

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

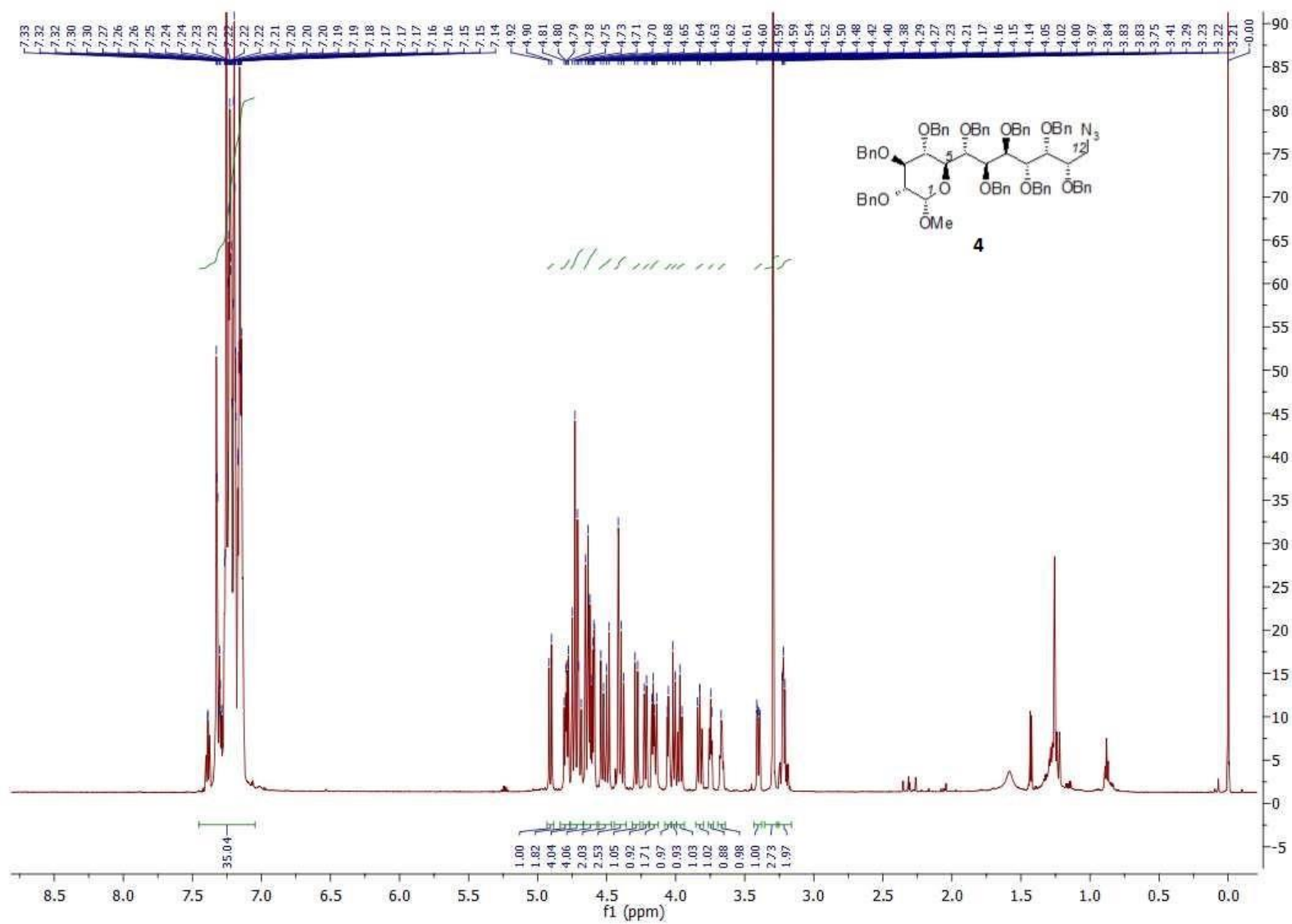
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**Copies of NMR spectra**



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

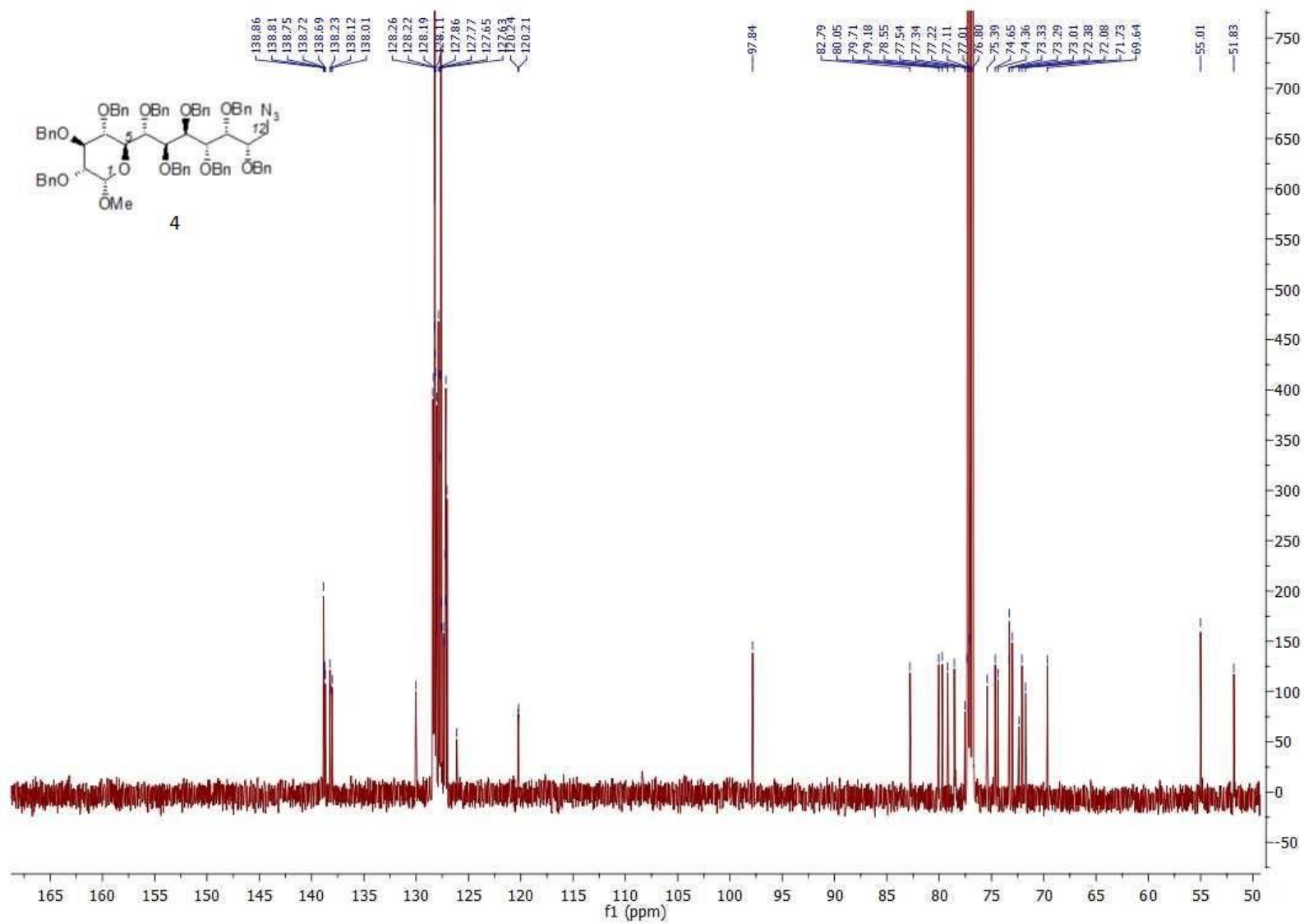
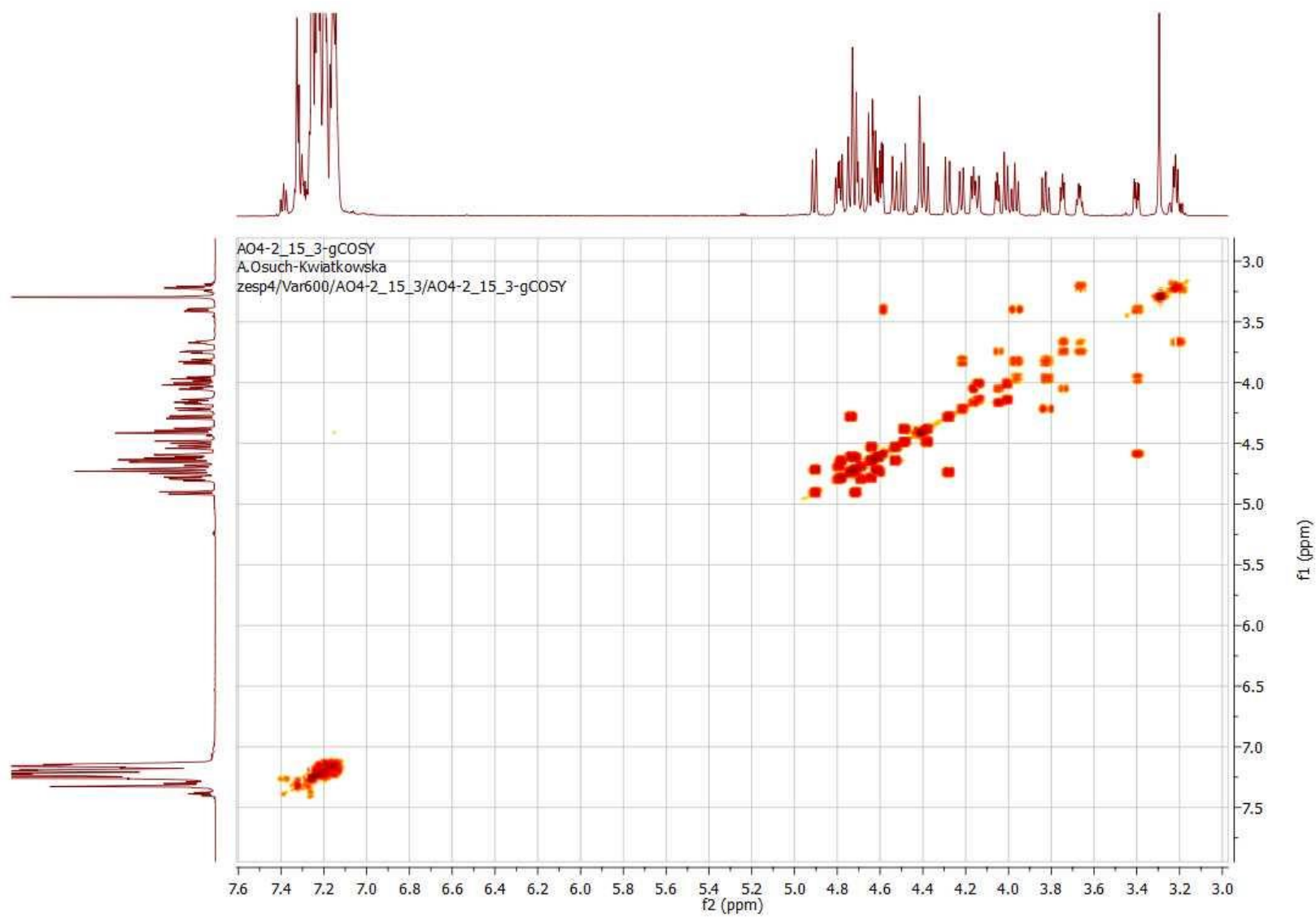
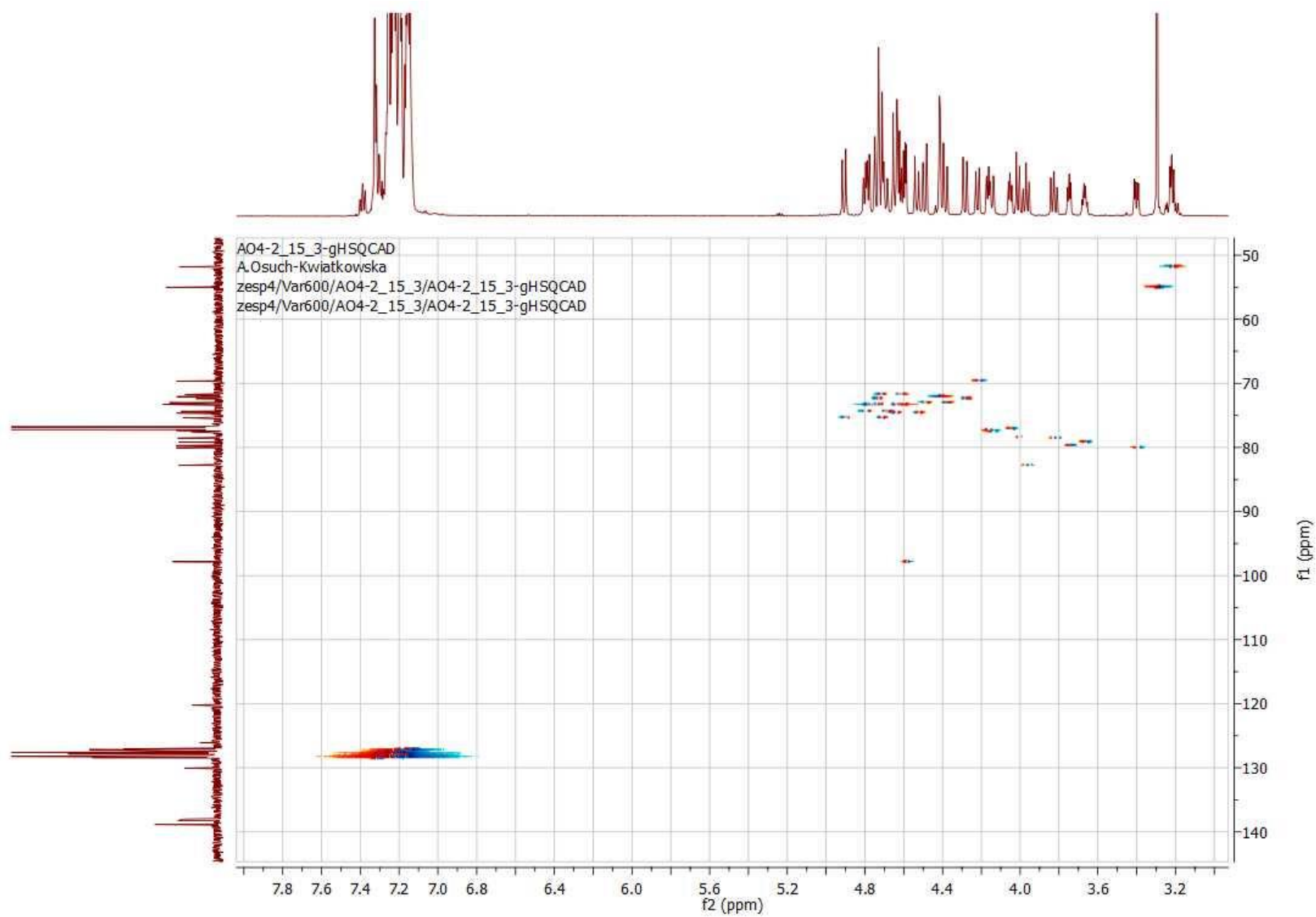


