

Supporting Information

Synthesis and optoelectronic characterization of Perylene Diimide – Quinoline based small molecules

Stefania Aivali¹, Loukia. Tsimpouki¹, C. Anastasopoulos^{1,2}, J. K. Kallitsis^{1,2*}

¹ Department of Chemistry, University of Patras, University Campus, Rio-Patras, GR26504, Greece; j.kallitsis@upatras.gr

² Foundation for Research and Technology Hellas/Institute of Chemical Engineering Sciences (FORTH/ICE-HT), Platani Str., Patras, GR26504, Greece; j.kallitsis@upatras.gr

* Correspondence: j.kallitsis@upatras.gr;

¹H, ¹³C NMR and ATR-IR spectra of the synthesized molecules

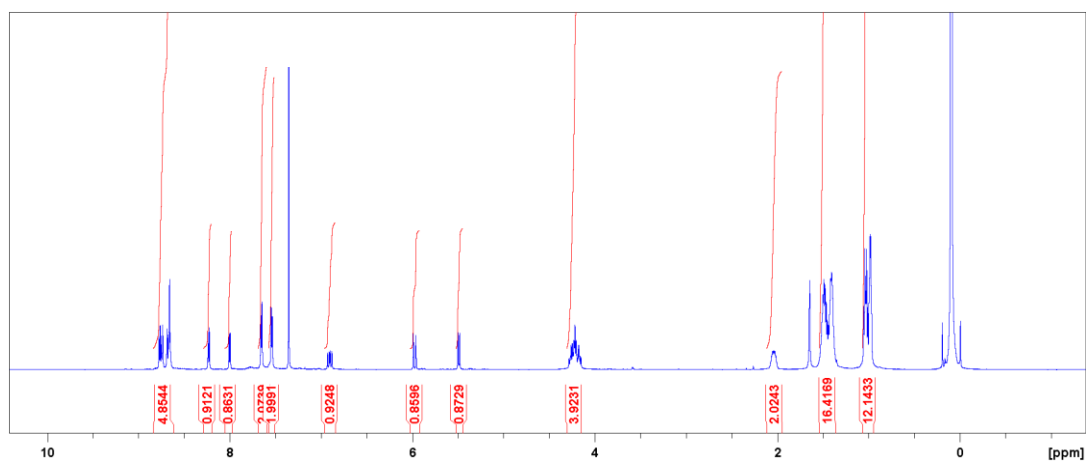


Figure S1. ¹H NMR spectrum of styryl-di-EH-PDI in CDCl₃.

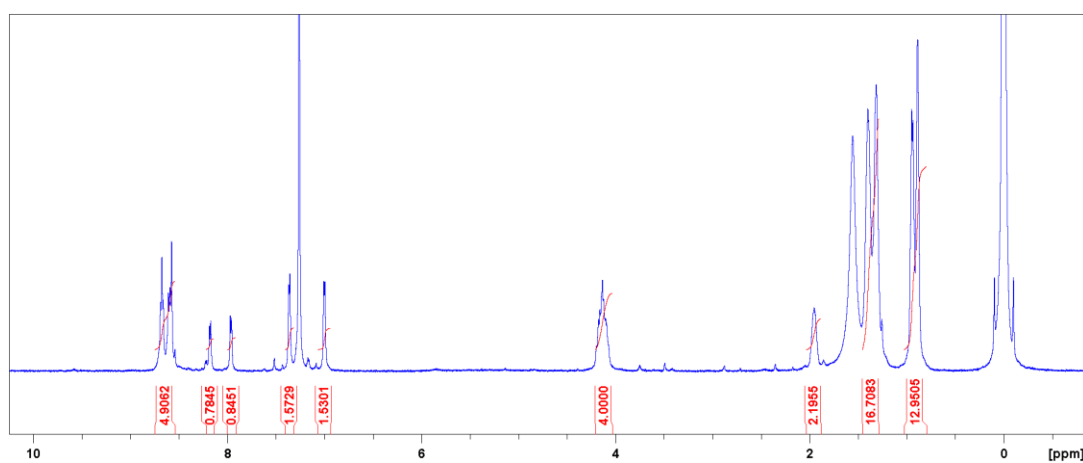


Figure S2. ¹H NMR spectrum of PhOH-di-EH-PDI in CDCl₃.

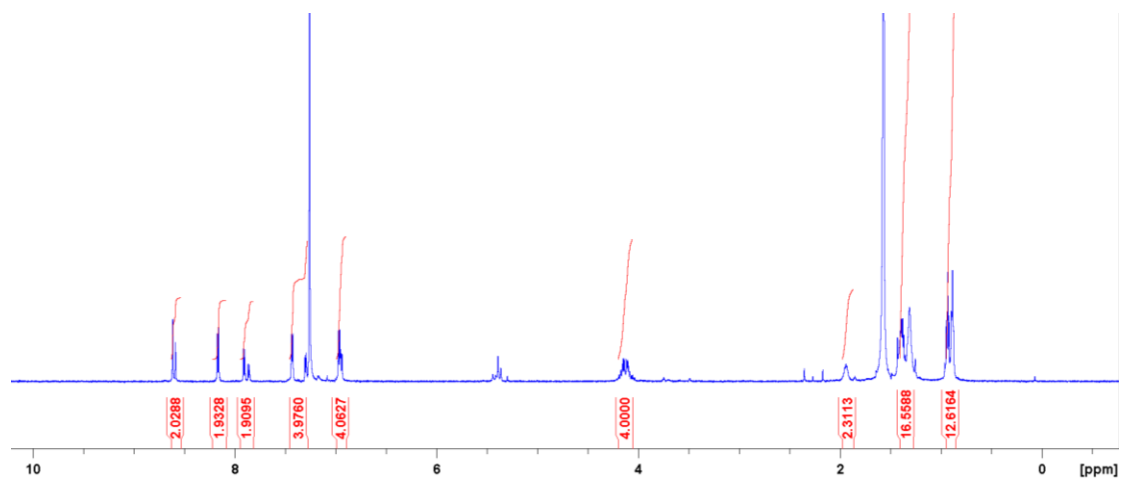


Figure S3. ¹H NMR spectrum of diPhOH-di-EH-PDI in CDCl₃.

