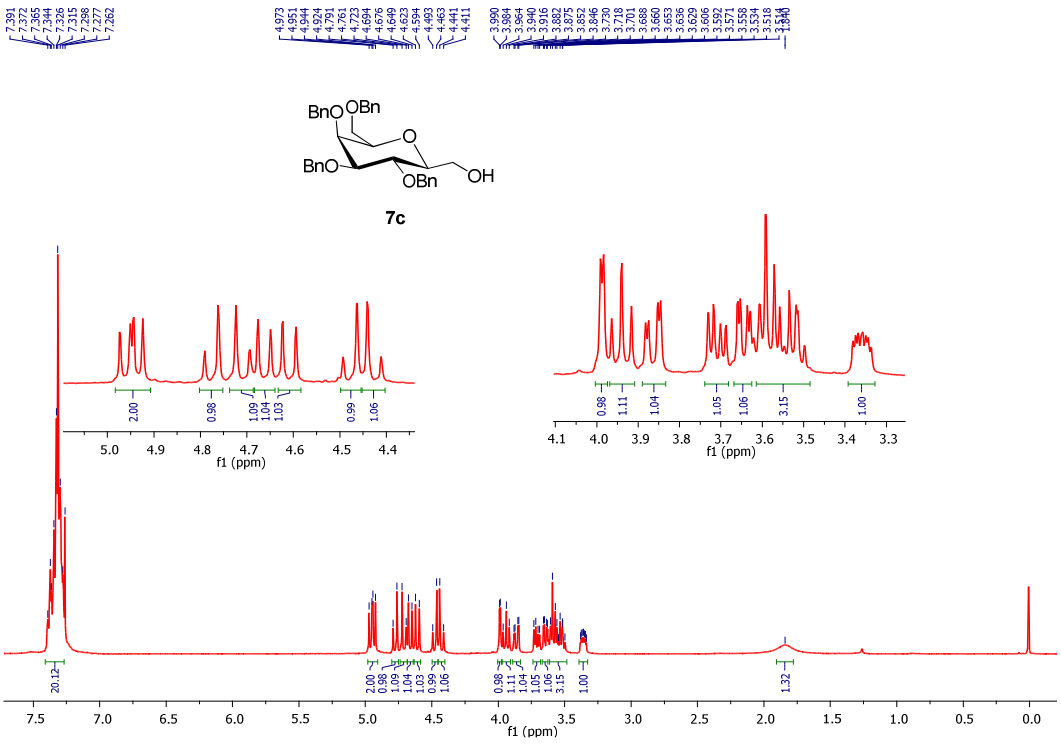

Figure S35.[1]H NMR spectrum of compound **7c** (400 MHz, $CDCl_3$)

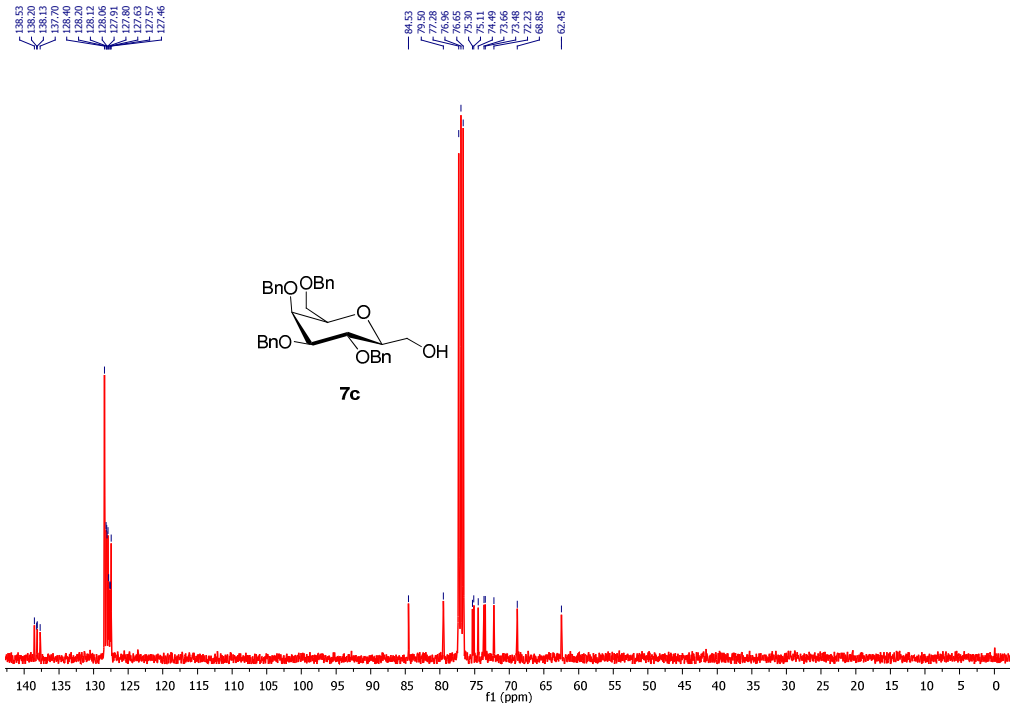

Figure S36. [13]C NMR spectrum of compound **7c** (100.6 MHz, $CDCl_3$)