Figure S2: <sup>13</sup>C NMR spectrum of compound 4.

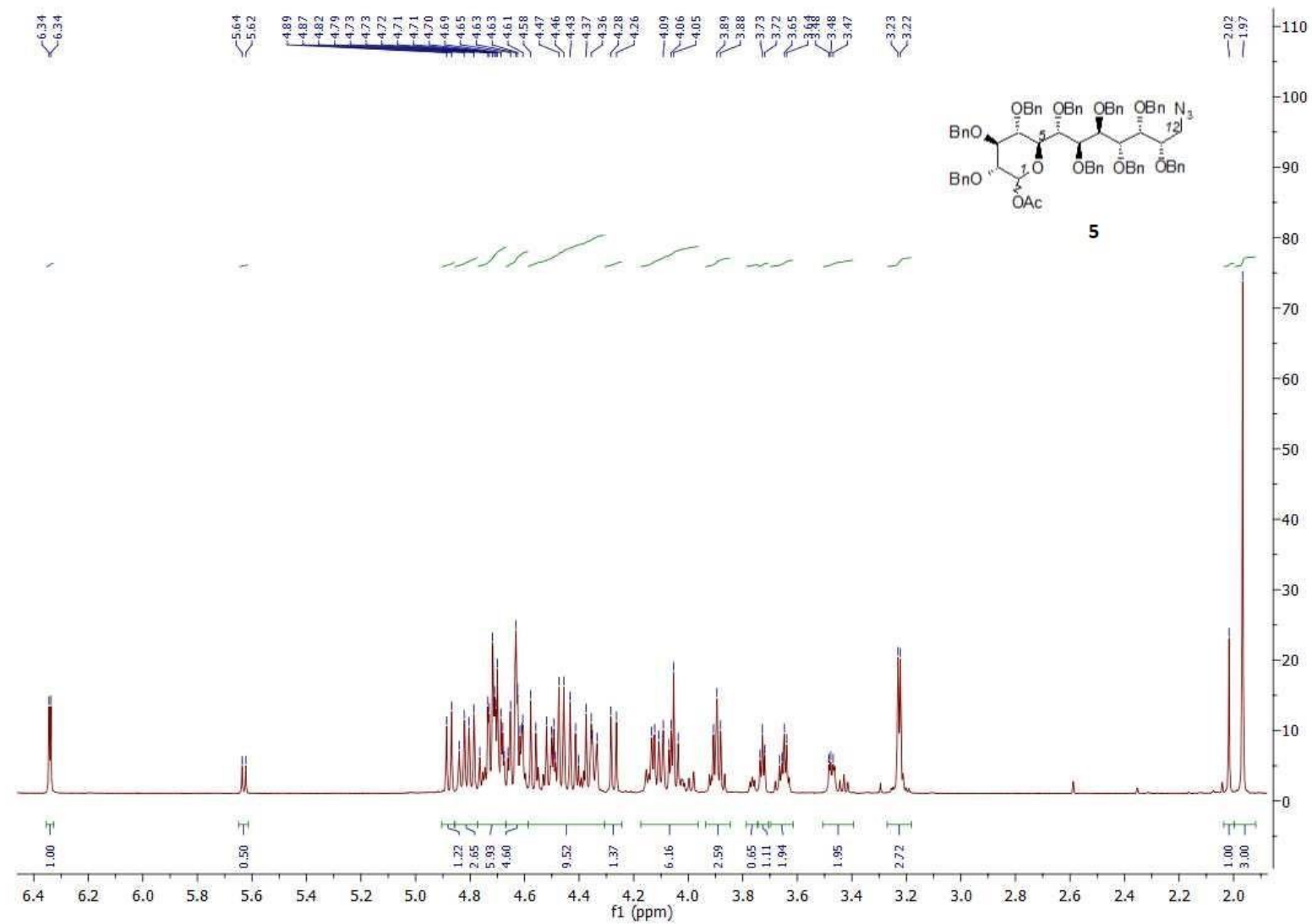


**Figure S3:** gCOSY spectrum of compound **4**.



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





**Figure S6:** <sup>1</sup>H NMR spectrum (aliphatic part) of compound 5.

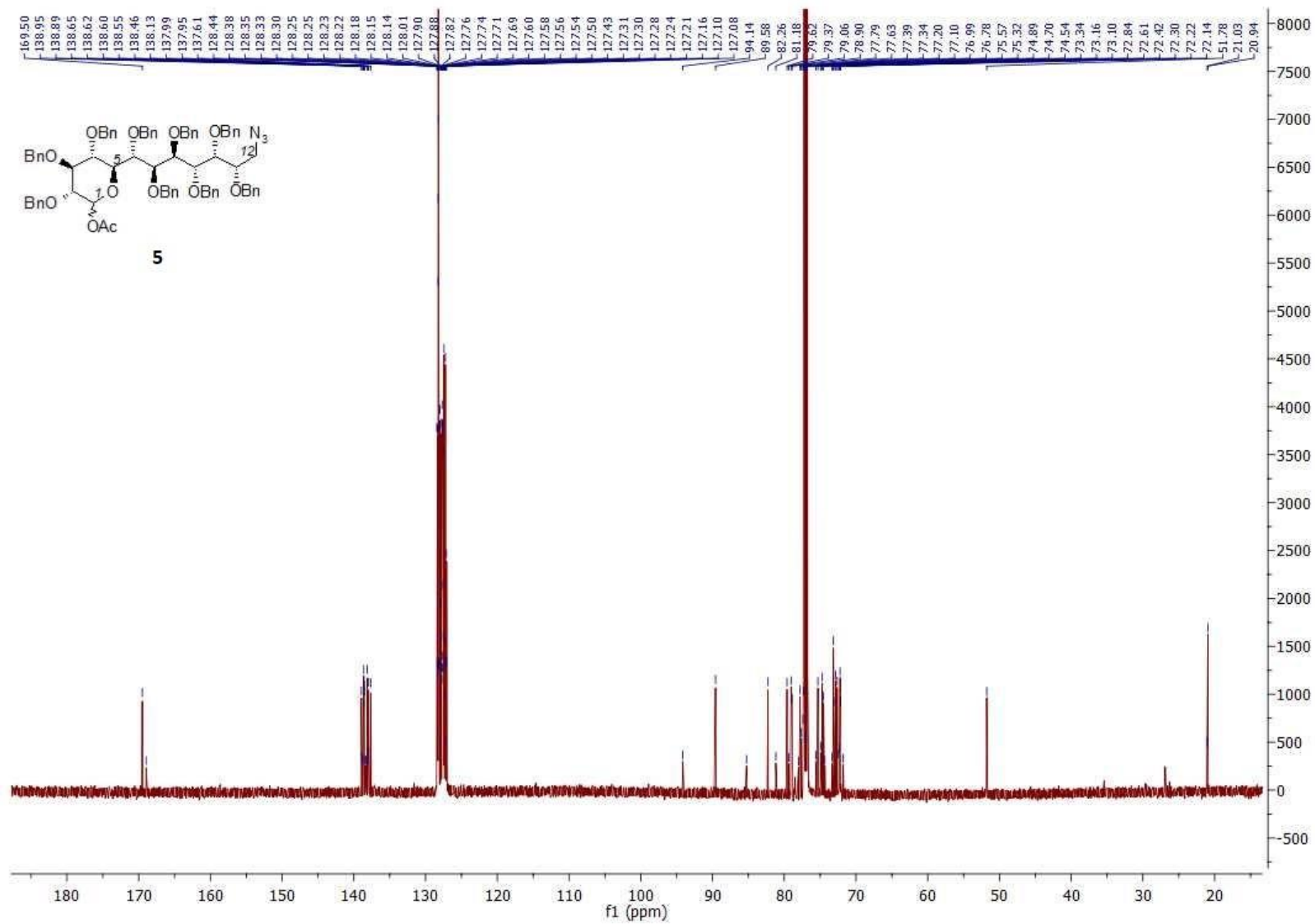