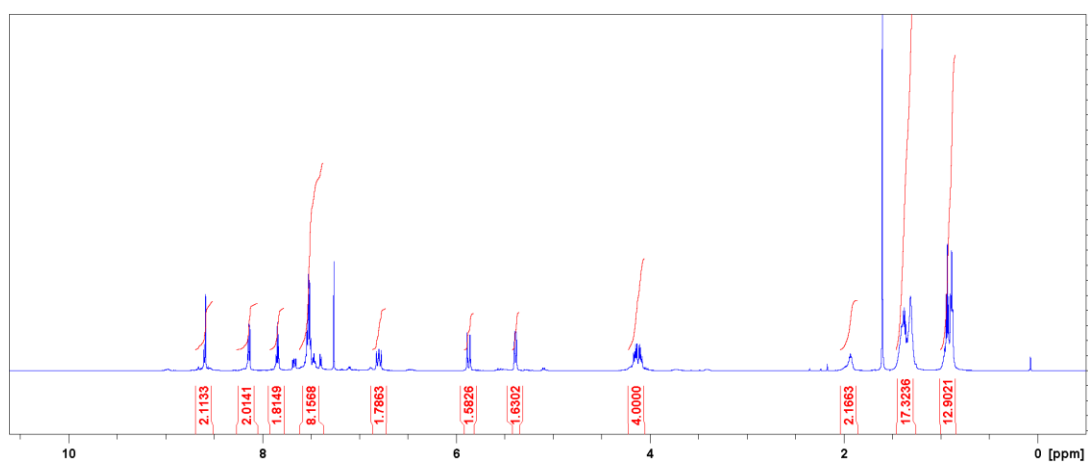


Figure S4. ¹H NMR spectrum of distyryl-di-EH-PDI in CDCl₃.

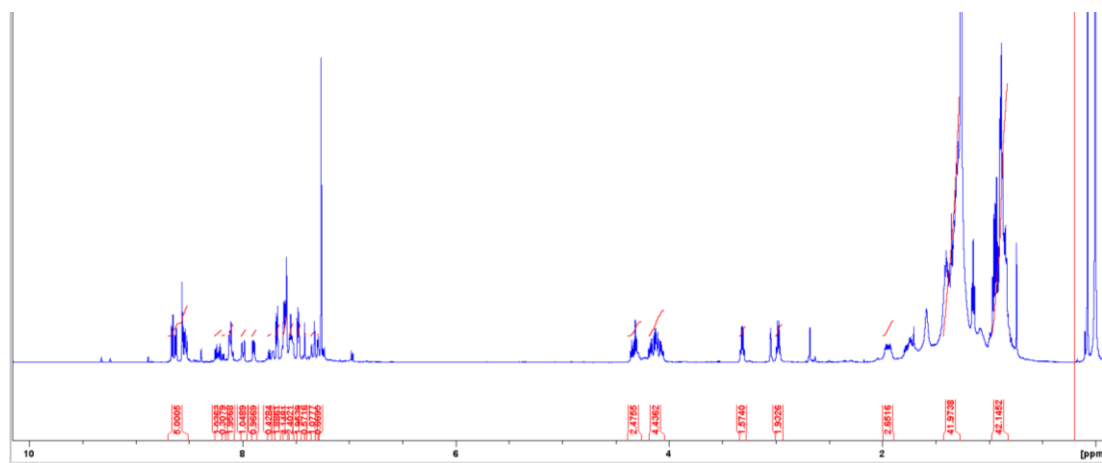


Figure S5. ¹H NMR spectrum of 5FQ-styryl-di-EH-PDI in CDCl₃.

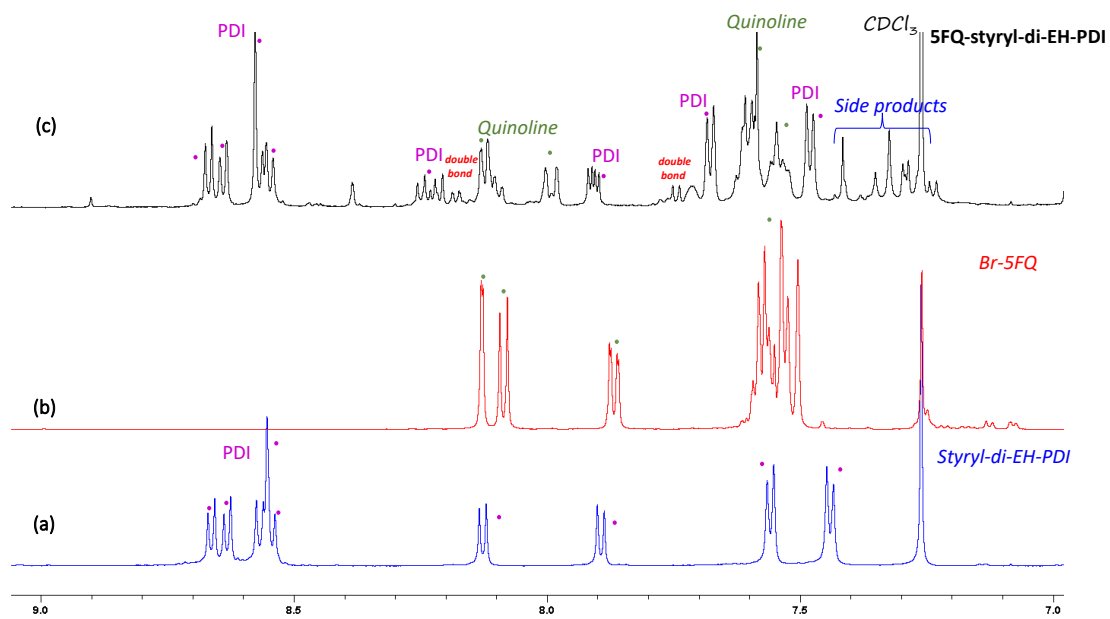


Figure S6: Enlarged aromatic region of ^1H NMR spectrum of 5FQ-styryl-di-EH-PDI in CDCl_3 .