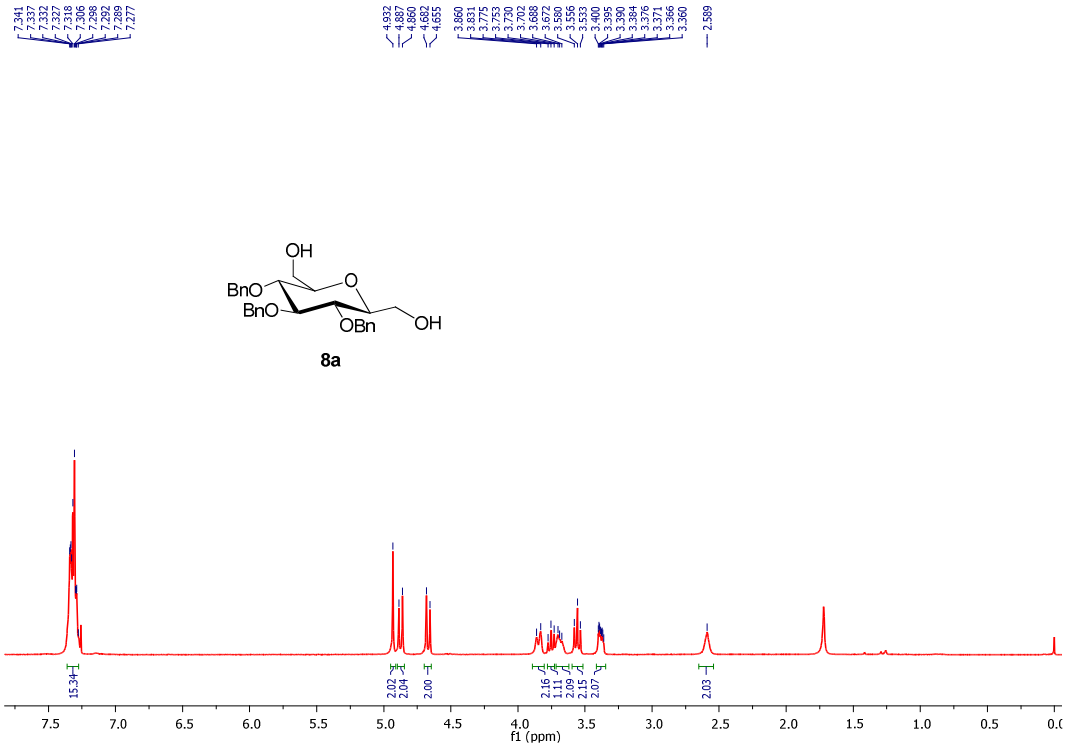

Figure S37. ^{1}H NMR spectrum of compound **8a** (400 MHz, $CDCl_3$)

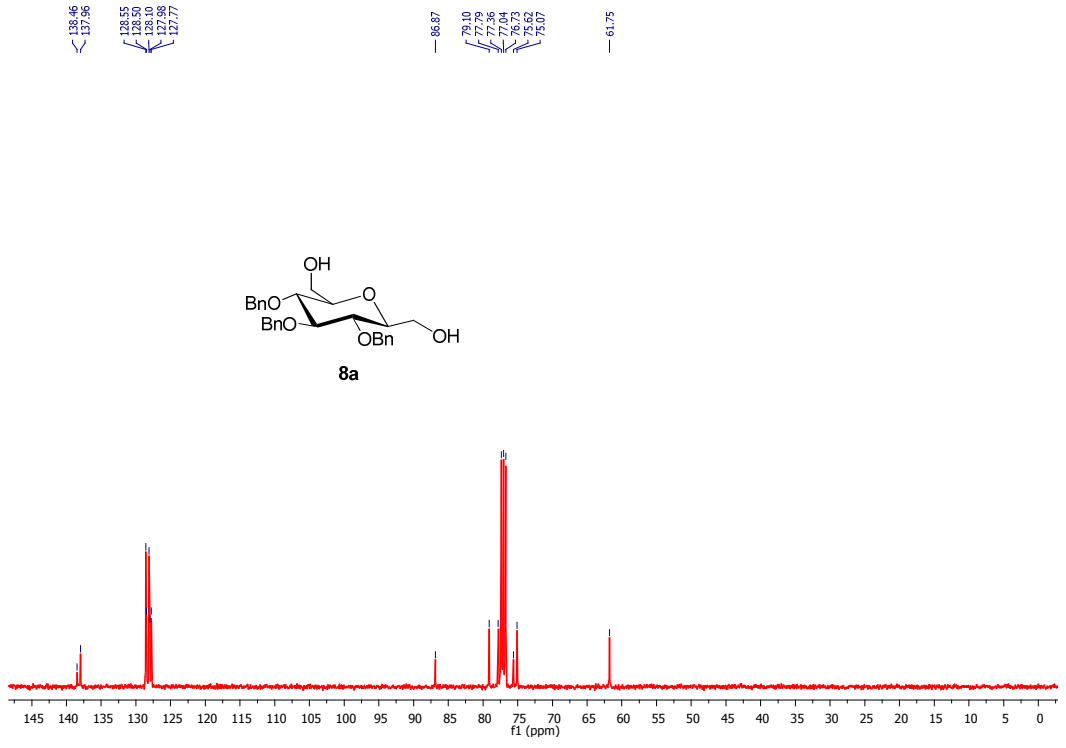

Figure S38. ^{13}C NMR spectrum of compound **8a** (100.6 MHz, $CDCl_3$)