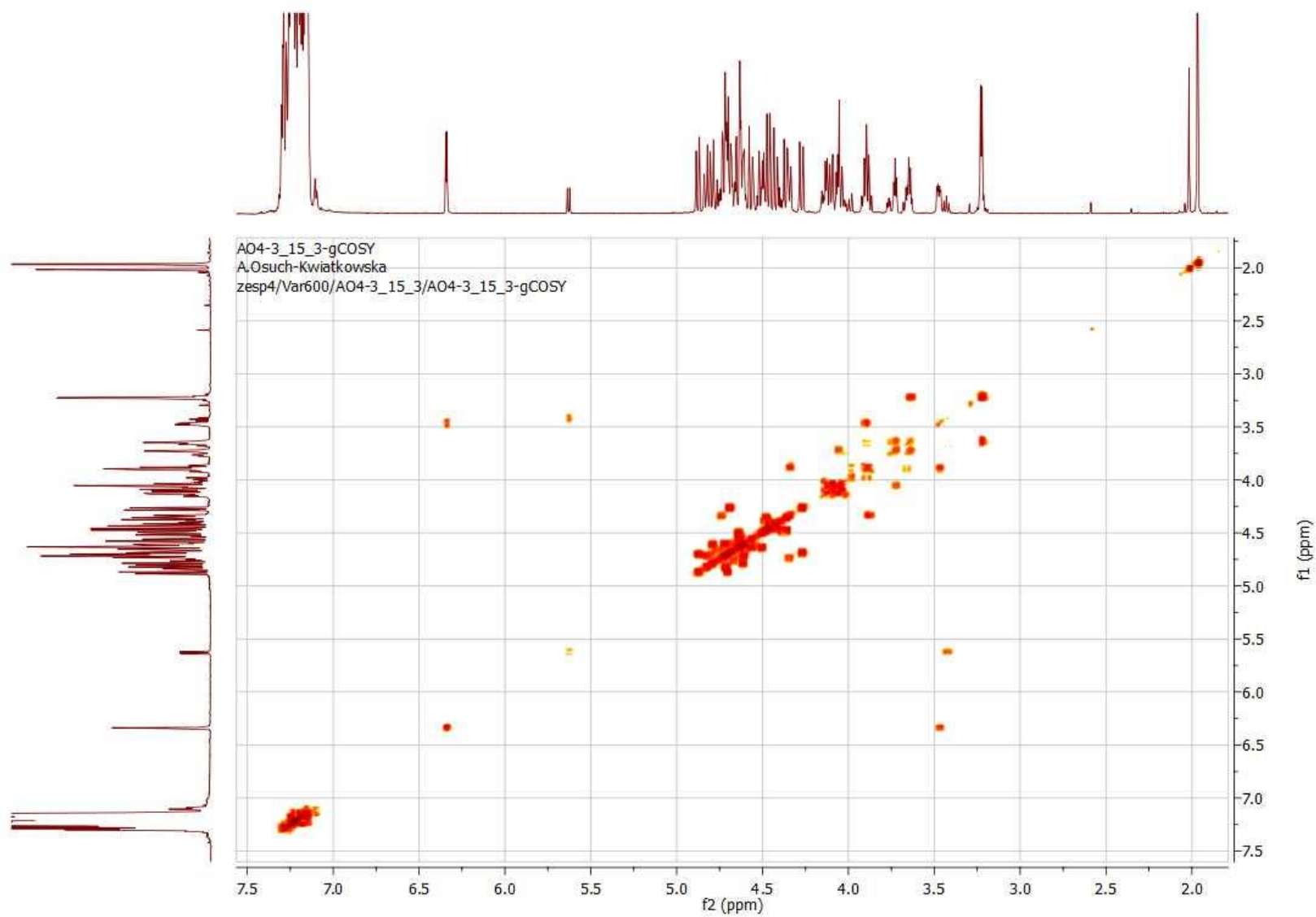
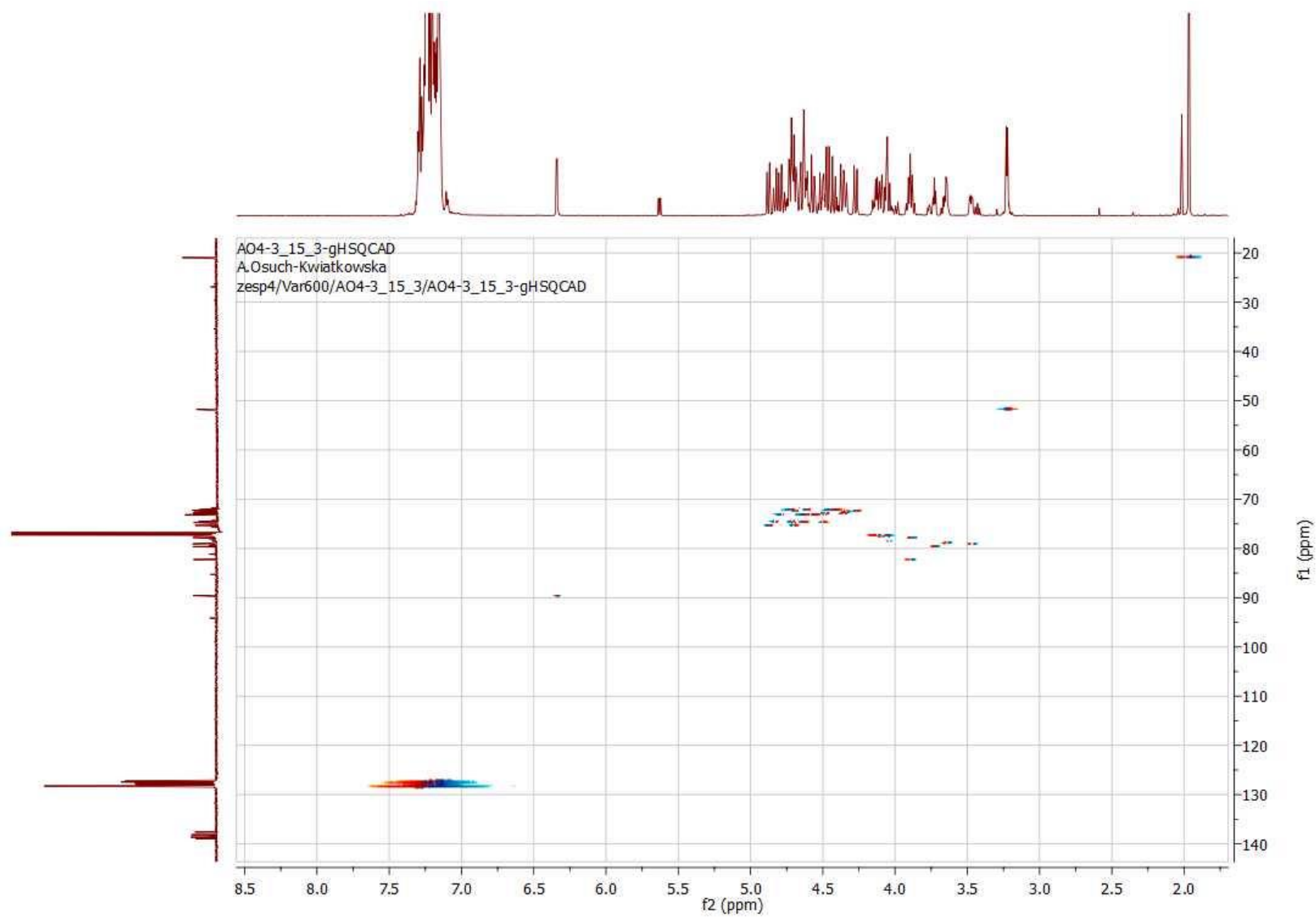


Figure S7:  $^{13}\text{C}$  NMR spectrum of compound 5.





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



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

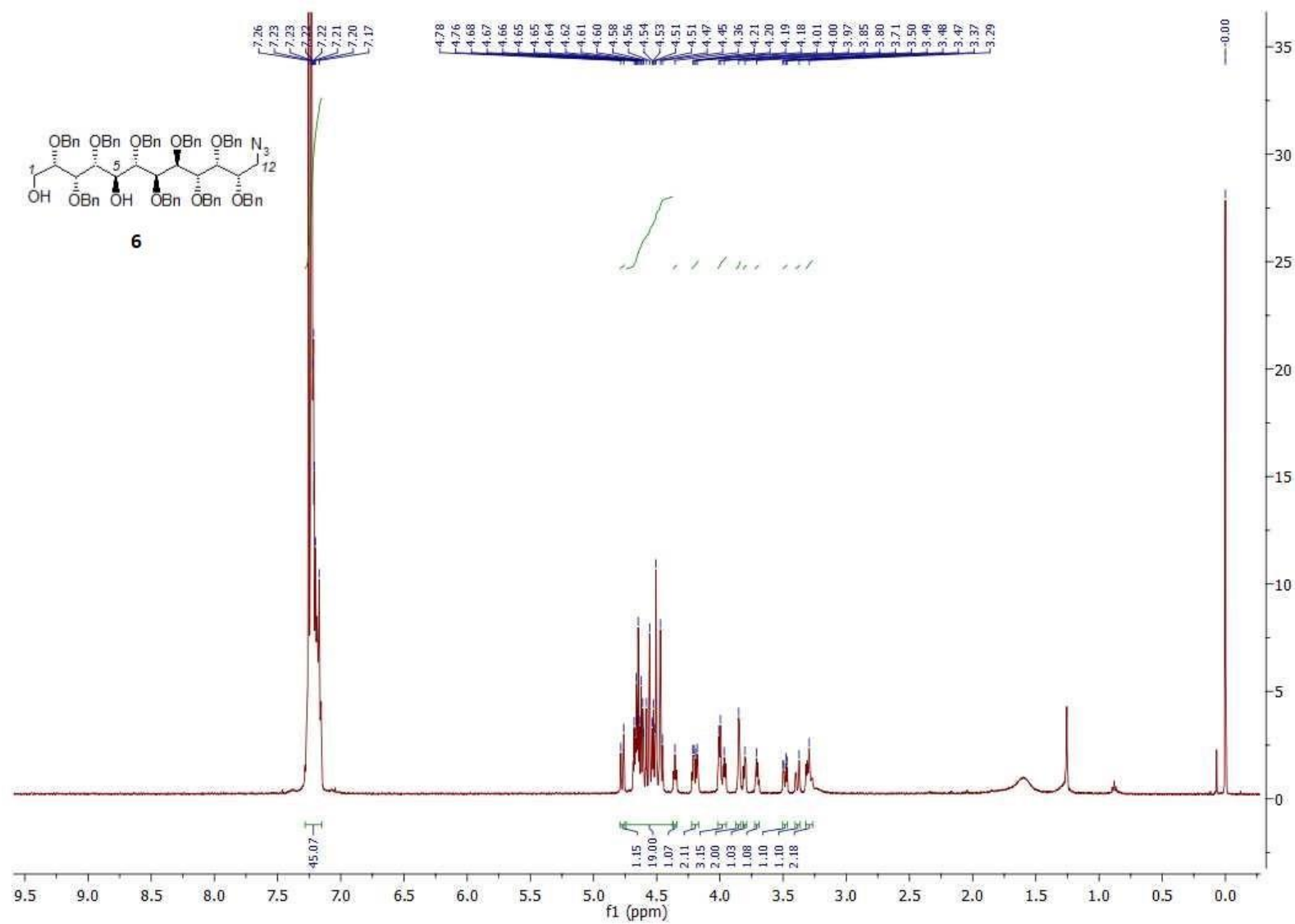


Figure S10: <sup>1</sup>H NMR spectrum of compound 6.

