

Electronic Supplementary Information

Synthesis and characterization of simple *trans*-AB-porphyrins for dye-sensitized solar cells

Nuo-nuo Zhang,^a Ya-qing Feng,^a Yuan-chao Li,^a Xiao Peng,^a Cheng-zhi Gu,^b Xiao-dong Xue,^a Jia-ying Yan,^a Qing-long Chen,^a Xiang-gao Li,^a and Bao Zhang,*^a

^a School of Chemical Engineering and Technology, Tianjin University, Tianjin 300072, P. R. China

^b School of Chemistry and Chemical Engineering, Shihezi University, Shihezi 832000, P. R. China

E-mail: baozhang@tju.edu.cn

Contents

Additional Figures	Error! Bookmark not defined.
--------------------------	------------------------------

Additional Figures

Figure S1. The HOMO and LUMO distribution of dyes and dyes absorbed on the TiO₂

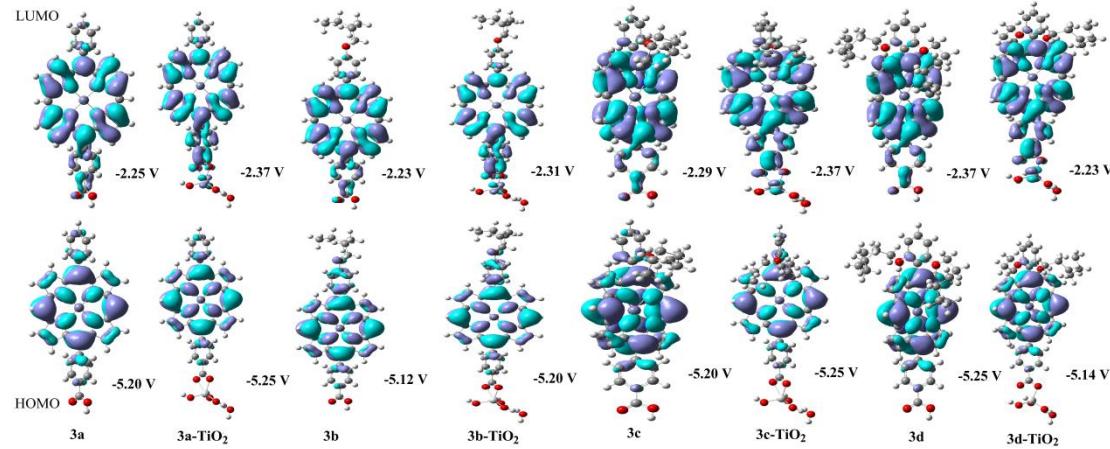


Figure S2. ¹H NMR spectrum of 1a

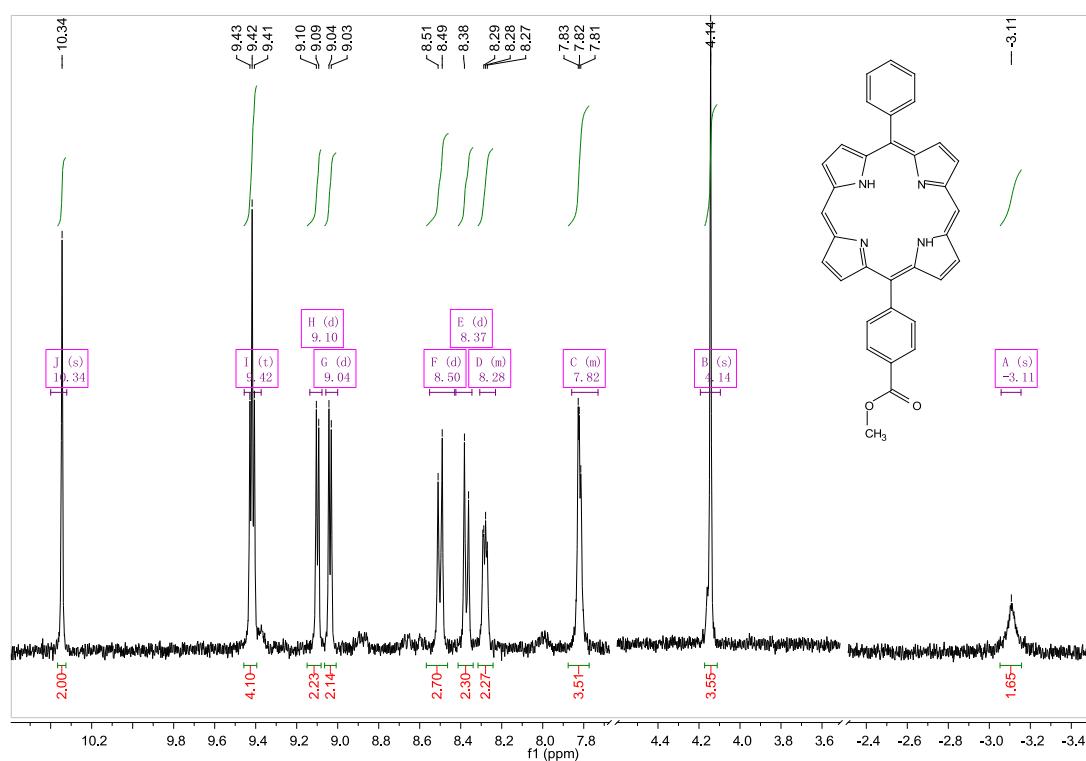


Figure S3. ¹H NMR spectrum of 2a

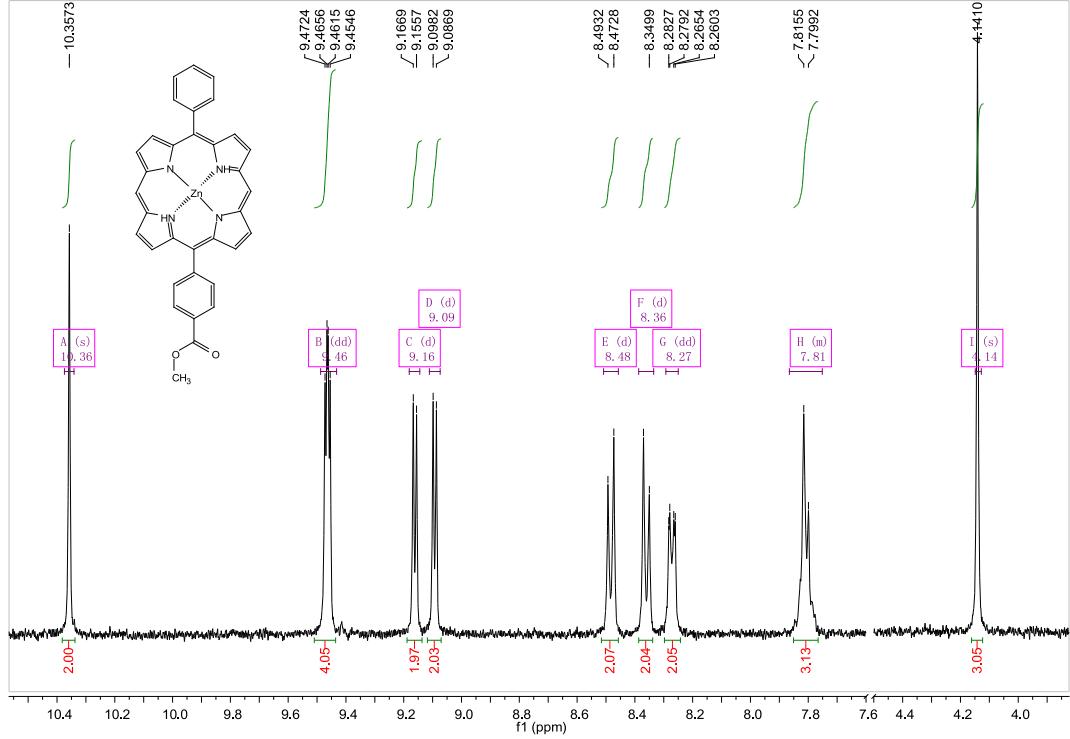


Figure S4. ¹H NMR spectrum of 3a

