

**Supporting information**  
**for**  
**An efficient synthesis of a C<sub>12</sub>-higher sugar aminoalditol**

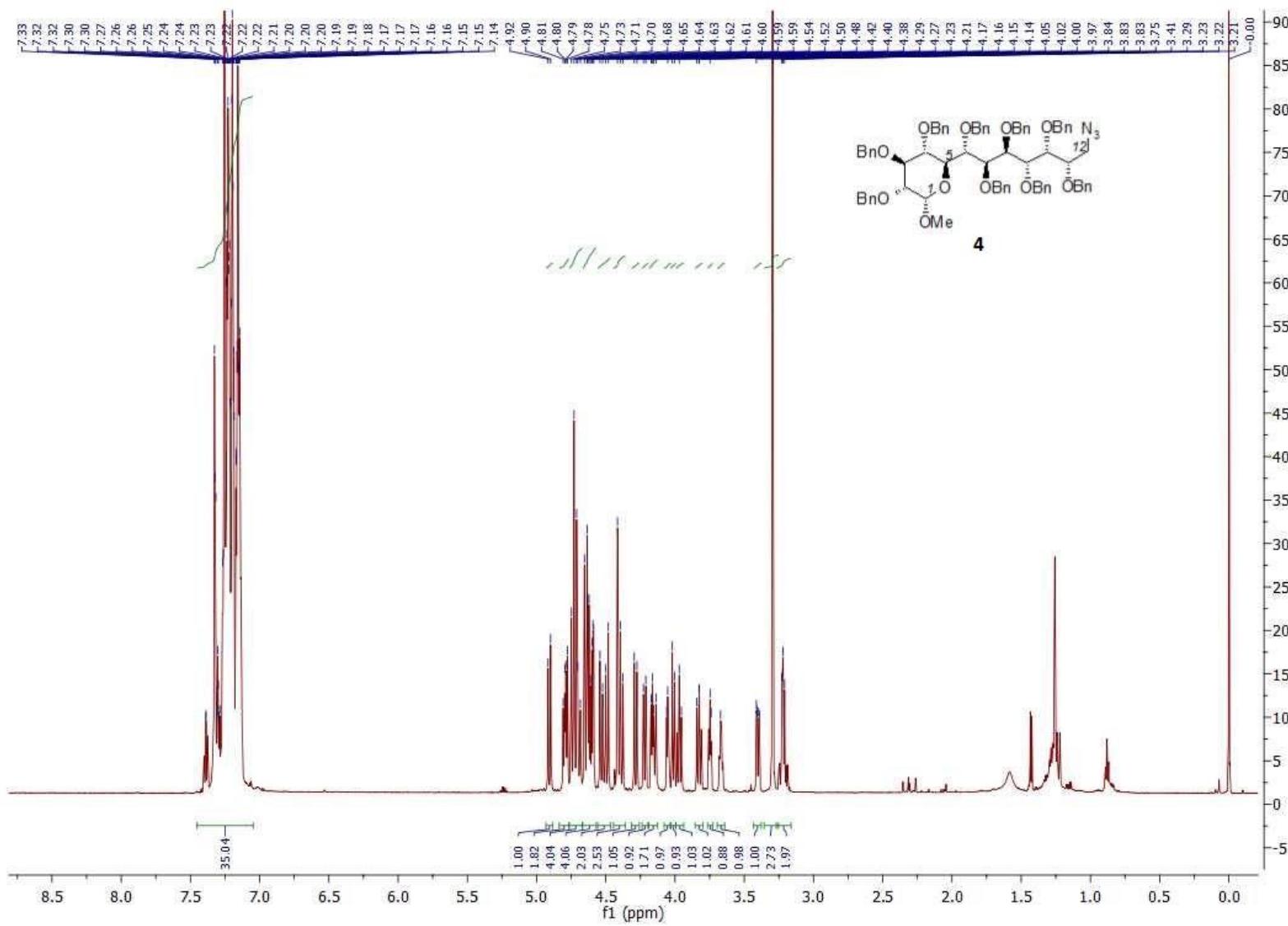
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**Copies of NMR spectra**



**Figure S1:**  $^1\text{H}$  NMR spectrum of compound 4.

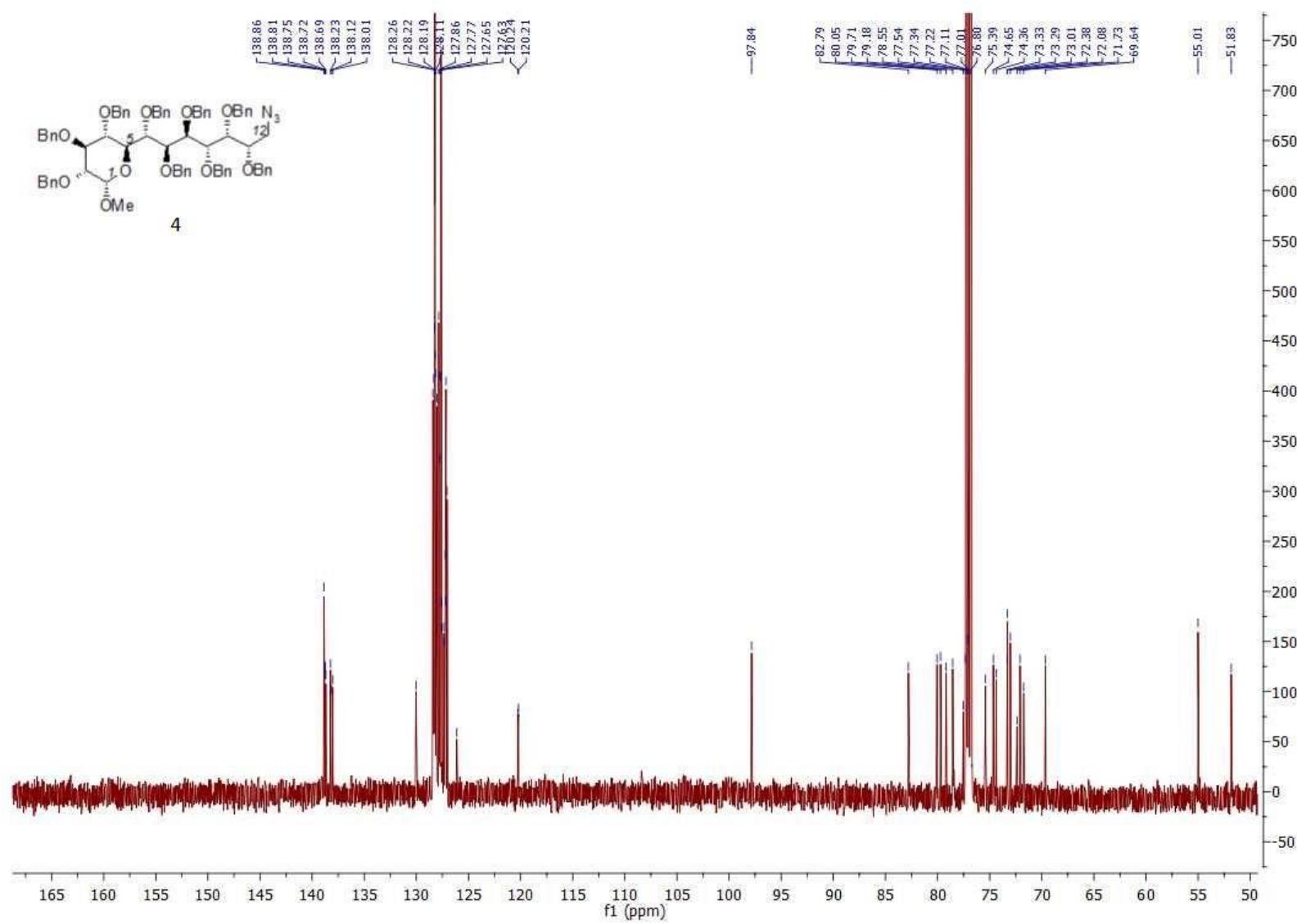
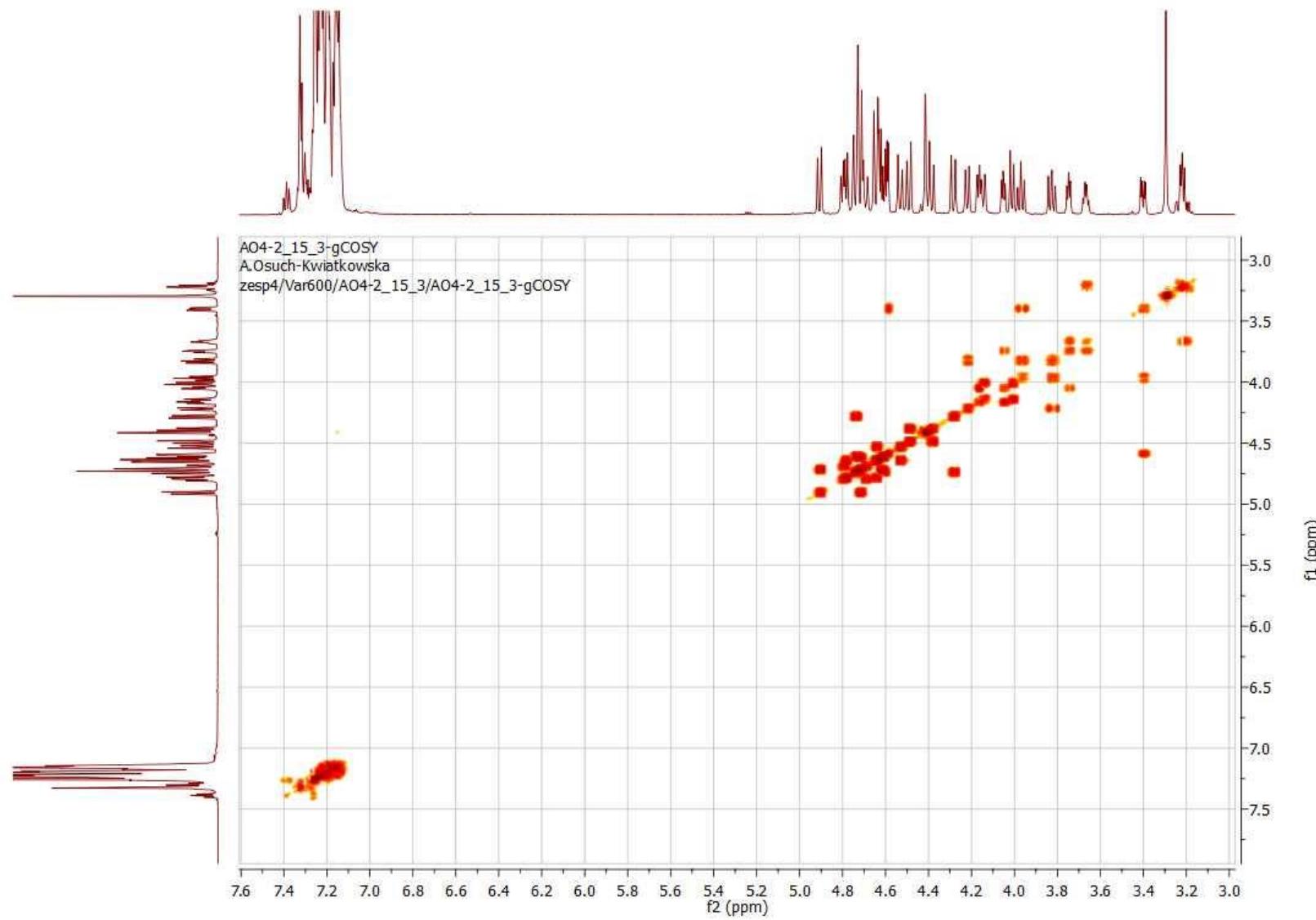
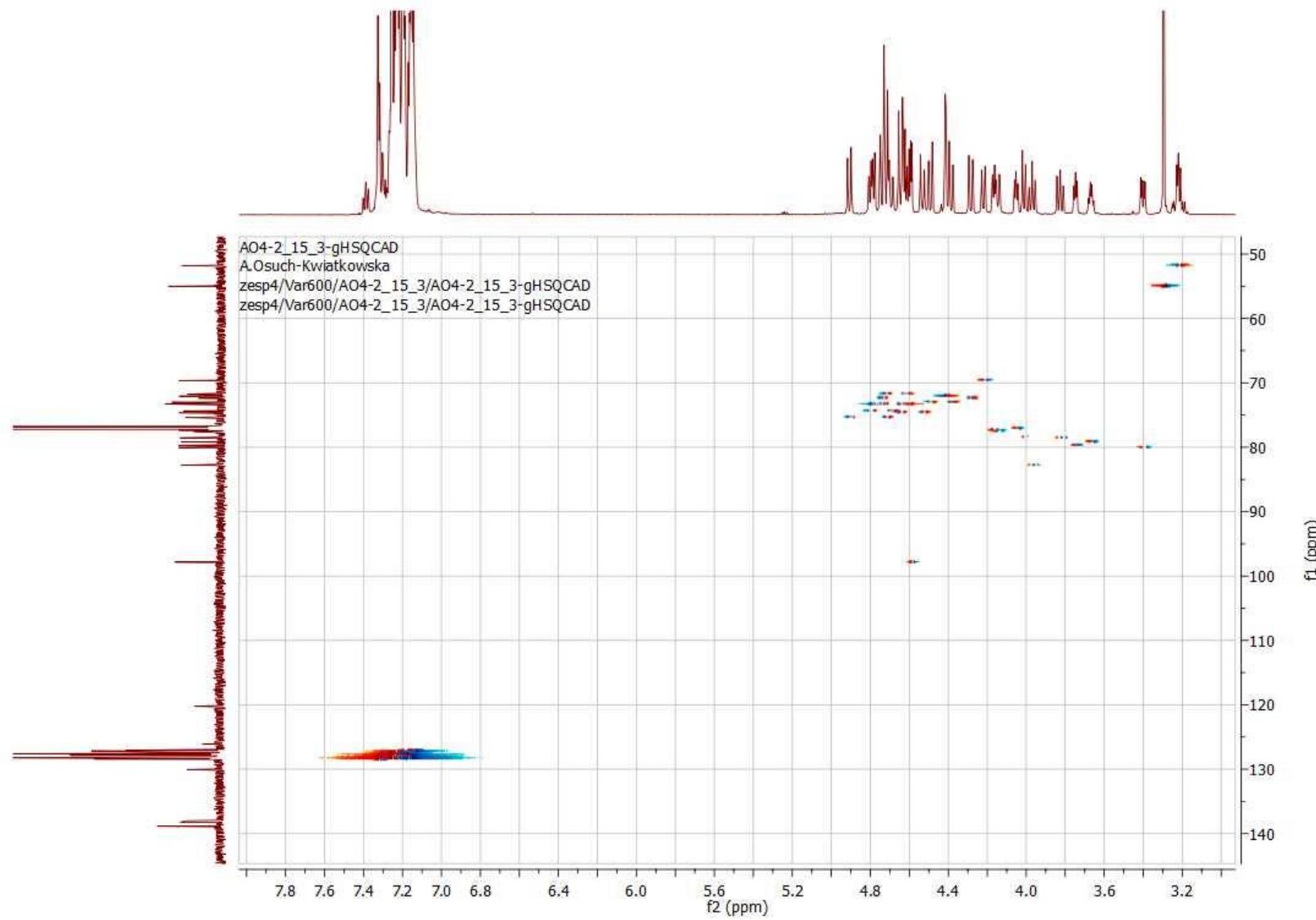