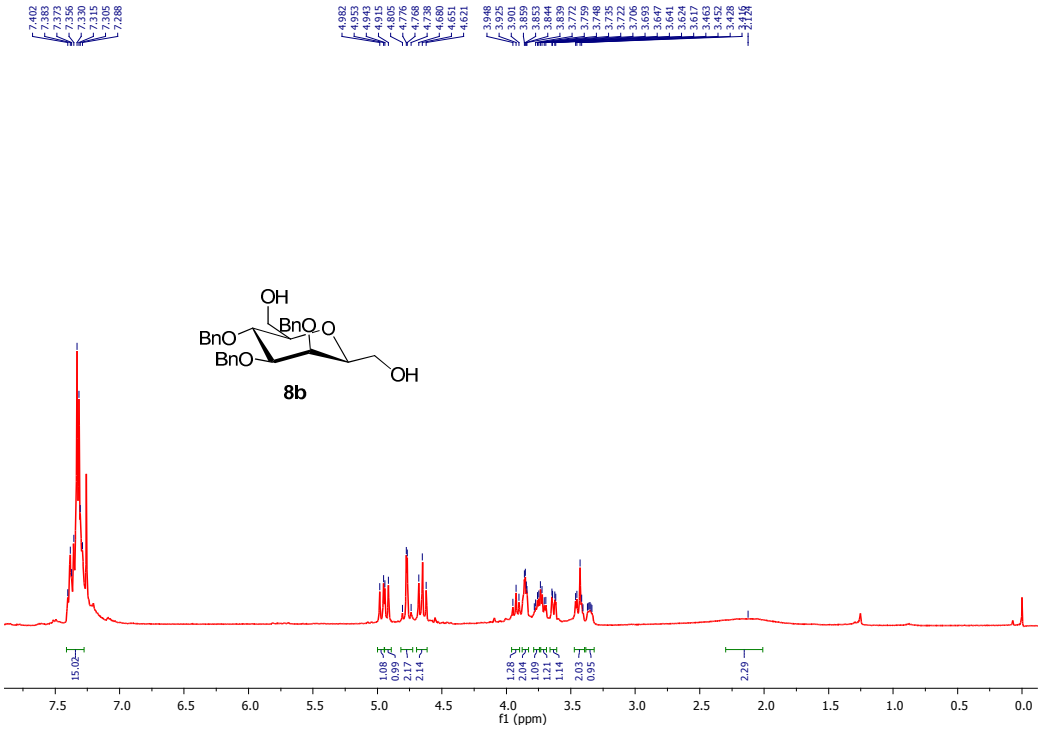

Figure S39.[1]H NMR spectrum of compound **8b** (400 MHz, $CDCl_3$)

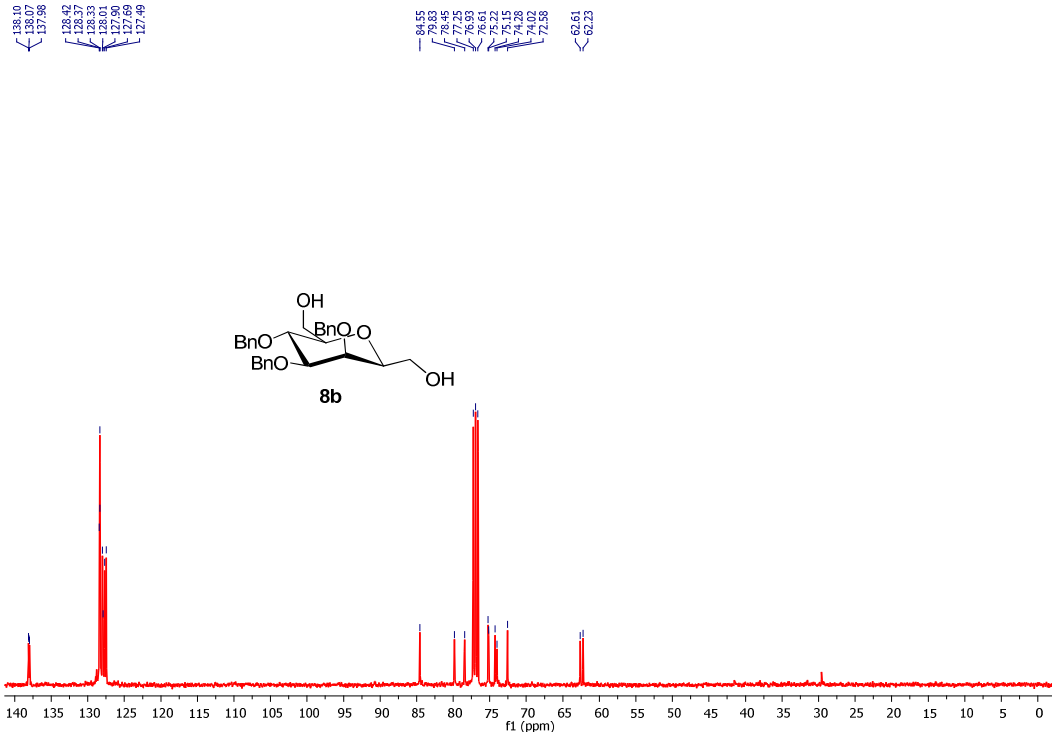

Figure S40. [13]C NMR spectrum of compound **8b** (100.6 MHz, $CDCl_3$)

