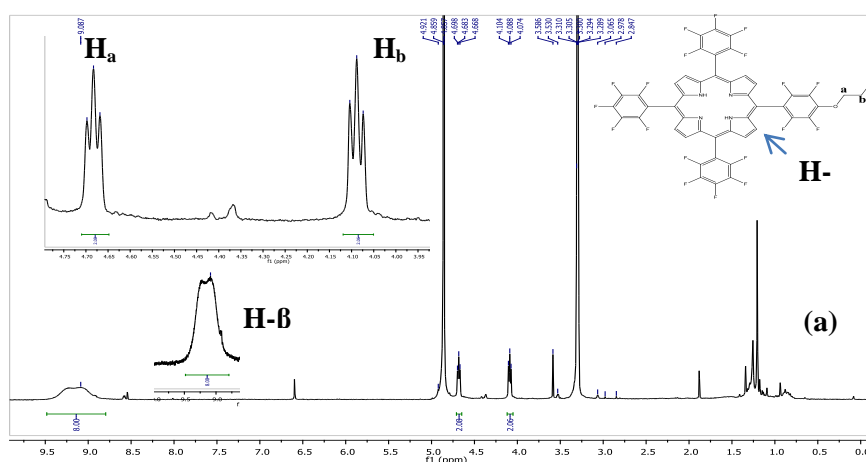


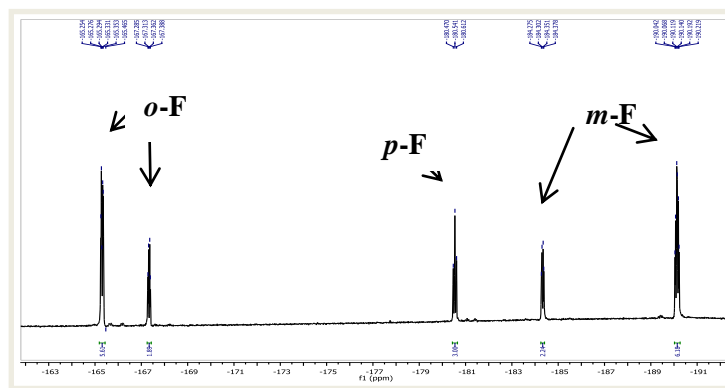
†Electronic Supplementary Information (ESI) available: [NMR ^1H and ^{19}F , FTIR, HRMS and UV-vis of the free-base porphyrins P2-P6. UV-vis, MALDI(TOF/TOF) and HRMS of the metalloporphyrins.

Glycol metalloporphyrin derivatives in solution or immobilized on LDH and silica: synthesis, characterization and catalytic features in oxidation reactions

Kelly A. D. F. Castro,^{a,b} Mário M. Q. Simões^b, M. Graça P. M. S. Neves,^{*b} José A. S. Cavaleiro^b, Fernando Wypych^a and Shirley Nakagaki^{*a}

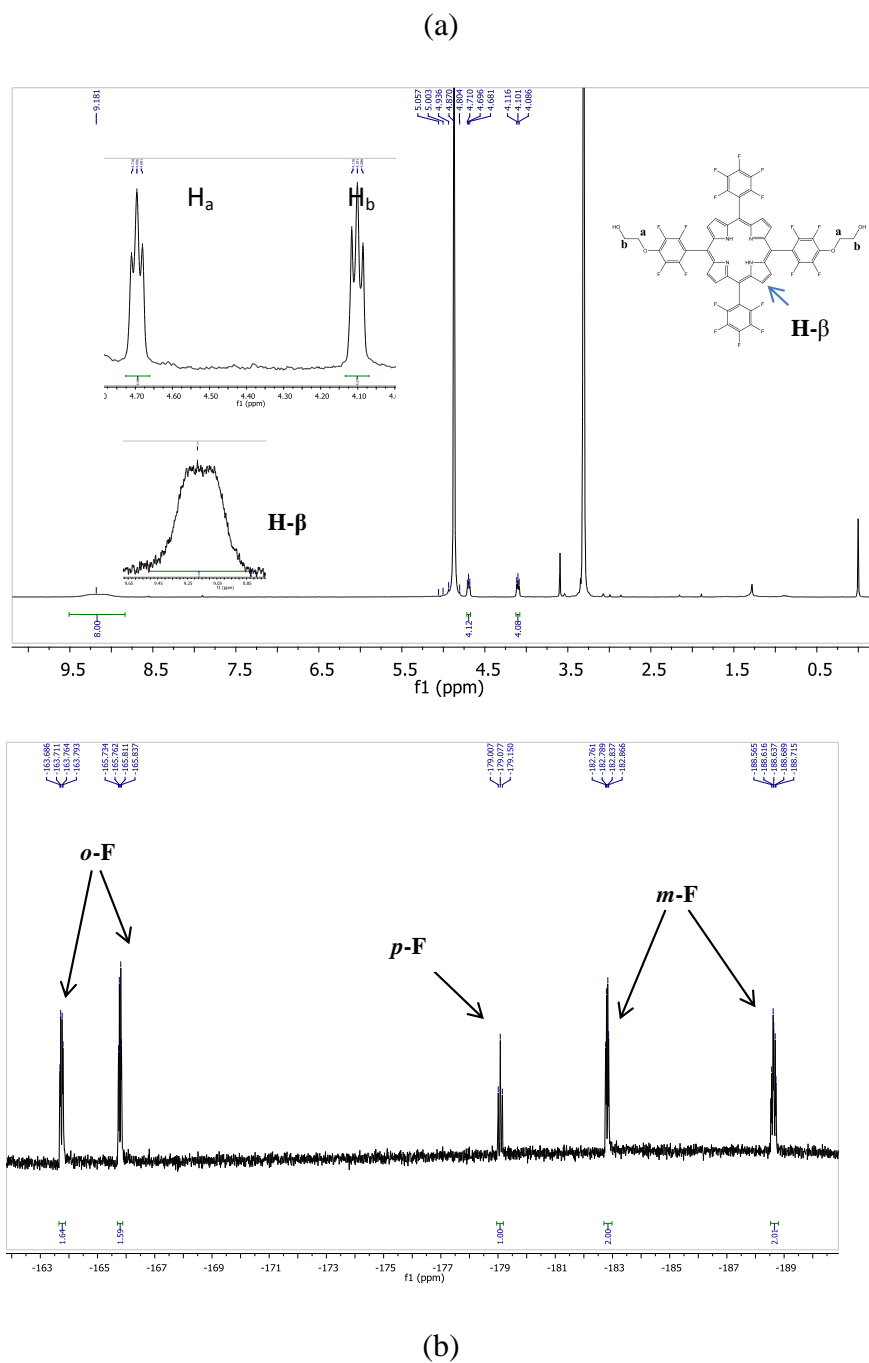


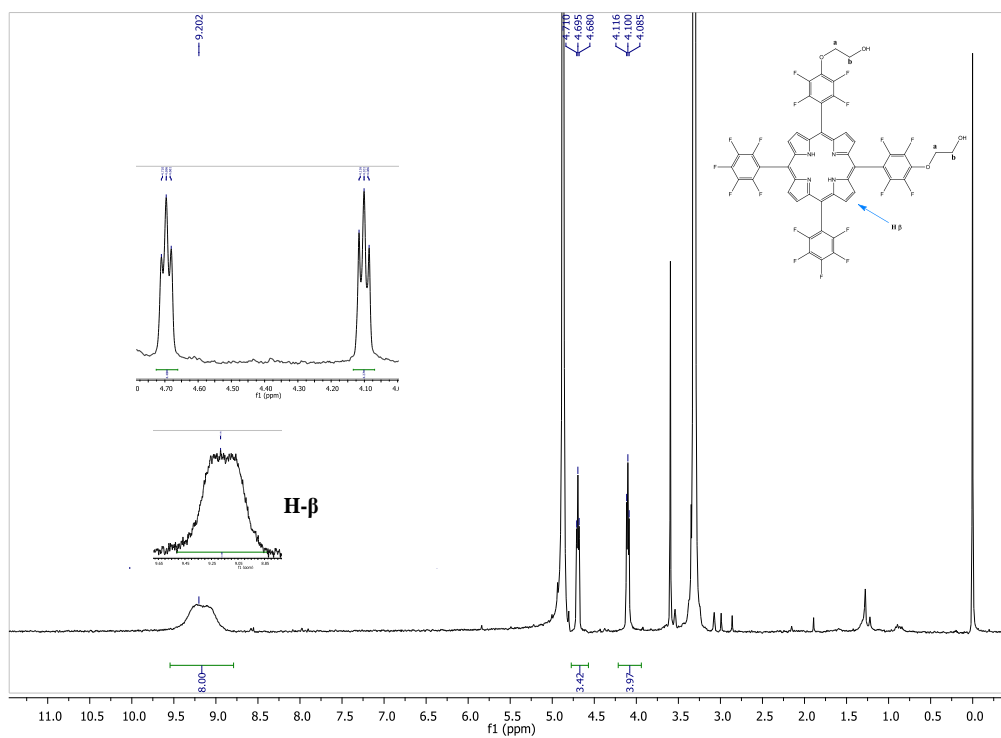
(a)