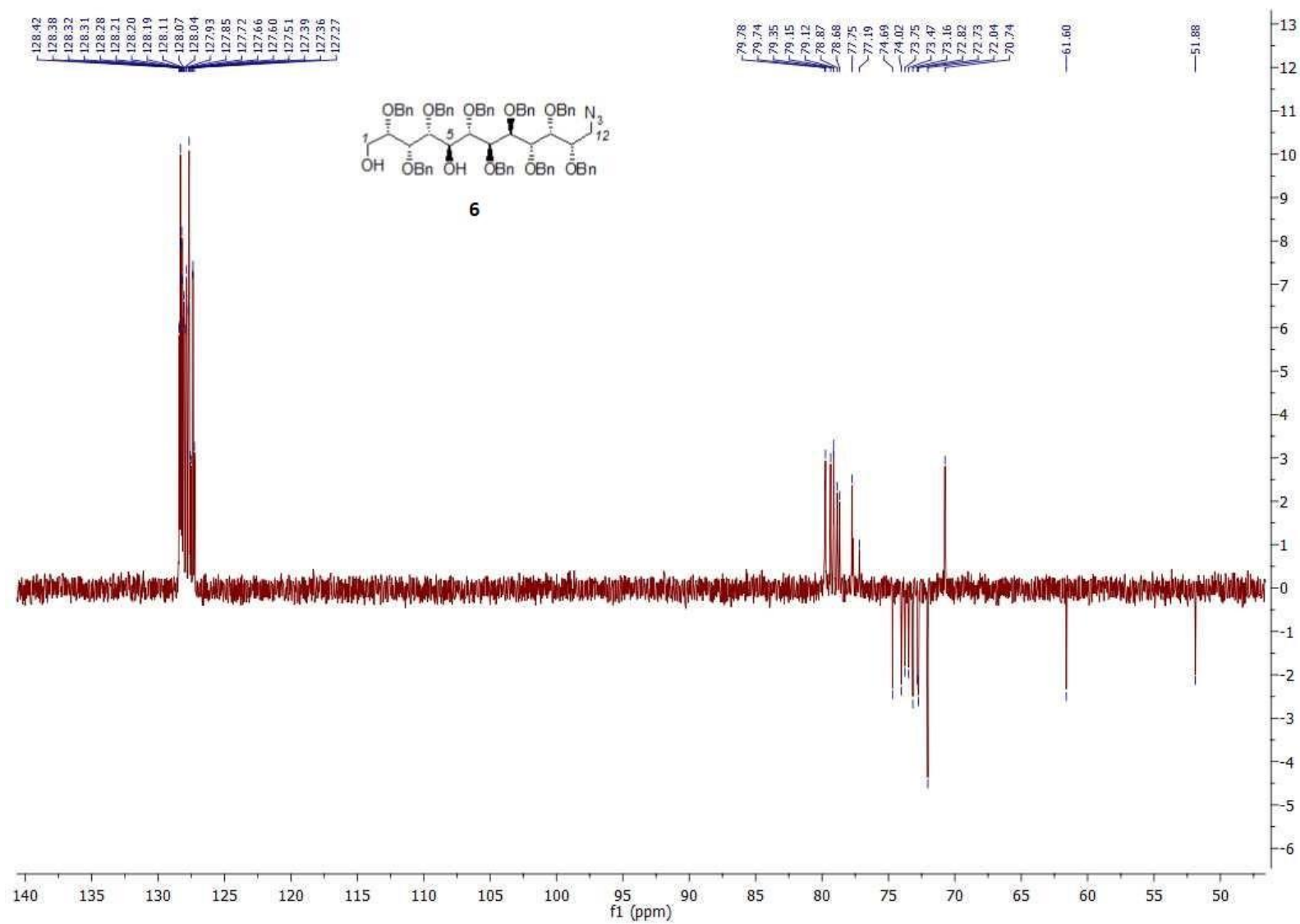
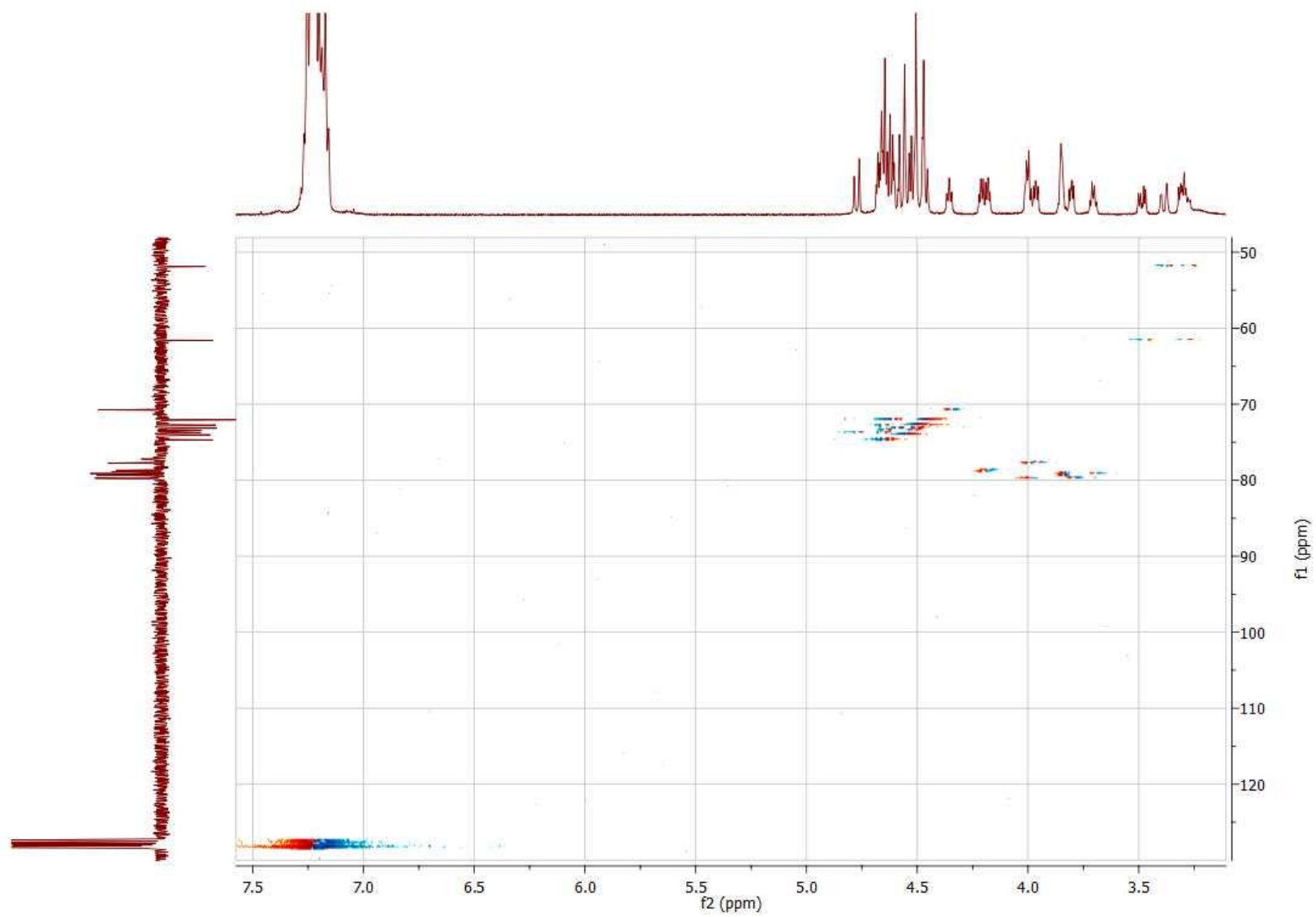
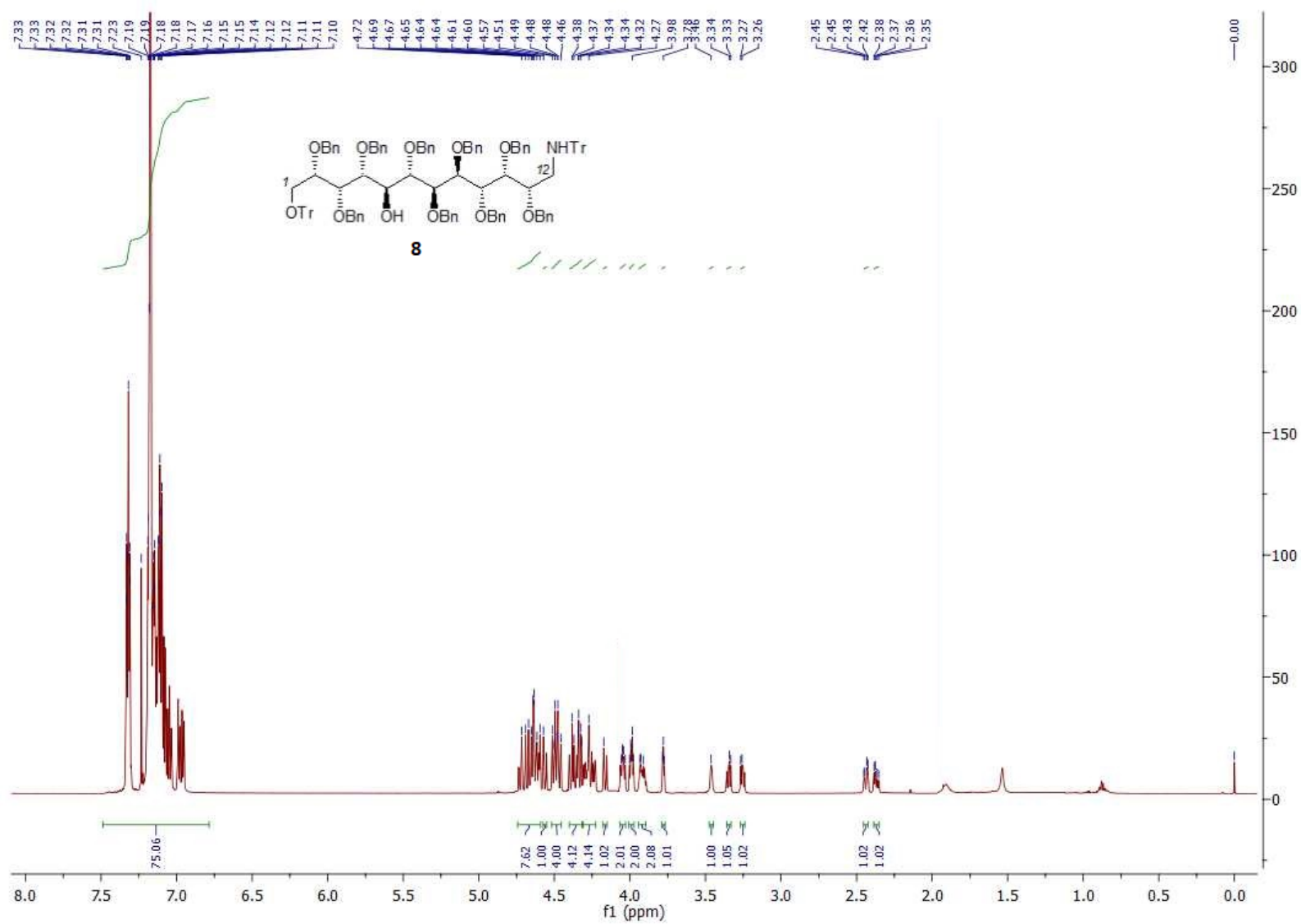


Figure S11: DEPT135 spectrum of compound 6.