Figure S2:  $^{13}\text{C}$  NMR spectrum of compound 4.



**Figure S3:** gCOSY spectrum of compound 4.



**Figure S4:** gHSQCAD spectrum of compound 4.

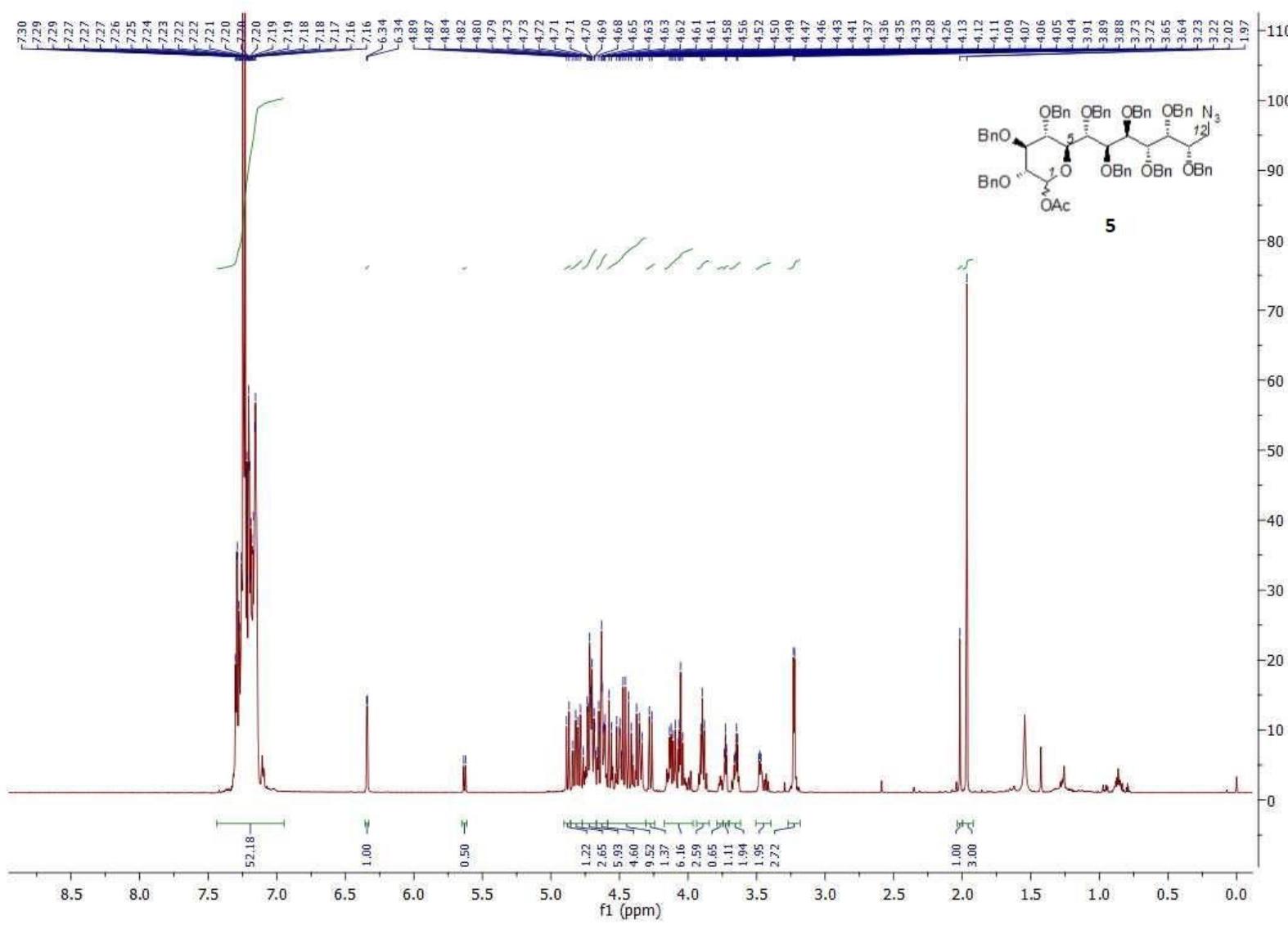
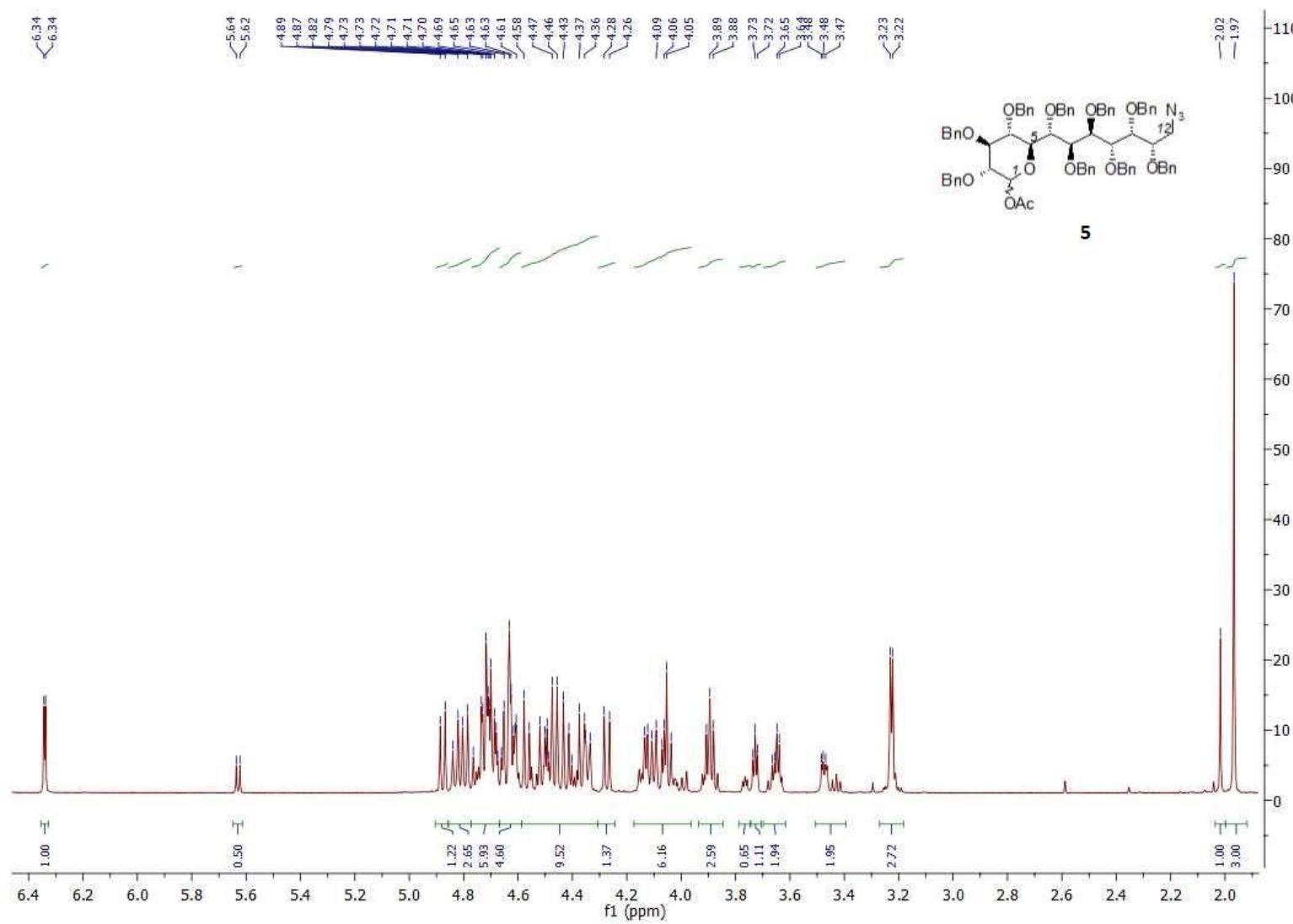


Figure S5:  $^1\text{H}$  NMR spectrum of compound 5.