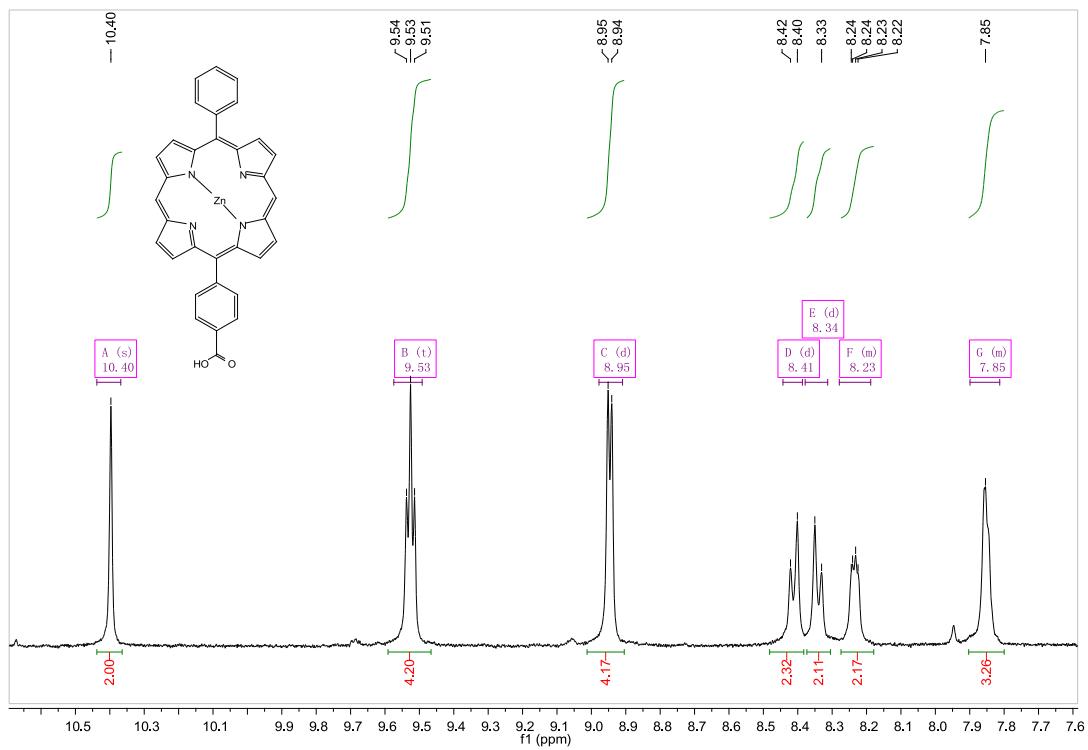


Figure S5. ¹H NMR spectrum of 1b

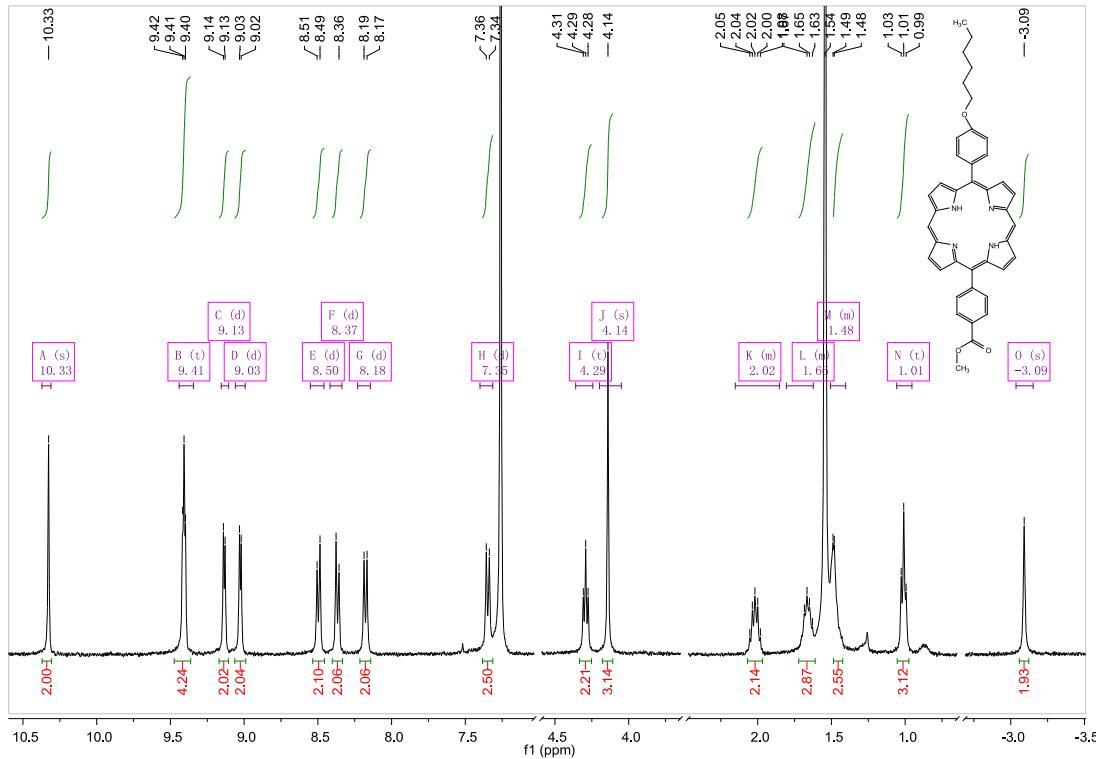


Figure S6. ^1H NMR spectrum of 2b

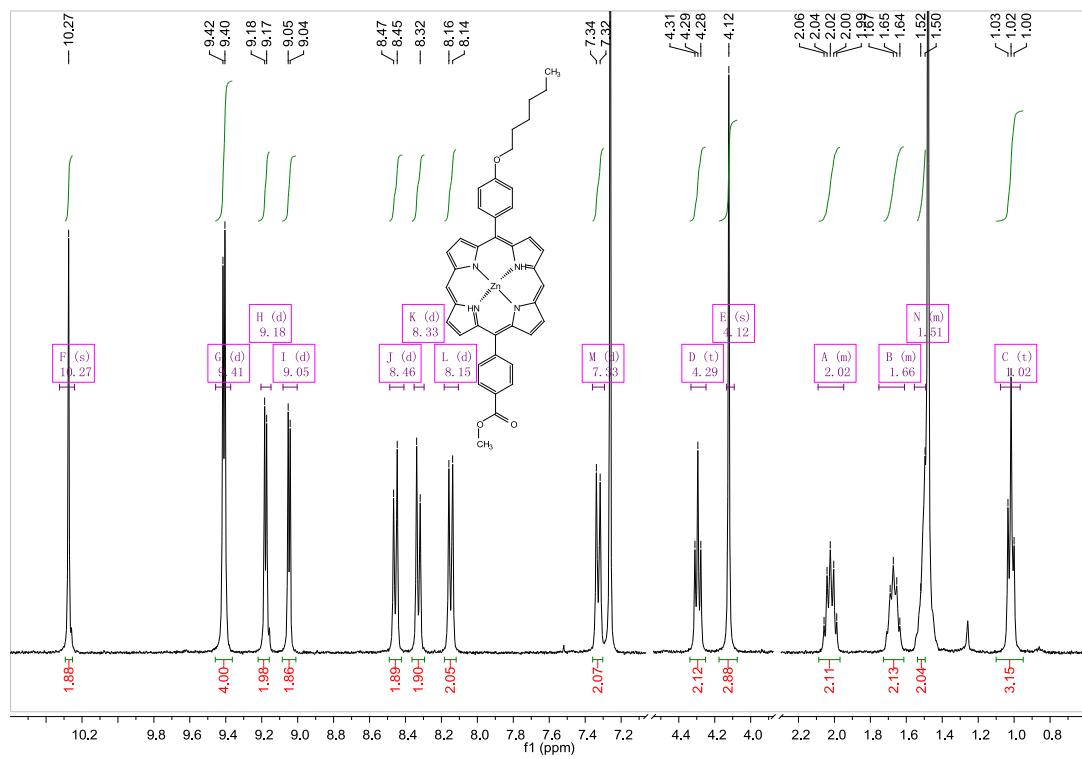


Figure S7. ^1H NMR spectrum of 3b

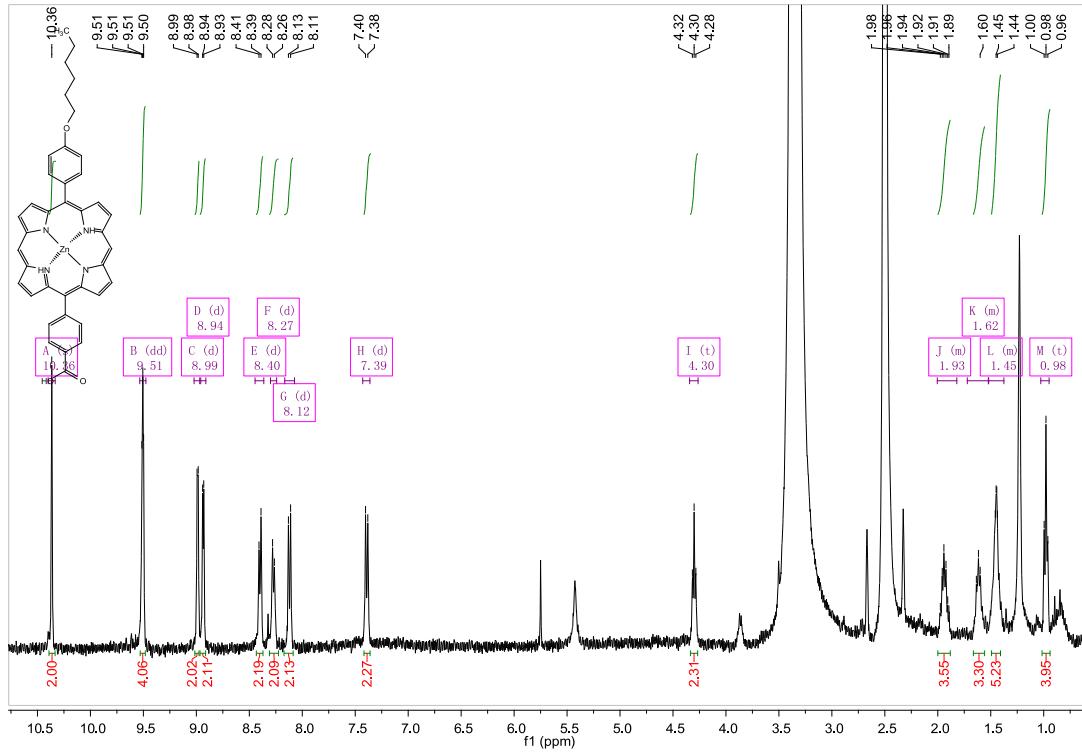


Figure S8. ^1H NMR spectrum of **1c**