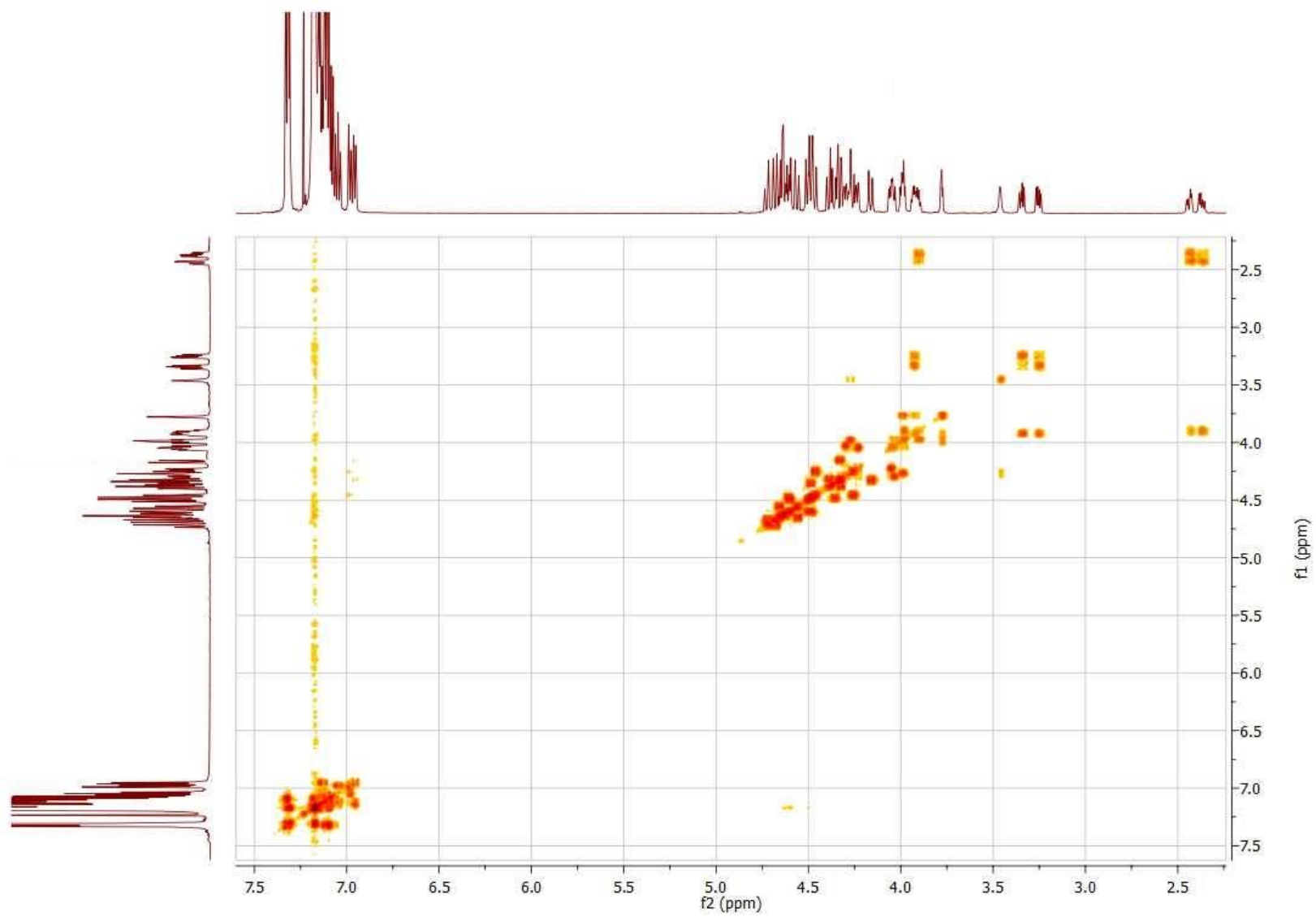


**Figure S12:** gHSQCAD spectrum of compound **6**.



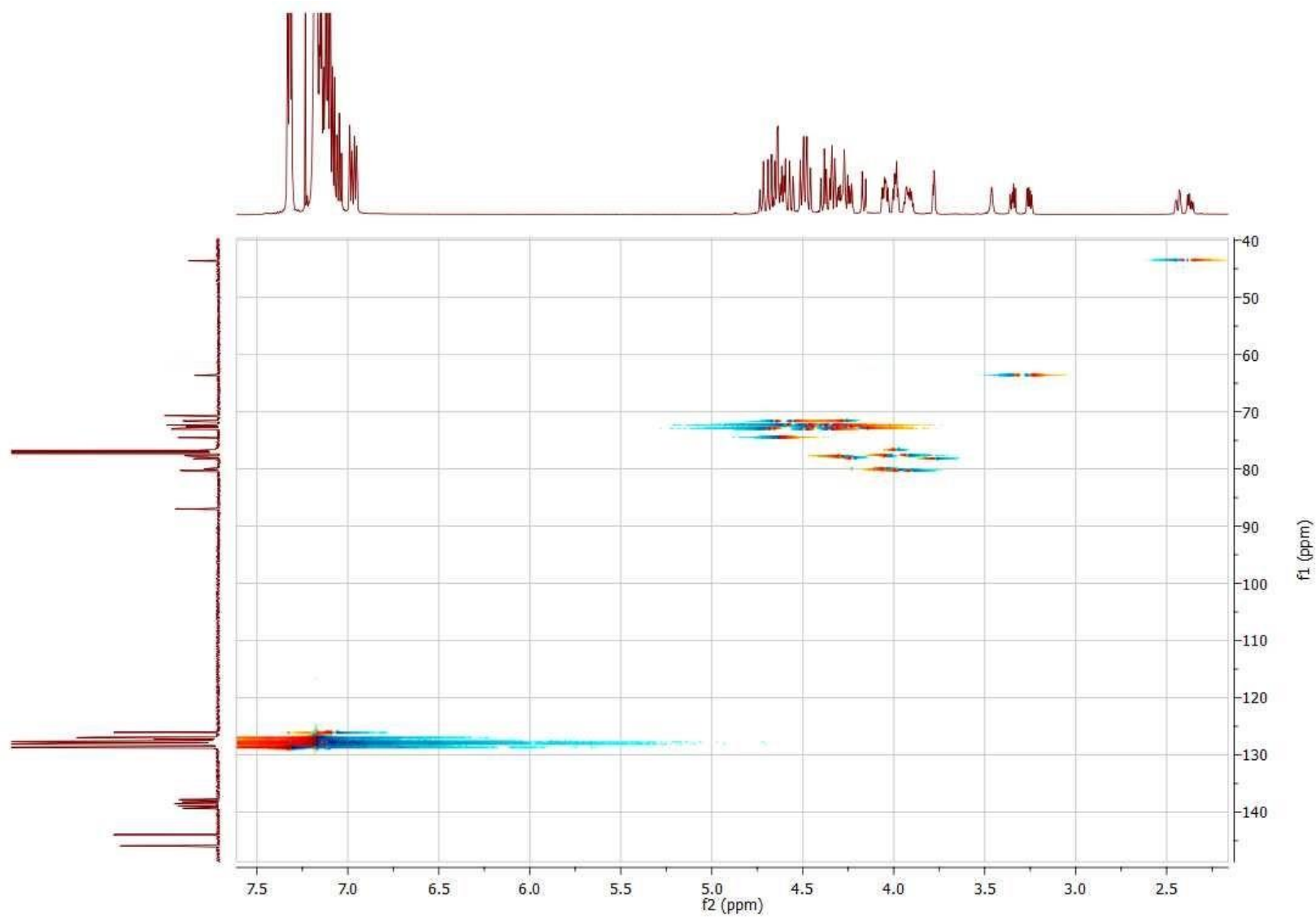
**Figure S13:**  $^1\text{H}$  NMR spectrum of compound **8**.



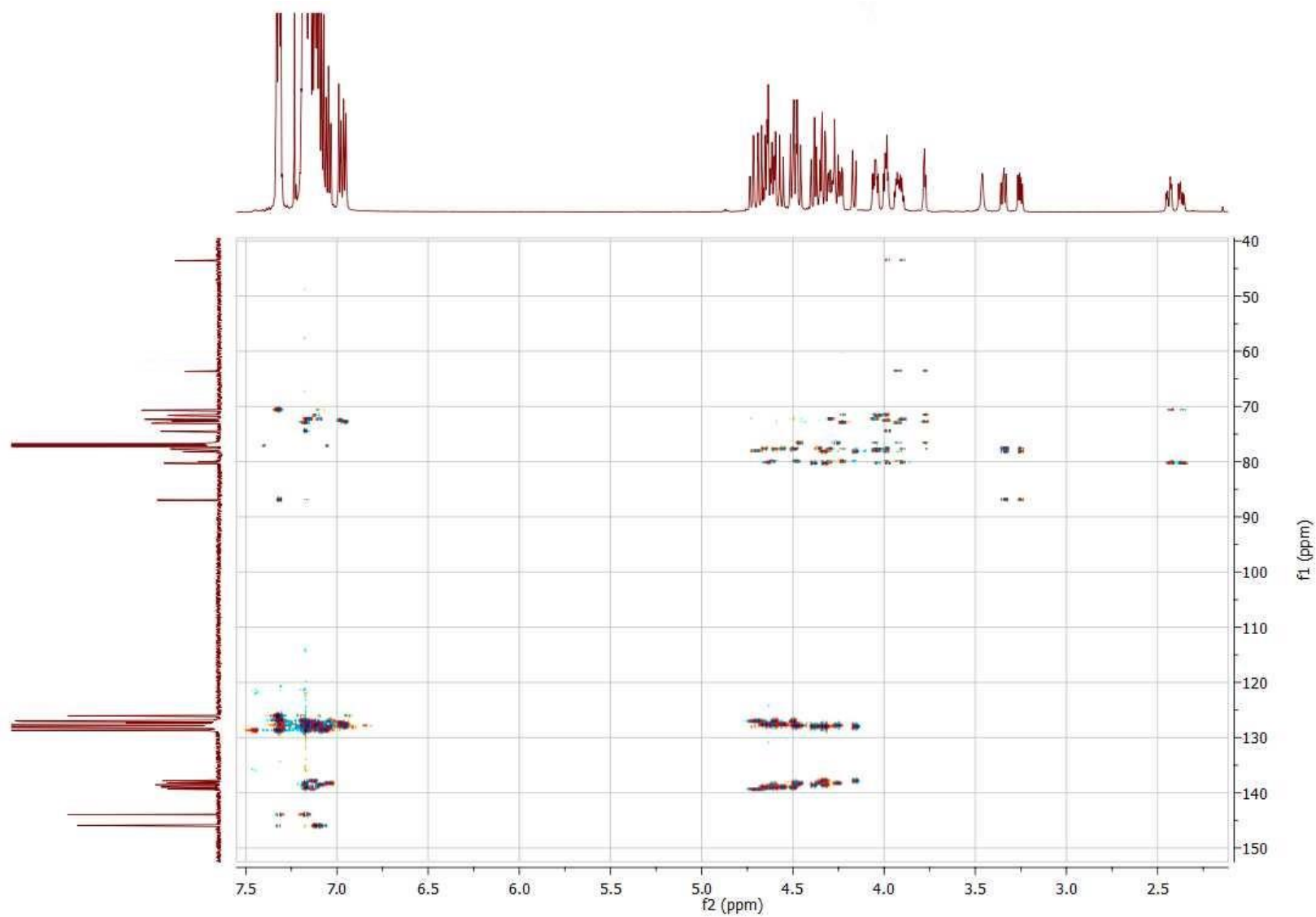


**Figure S15:** gCOSY spectrum of compound **8**.





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



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

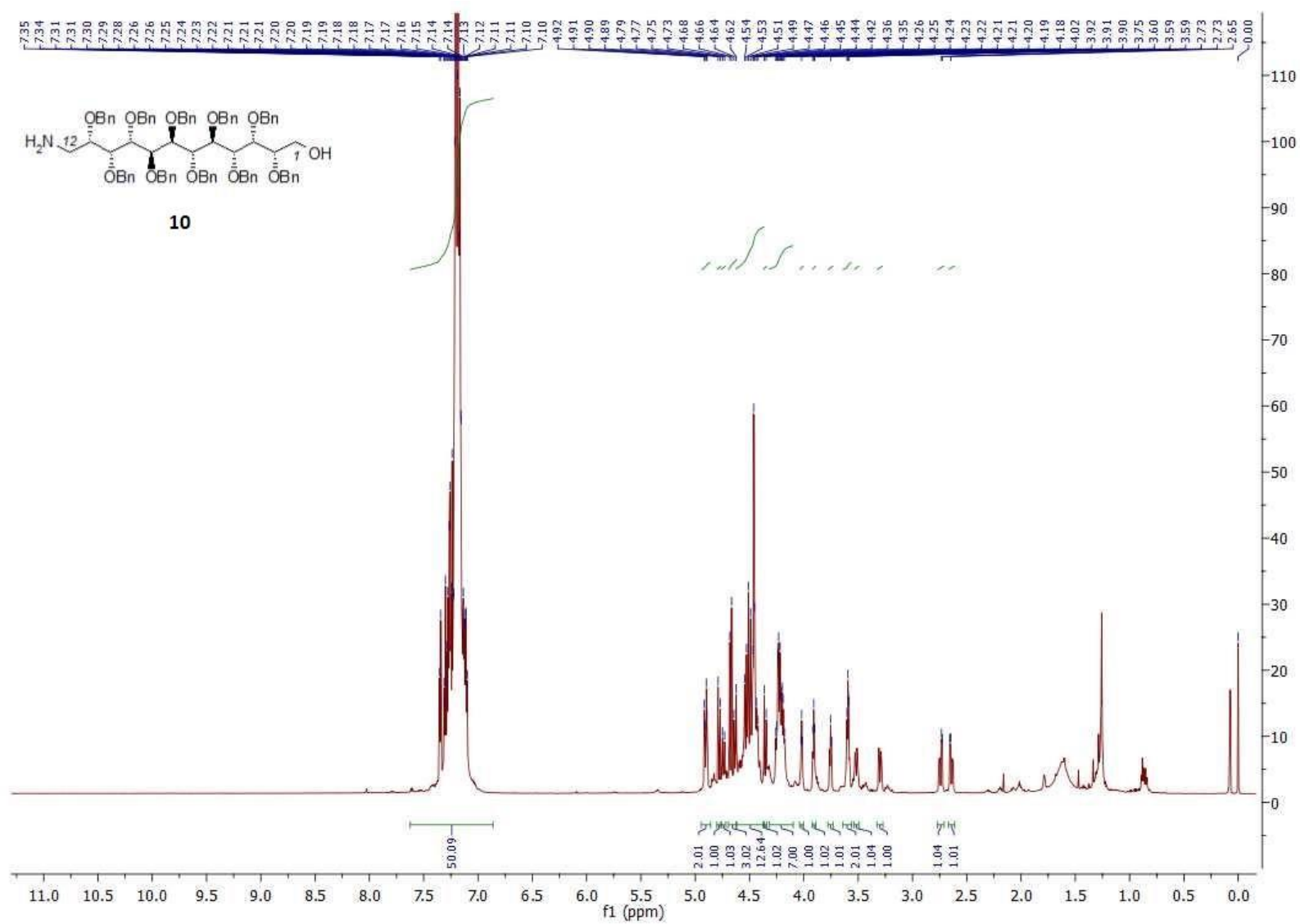


Figure S18:  $^1\text{H}$  NMR spectrum of compound **10**.