**Figure S6:**  $^1\text{H}$  NMR spectrum (aliphatic part) of compound 5.

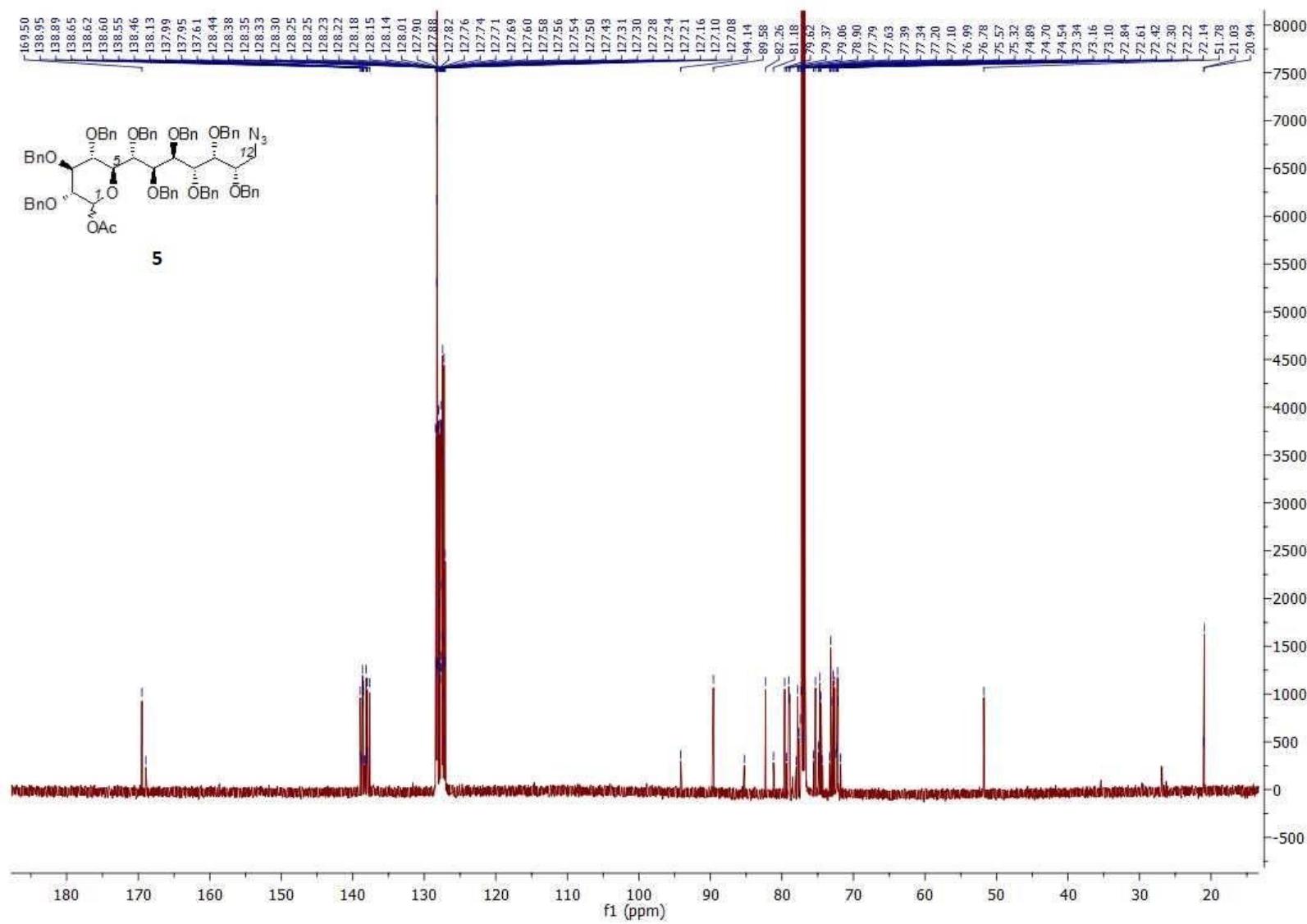
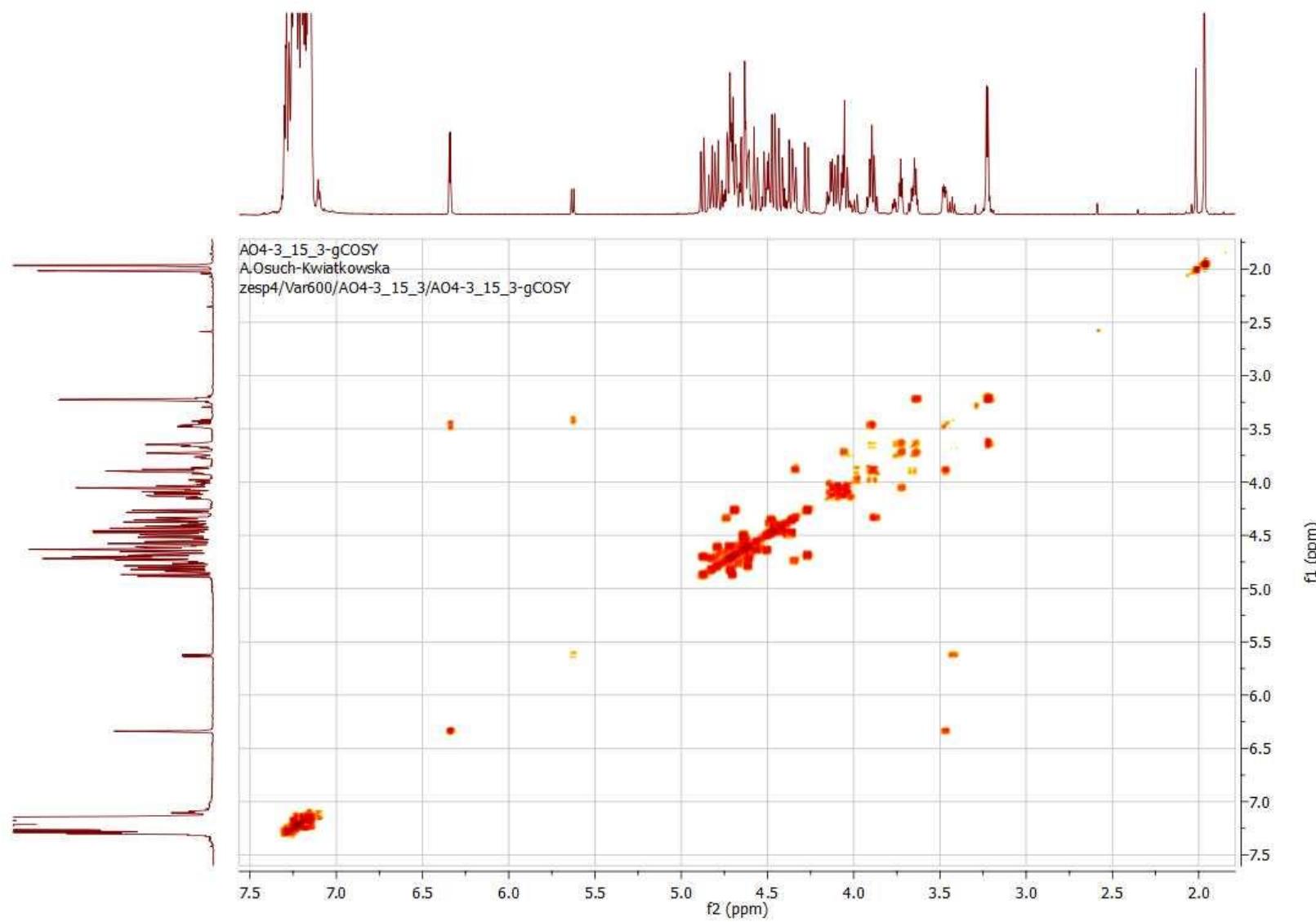
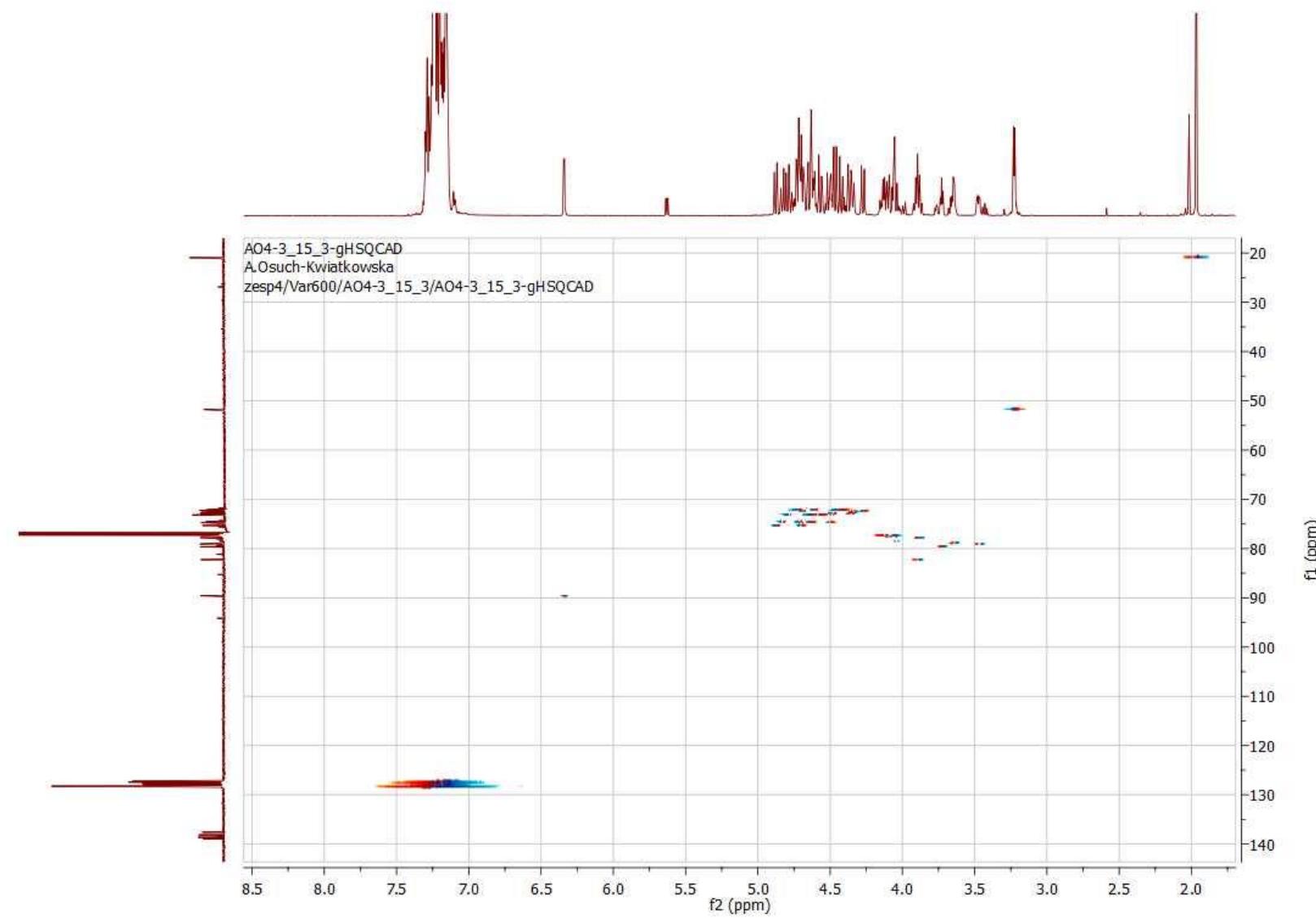


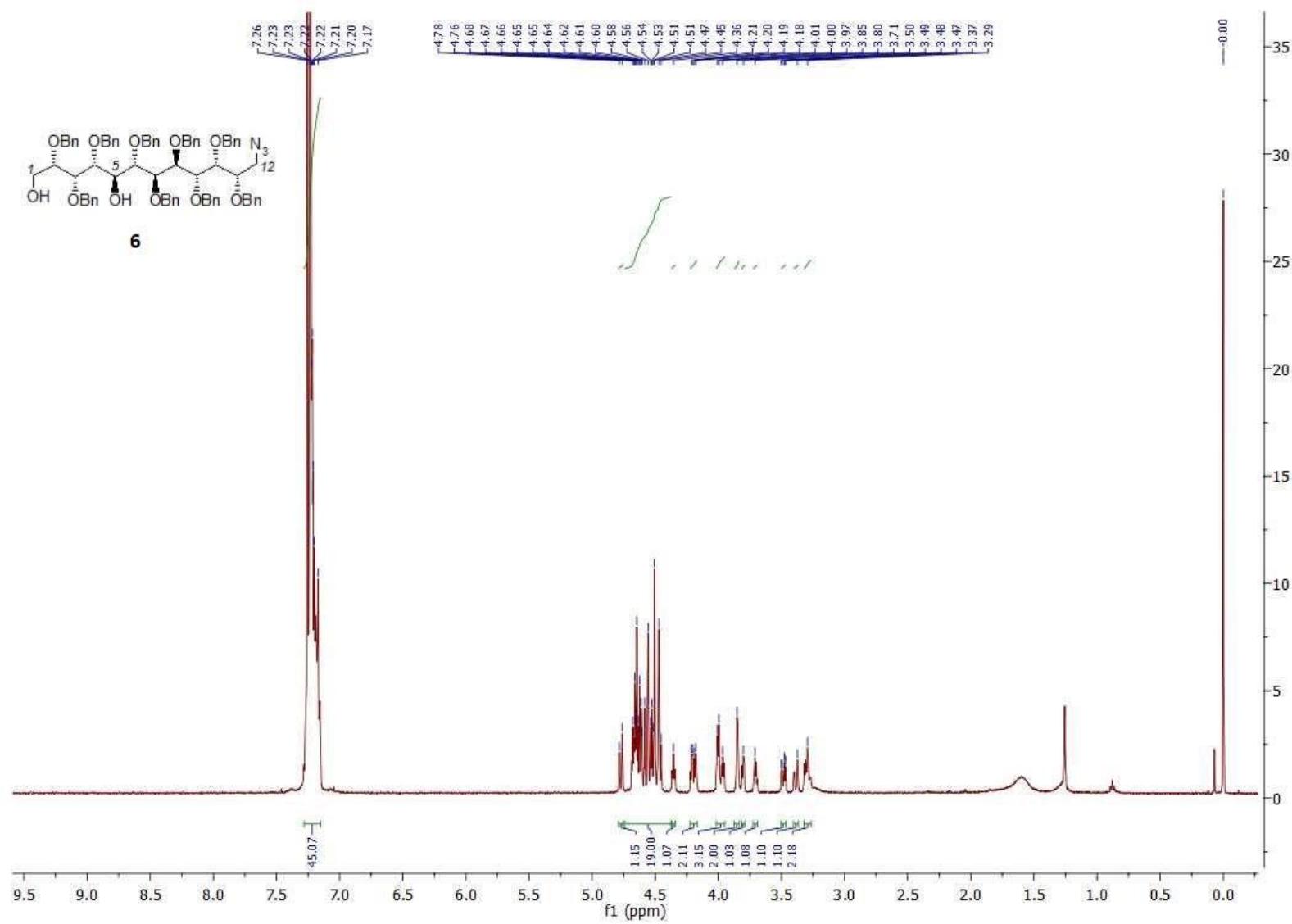
Figure S7:  $^{13}\text{C}$  NMR spectrum of compound 5.