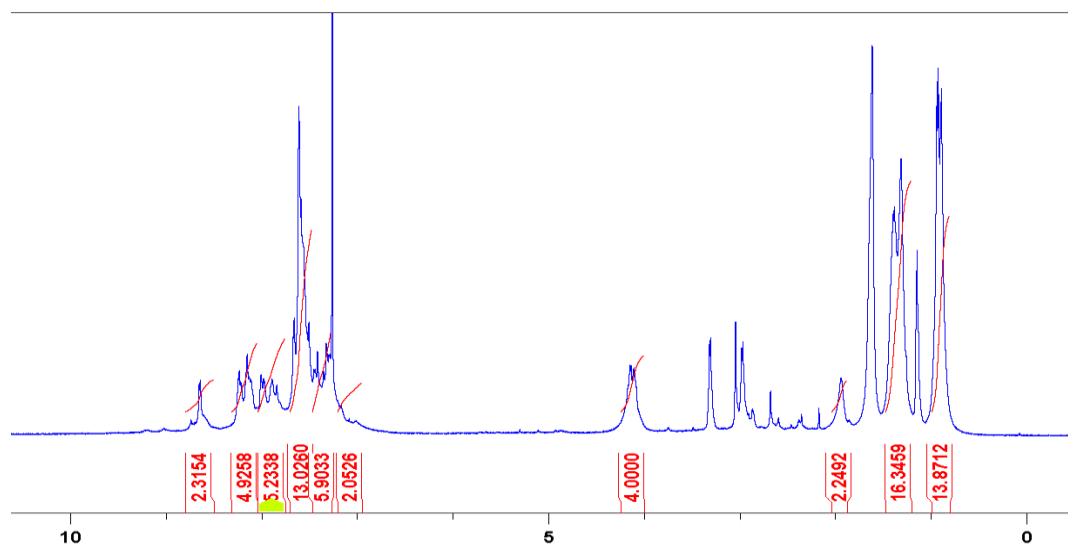


Figure S7. ^1H NMR spectrum of di5FQ-styryl-di-EH-PDI in CDCl_3 .

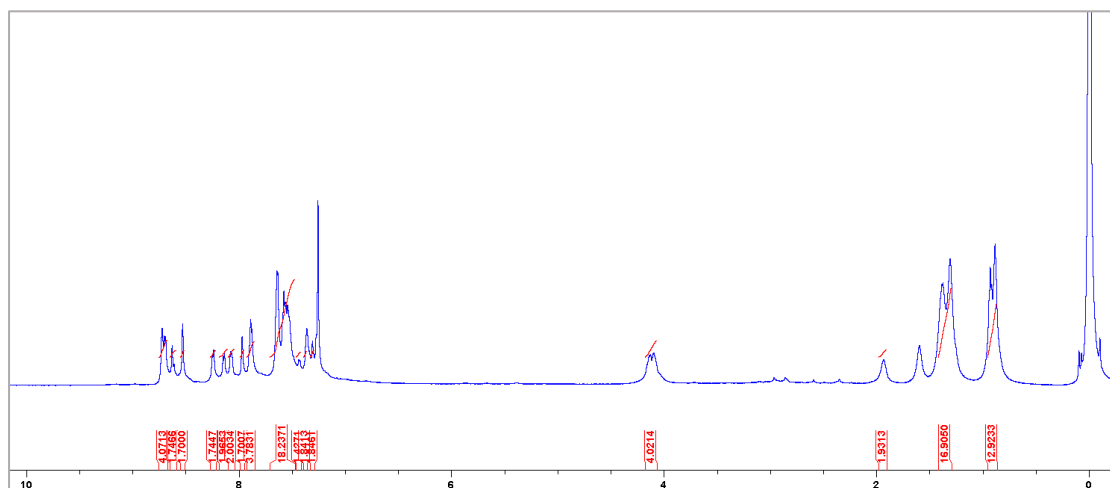


Figure S8. ^1H NMR spectrum of diQPy-styryl-di-EH-PDI in CDCl_3 .

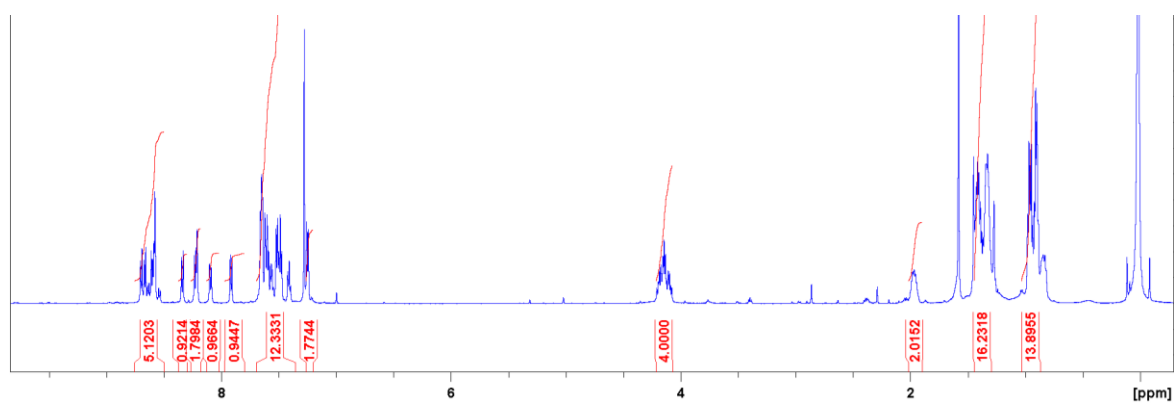


Figure S9. ^1H NMR spectrum of Ph5FQ-PhO-di-EH-PDI in CDCl_3 .

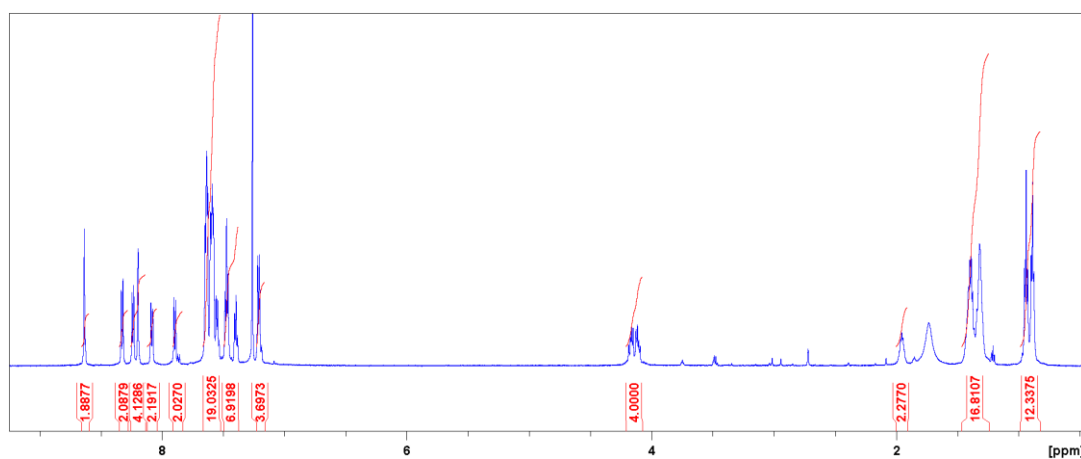


Figure S10. ^1H NMR spectrum of diPh5FQ-PhO-di-EH-PDI in CDCl_3 .