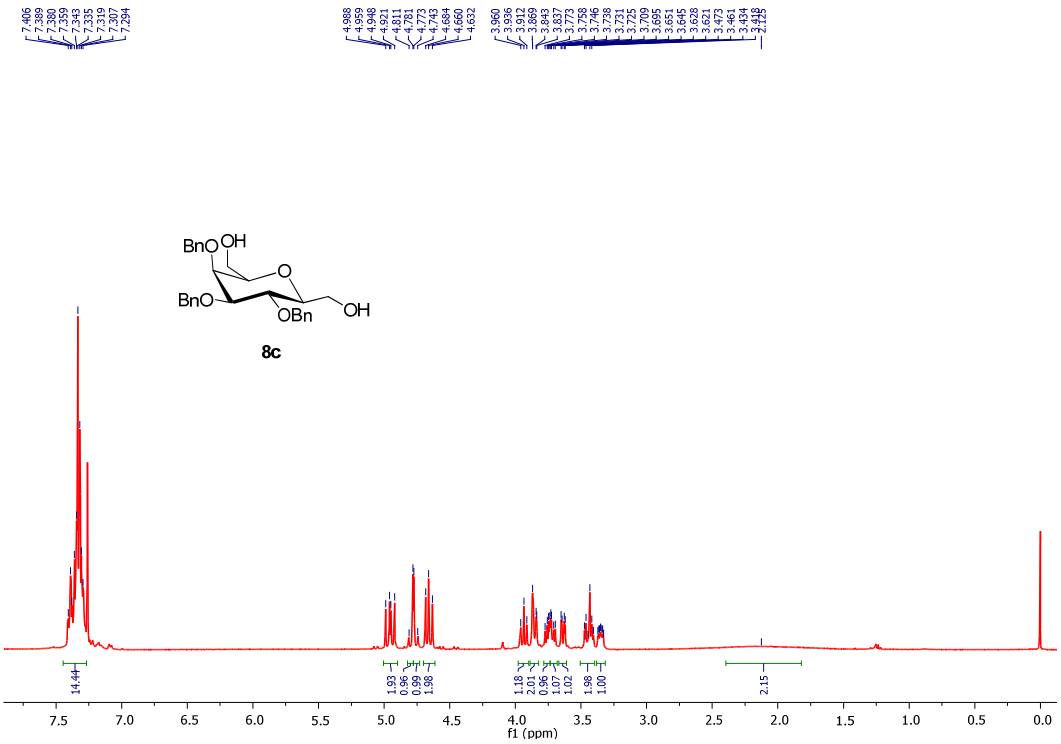

Figure S41.[1]H NMR spectrum of compound **8c** (400 MHz, $CDCl_3$)

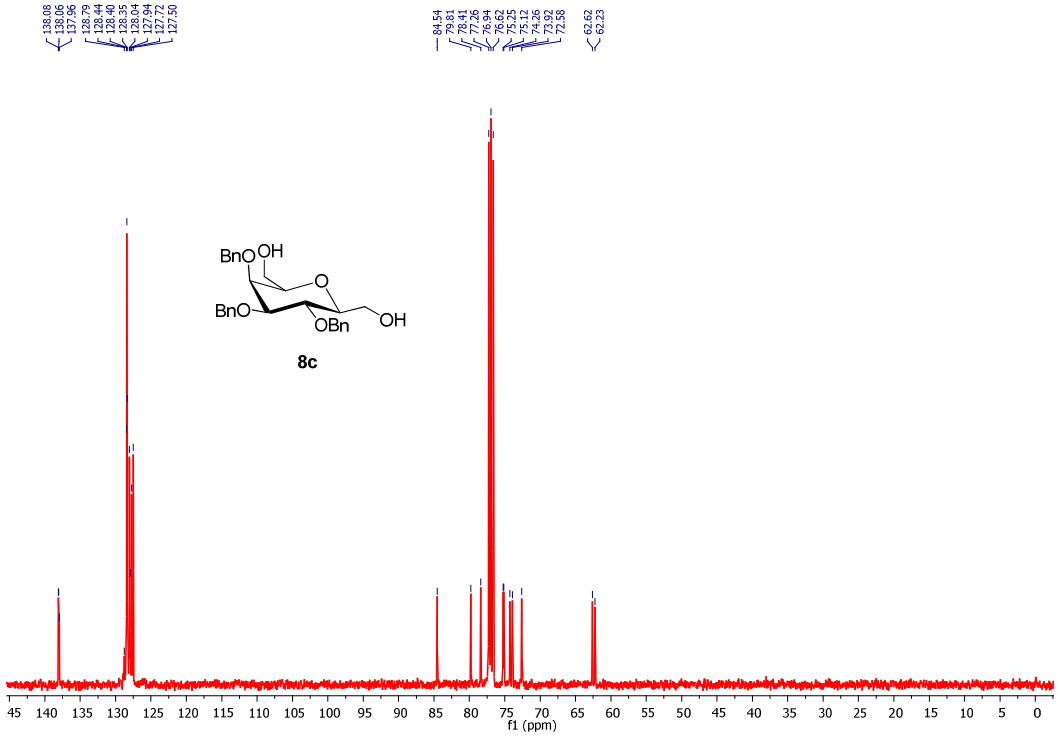

Figure S42. [13]C NMR spectrum of compound **8c** (100.6 MHz, $CDCl_3$)