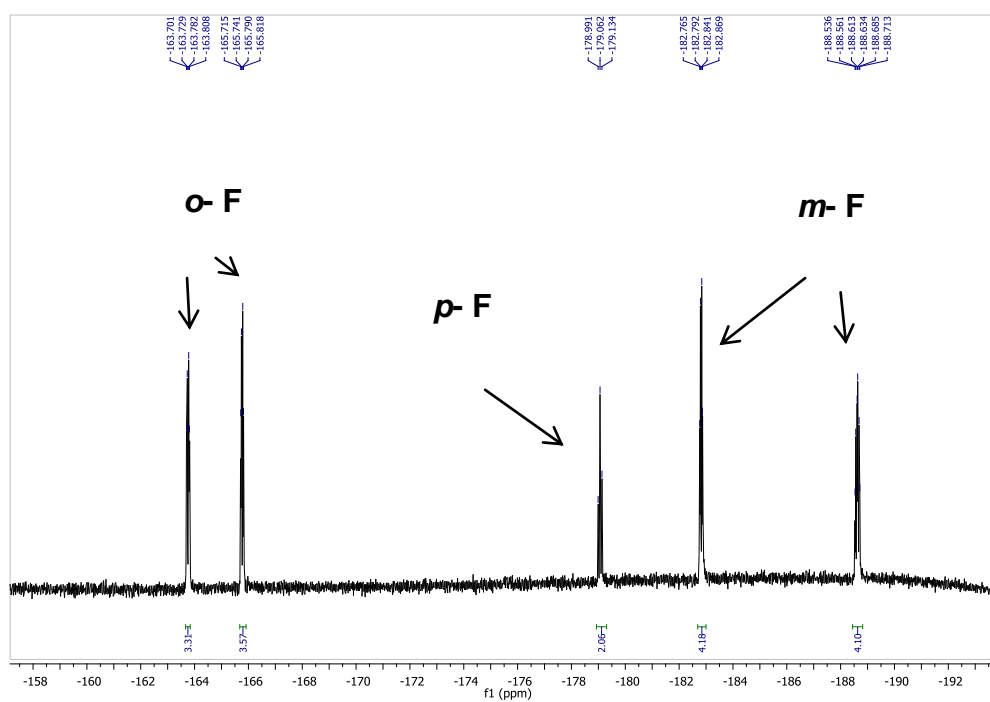
(b)

Figure S1. NMR spectra of porphyrin P2: ^1H (a) and ^{19}F (b).





(a)



(b)

Figure S3. NMR spectra of porphyrin **P4**: ^1H (a) and ^{19}F (b).

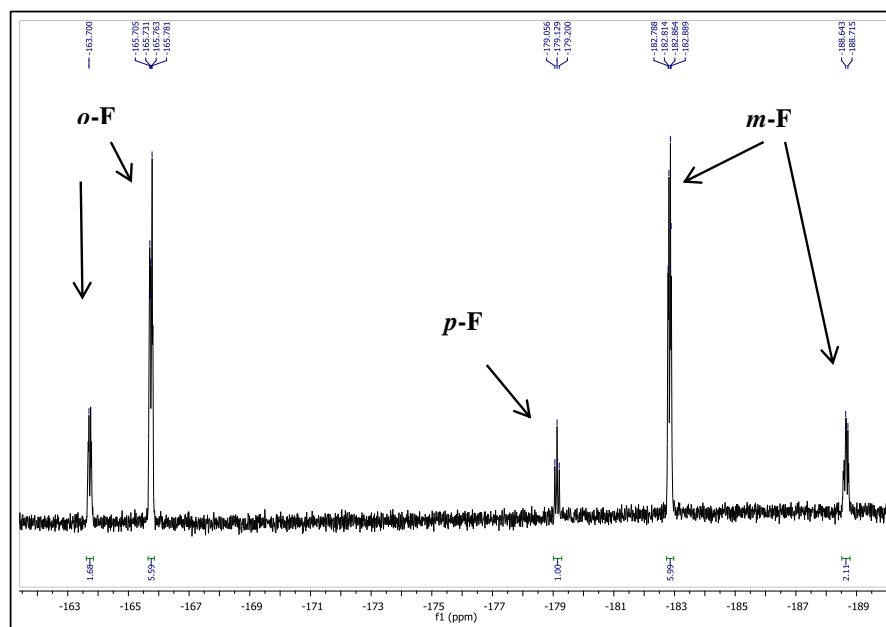
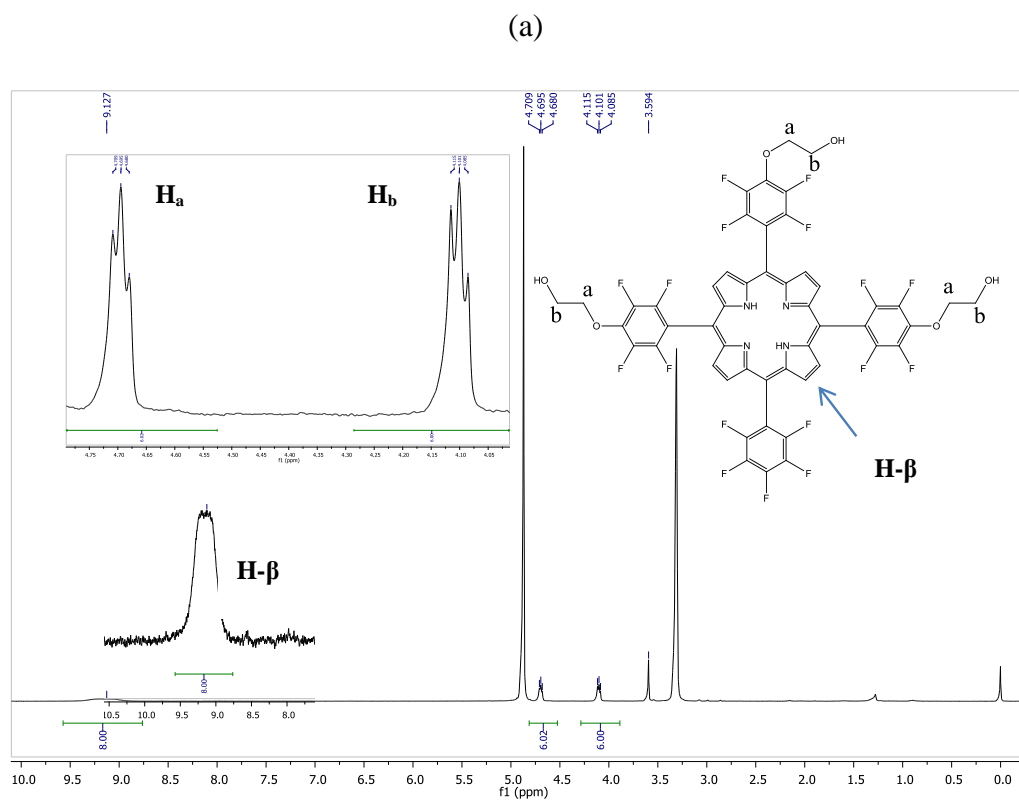
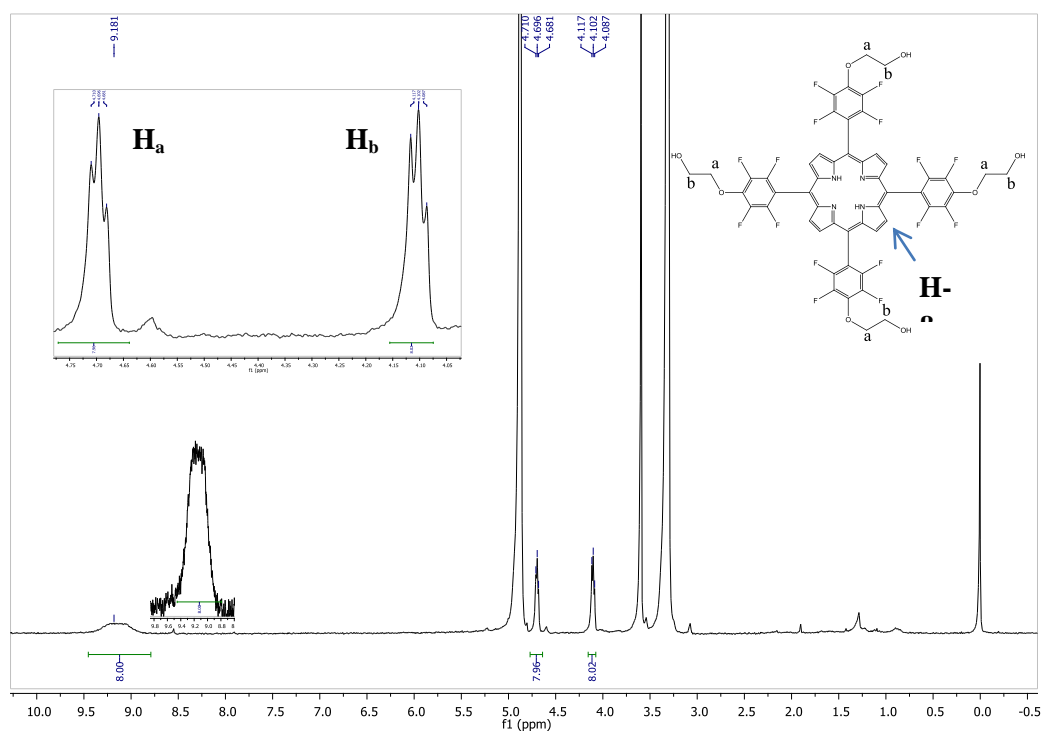


Figure S4. NMR spectra of porphyrin **P5**: ^1H (a) and ^{19}F (b).