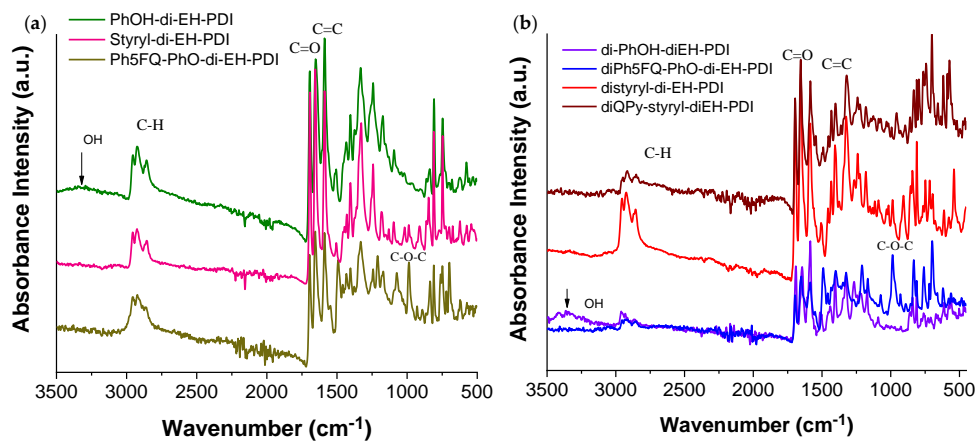


Figure S11. (a) ATR-IR spectra of mono substituted perylene diimides and (b) ATR-IR spectra of disubstituted perylene diimides.

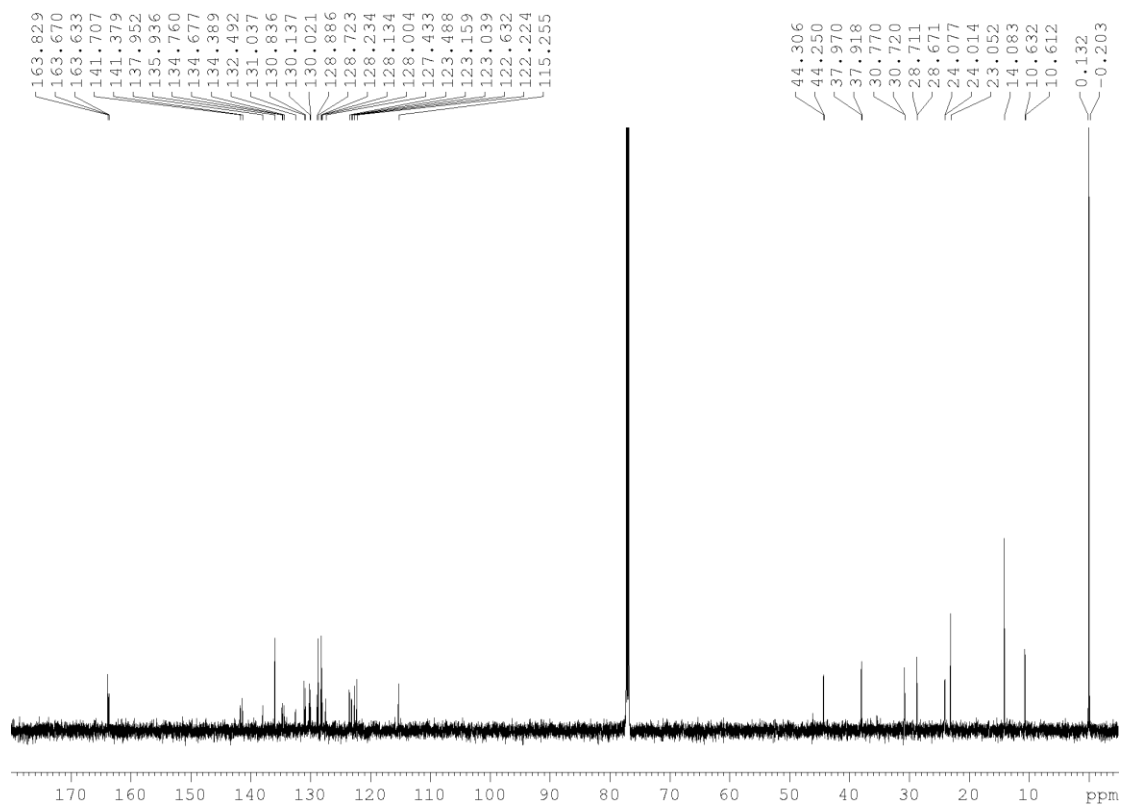


Figure S12. ^{13}C NMR spectrum of styryl-di-EH-PDI in CDCl_3 .

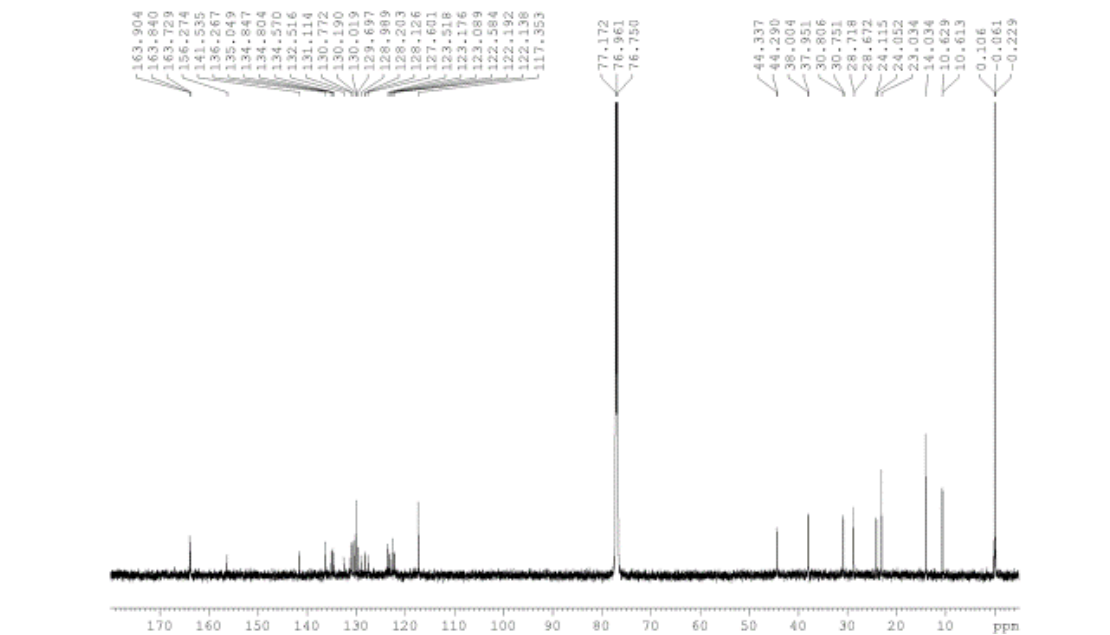


Figure S13. ^{13}C NMR spectrum of PhOH-di-EH-PDI in CDCl_3 .