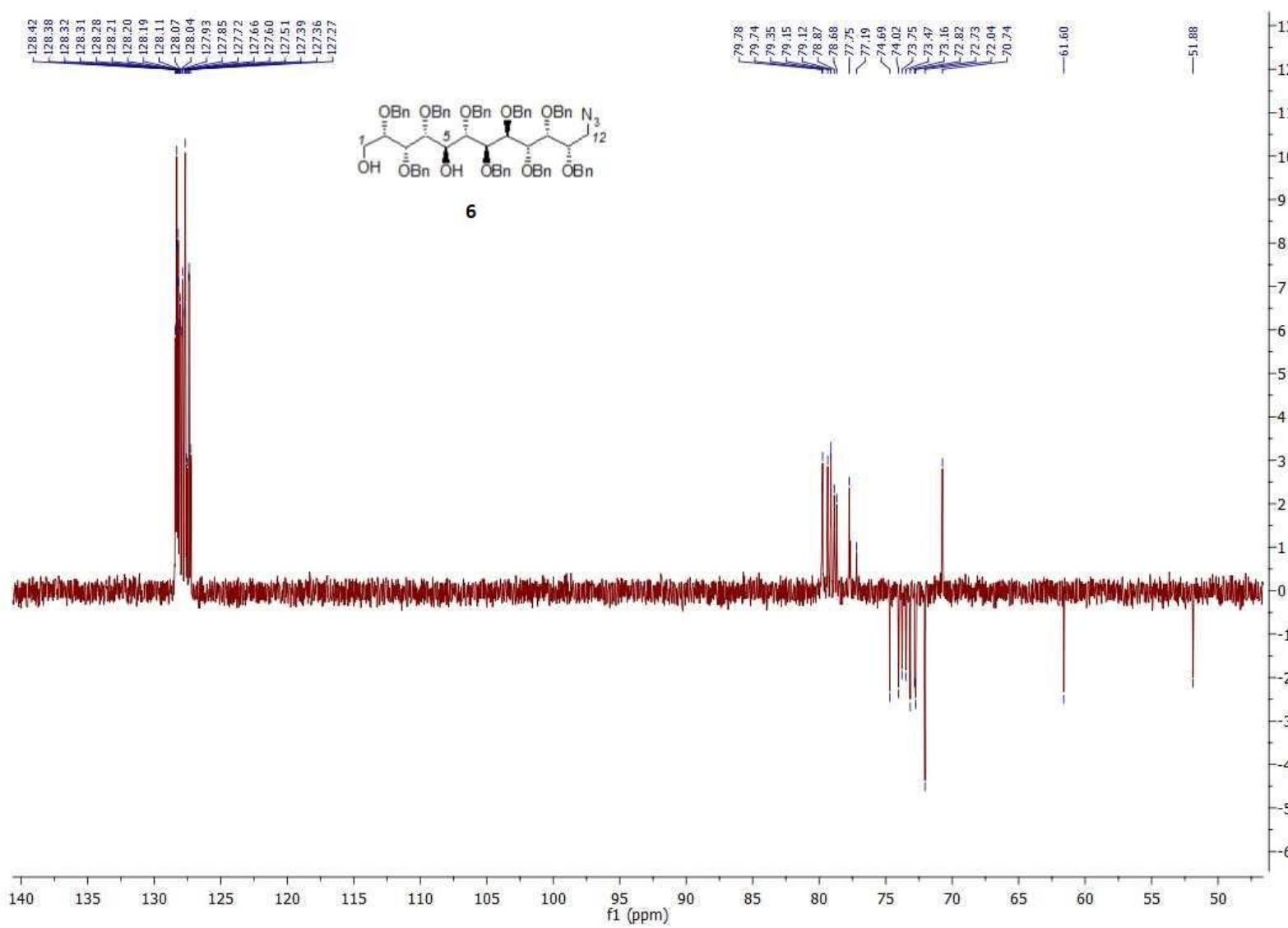
**Figure S8:** gCOSY spectrum of compound 5.



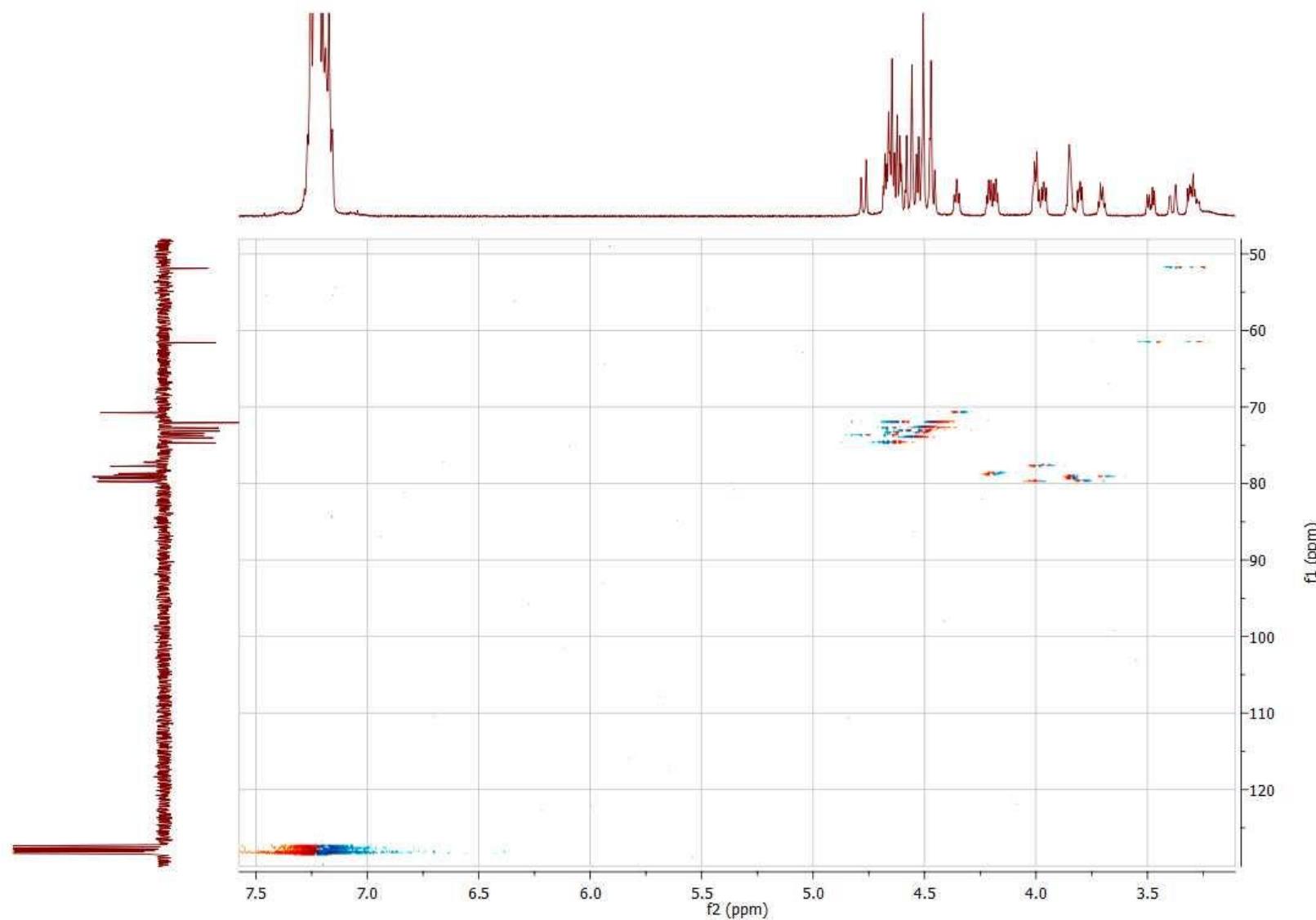
**Figure S9:** gHSQCAD spectrum of compound 5.



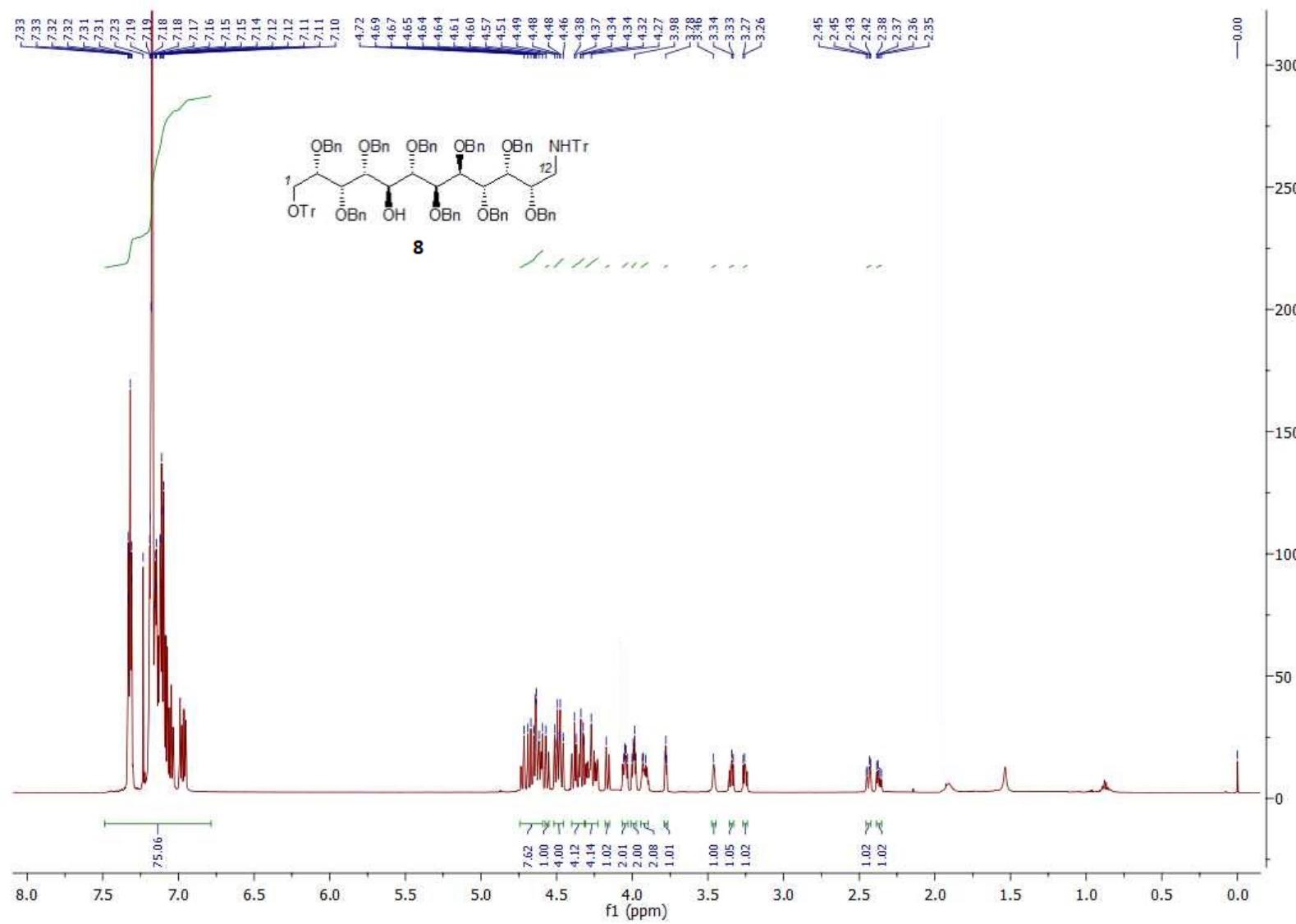
**Figure S10:**  $^1\text{H}$  NMR spectrum of compound **6**.