(a)



(b)

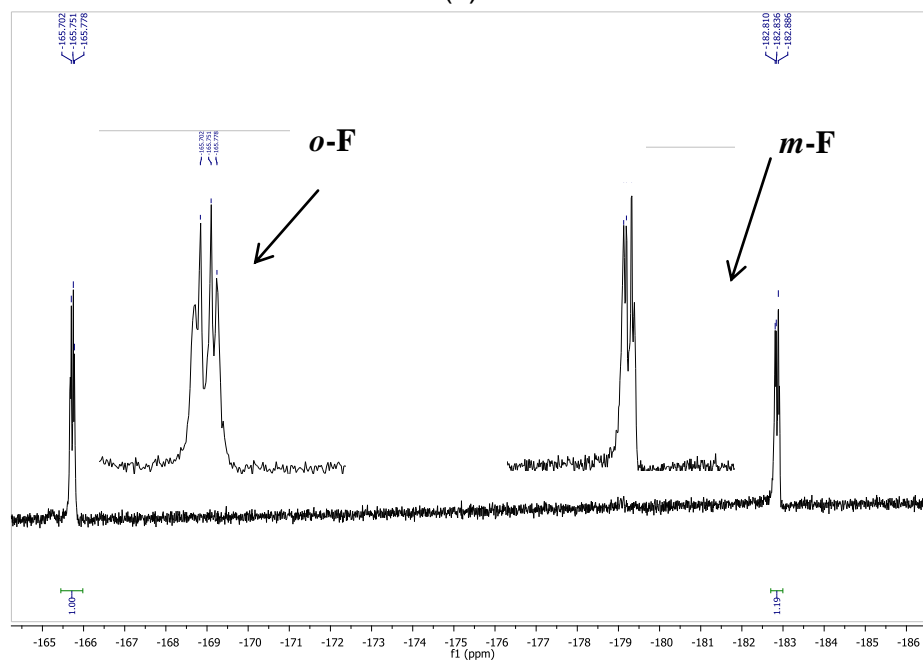


Figure S5. NMR spectra of porphyrin **P6**: ^1H (a) and ^{19}F (b).

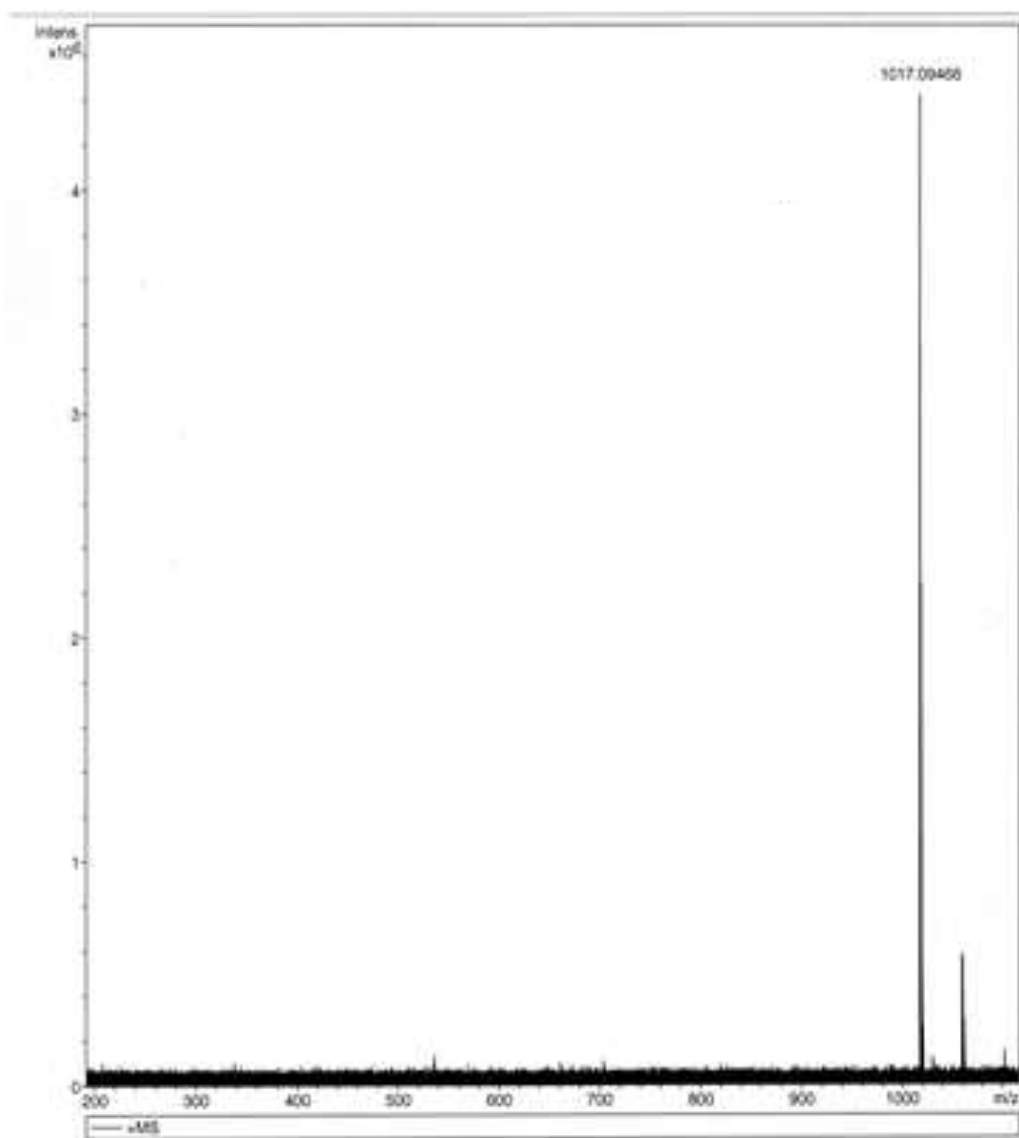


Figure S6. High-resolution mass spectra (FAB⁺) - porphyrin **P2**.

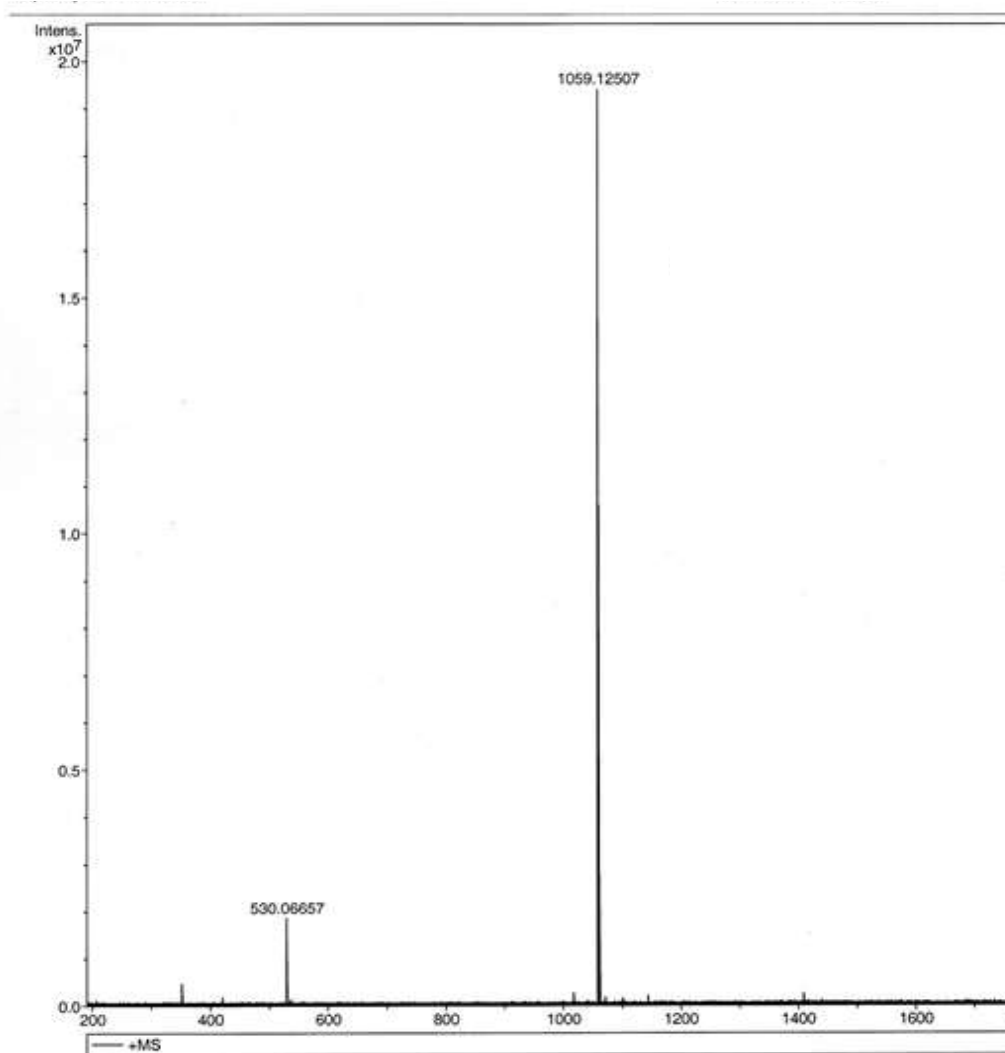


Figure S7. High-resolution mass spectra (FAB⁺) - porphyrin **P3**.