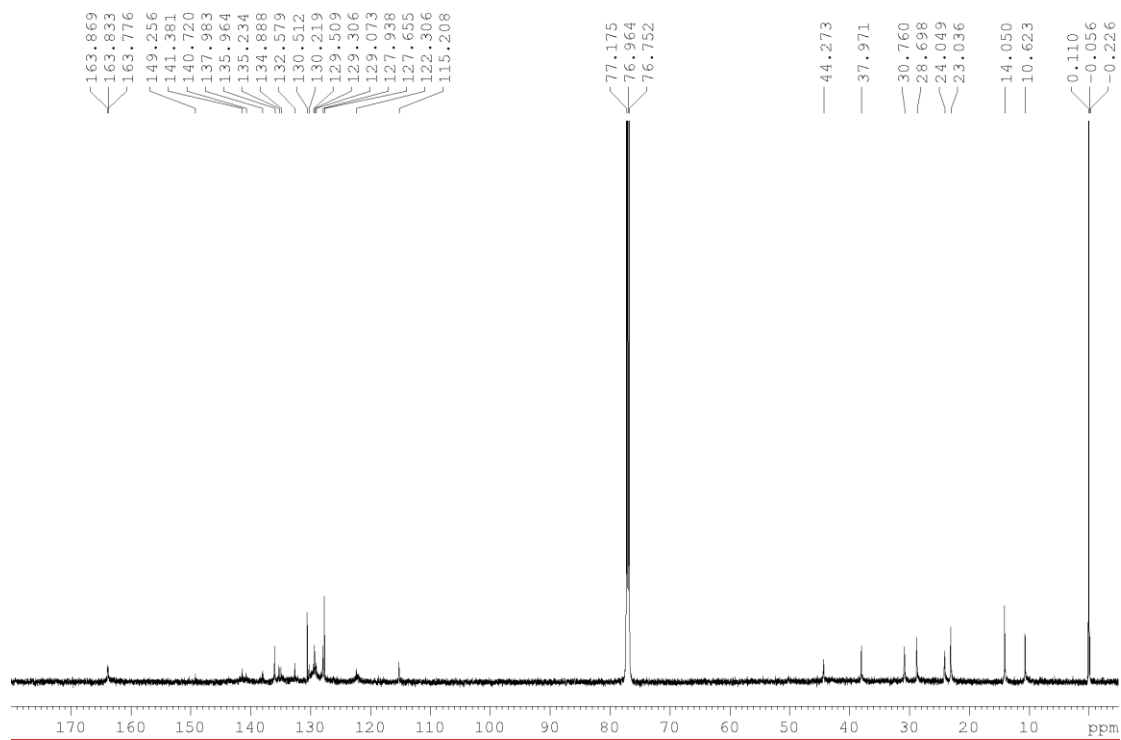


Figure S14. ¹³C NMR spectrum of distyryl-di-EH-PDI in CDCl₃.

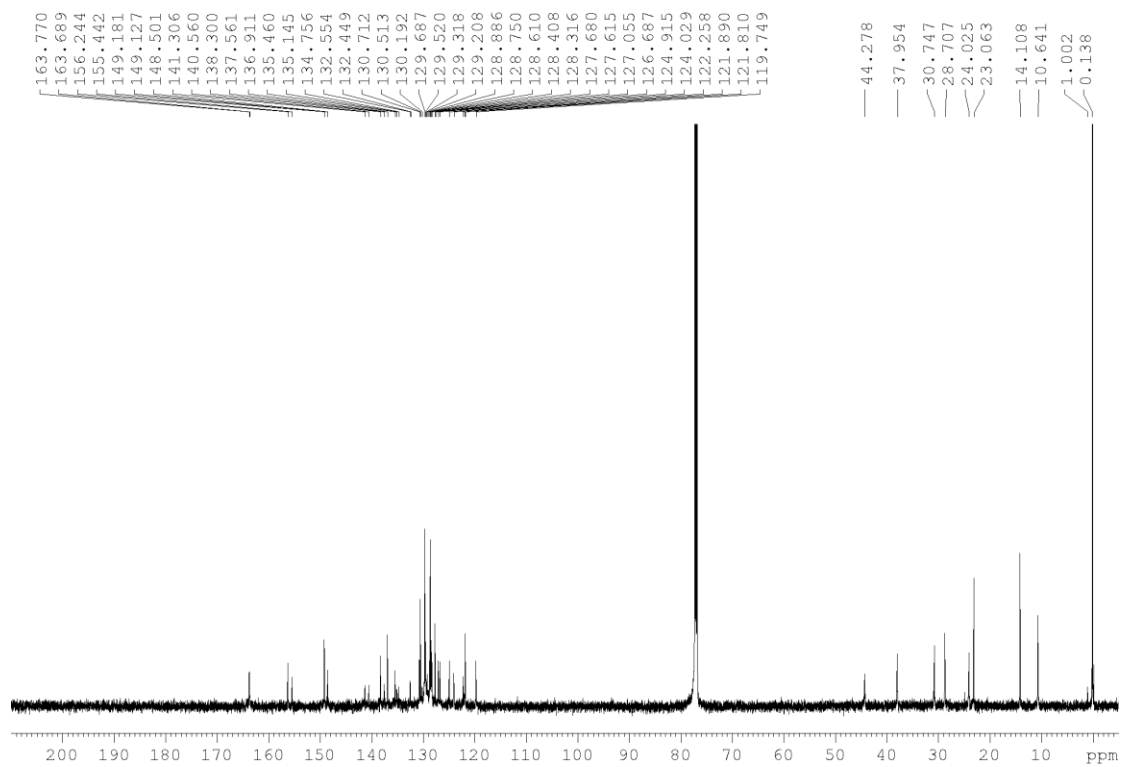


Figure S15. ¹³C NMR spectrum of diQPy-styryl-di-EH-PDI in CDCl₃.