**Figure S11:** DEPT135 spectrum of compound **6**.



**Figure S12:** gHSQCAD spectrum of compound 6.



**Figure S13:**  $^1\text{H}$  NMR spectrum of compound **8**.

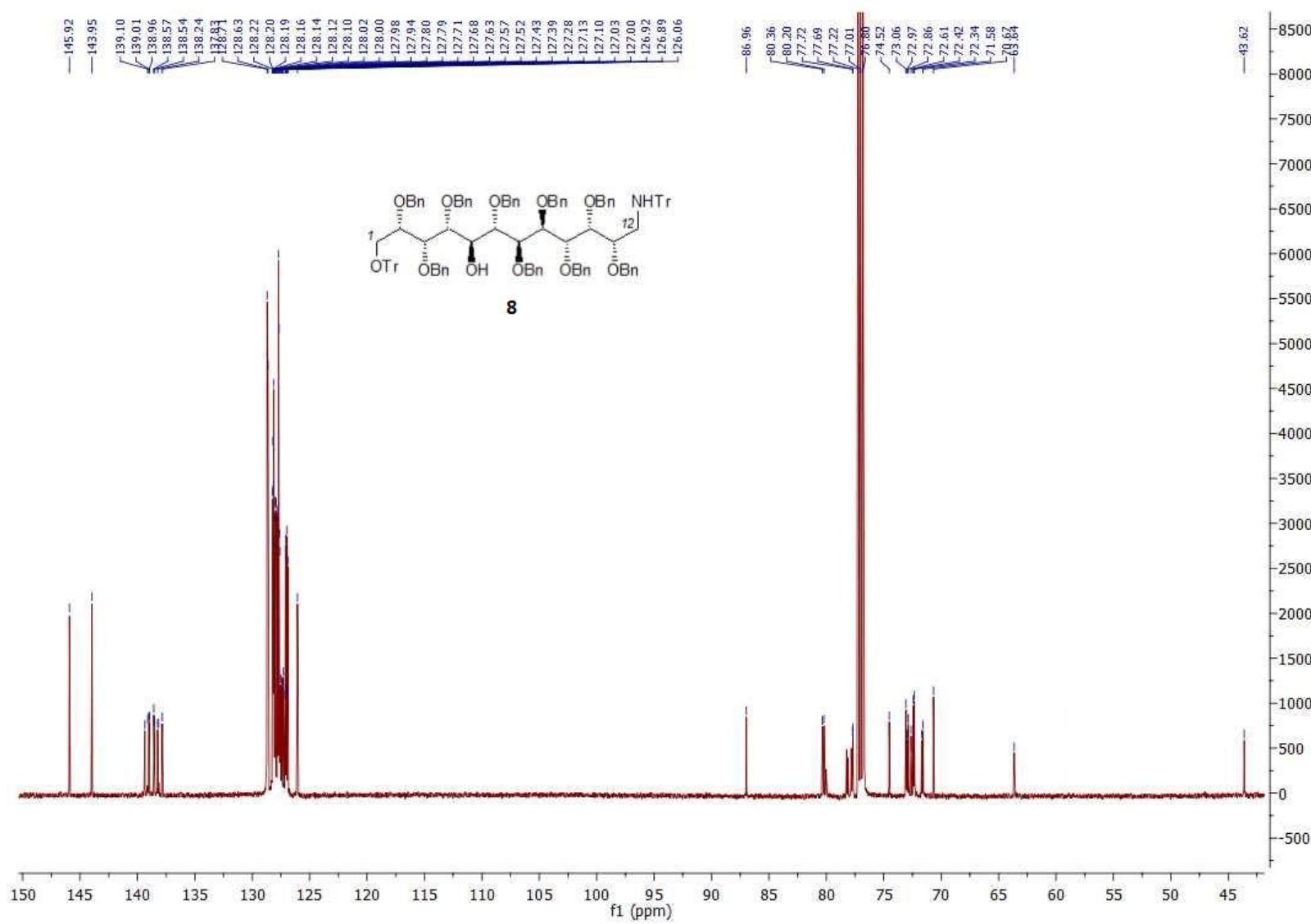
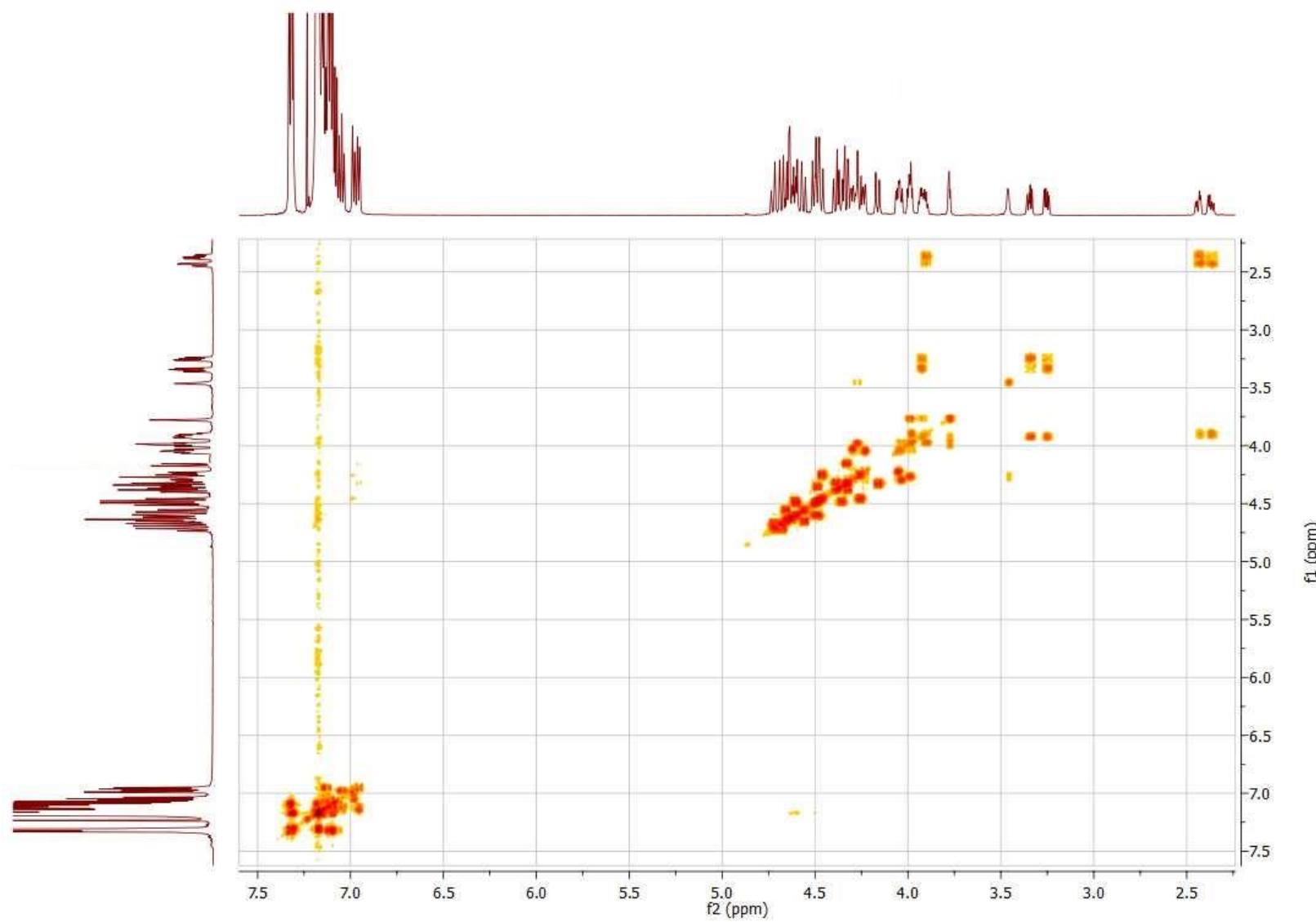
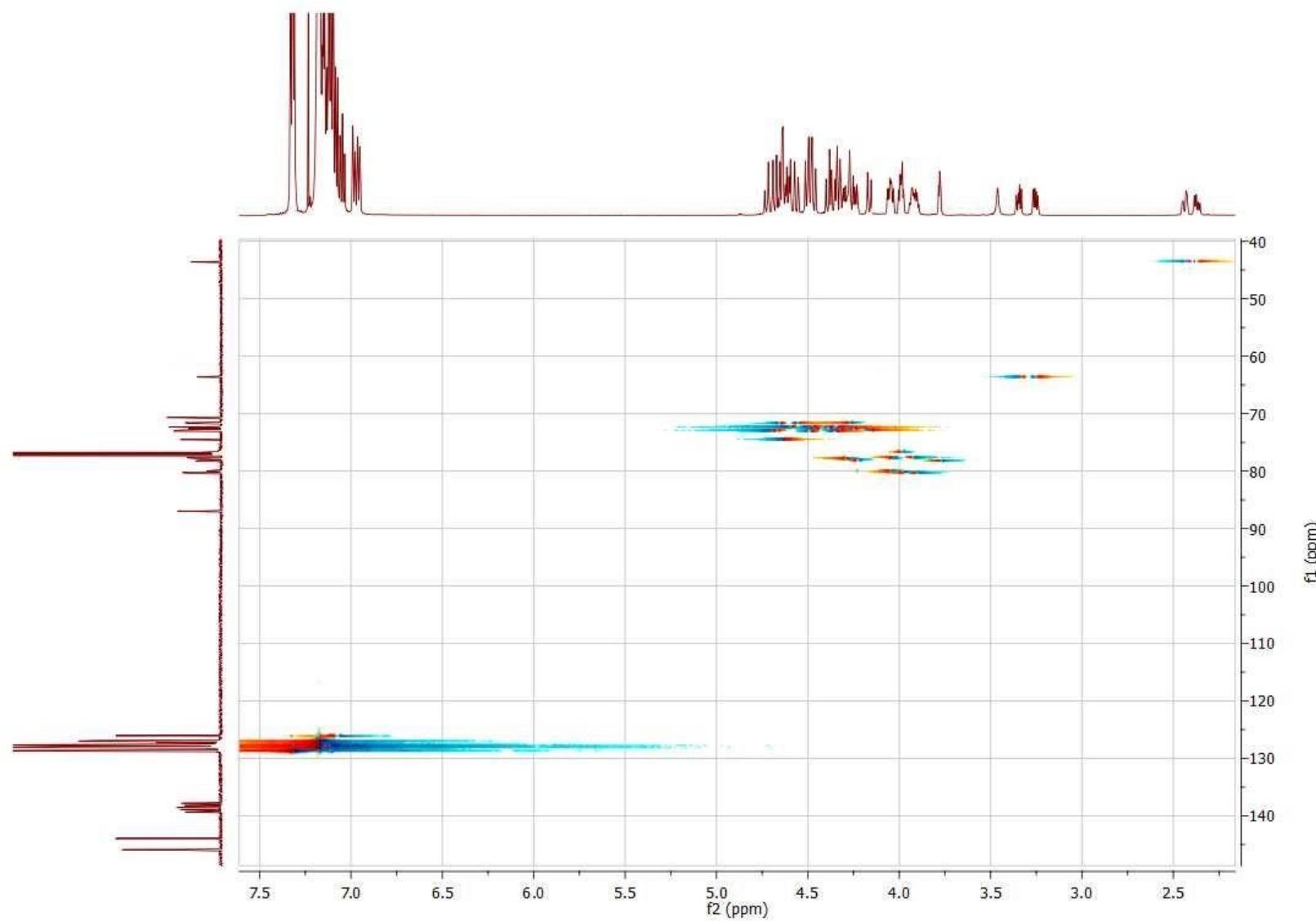


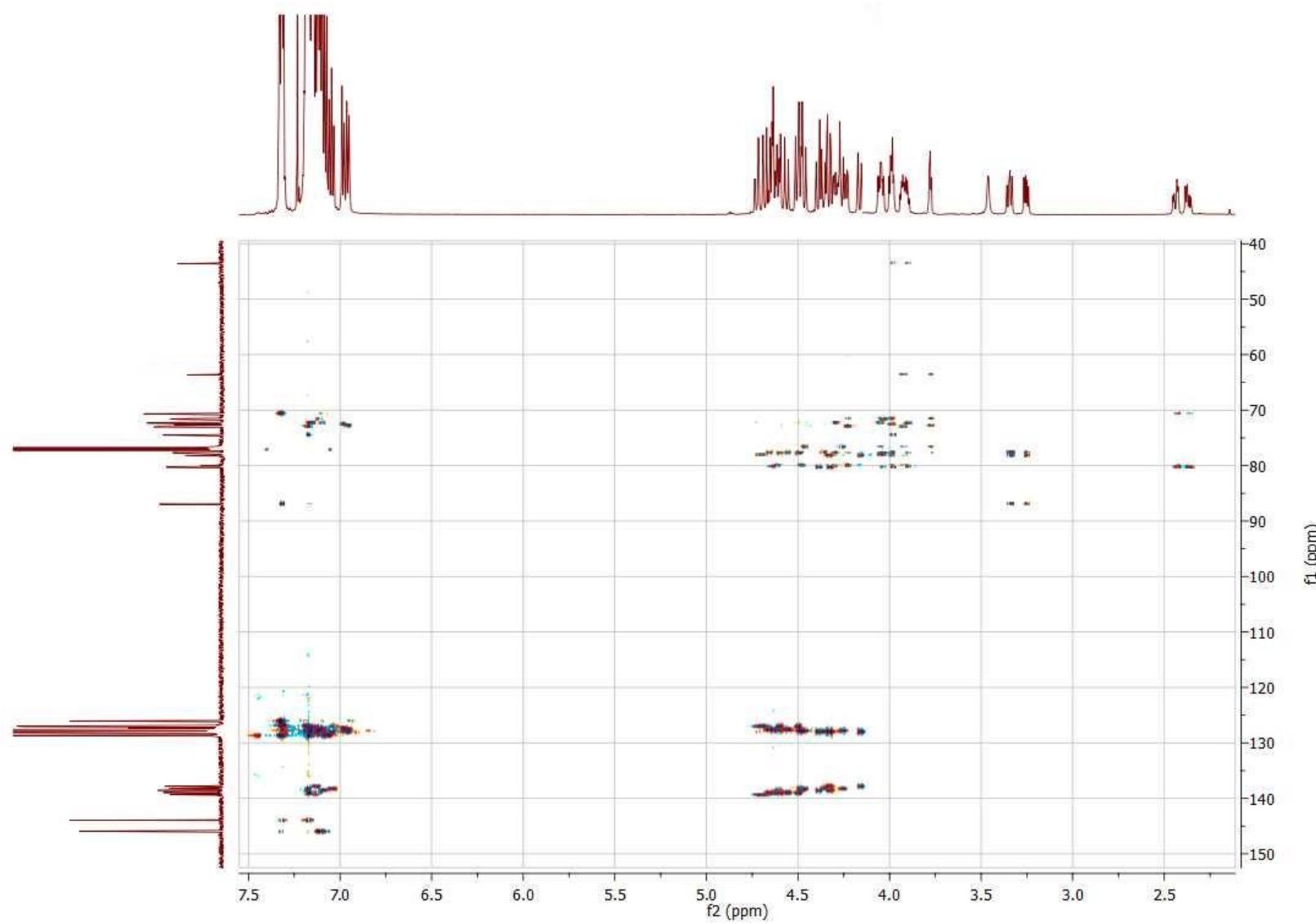
Figure S14:  $^{13}\text{C}$  NMR spectrum of compound 8.