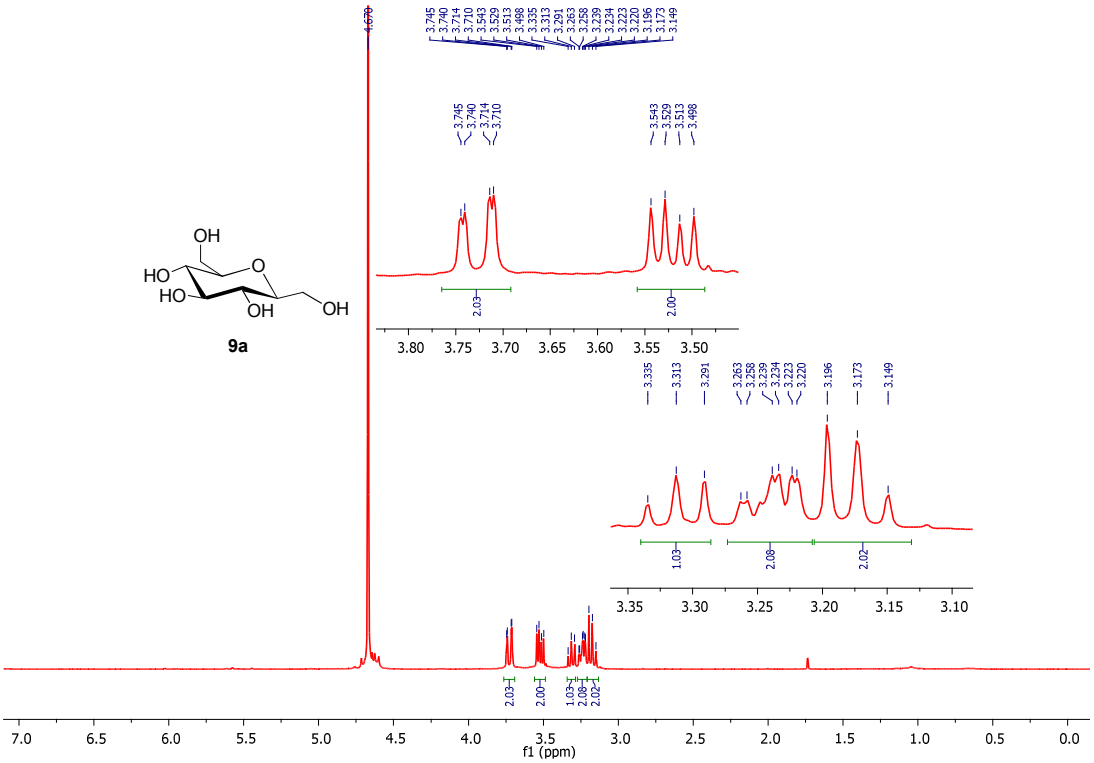

Figure S43.[1]H NMR spectrum of compound **9a** (400 MHz, $CDCl_3$)

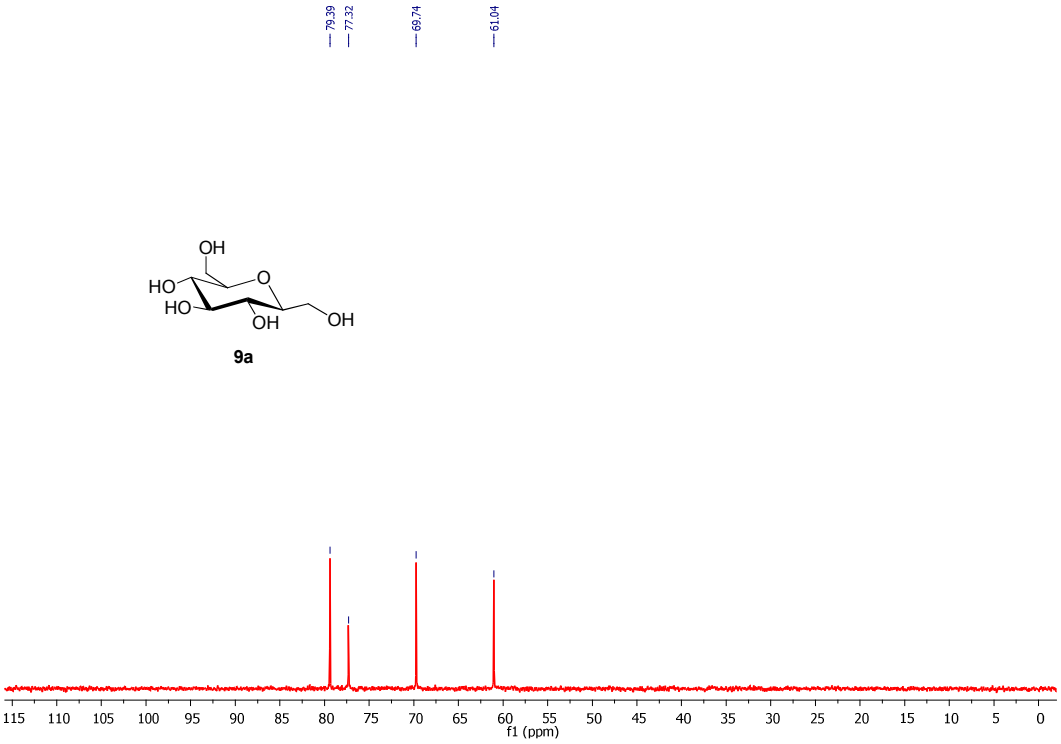

Figure S44. [13]C NMR spectrum of compound **9a** (100.6 MHz, $CDCl_3$)