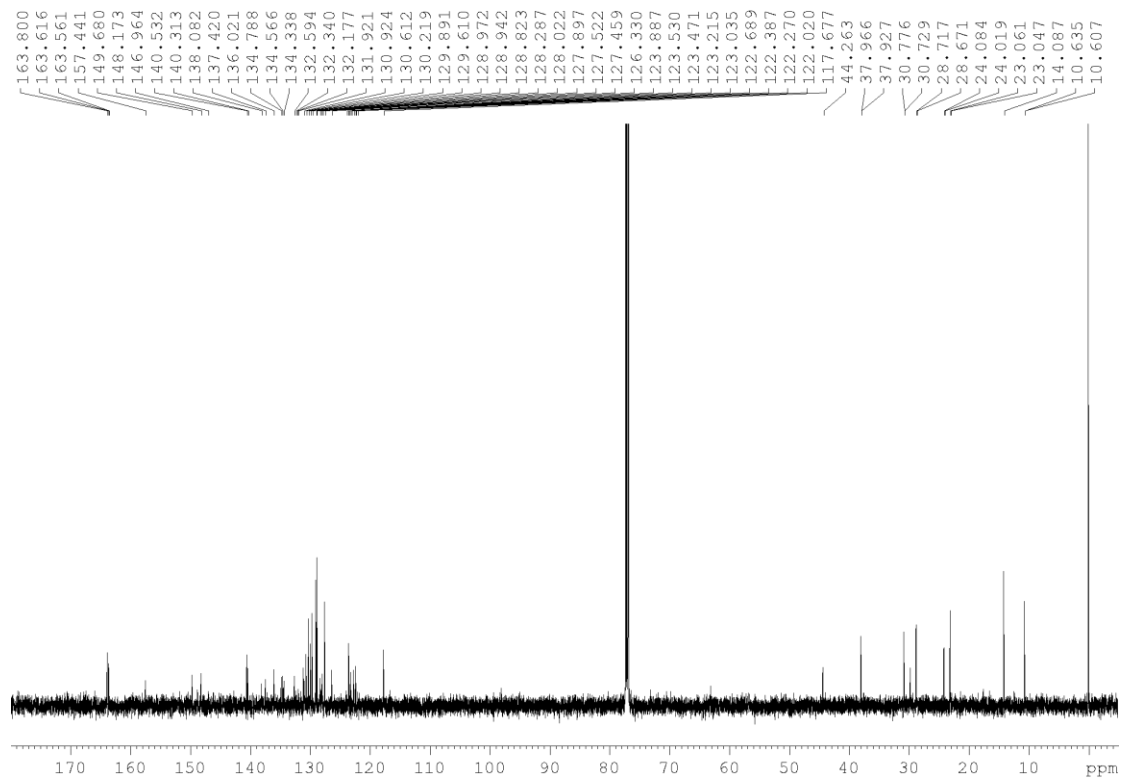


Figure S16. ^{13}C NMR spectrum of Ph5FQ-PhO-di-EH-PDI in CDCl_3 .

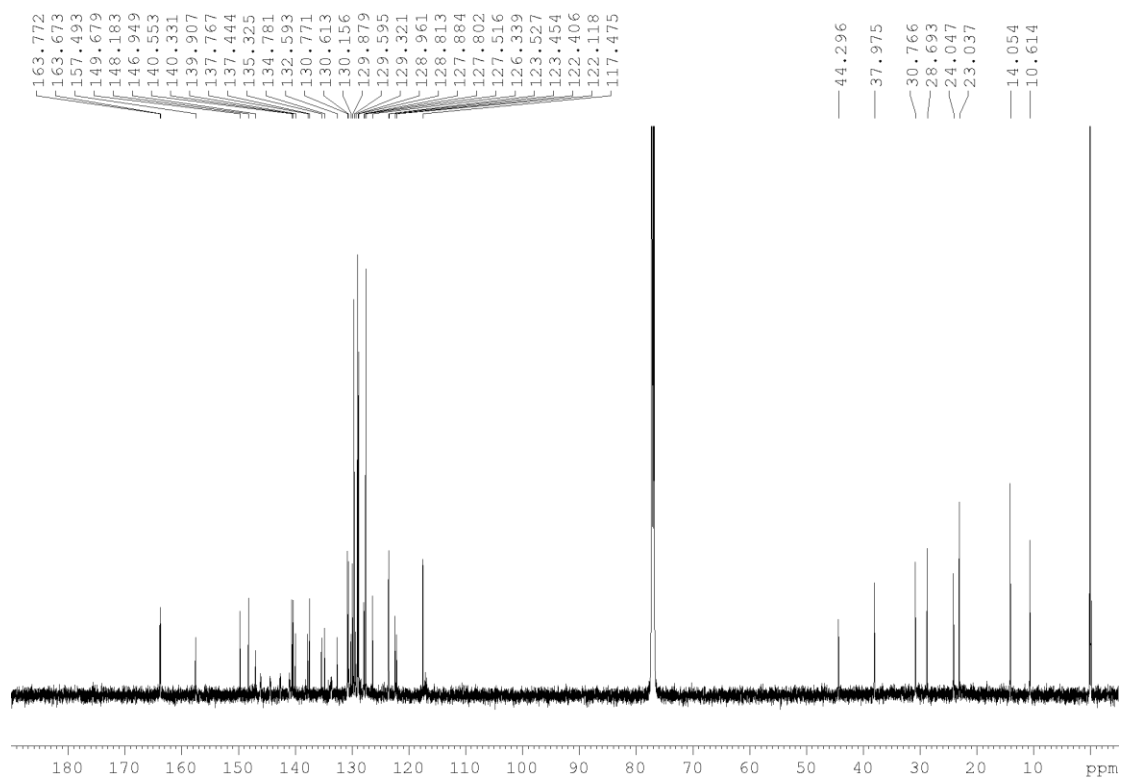


Figure S17. ^{13}C NMR spectrum of diPh5FQ-PhO-di-EH-PDI in CDCl_3 .