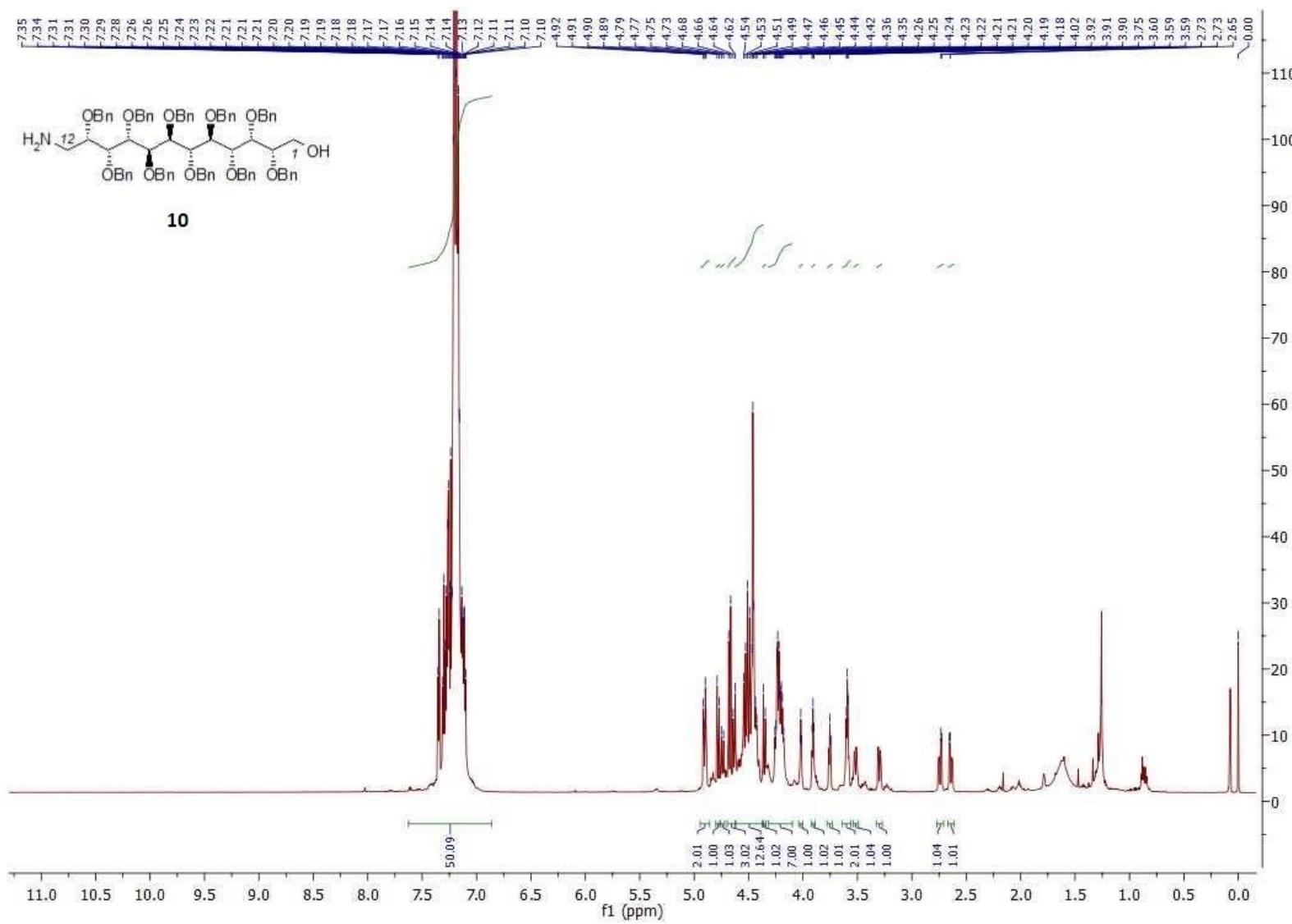
**Figure S15:** gCOSY spectrum of compound **8**.



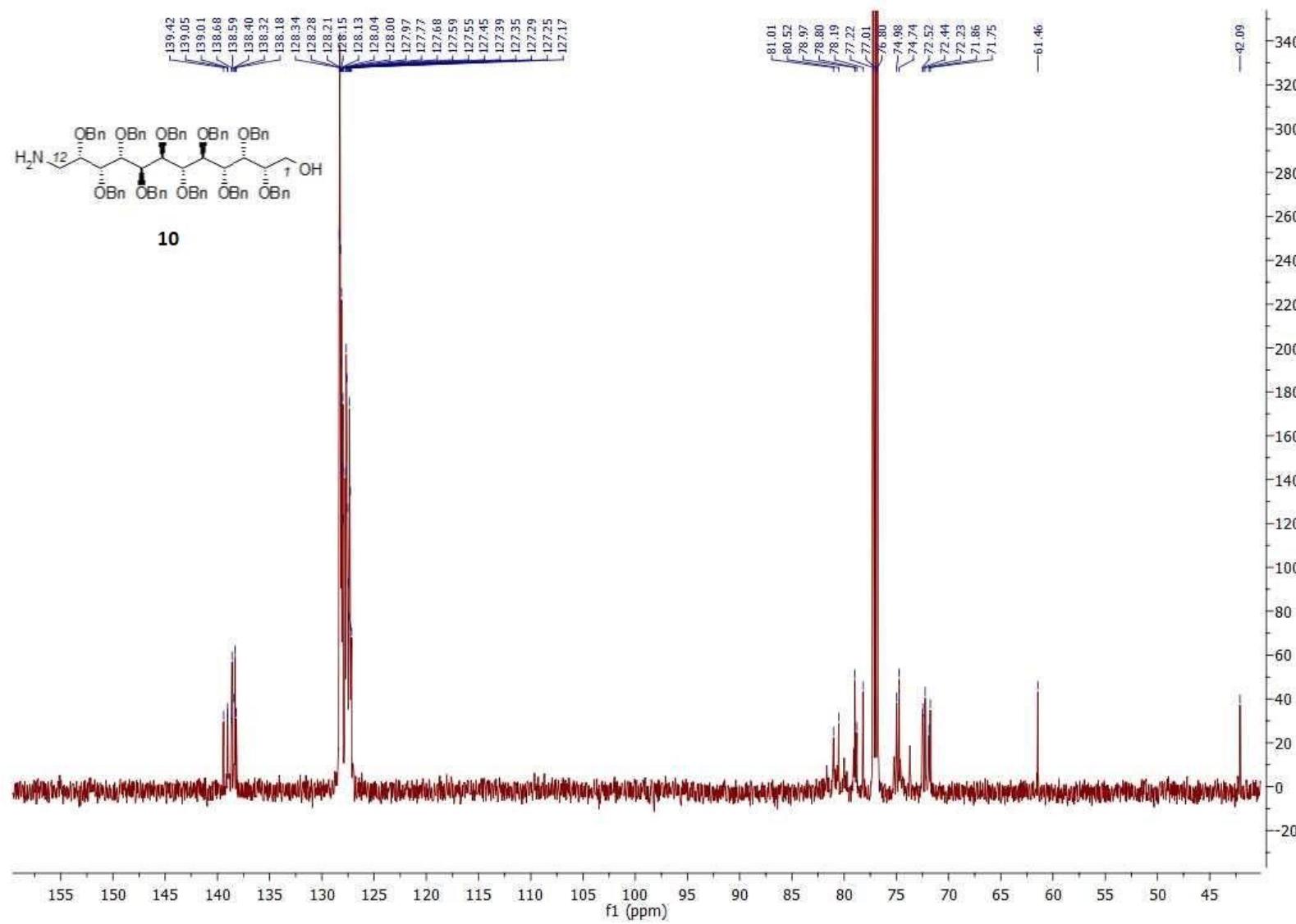
**Figure S16:** gHSQCAD spectrum of compound **8**.



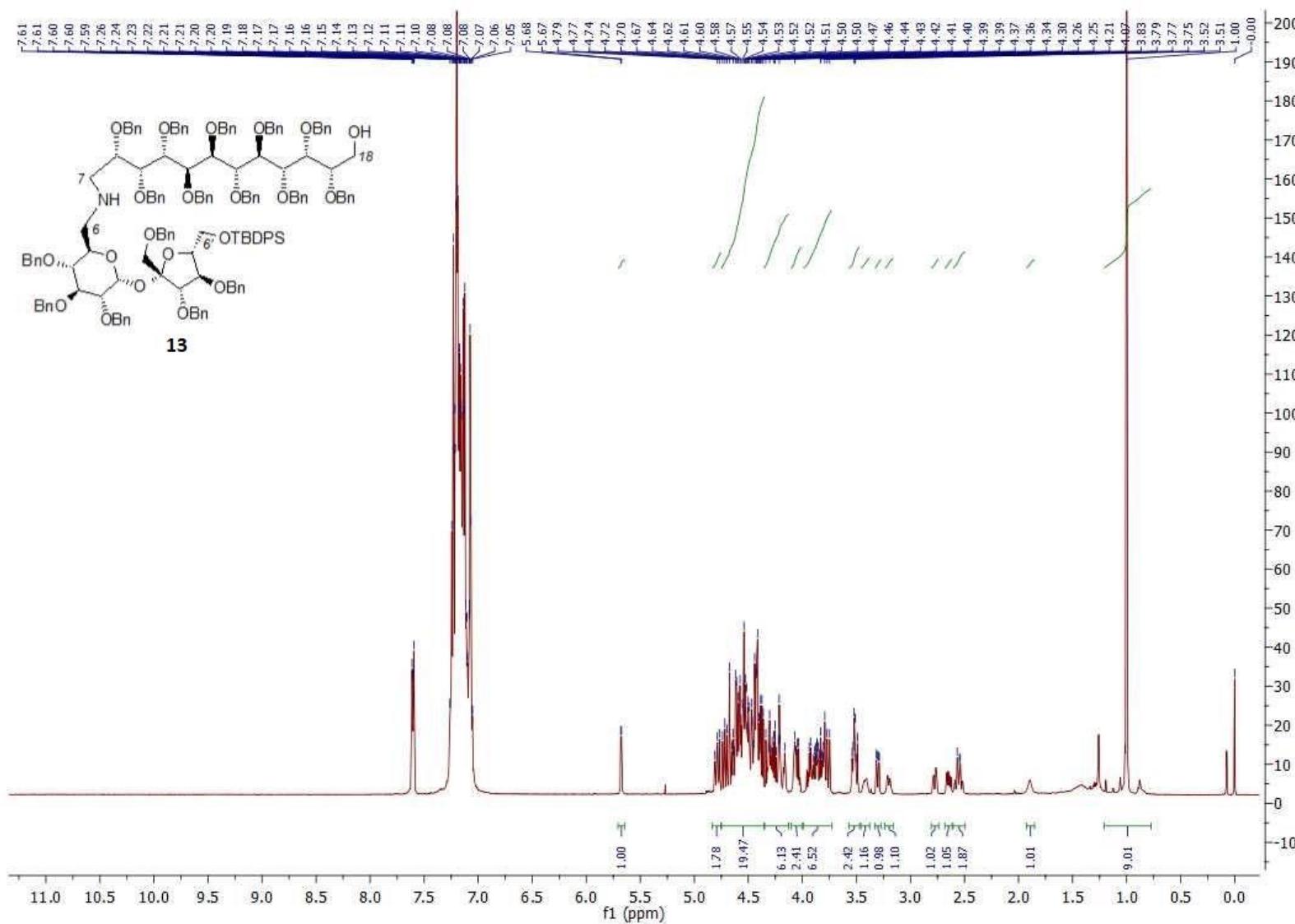
**Figure S17:** gHMBCAD spectrum of compound **8**.