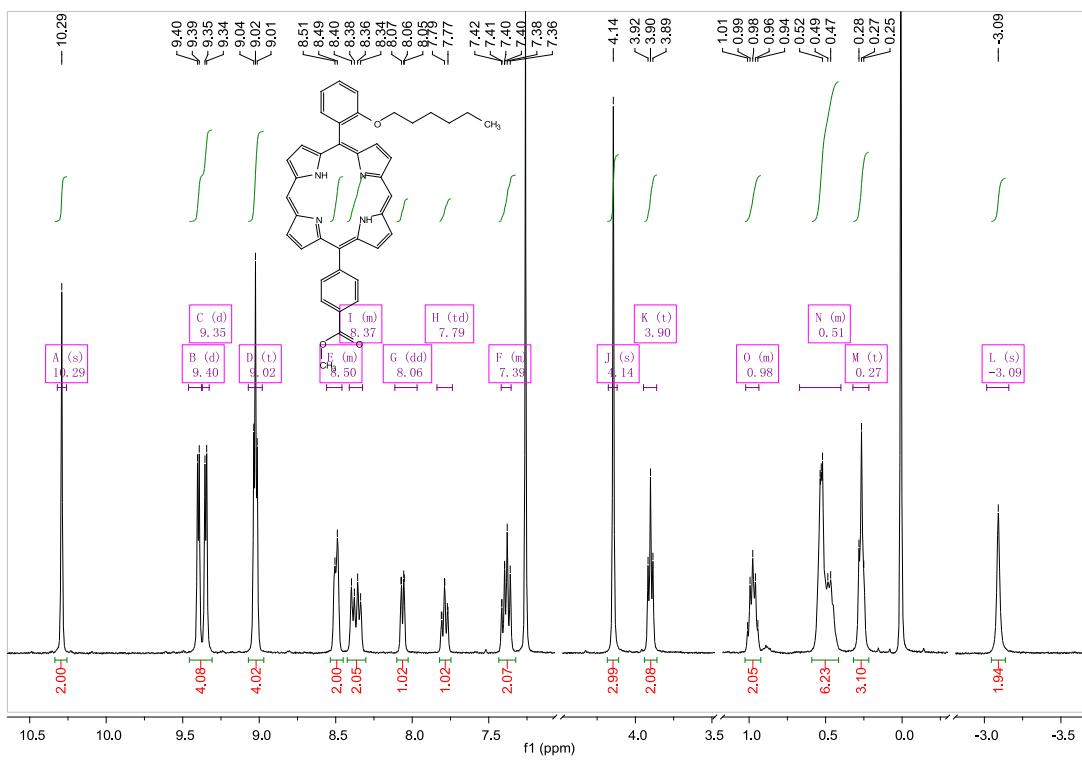


Figure S9. ^1H NMR spectrum of **2c**

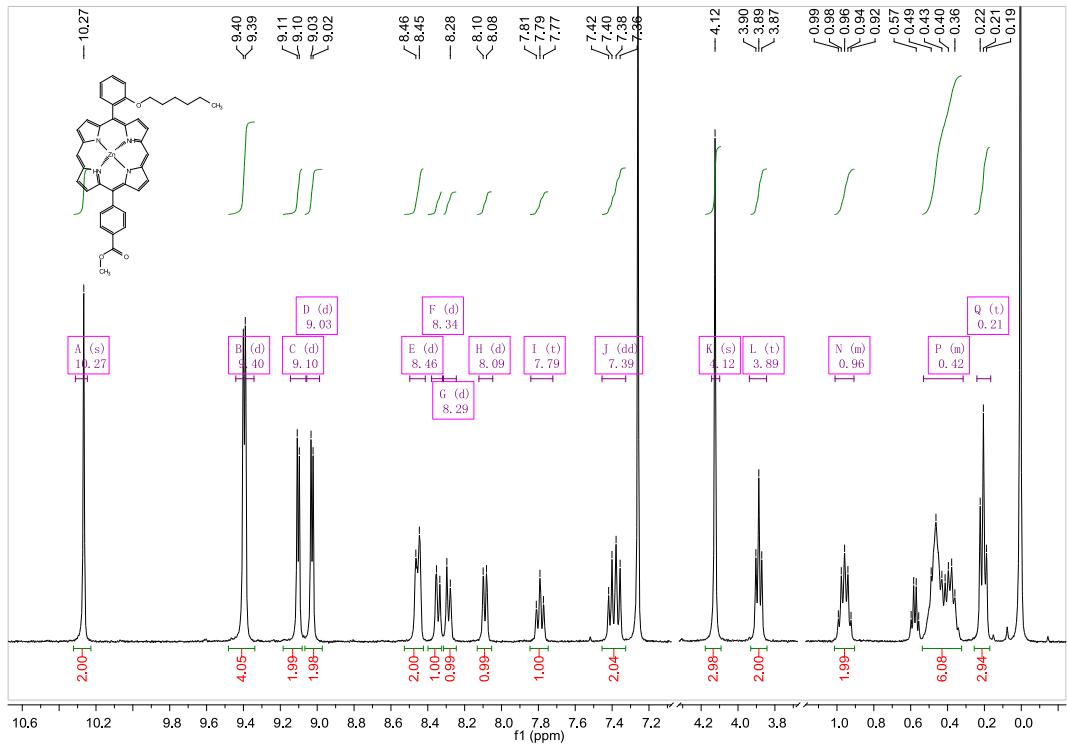


Figure S10. ^1H NMR spectrum of **3c**

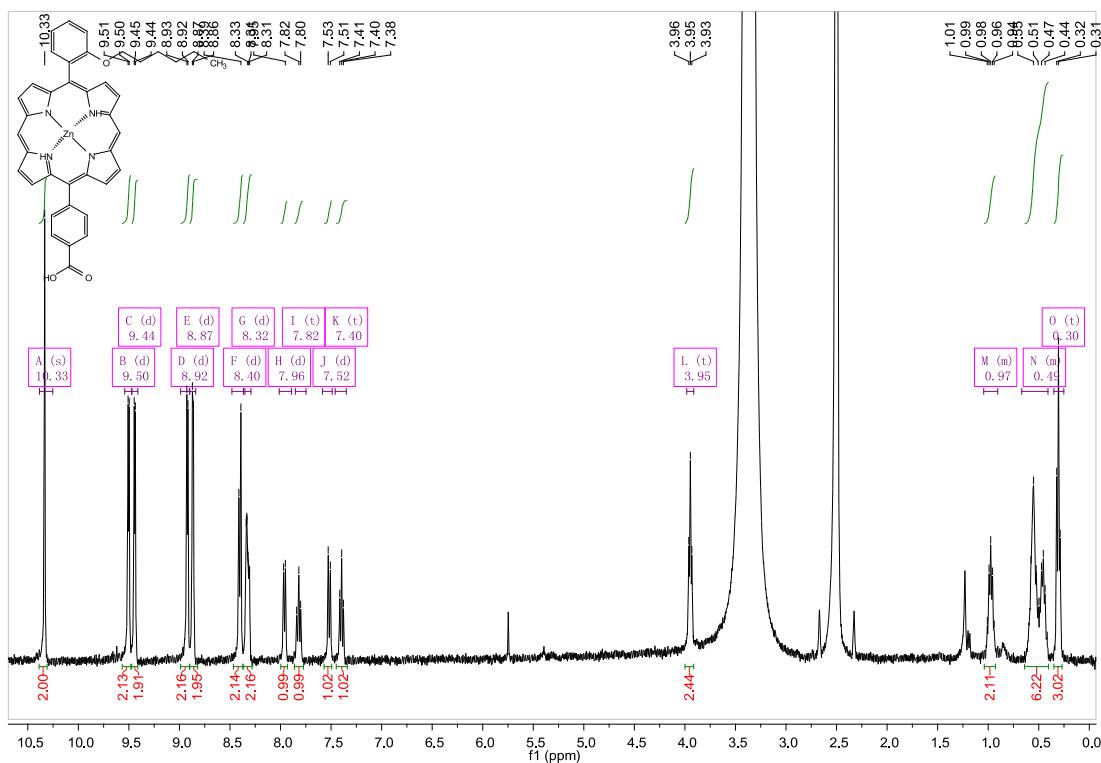


Figure S11. ^1H NMR spectrum of **1d**

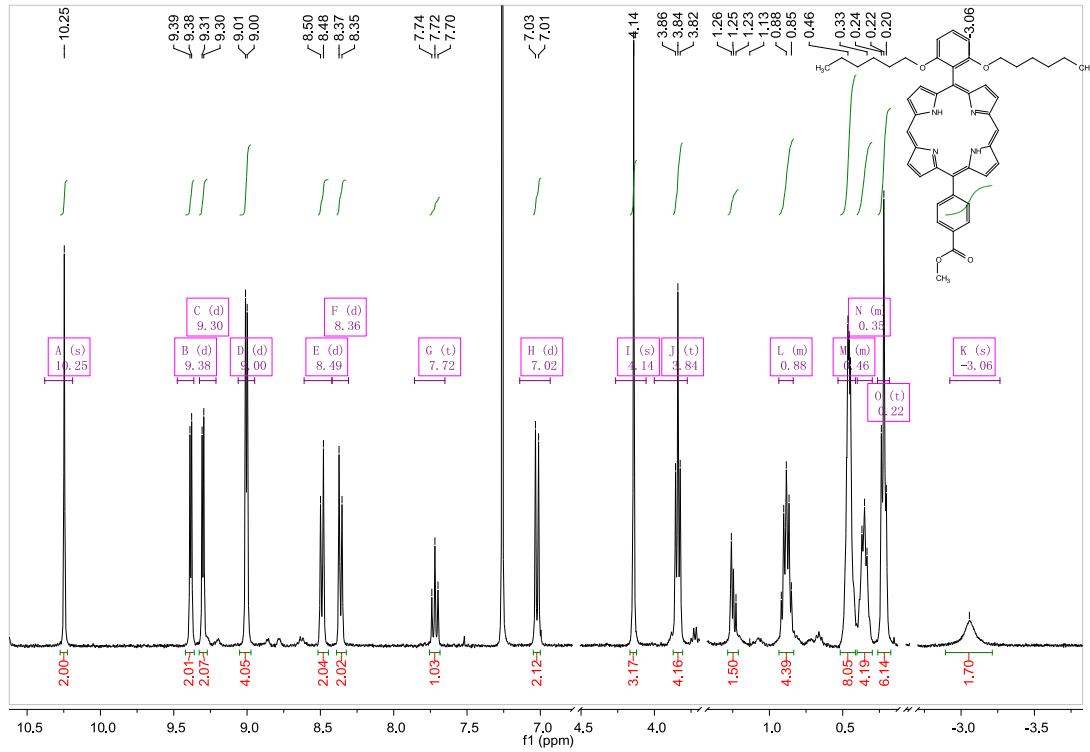


Figure S12. ¹H NMR spectrum of 2d