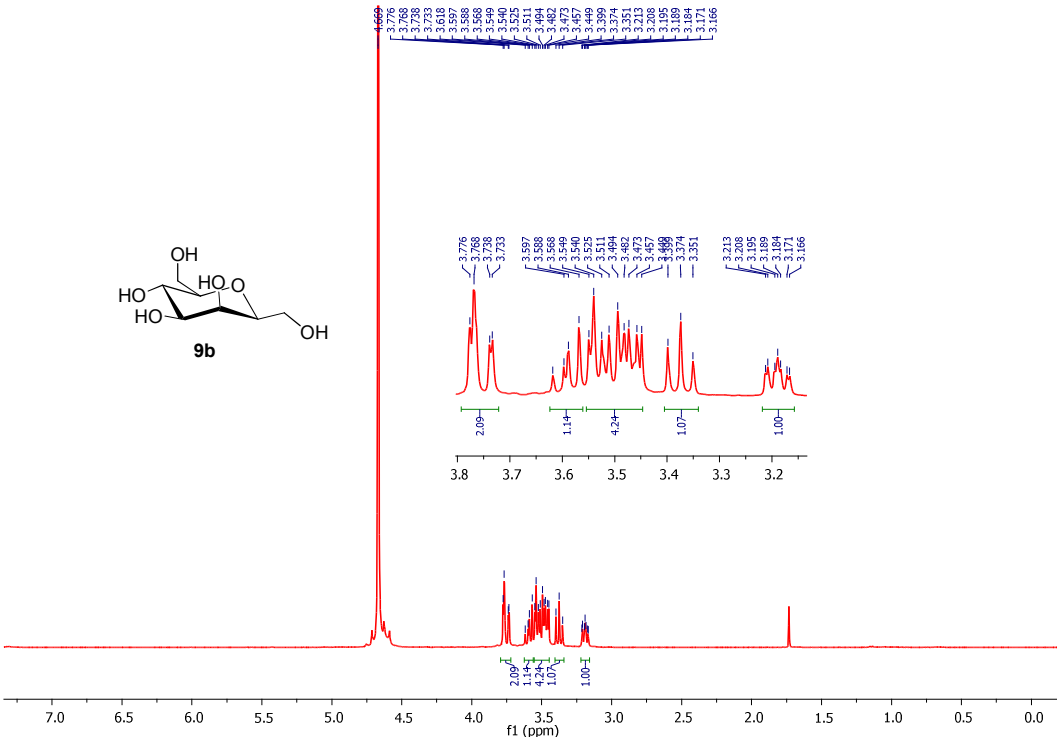

Figure S45. ^{1}H NMR spectrum of compound **9b** (400 MHz, $CDCl_3$)

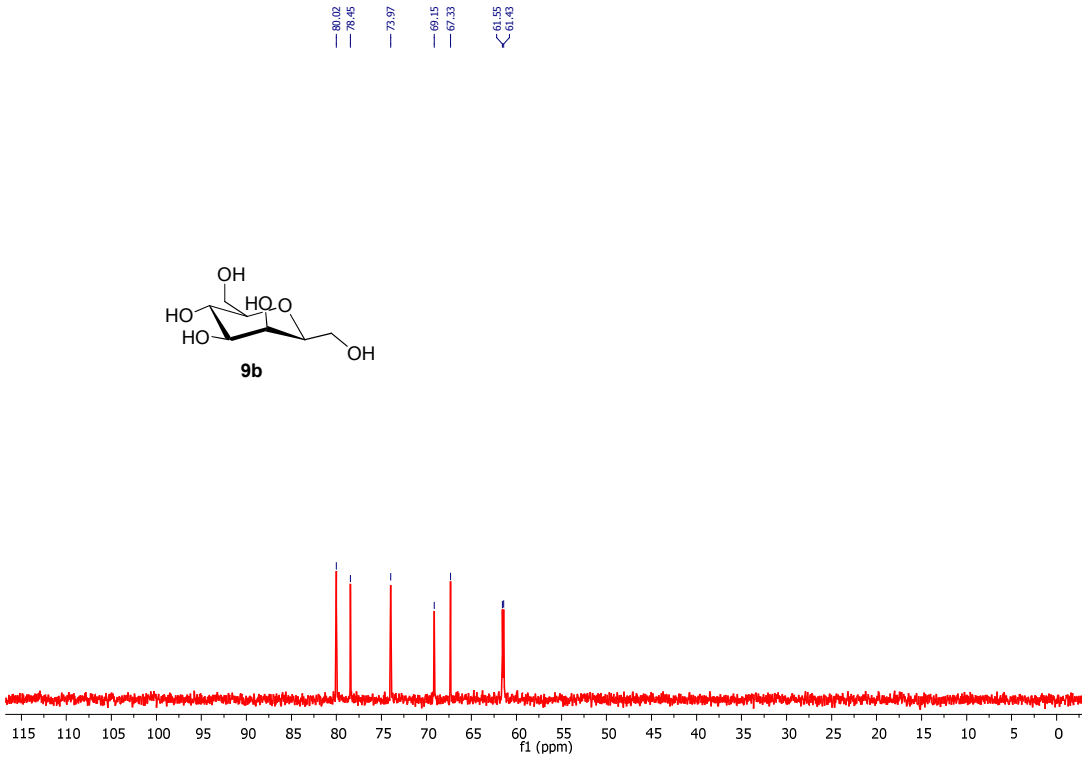

Figure S46. ^{13}C NMR spectrum of compound **9b** (100.6 MHz, $CDCl_3$)

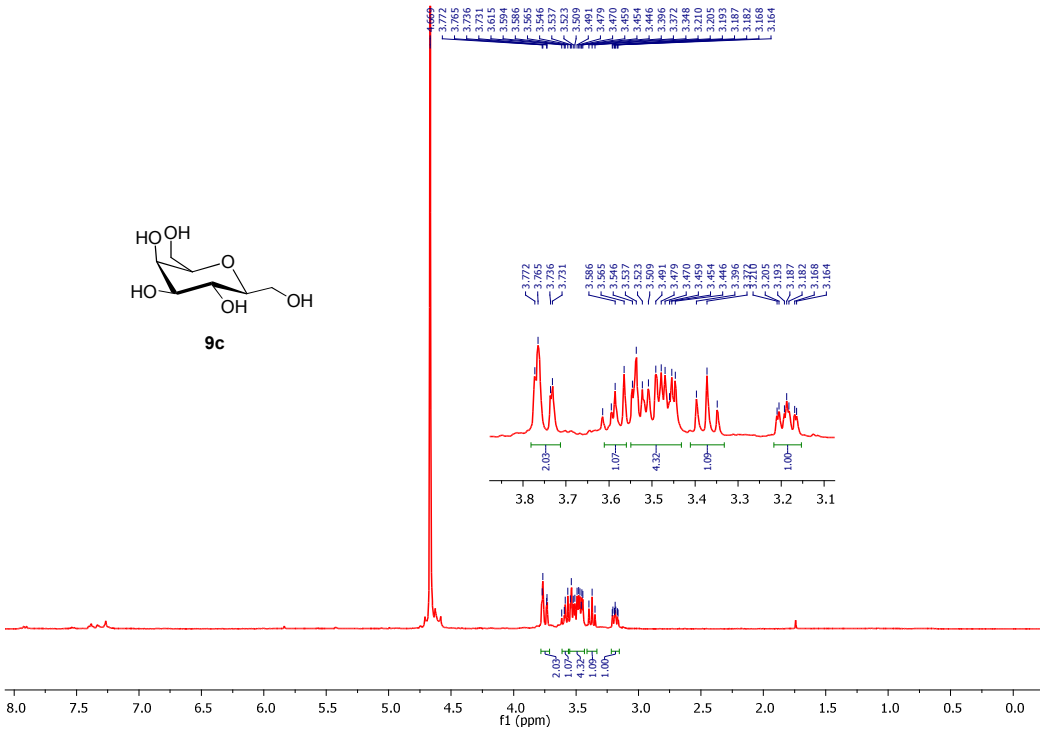

Figure S47.[1]H NMR spectrum of compound **9c** (400 MHz, $CDCl_3$)