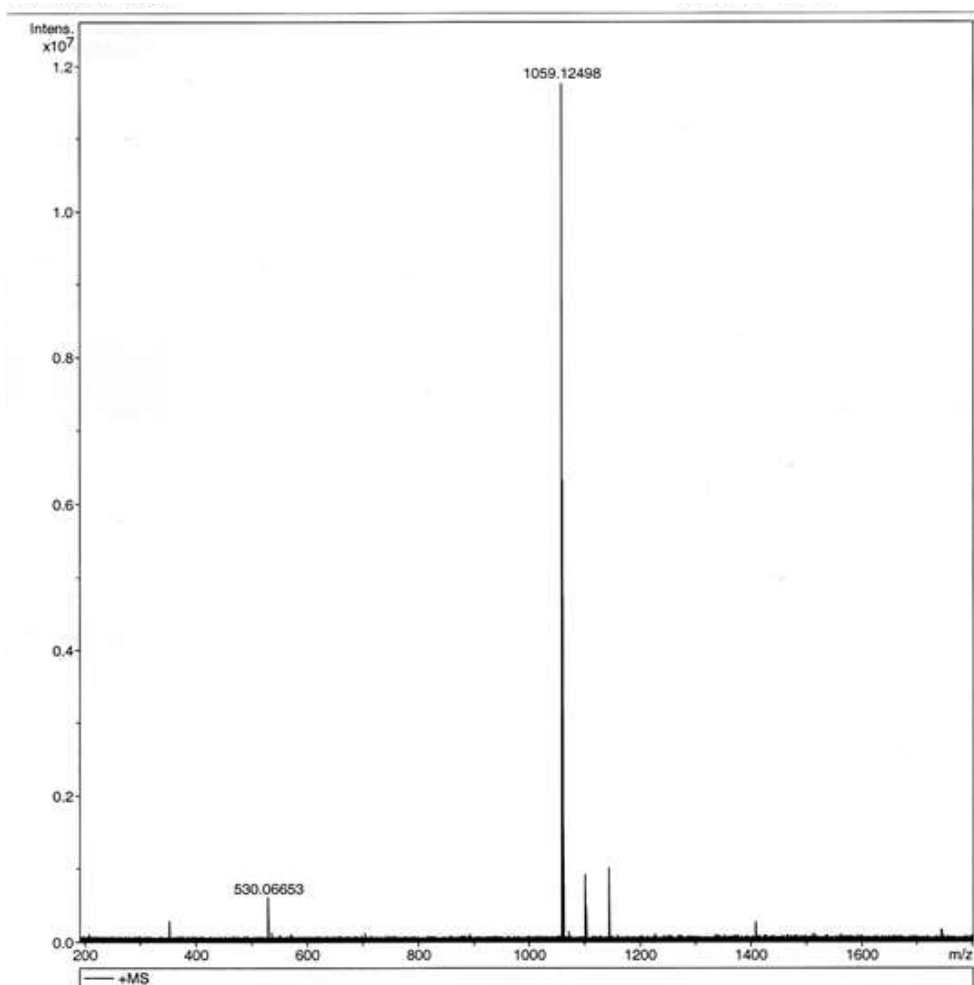


Figure S8. High-resolution mass spectra (FAB⁺) - porphyrin **P4**.

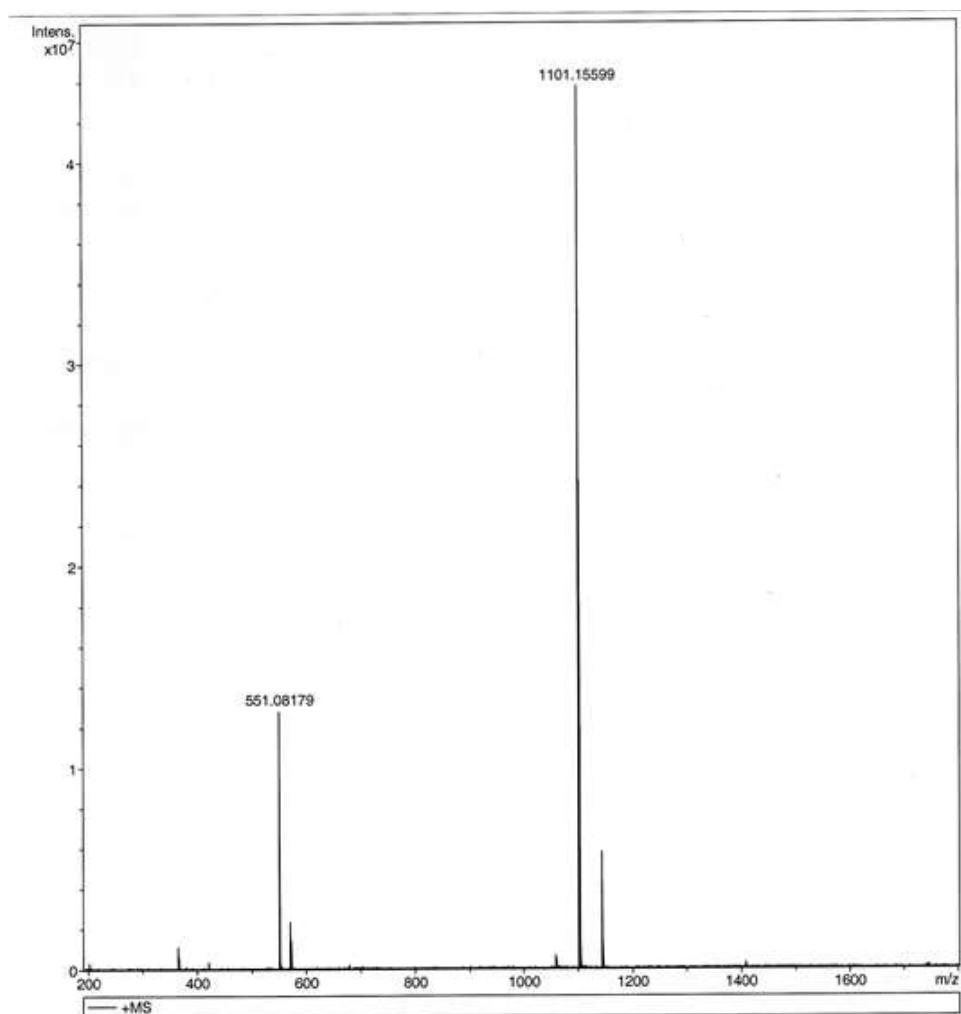


Figure S9. High-resolution mass spectra (FAB⁺) - porphyrin **P5**.