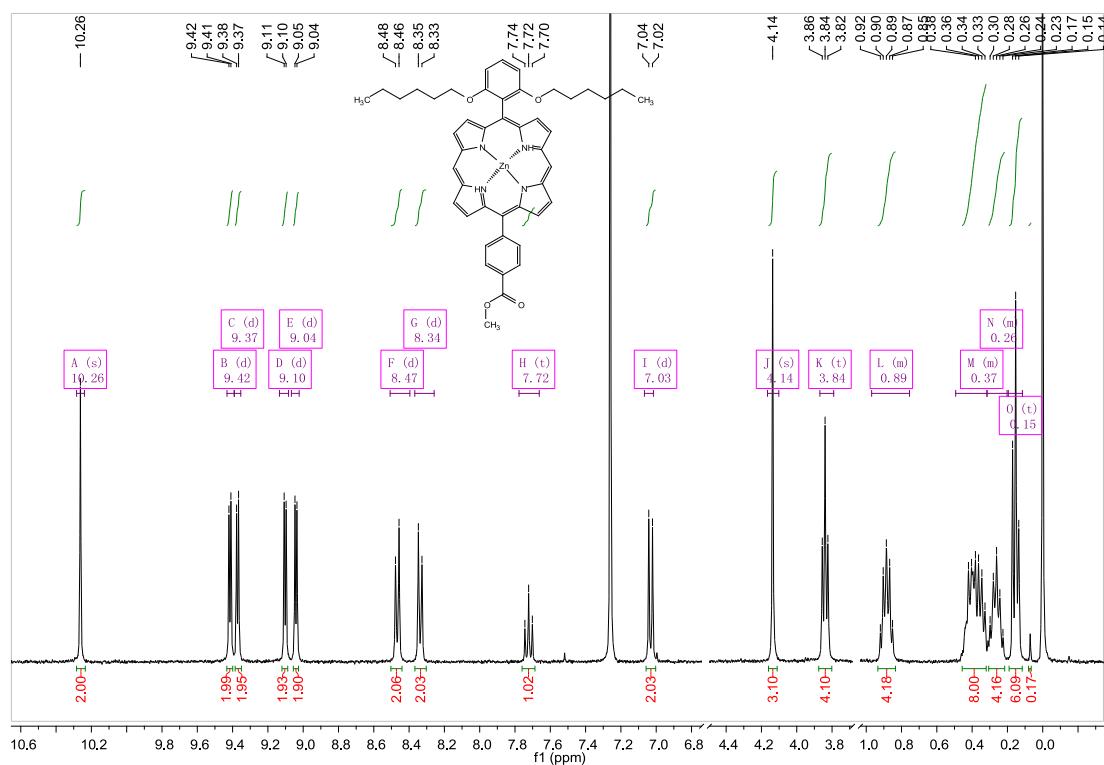


Figure S13. ¹H NMR spectrum of 3d

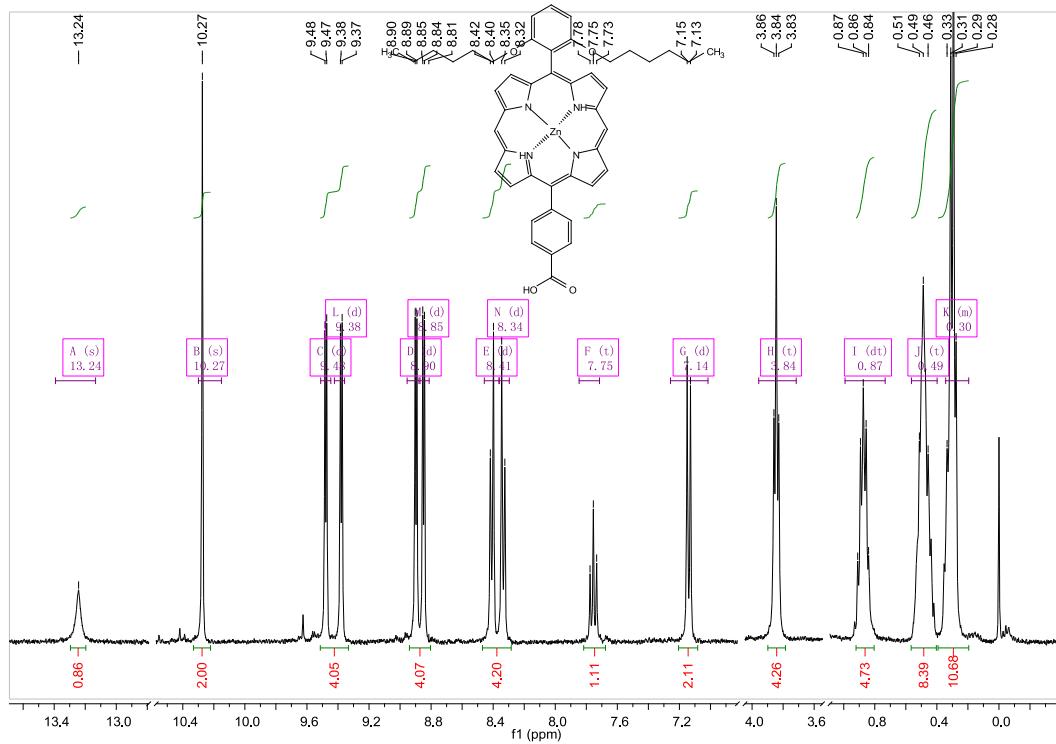


Figure S14. MALDI-TOF MS of 1a

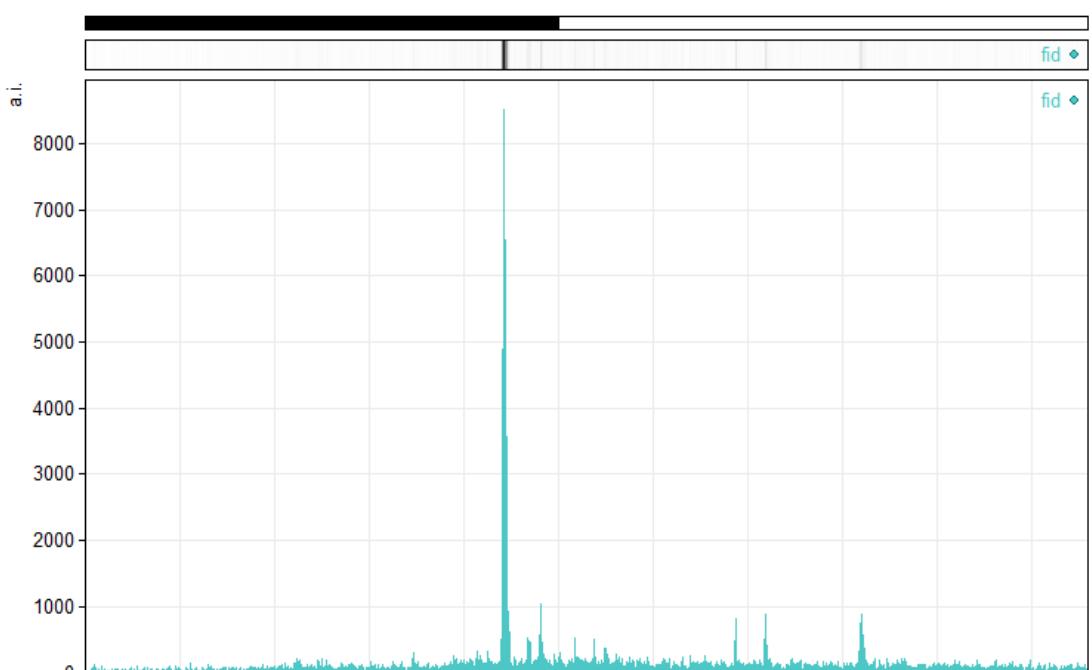


Figure S15. MALDI-TOF MS of 2a

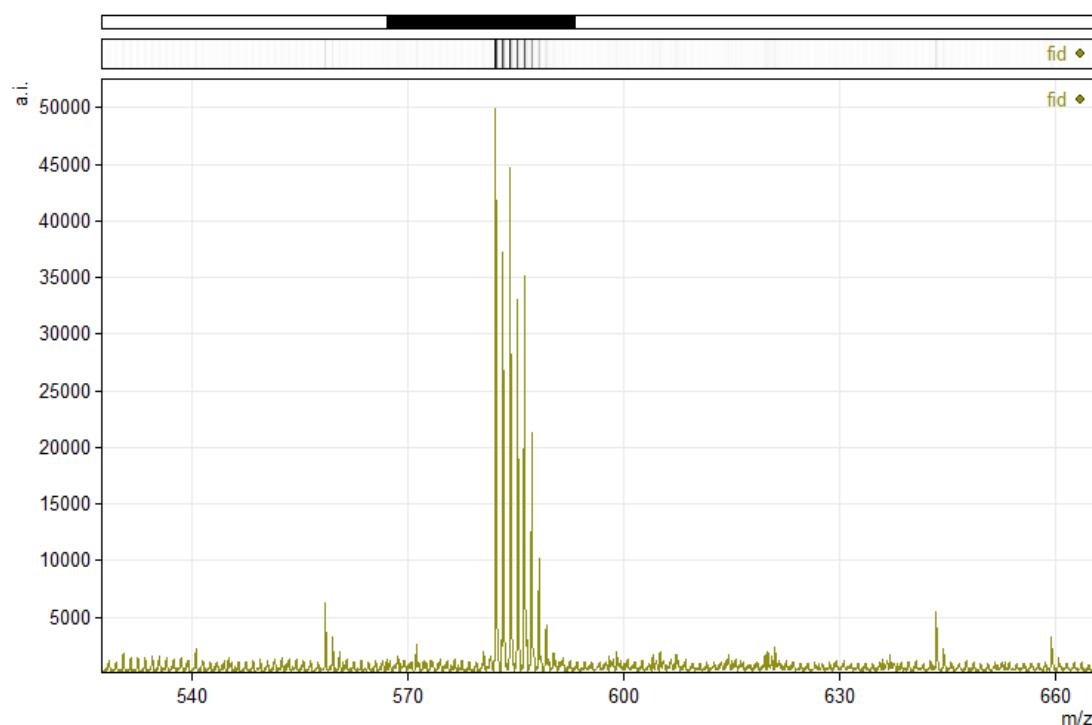


Figure S16. MALDI-TOF MS of 3a

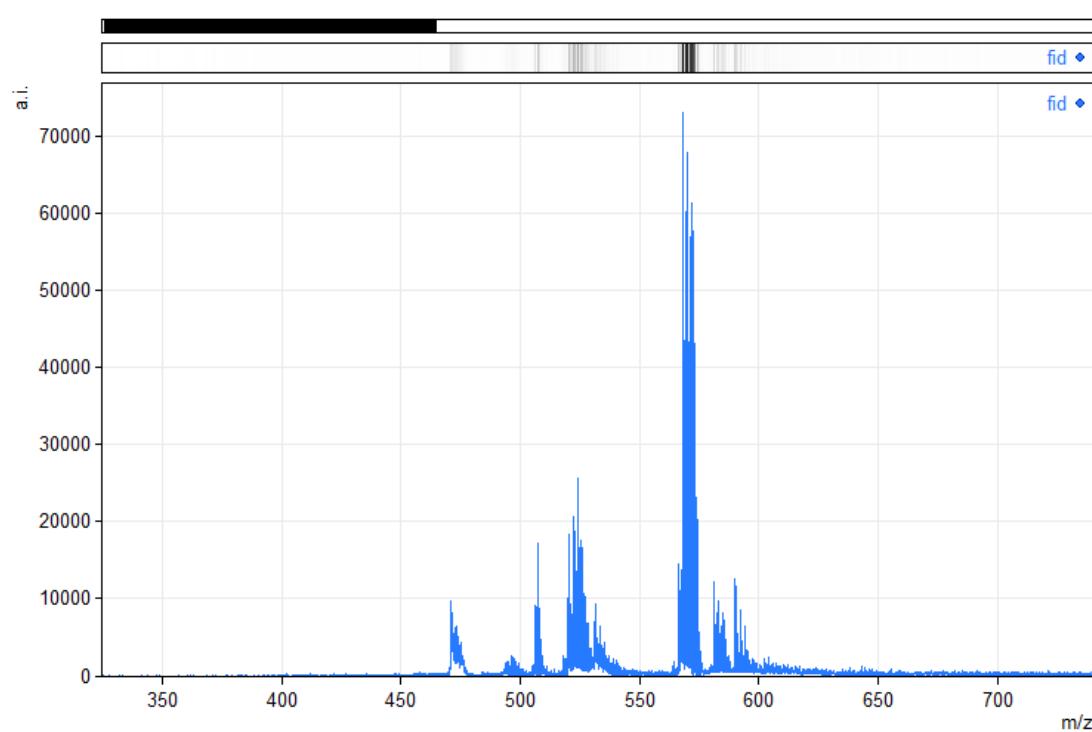