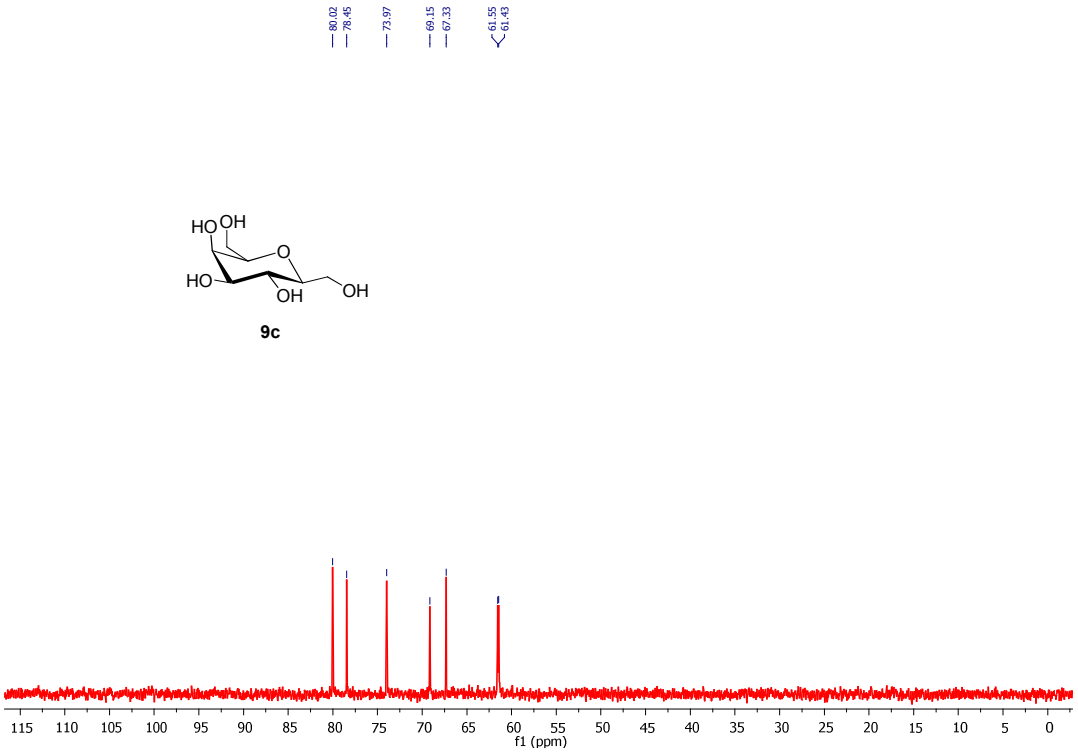

Figure S48. [13]C NMR spectrum of compound **9c** (100.6 MHz, $CDCl_3$)

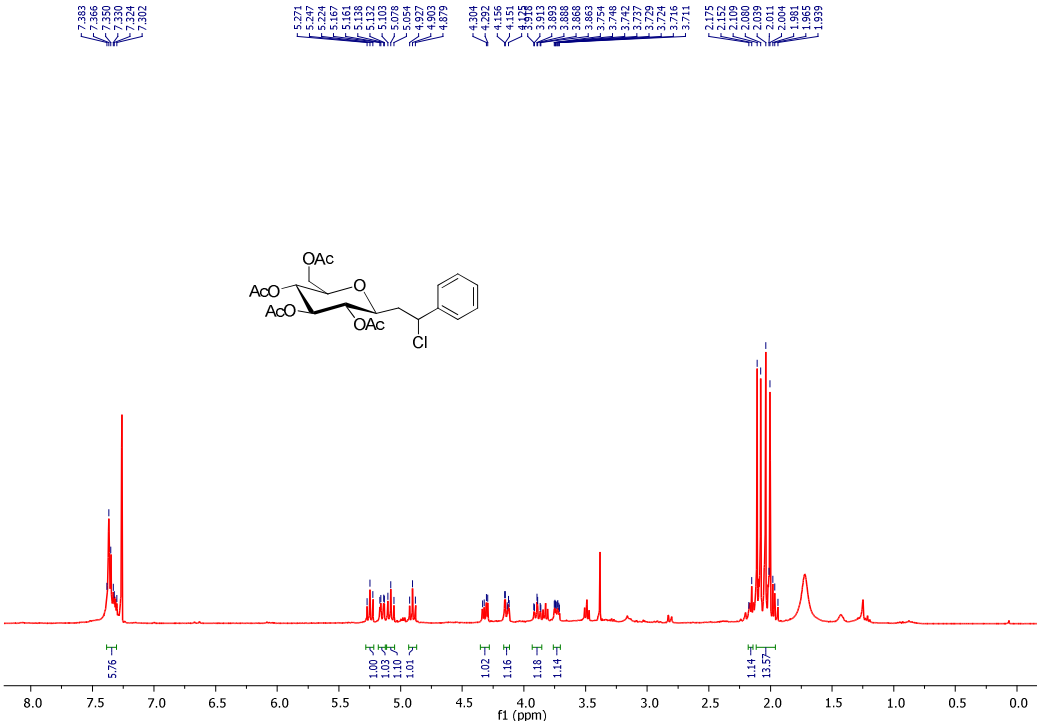

Figure S49.[1]H NMR spectrum of *1-chloro-1-phenyl-2-(2',3',4',6'-tetra-O-acetyl-β-D-glucopyranosyl)ethane* (400 MHz, $CDCl_3$)