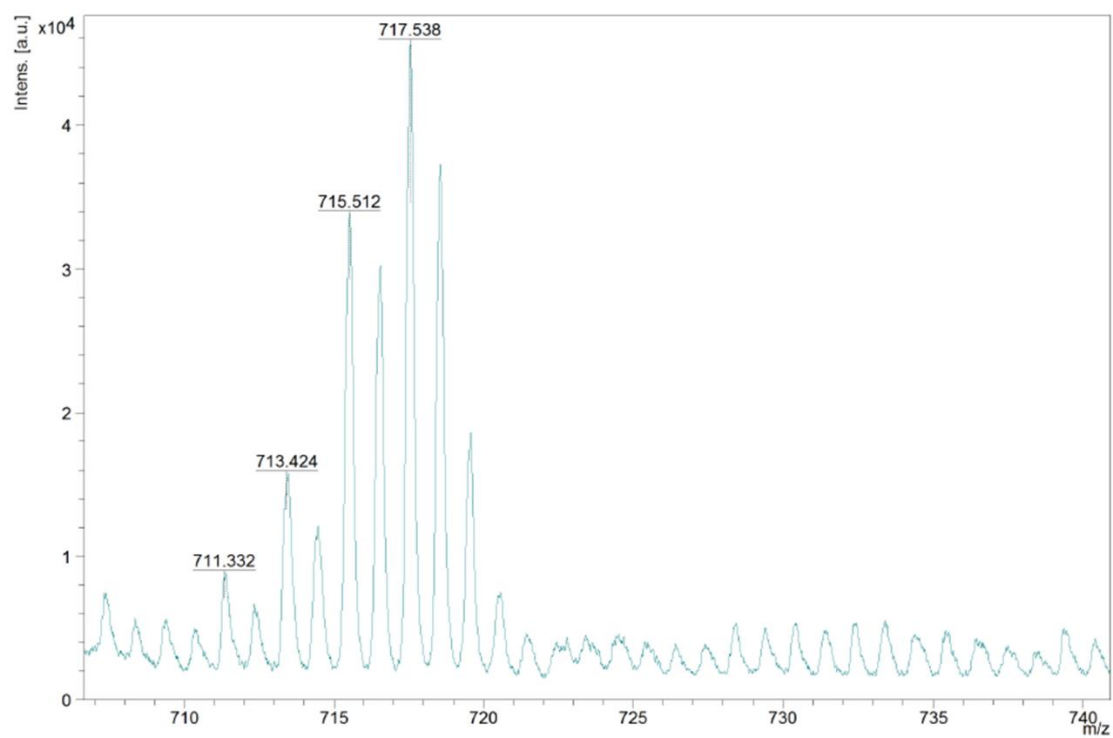


Figure S18 MALDI Spectrum of styryl-di-EH-PDI.

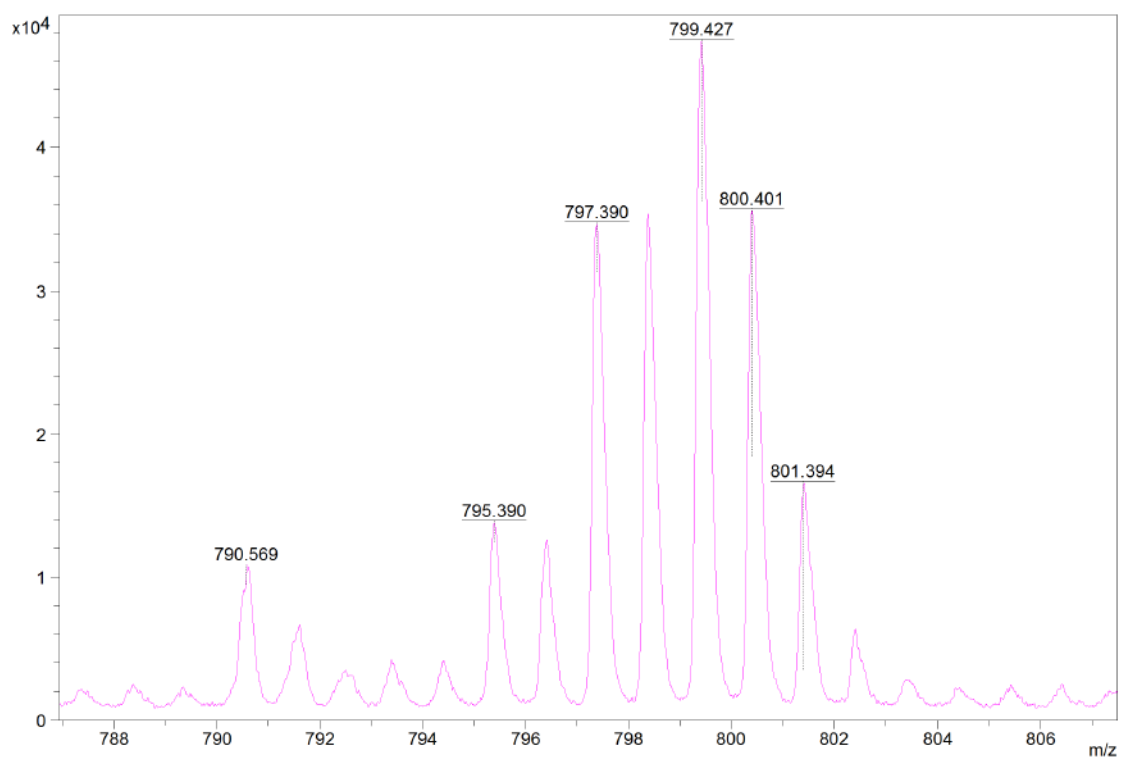


Figure S19. MALDI Spectrum of diPhOH-di-EH-PDI.

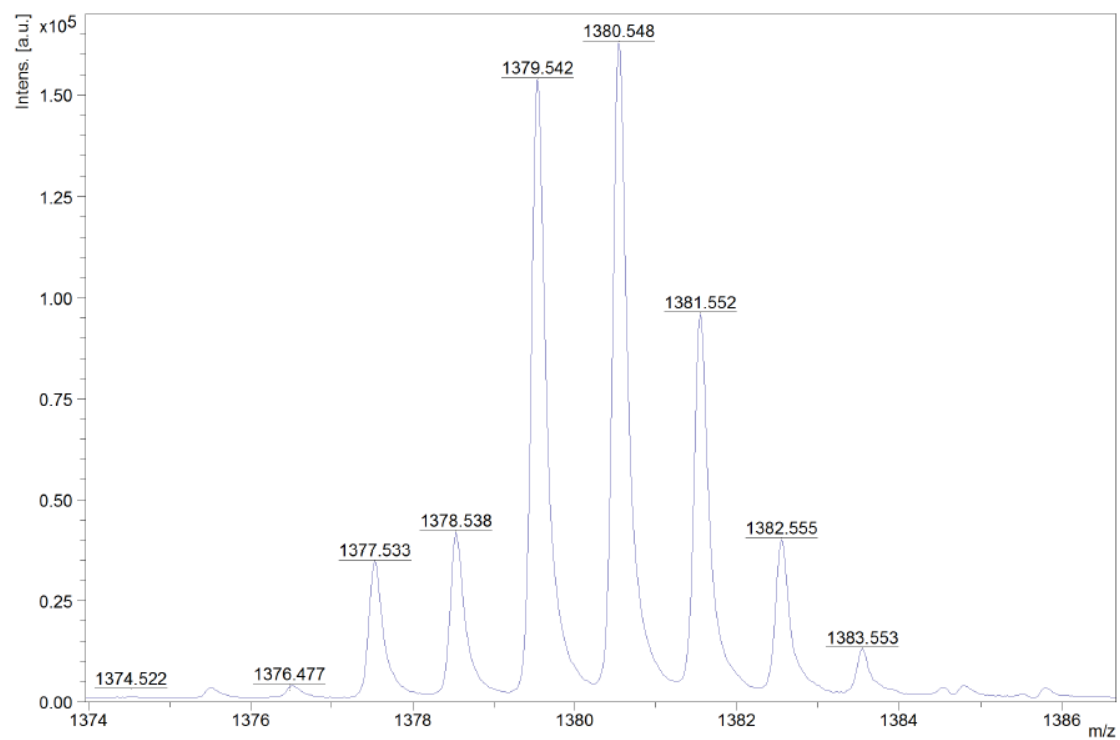


Figure S20. MALDI Spectrum of diQPpy-styryl-di-EH-PDI.