Figure S17. MALDI-TOF MS of 1b

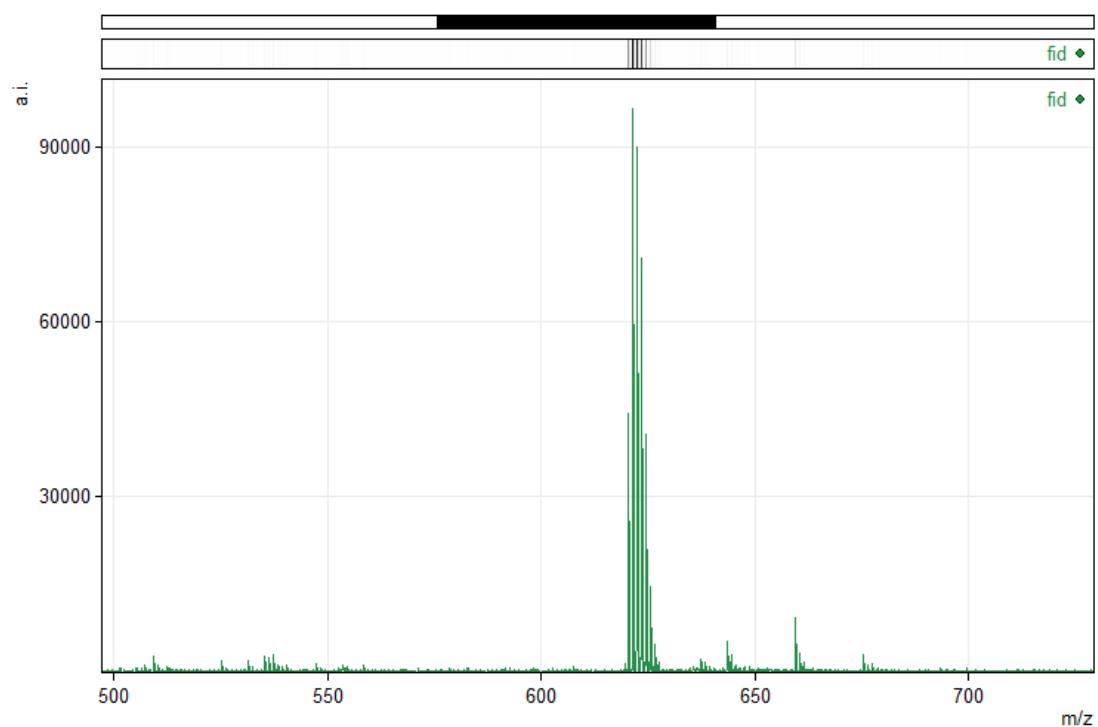


Figure S18. MALDI-TOF MS of 2b

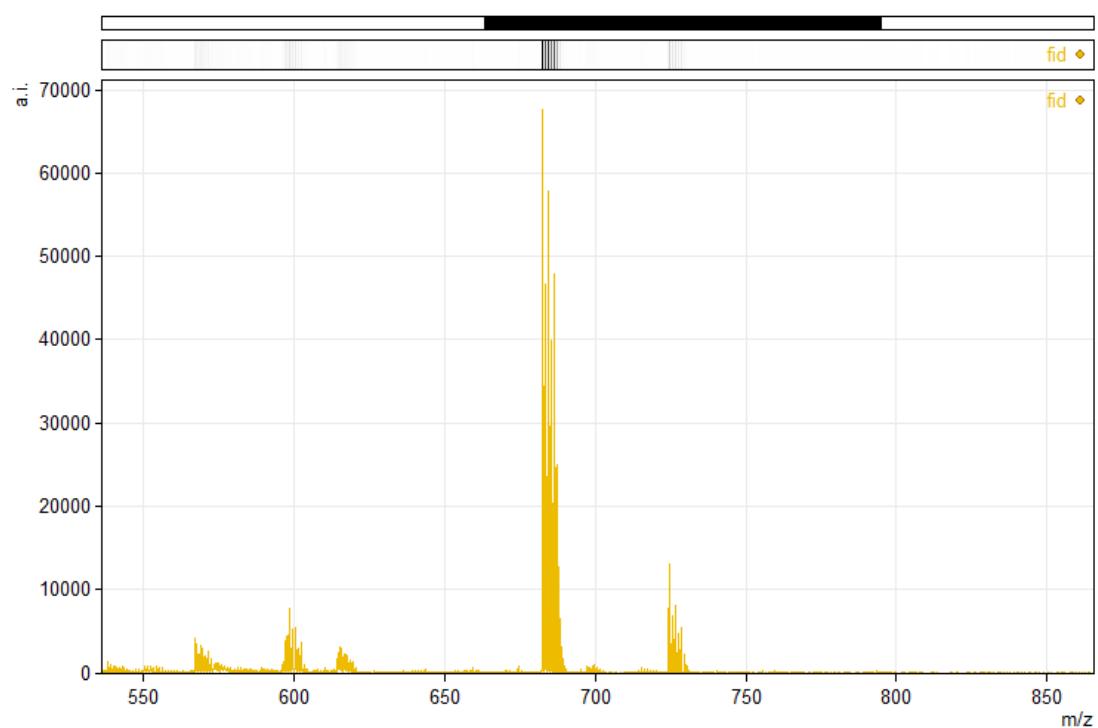


Figure S19. MALDI-TOF MS of 3b

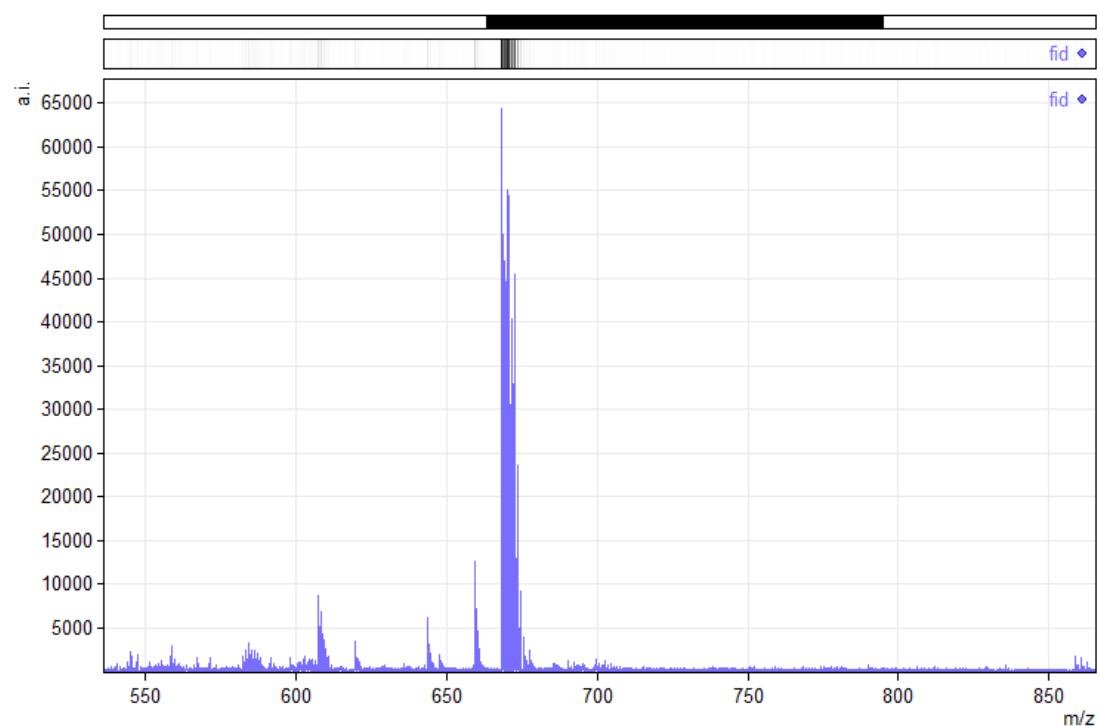


Figure S20. MALDI-TOF MS of 1c

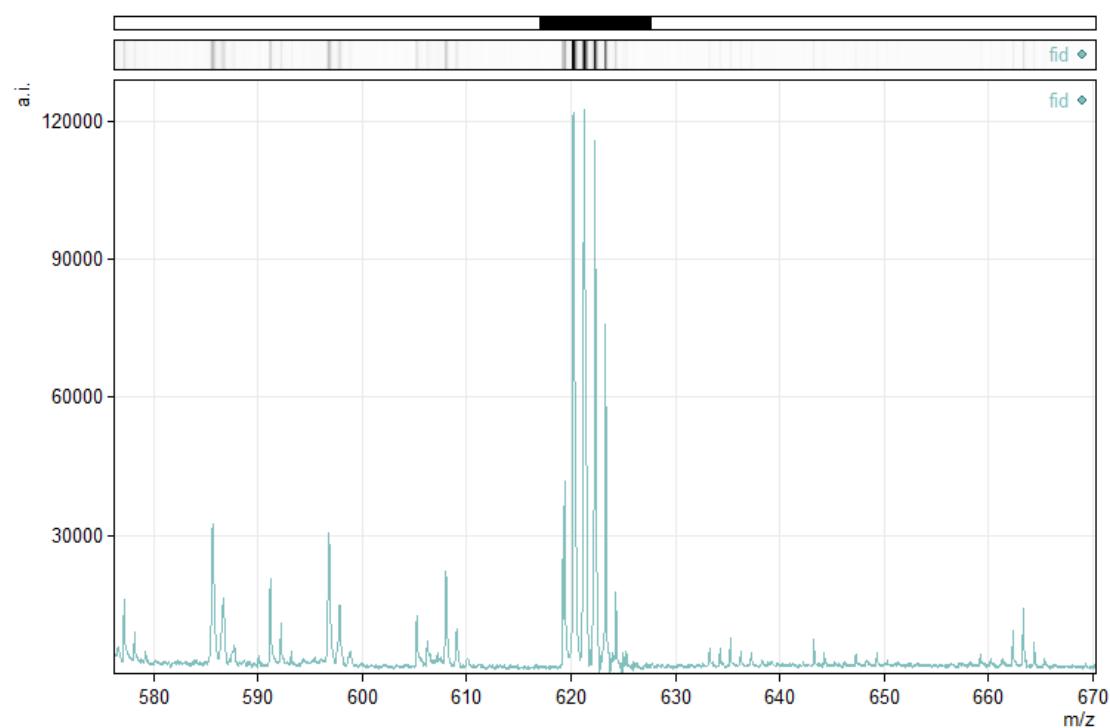