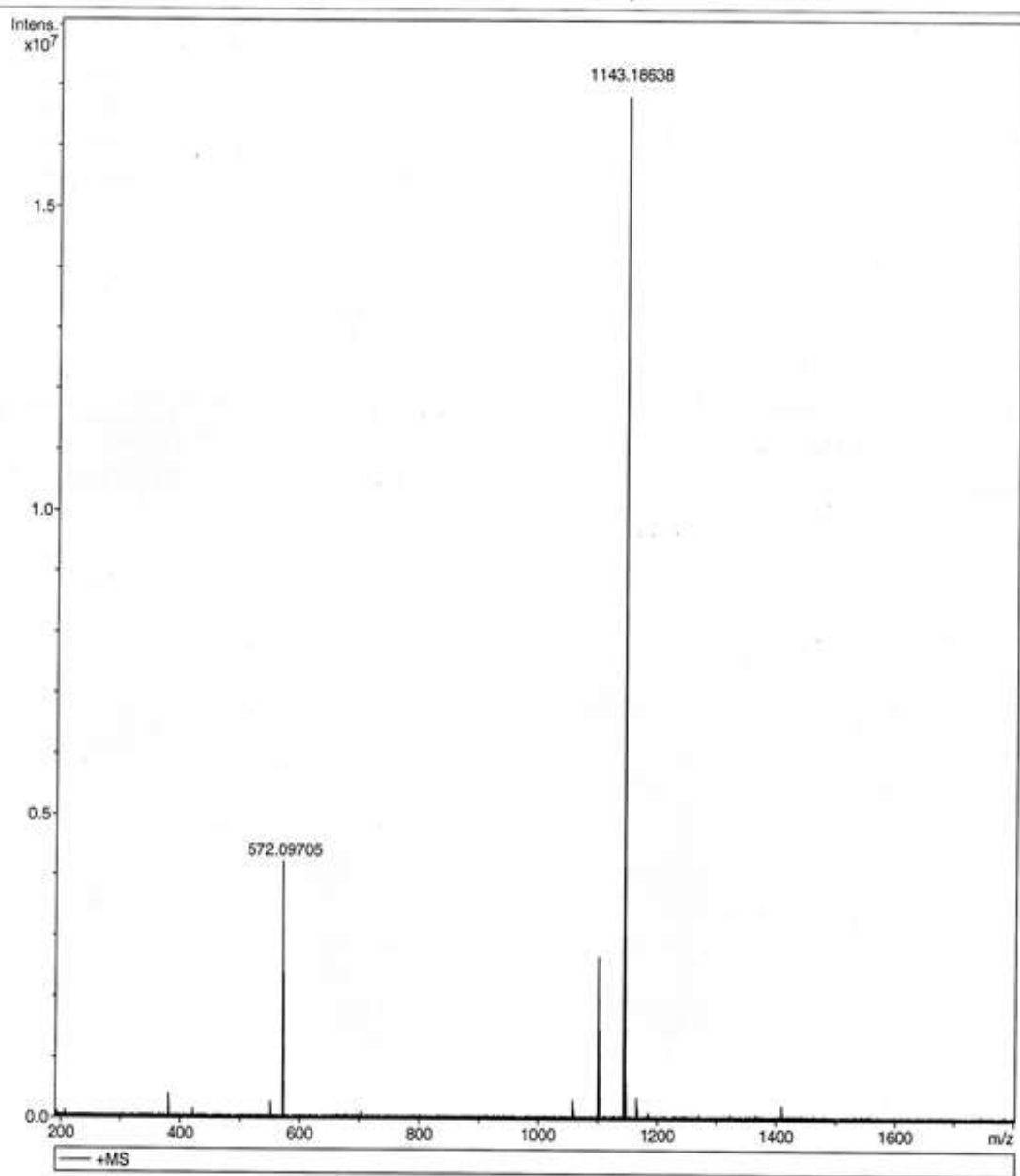


Figure S10. High-resolution mass spectra (FAB⁺) - porphyrin **P6**.

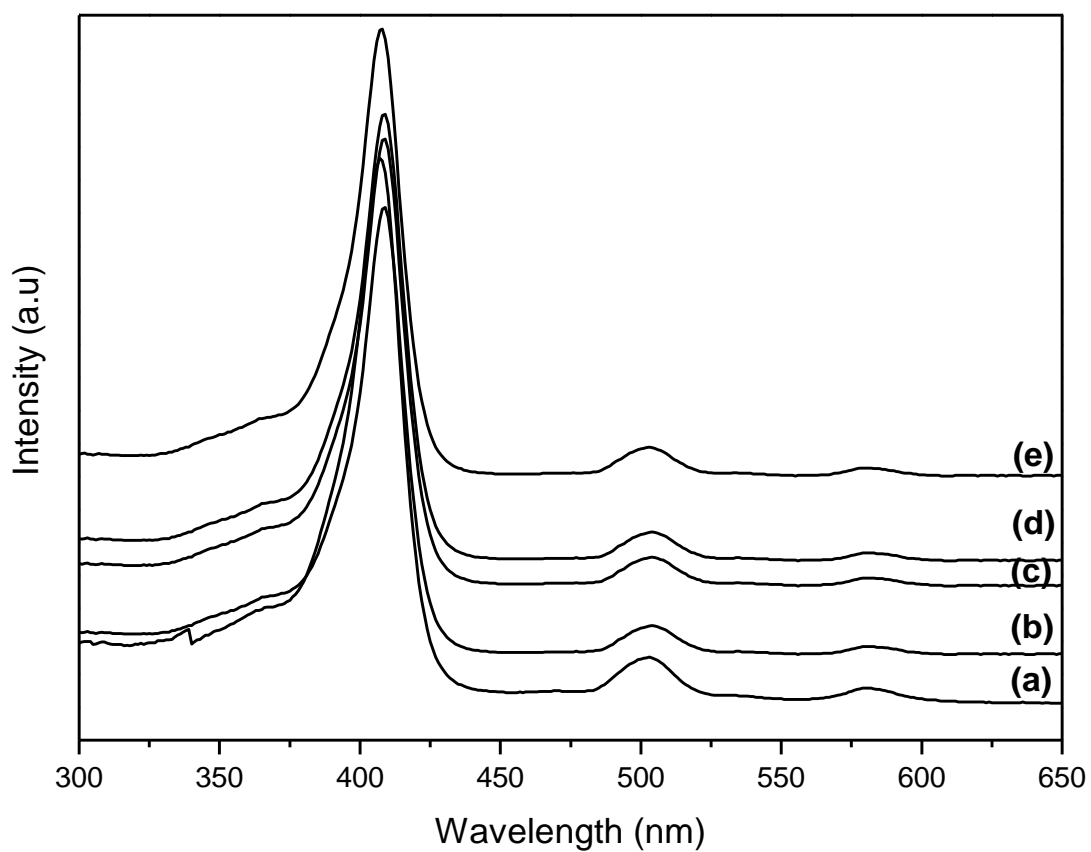


Figure S11. UV-vis spectra of porphyrins (**P2-P6**) in CH₂Cl₂: (a) Porphyrin **P2**, (b) Porphyrin **P3**, (c) Porphyrin **P4**, (d) Porphyrin **P5**, and (e) Porphyrin **P6**.

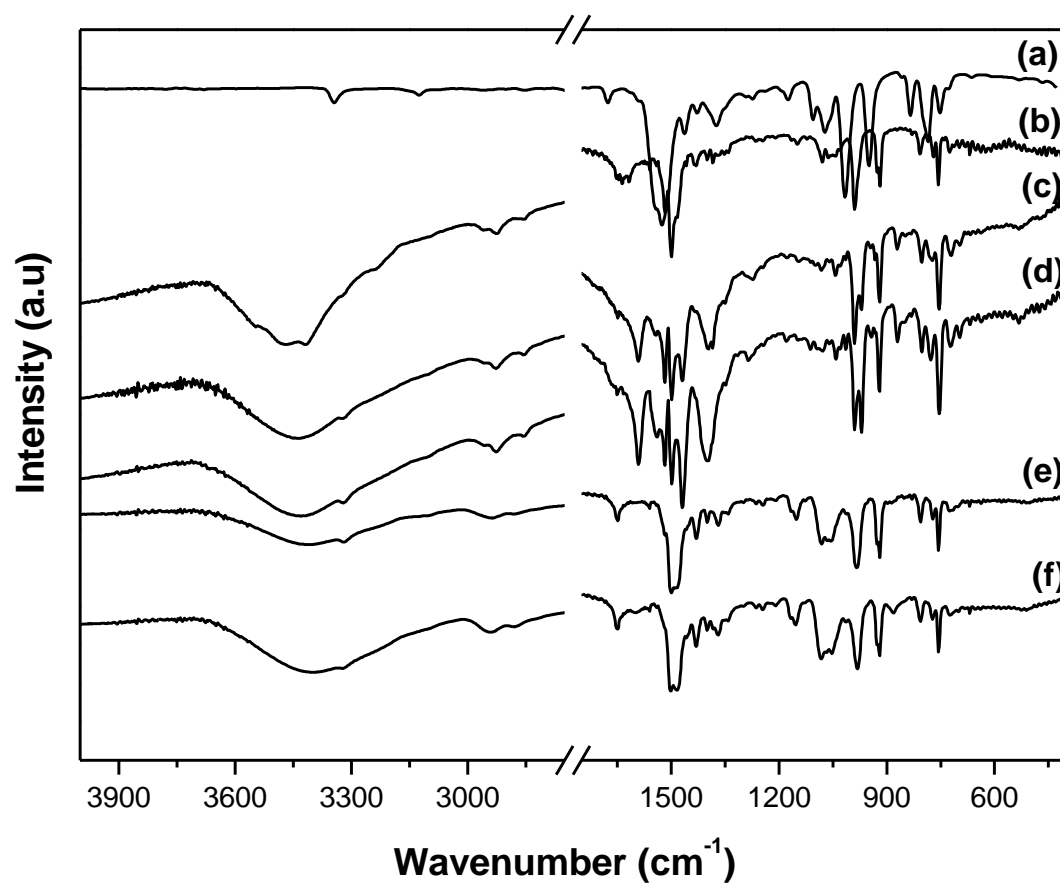


Figure S12. FTIR spectra of porphyrins (**P1- P6**): (a) Porphyrin **P1**, (b) Porphyrin **P2**, (c) Porphyrin **P3**, (d) Porphyrin **P4**, (e) Porphyrin **P5**, and (f) Porphyrin **P6**.