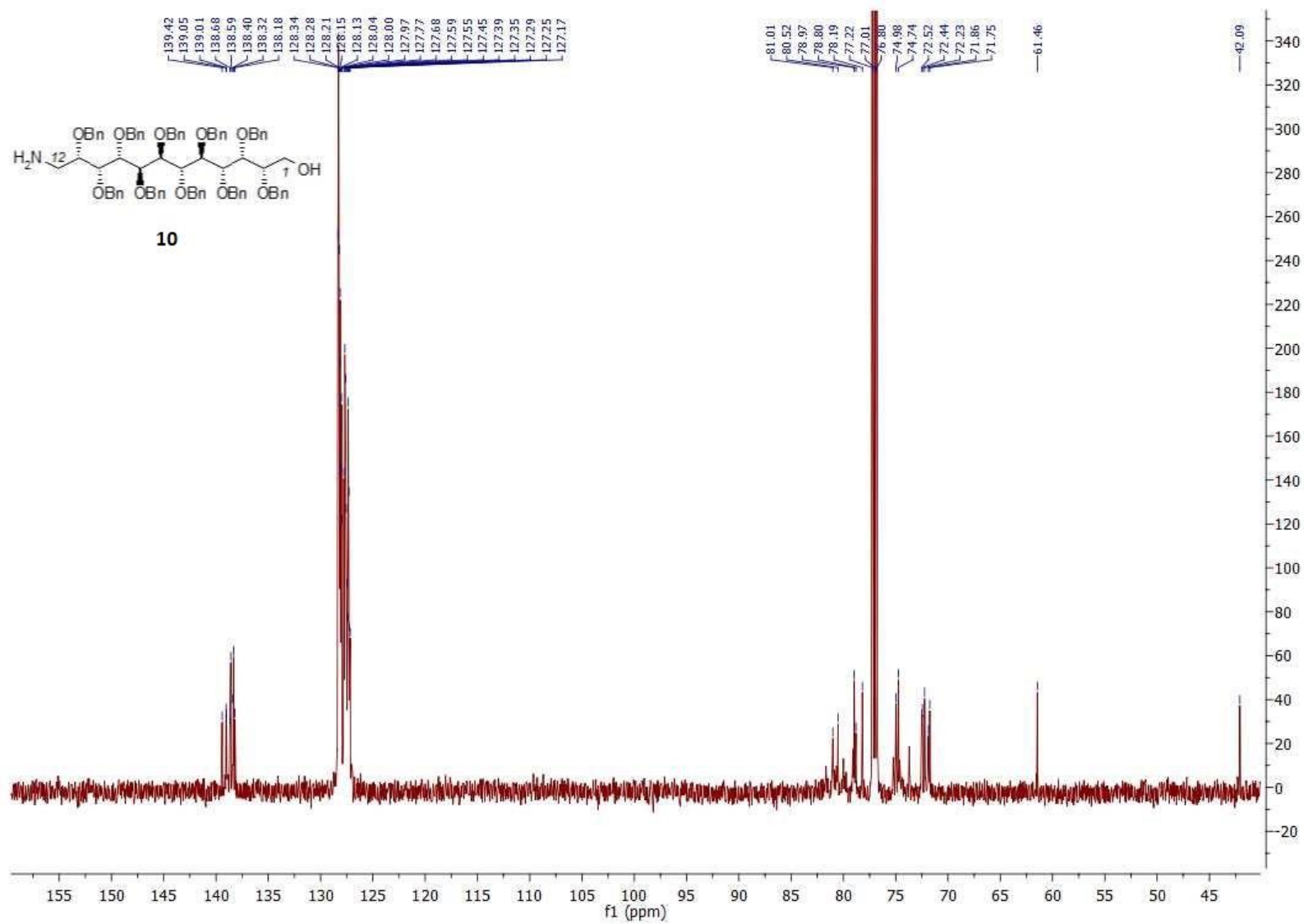


Figure S19:  $^{13}\text{C}$  NMR spectrum of compound **10**.

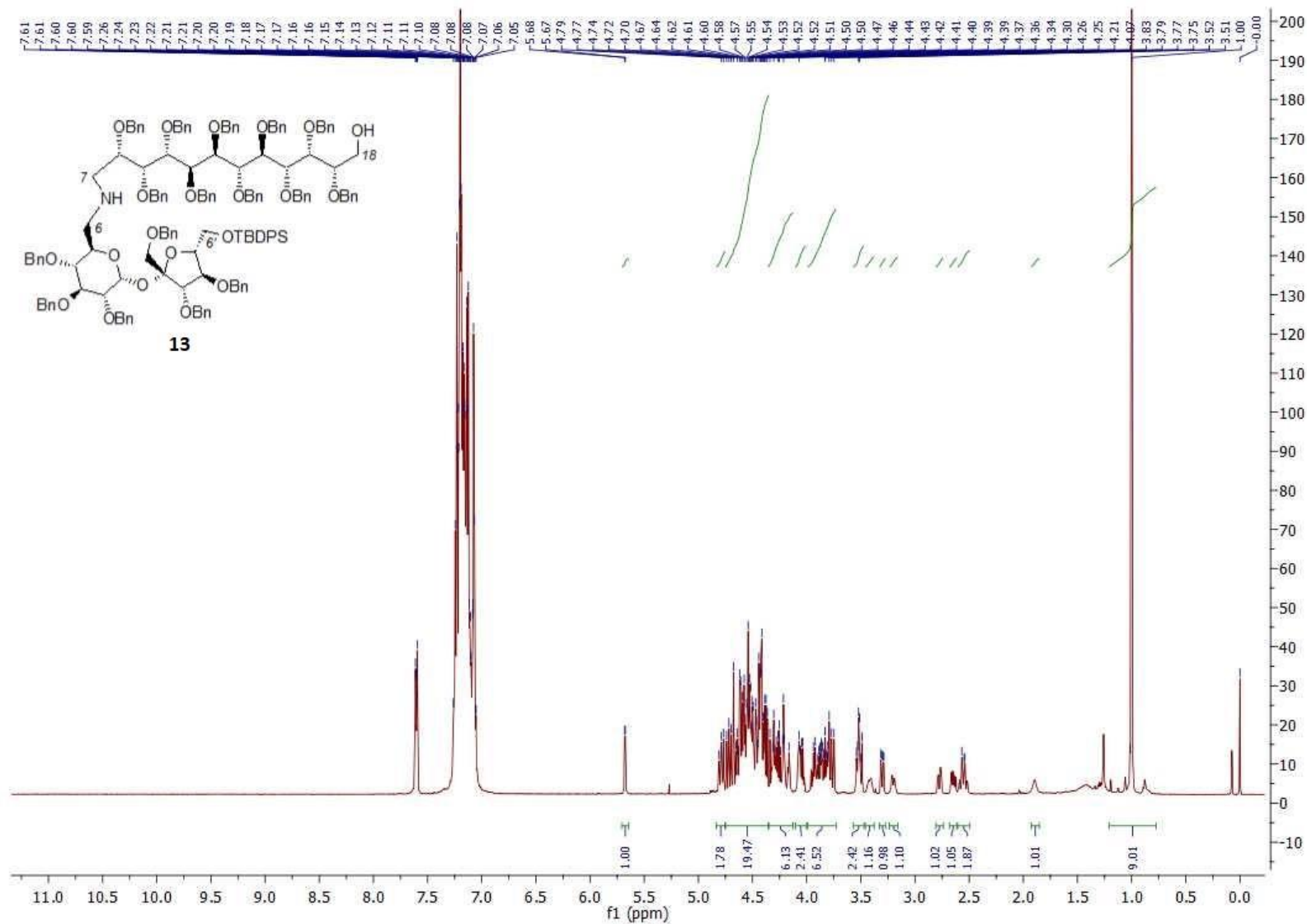


Figure S20:  $^1\text{H}$  NMR spectrum of compound **13**.