Figure S21. MALDI-TOF MS of 2c

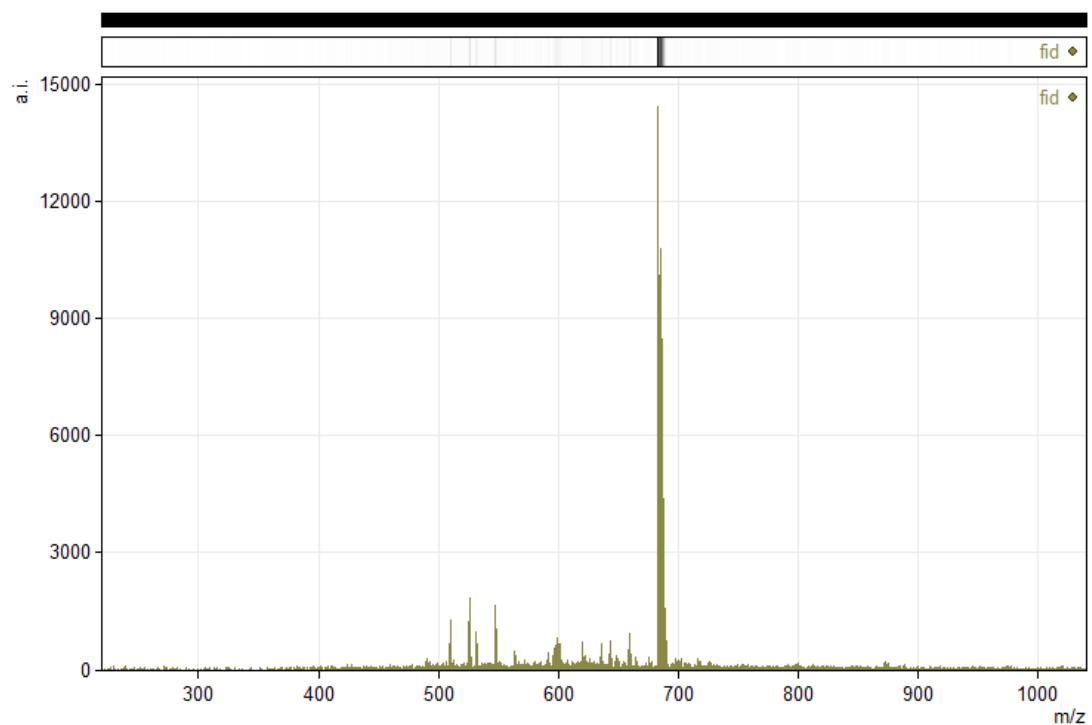


Figure S22. MALDI-TOF MS of 3c

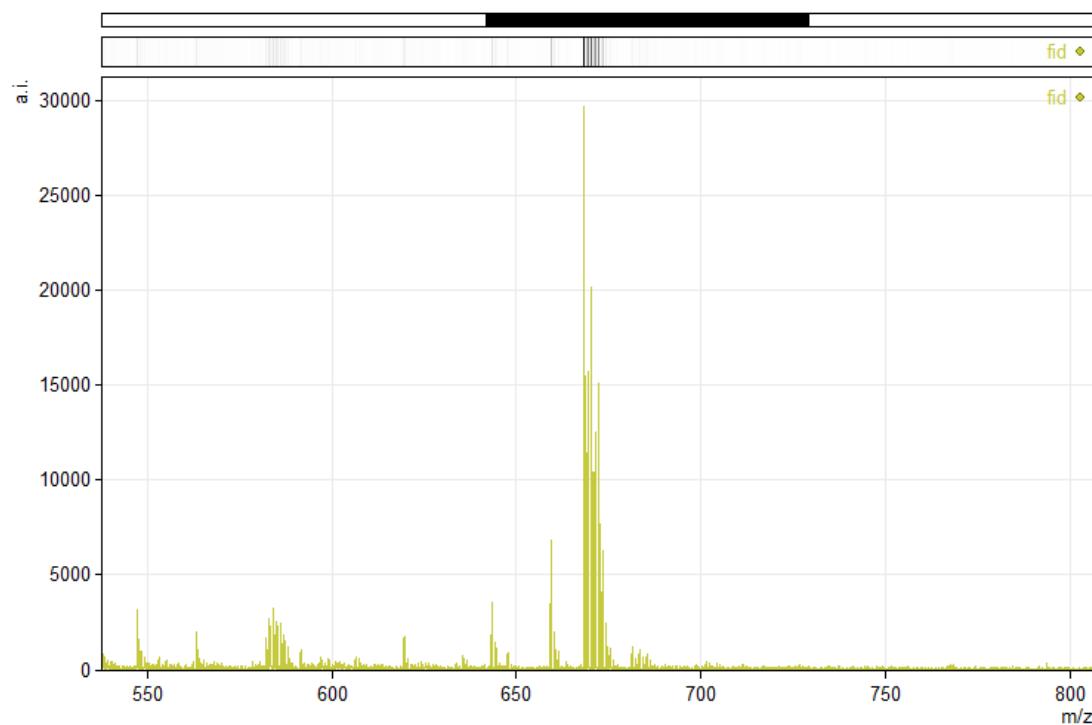


Figure S23. MALDI-TOF MS of 1d

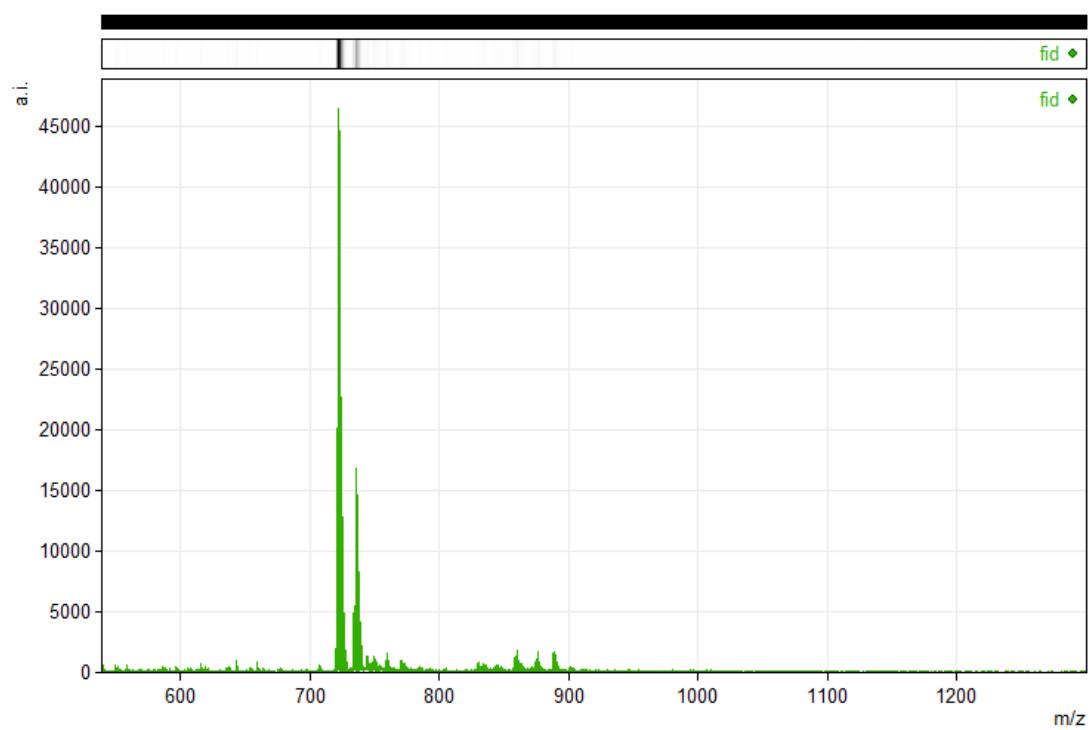


Figure S24. MALDI-TOF MS of 2d

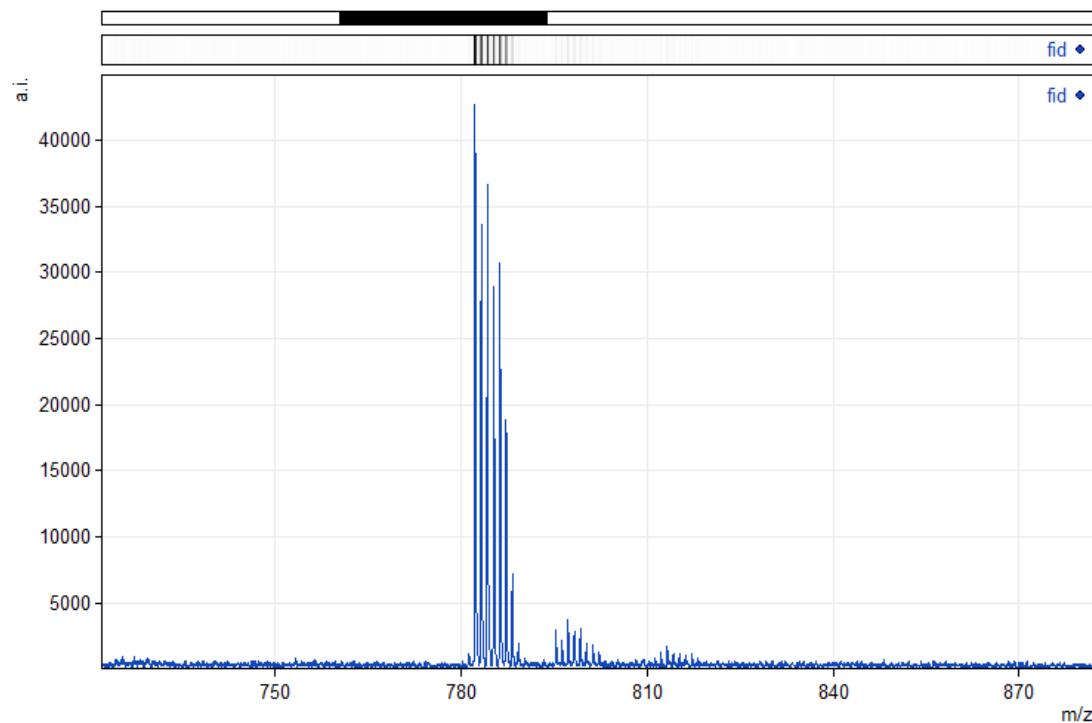


Figure S25. MALDI-TOF MS of 3d