**Figure S18:**  $^1\text{H}$  NMR spectrum of compound **10**.



**Figure S19:**  $^{13}\text{C}$  NMR spectrum of compound **10**.



**Figure S20:**  $^1\text{H}$  NMR spectrum of compound **13**.

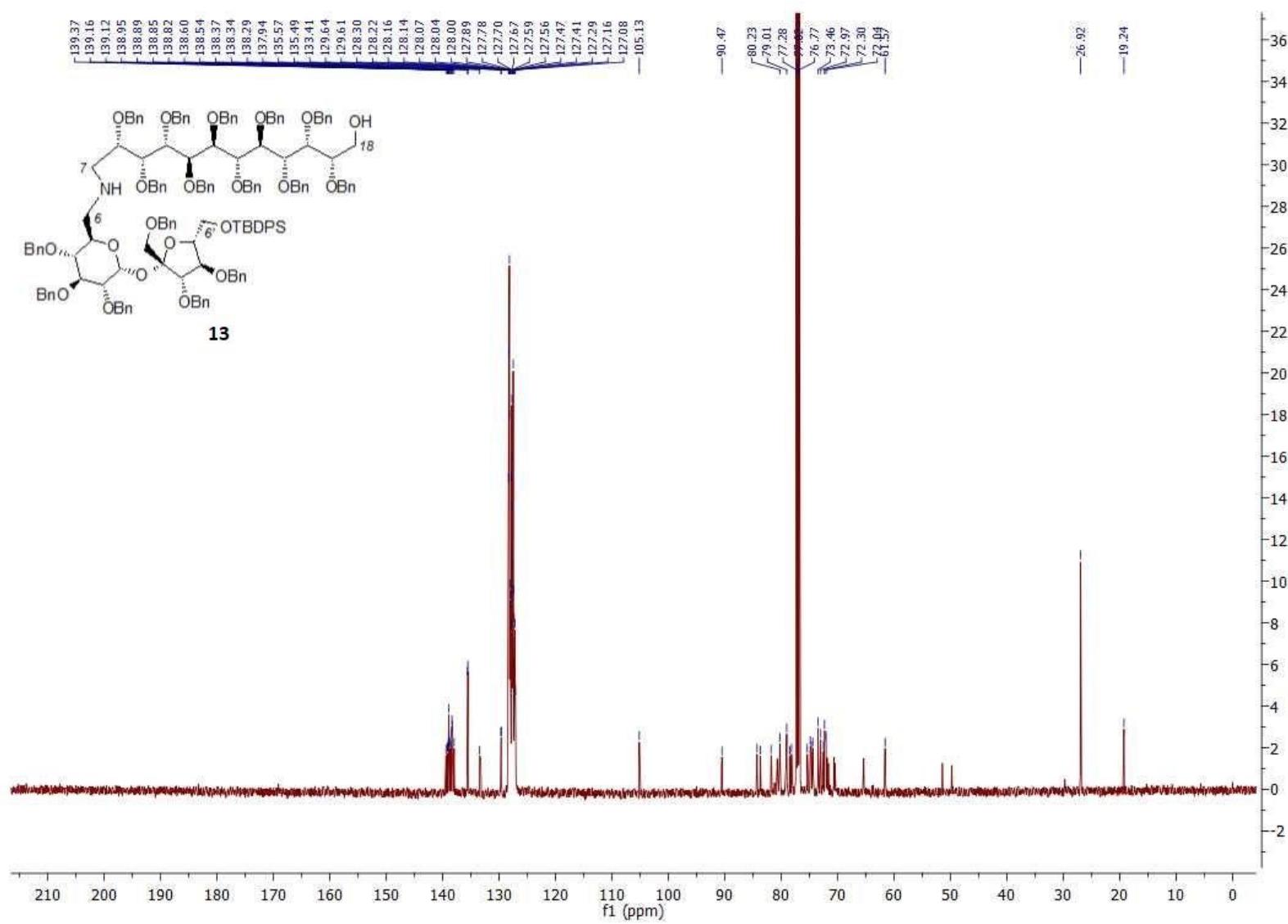
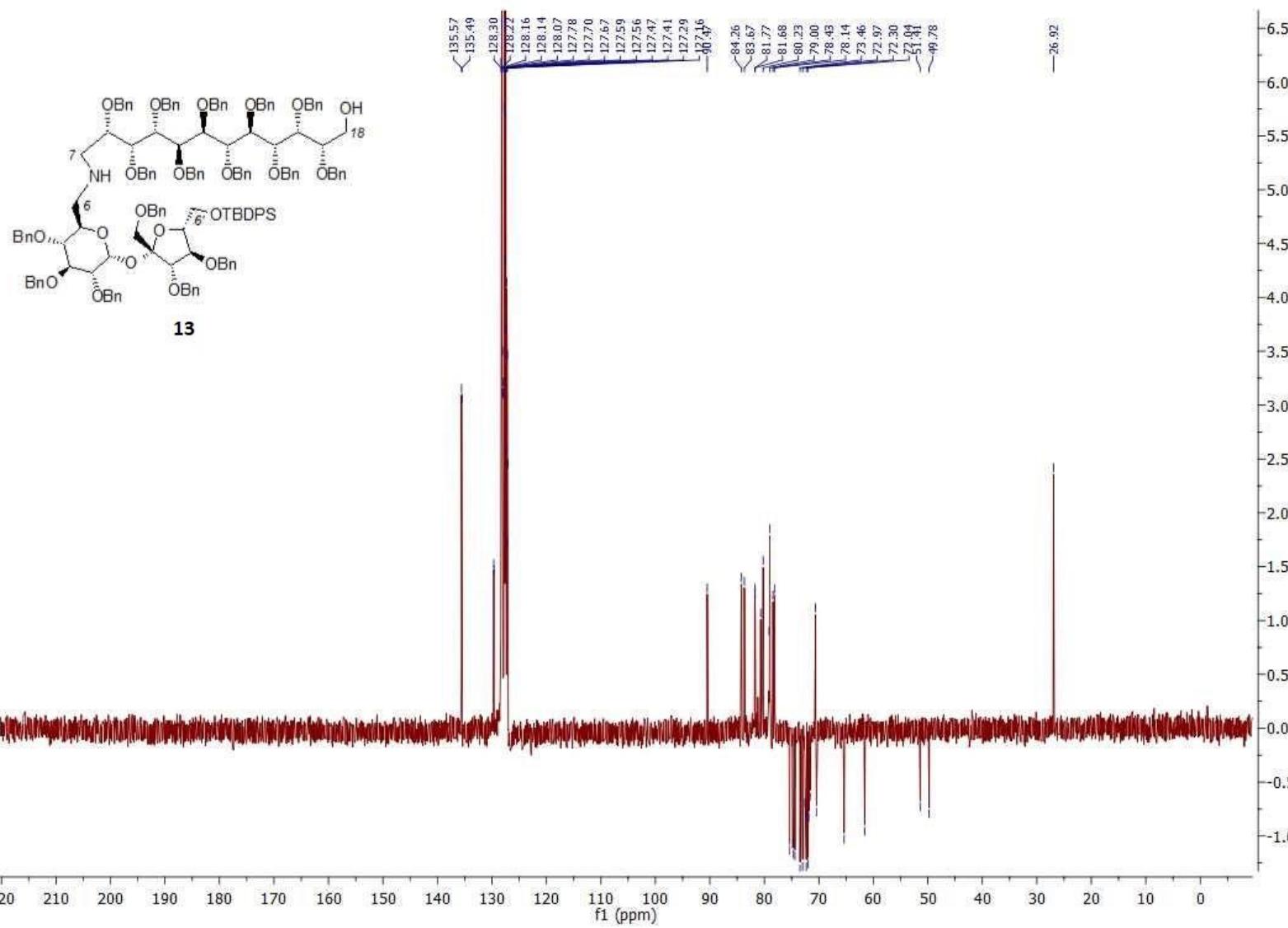
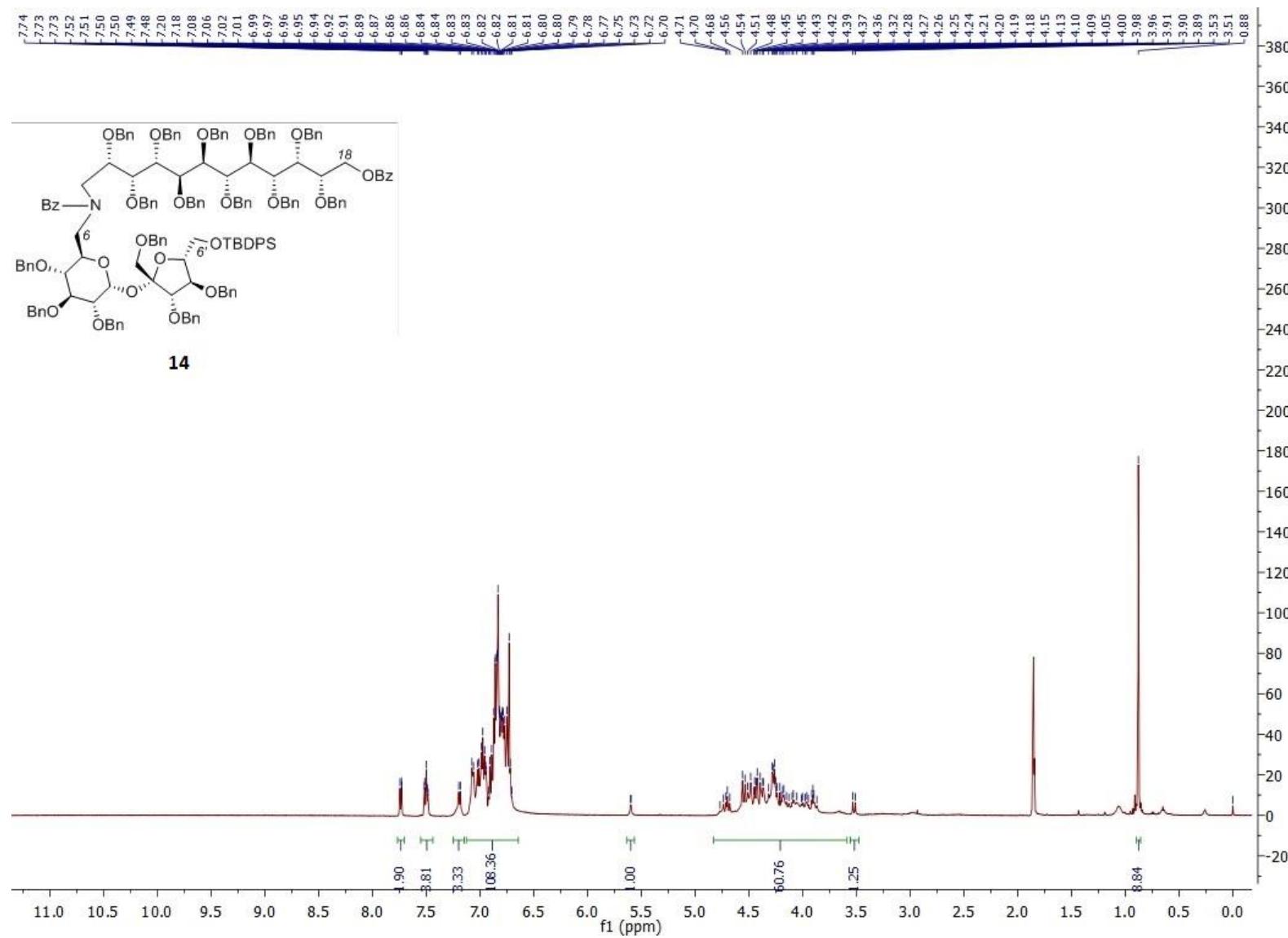


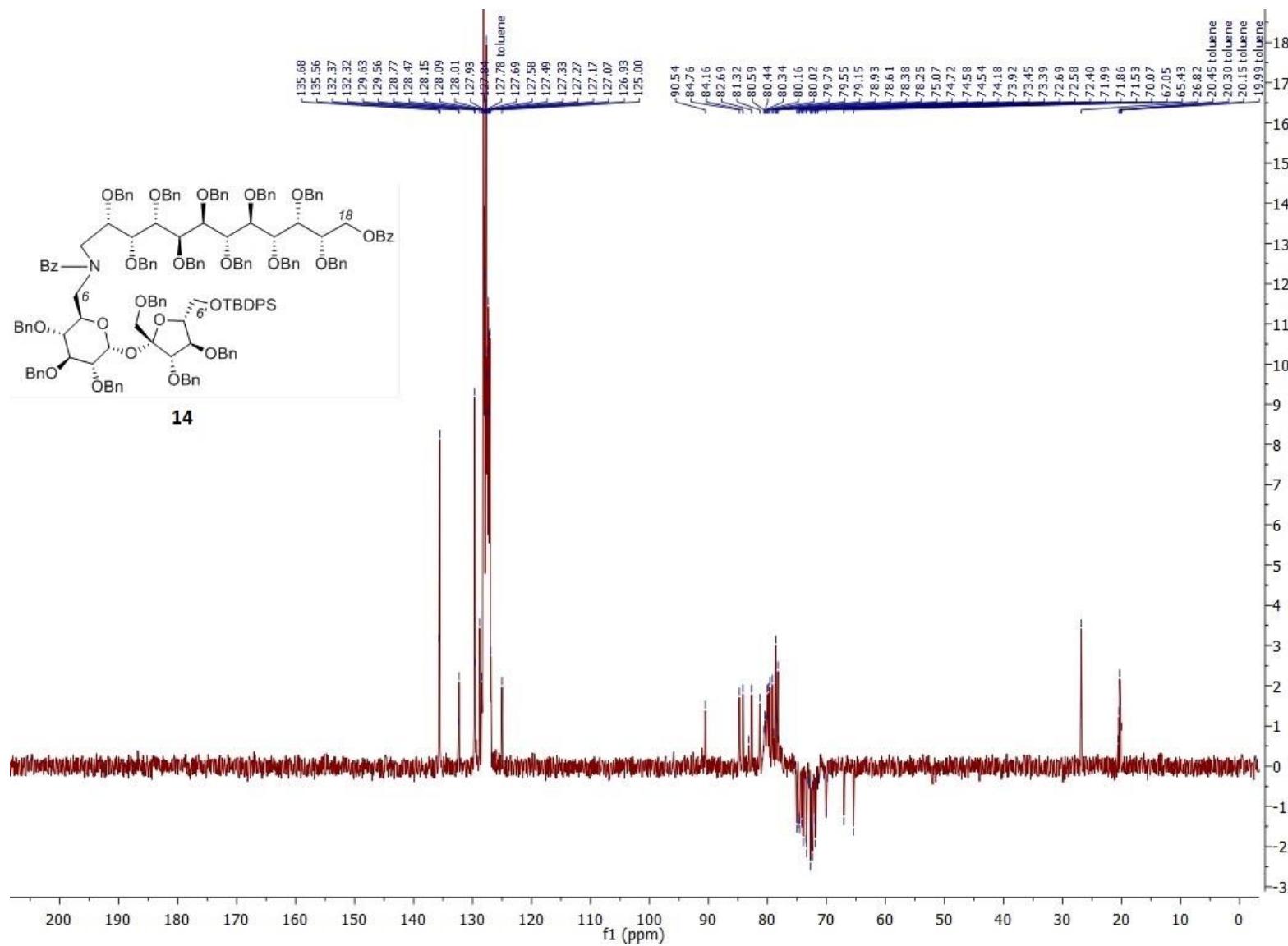
Figure S21:  $^{13}\text{C}$  NMR spectrum of compound **13**.