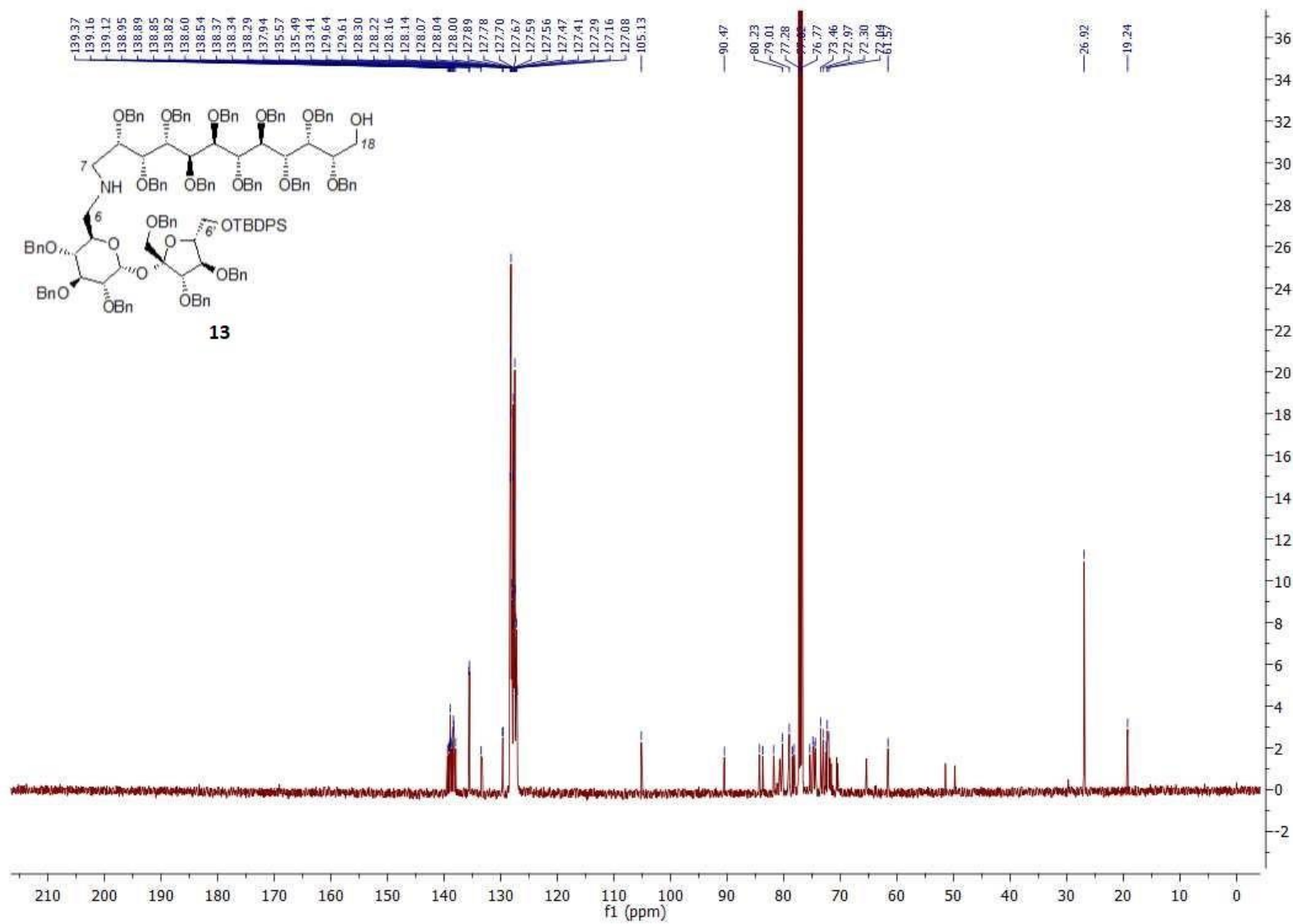
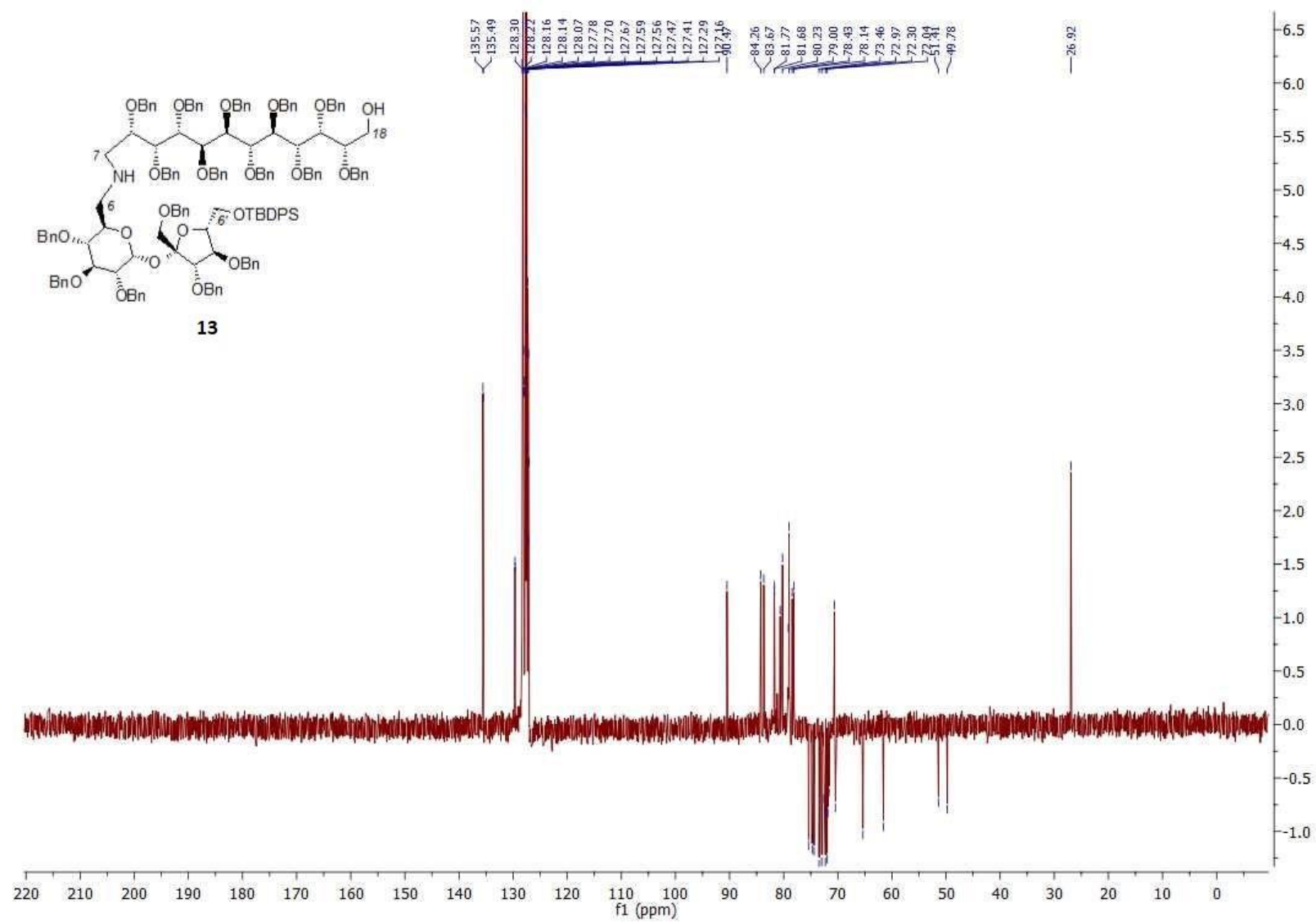


Figure S21:  $^{13}\text{C}$  NMR spectrum of compound **13**.



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

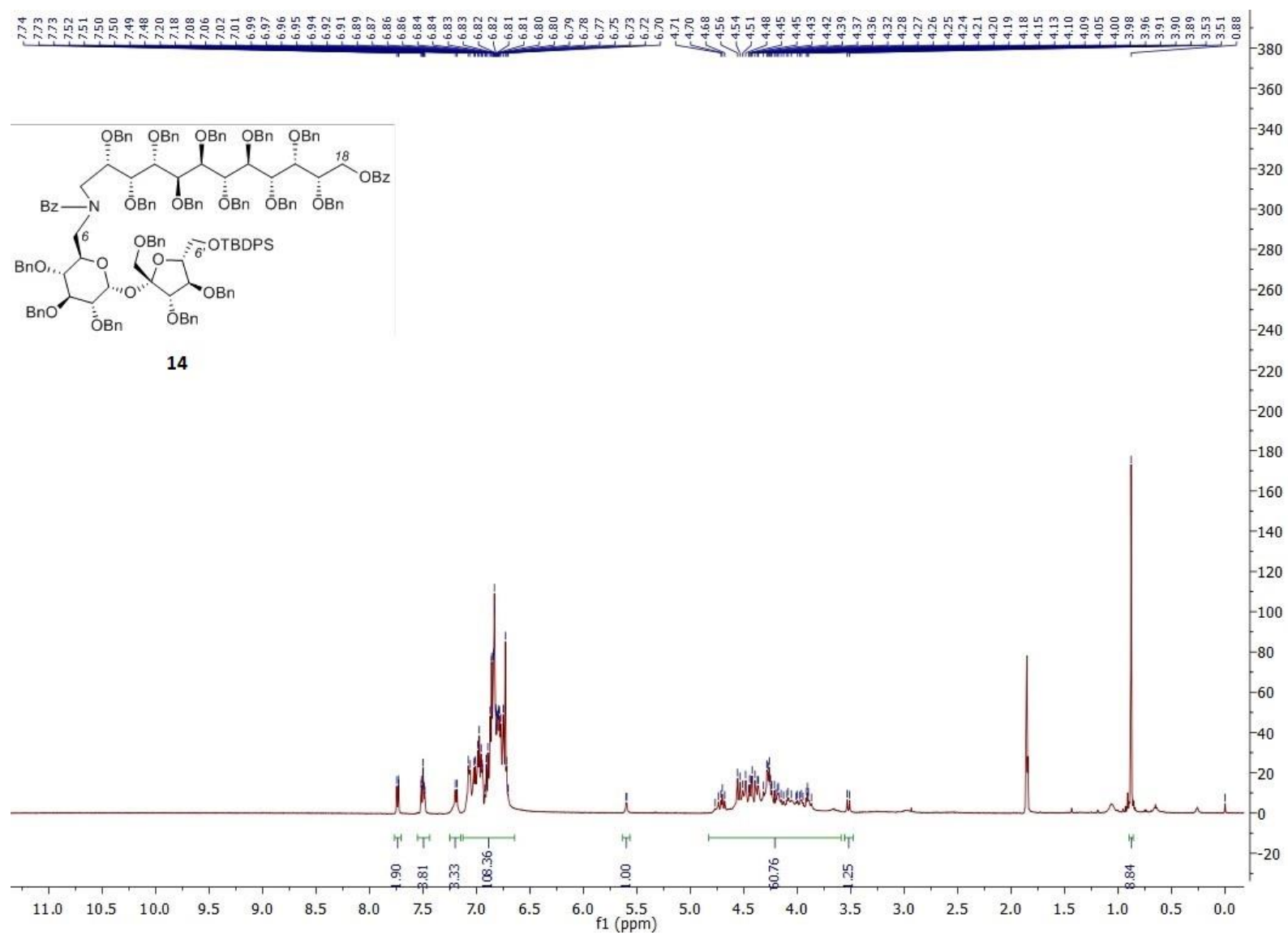


Figure S23:  $^1\text{H}$  NMR spectrum of compound **14**.