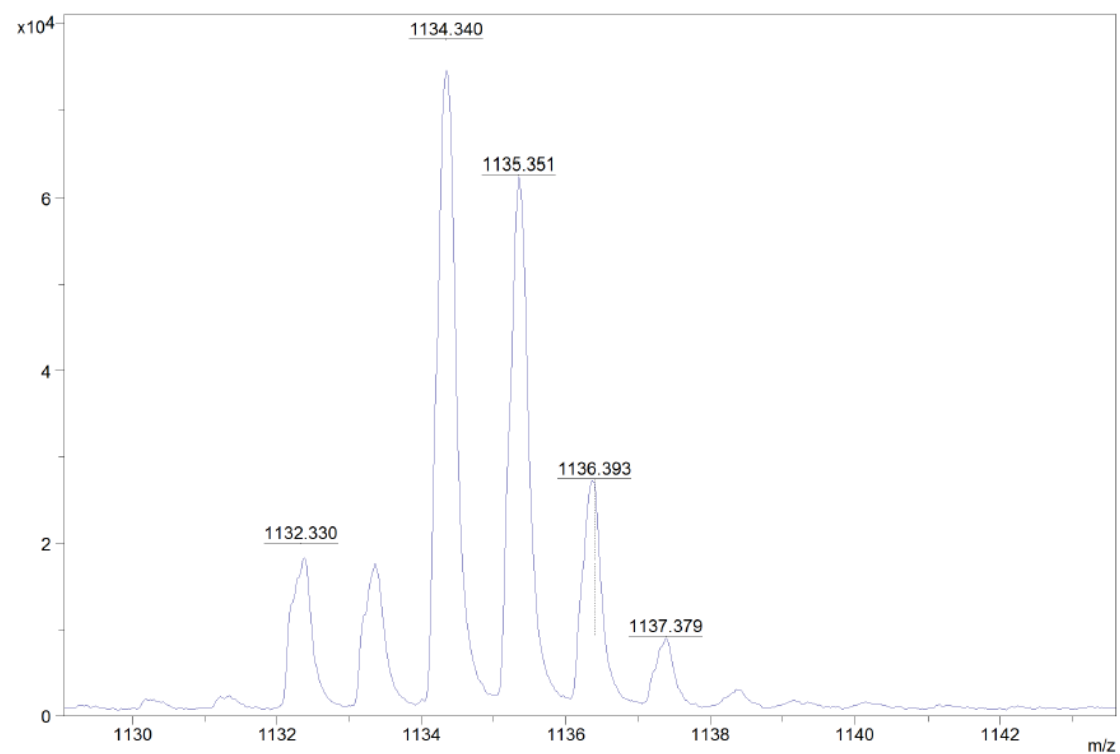


Figure S21. MALDI Spectrum of Ph5FQ-PhO-di-EH-PDI.

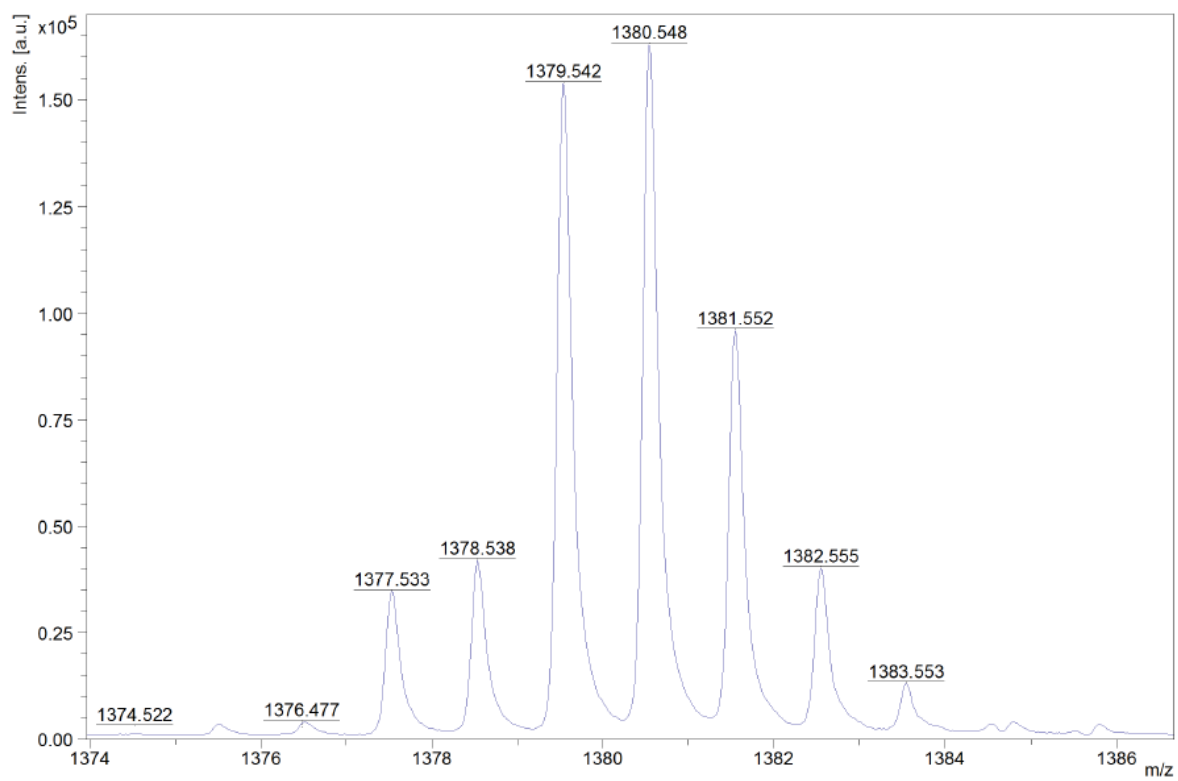


Figure S22. MALDI spectrum of diPh5FQ-PhO-di-EH-PDI.