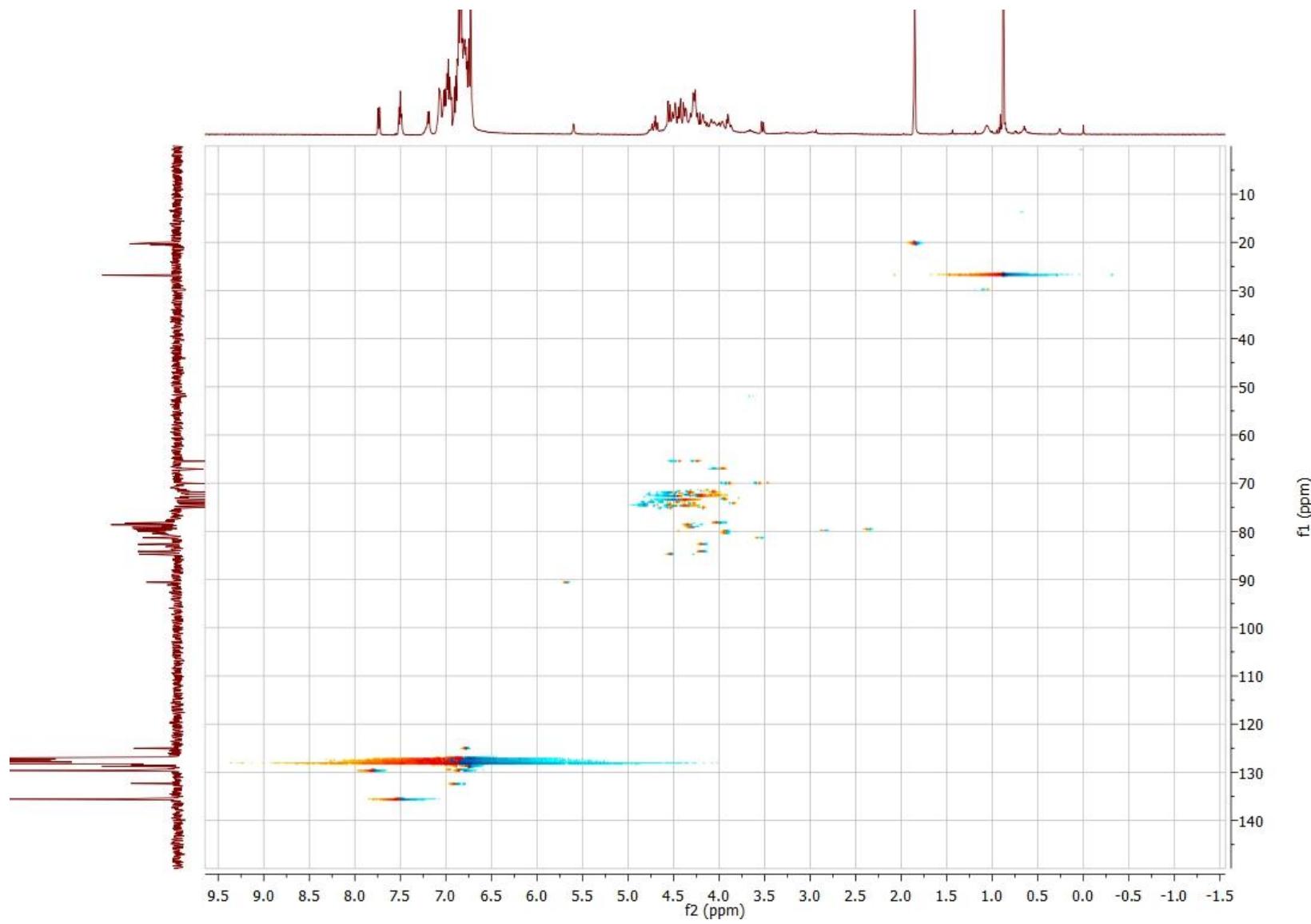
**Figure S22:** DEPT135 spectrum of compound **13**.



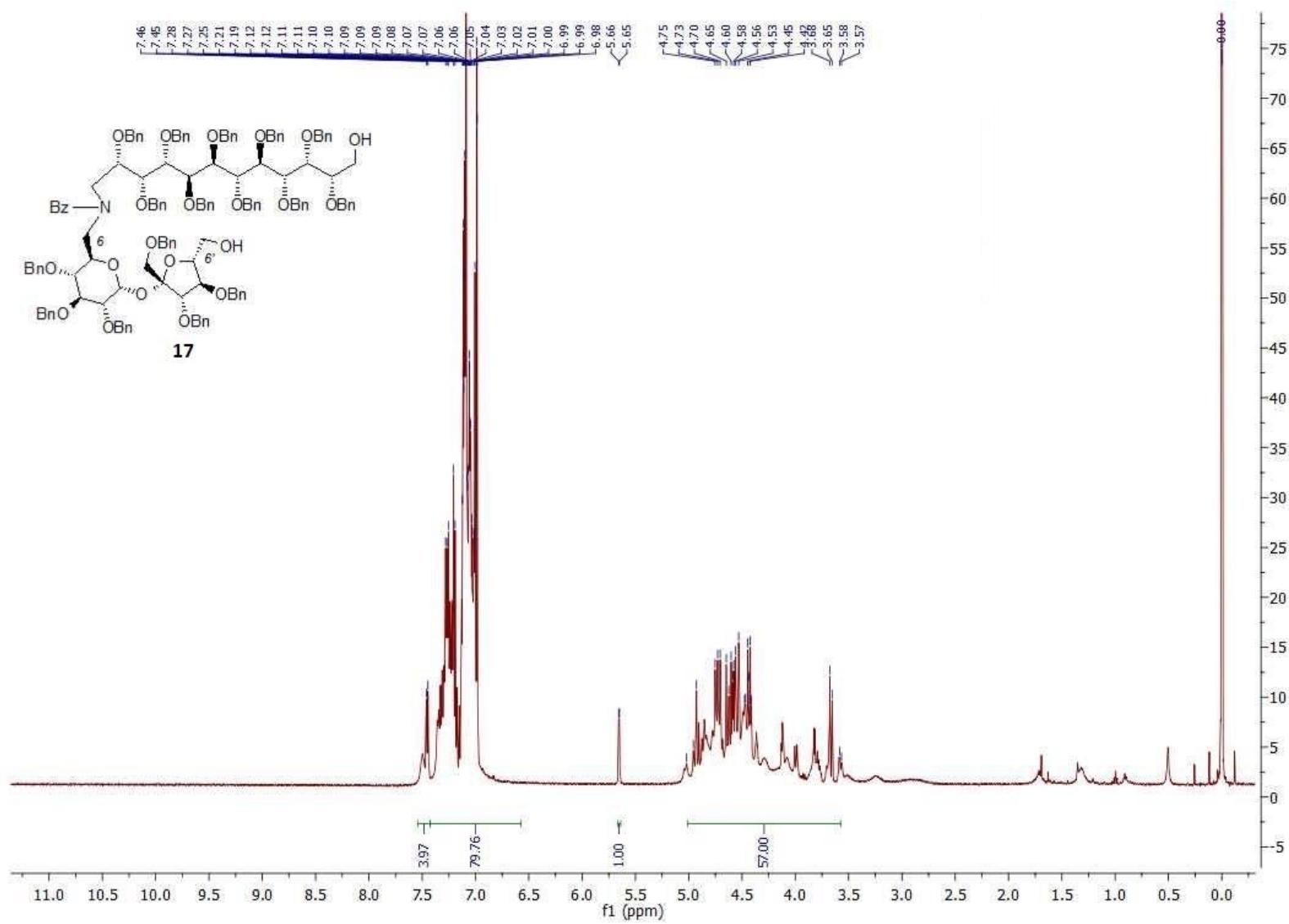
**Figure S23:**  $^1\text{H}$  NMR spectrum of compound **14**.



**Figure S24:** DEPT135 spectrum of compound 14.



**Figure S25:** gHSQCAD spectrum of compound **14**.



**Figure S26:**  $^1\text{H}$  NMR spectrum of compound **17**.

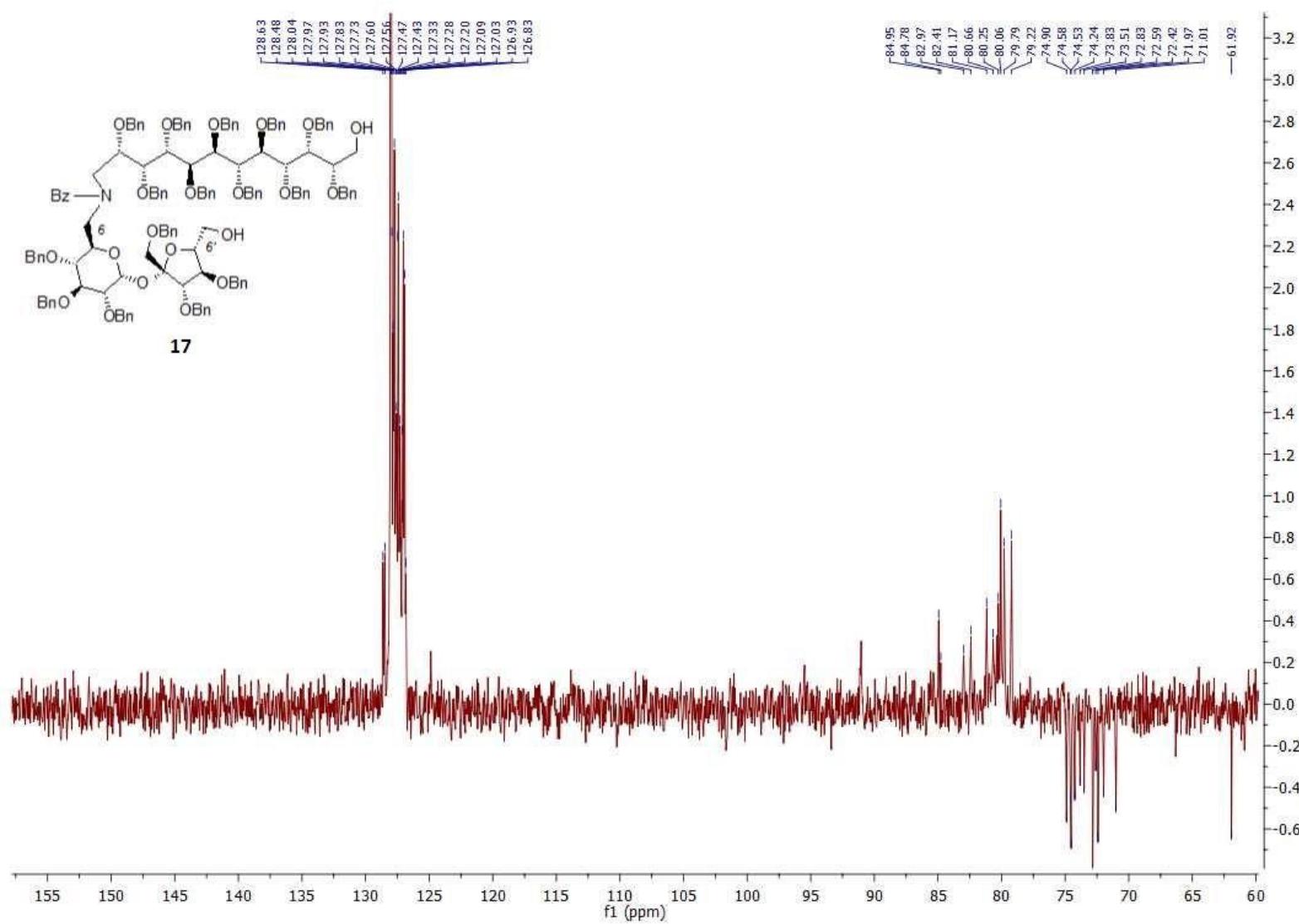


Figure S27: DEPT135 spectrum of compound 17.