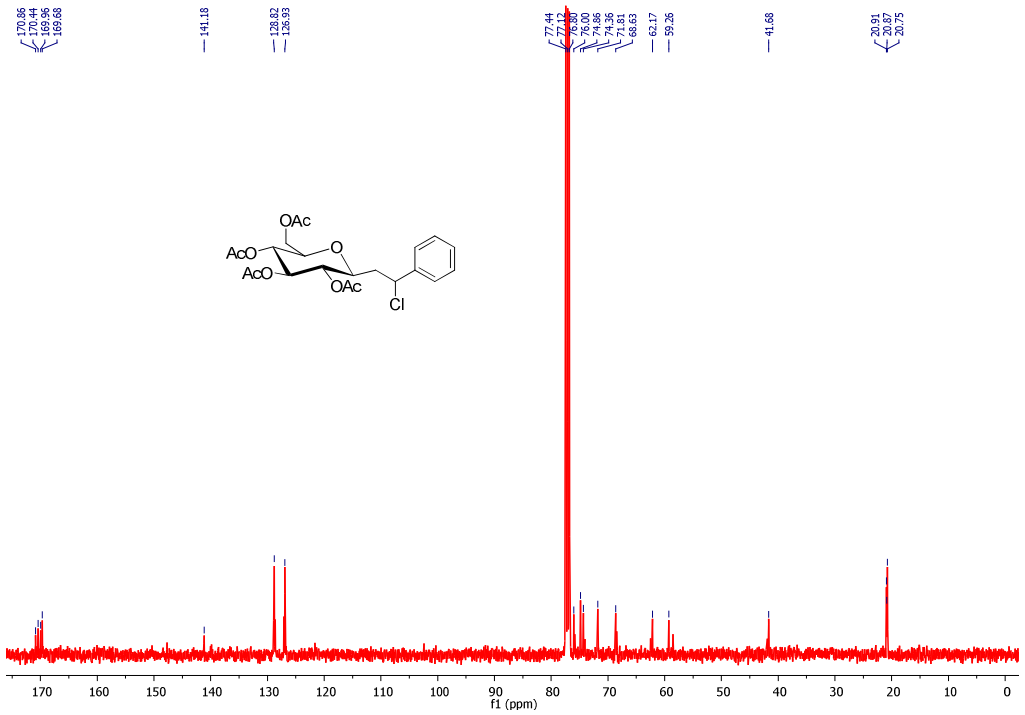

Figure S50. [13]C NMR spectrum of *1-chloro-1-phenyl-2-(2',3',4',6'-tetra-O-acetyl-β-D-glucopyranosyl)ethane* (100.6 MHz, $CDCl_3$)

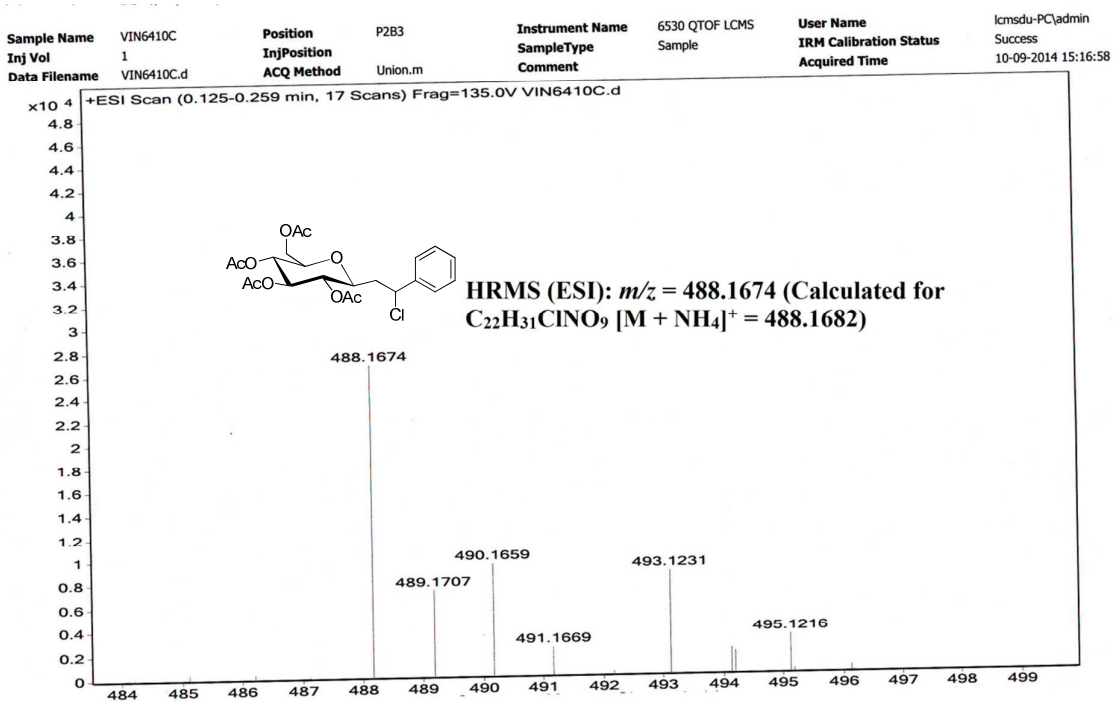

Figure 51. HRMS (ESI) of *1-chloro-1-phenyl-2-(2',3',4',6'-tetra-O-acetyl-β-D-glucopyranosyl)ethane*