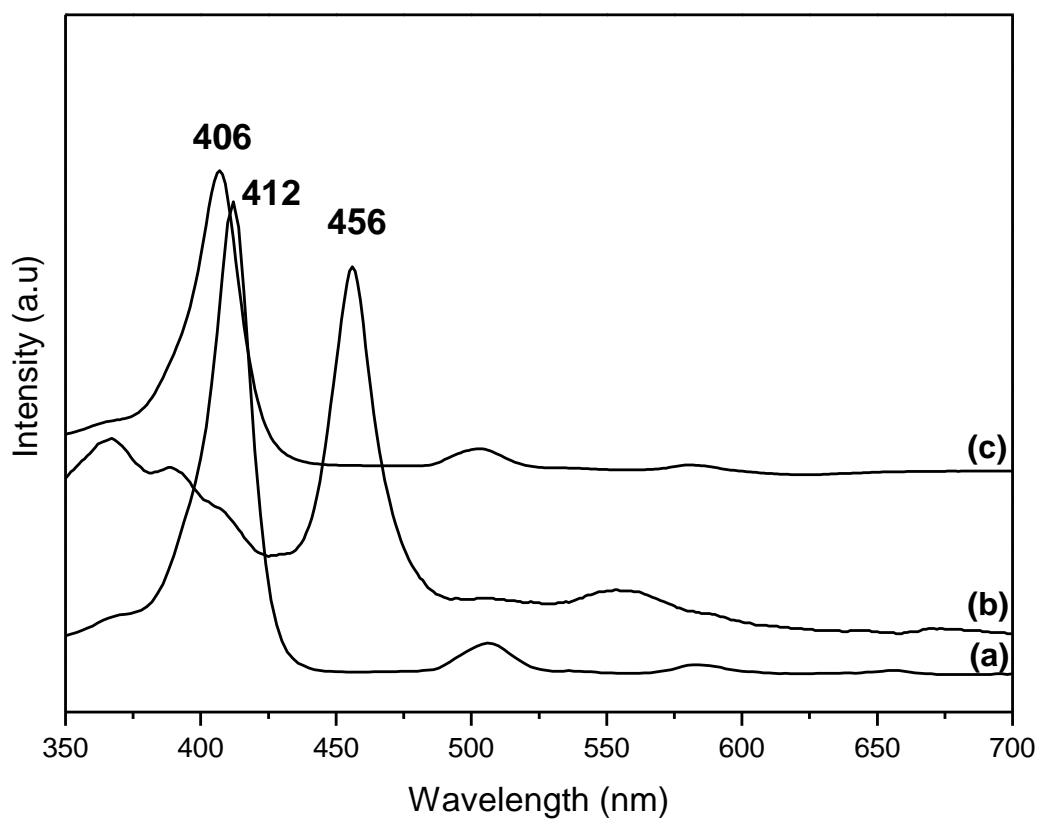


Figure S13. UV-Vis spectra in methanol: (a) **P2**, (b) **MnP9**, and (c) **FeP7** (350-700 nm).

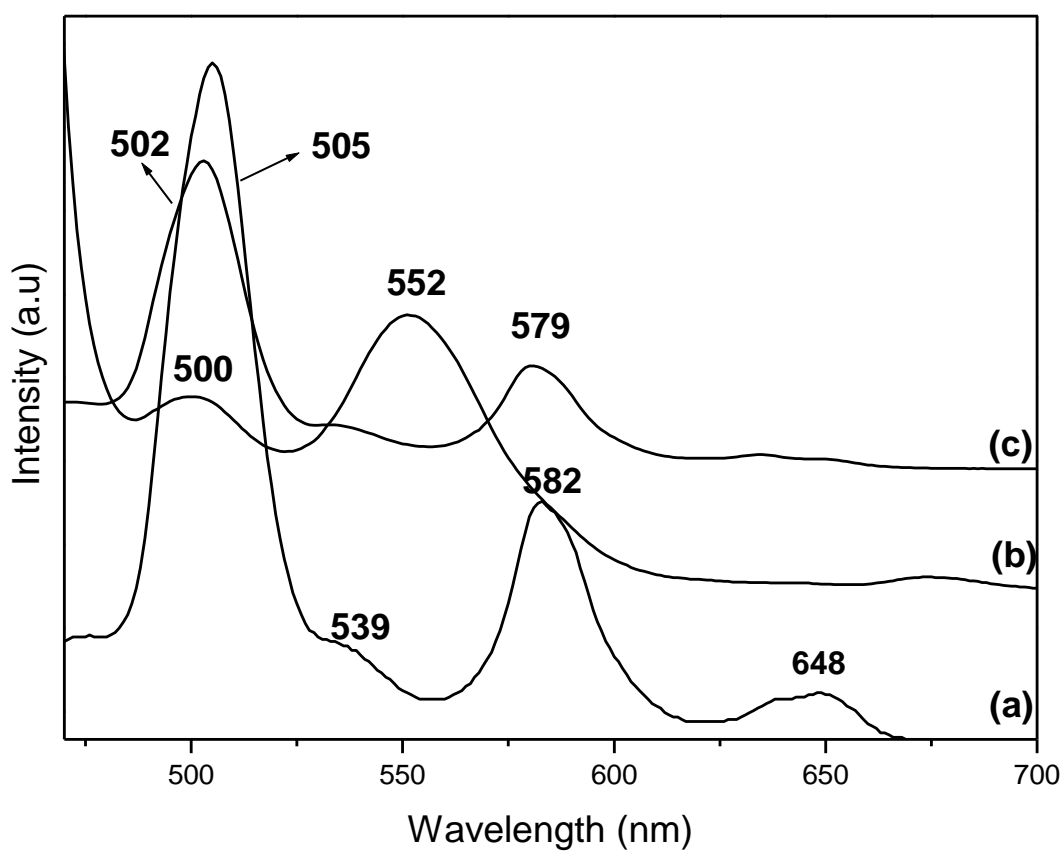


Figure S14. UV-vis spectra in methanol: (a) **P2**, (b) **FeP7**, and (c) **MnP9** (amplification).

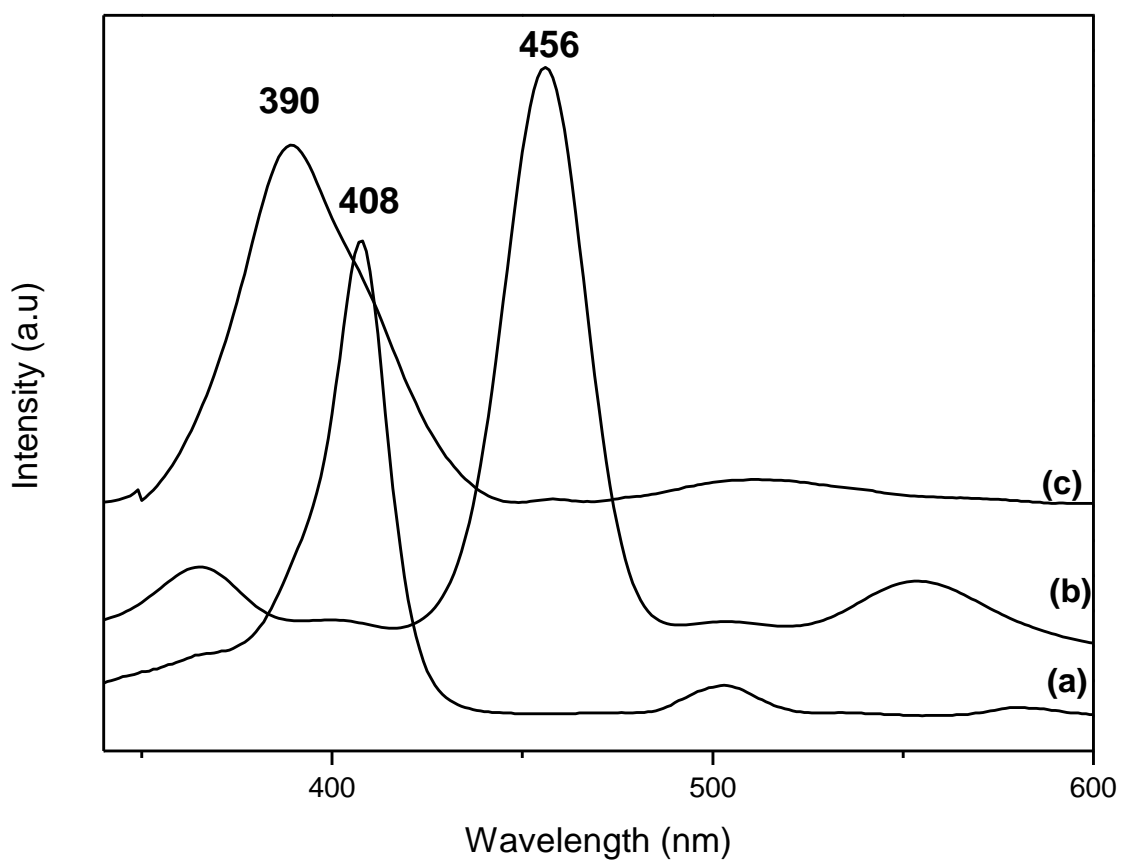


Figure S15. UV-Vis spectra in methanol: (a) **P6**, (b) **MnP10**, and (c) **FeP8** (300-600 nm).