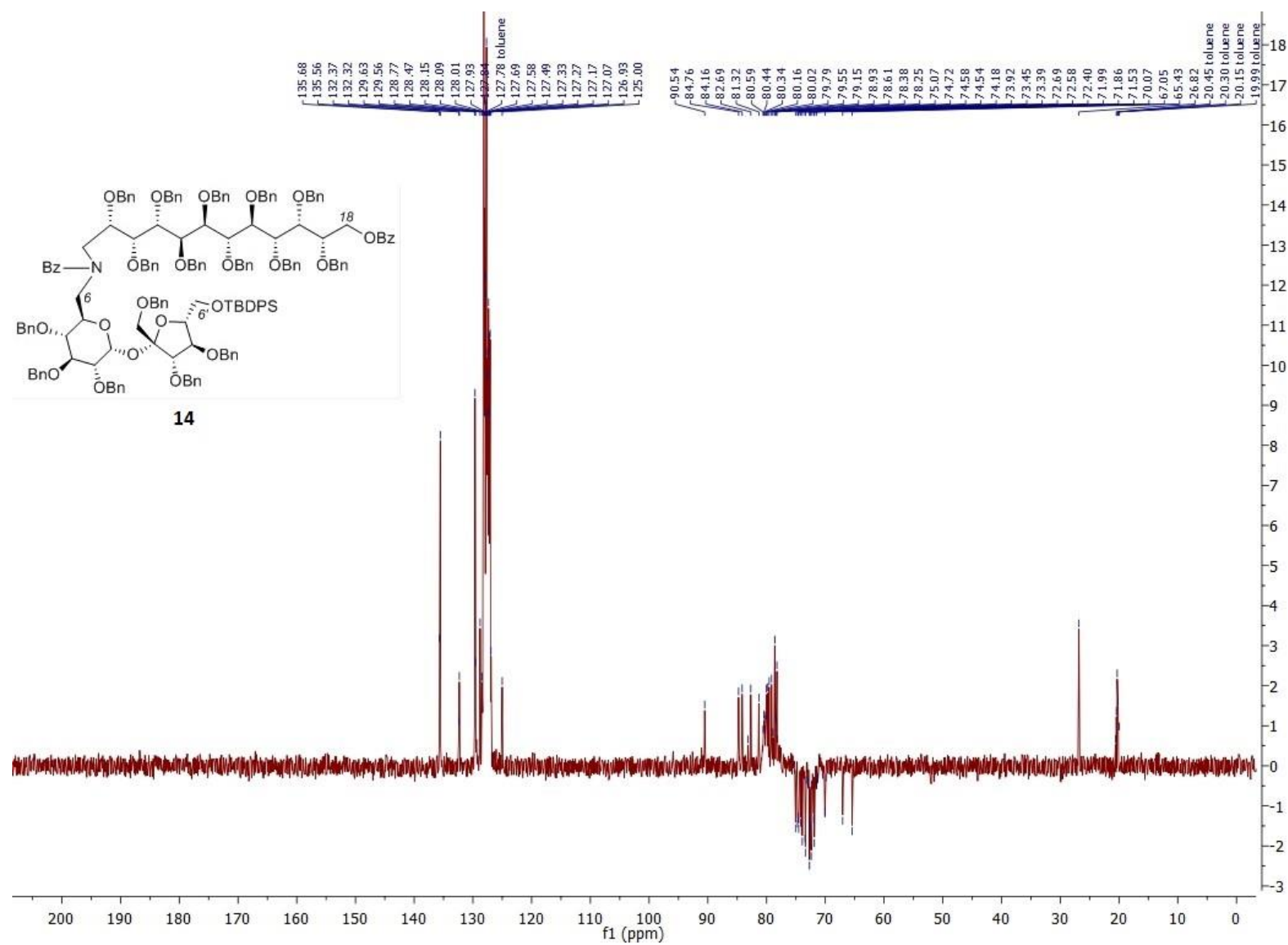
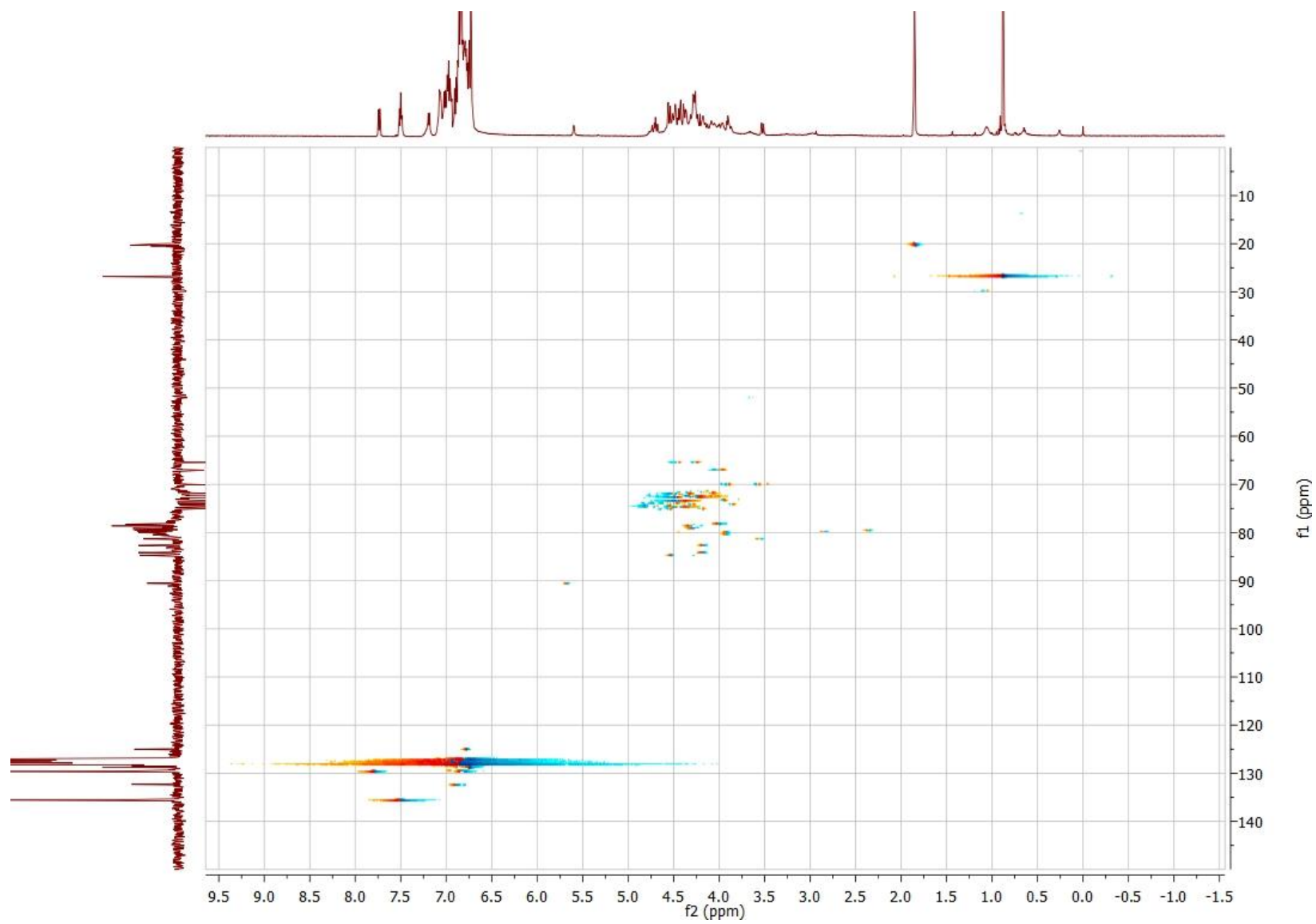


Figure S24: DEPT135 spectrum of compound **14**.



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

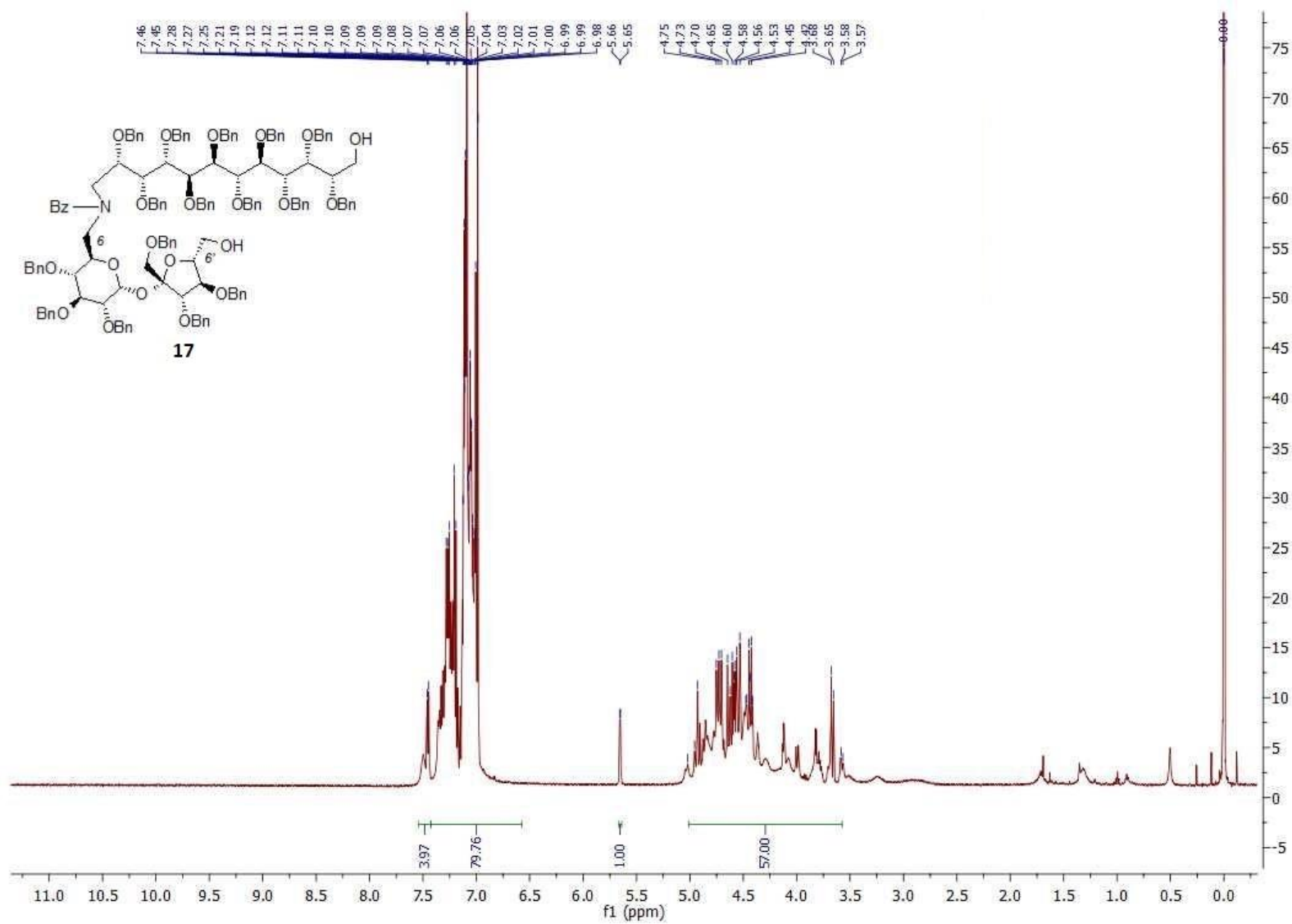


Figure S26:  $^1\text{H}$  NMR spectrum of compound **17**.

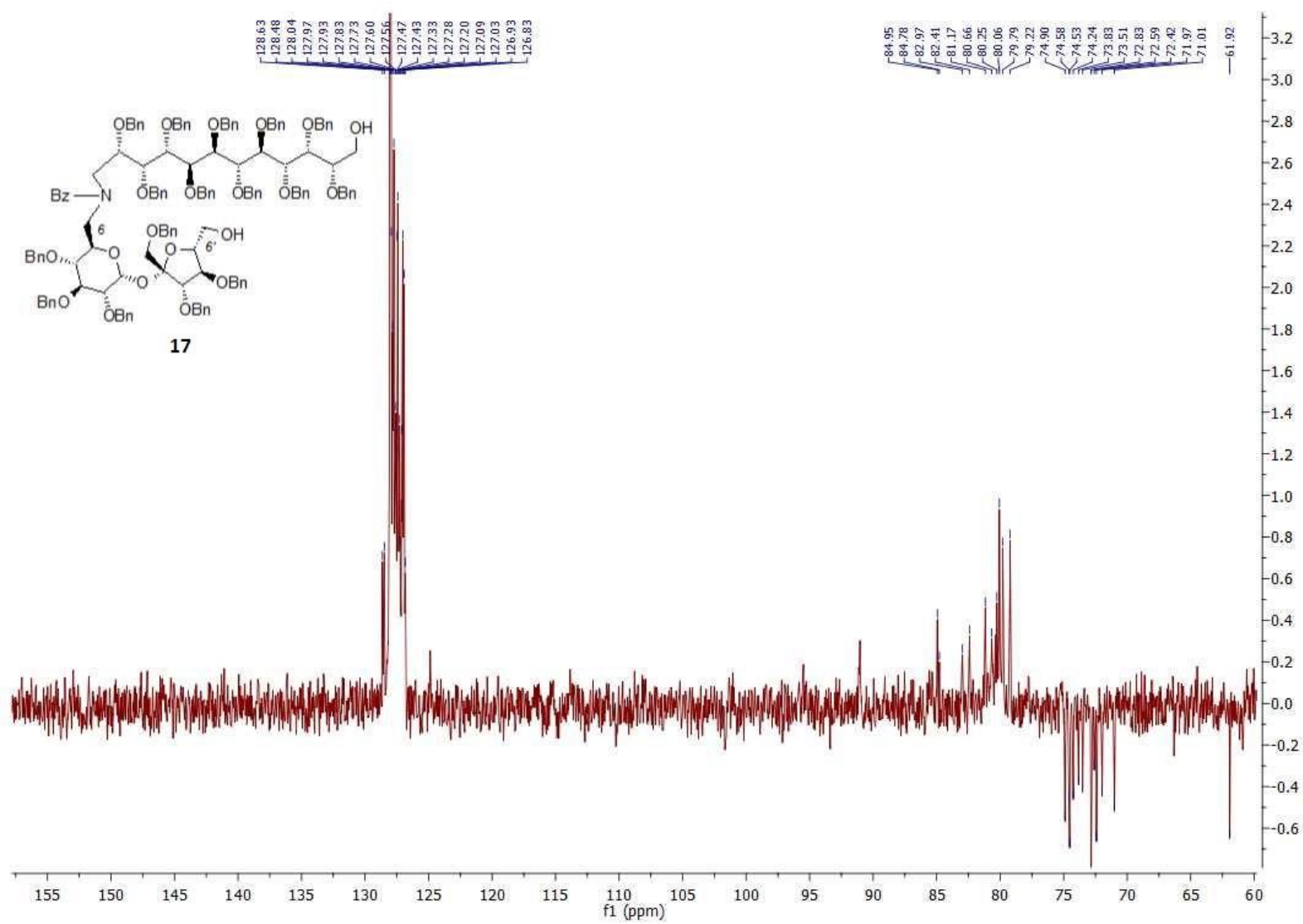


Figure S27: DEPT135 spectrum of compound **17**.