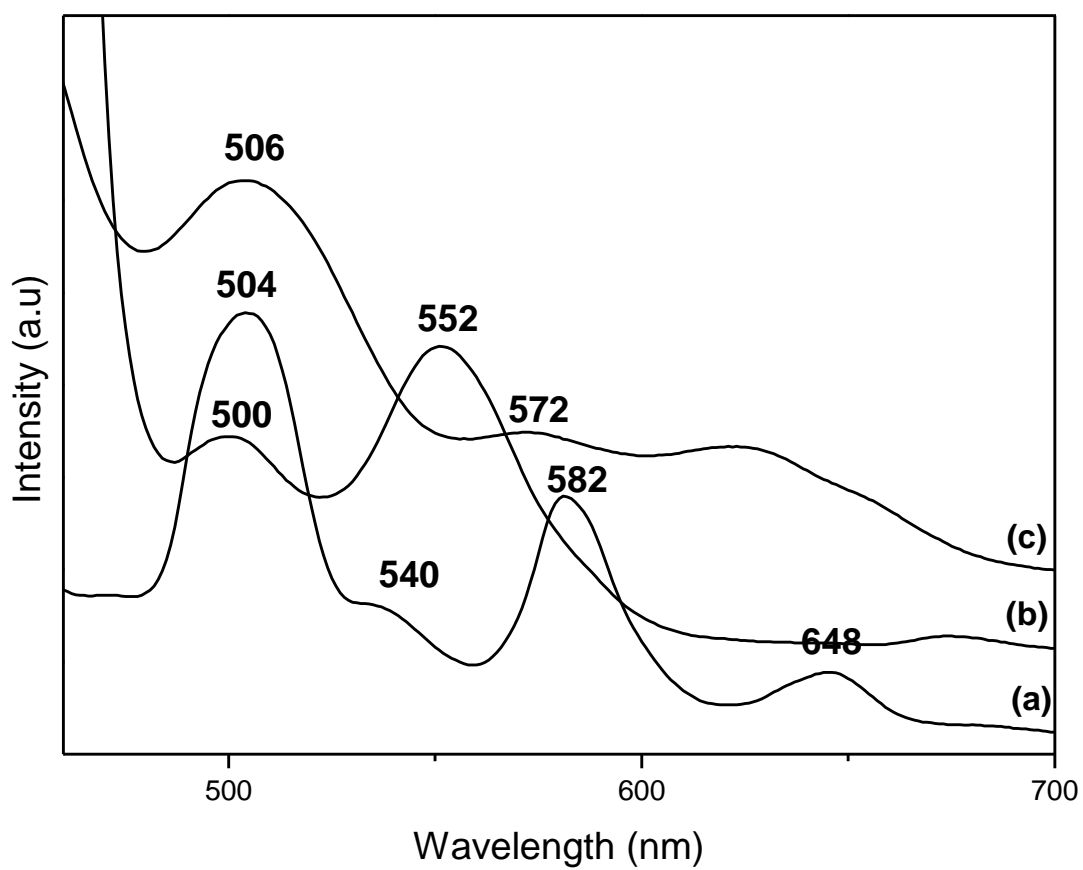


Figure S16. UV-Vis spectra in methanol: (a) **P6**, (b) **MnP10**, and (c) **FeP8** (450-700 nm).

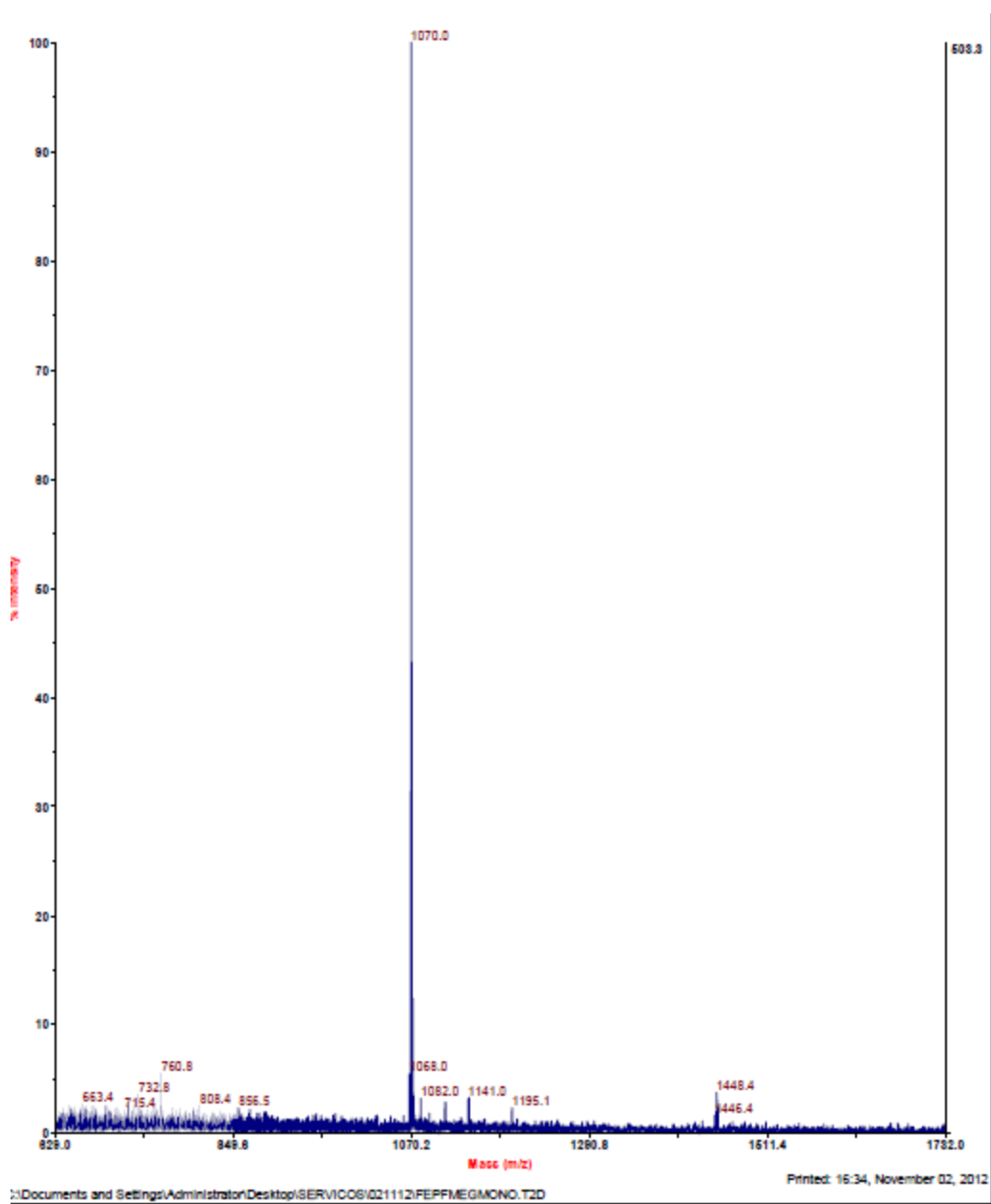


Figure S17. Matrix-Assisted Laser. Desorption Ionization – Time of Flight (MALDI-TOF/TOF) mass spectra - porphyrin **FeP7**.

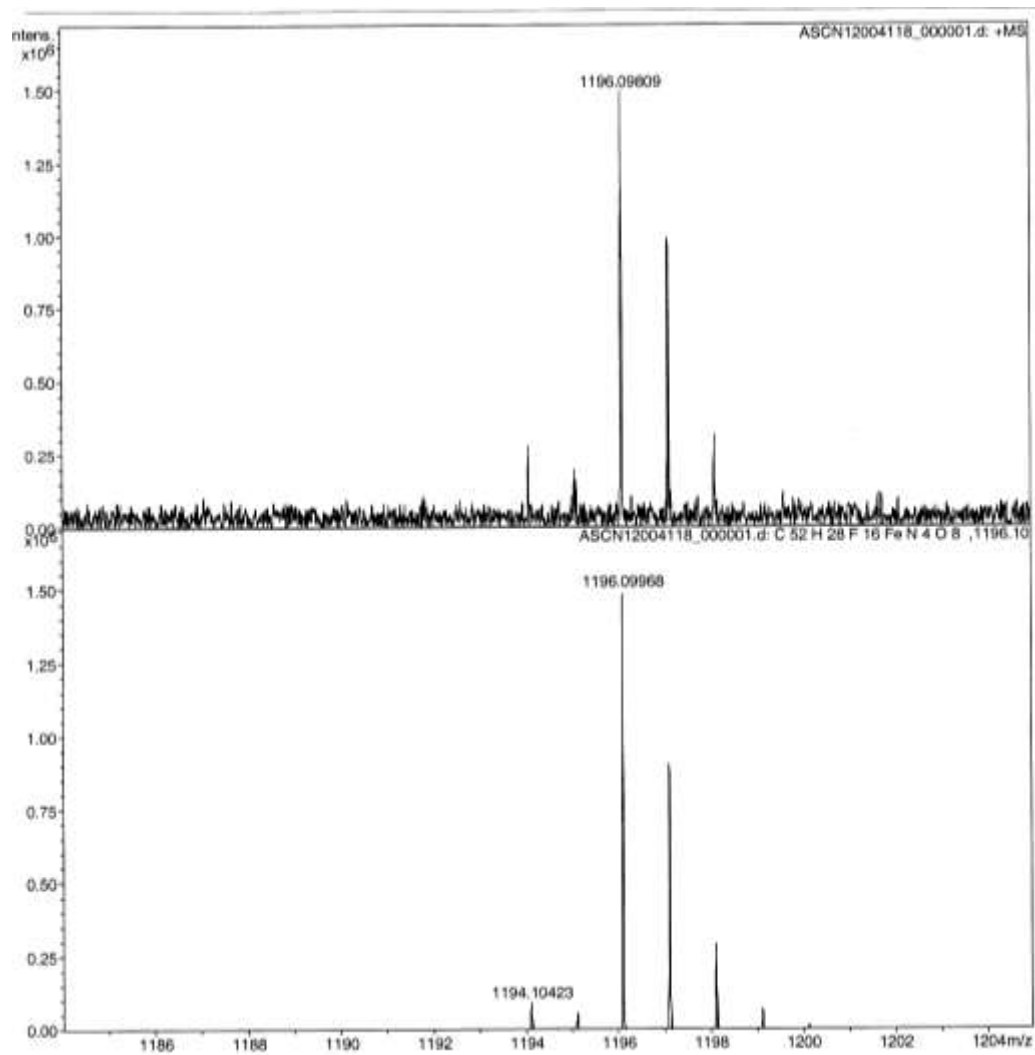


Figure S18. High-resolution mass spectra (FAB⁺) - porphyrin **FeP8**.

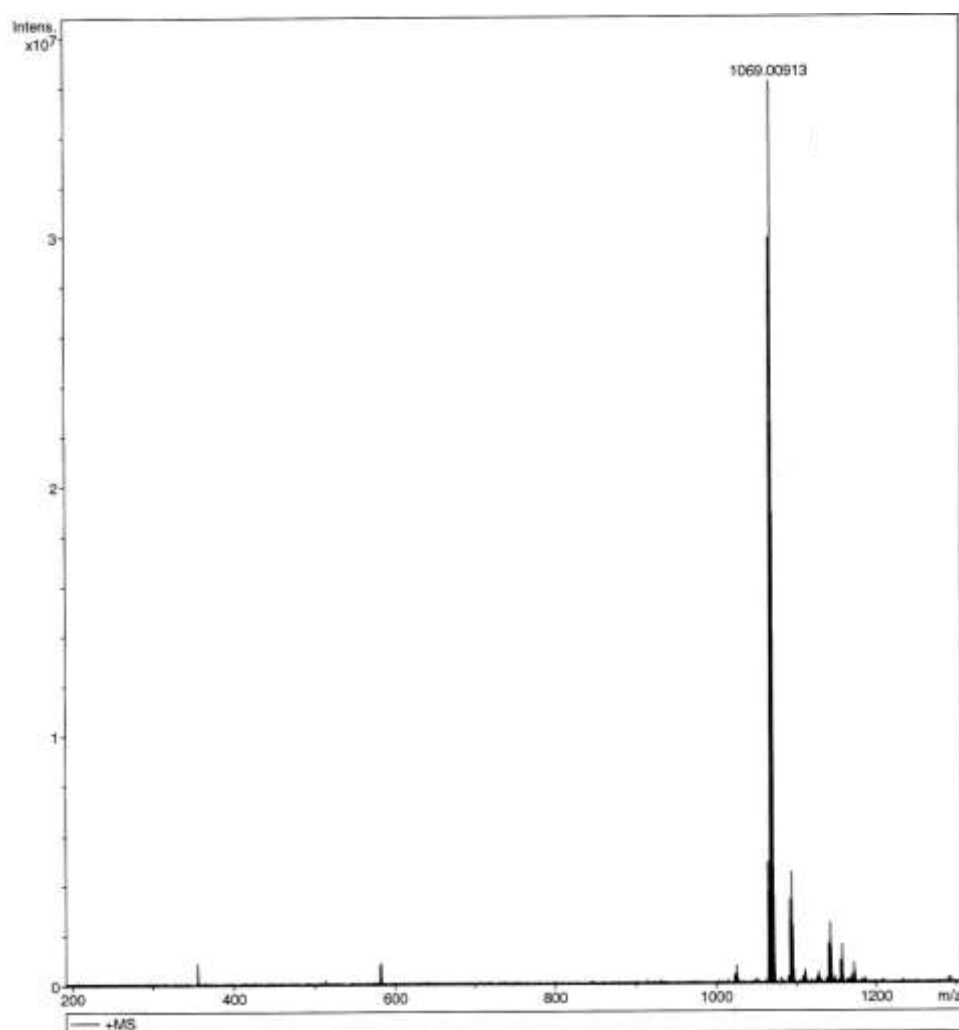


Figure S19. High-resolution mass spectra (FAB⁺) - porphyrin **MnP9**.

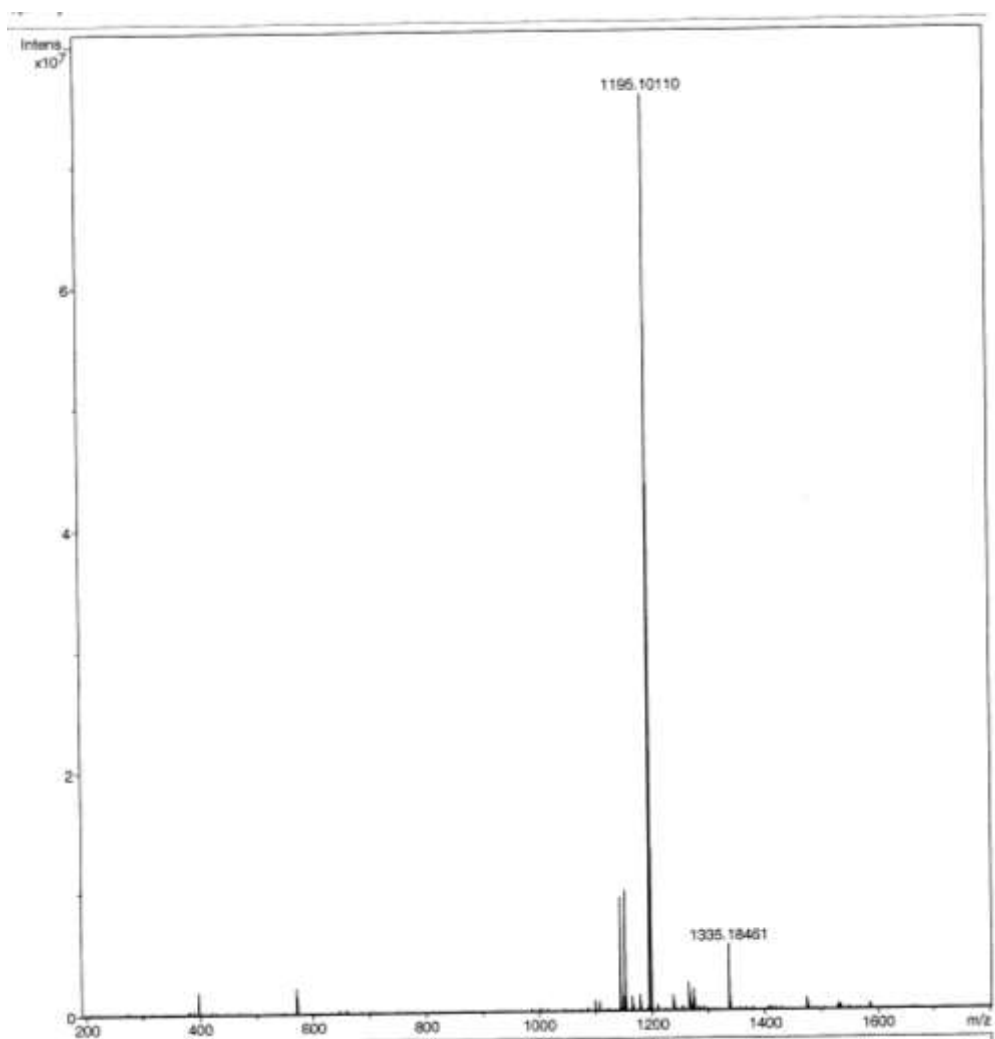


Figure S20. High-resolution mass spectra (FAB+) - porphyrin **MnP10**.