

Supporting Information

Thiophenoazomethines: Electrochromic Materials Exhibiting Visible-to-Near-IR Color Changes and Tuneable Colors Contingent on Degree of Conjugation

Satyananda Barik,^{1,2†} Daminda Navarathne,^{1†} Maxence LeBorgne,^{1,3} W. G. Skene^{1*}

¹Laboratoire de caractérisation photophysique des matériaux conjugués
Département de Chimie, Pavillon JA Bombardier,
Université de Montréal, CP 6128, succ. Centre-ville,
Montréal, Québec, Canada H3C 3J7

²Current address: Institute of Chemical and Engineering Sciences
1 Pesek Road, Jurong Island
Singapore-627833
Singapore

³Current address: Département de chimie
Institut Universitaire de Technologie Besançon-Vesoul
30 Avenue de l'Observatoire - BP 1559 – 25009
Besançon cedex France

[†]Contributed equally to the manuscript

Corresponding Author Email: w.skene@umontreal.ca

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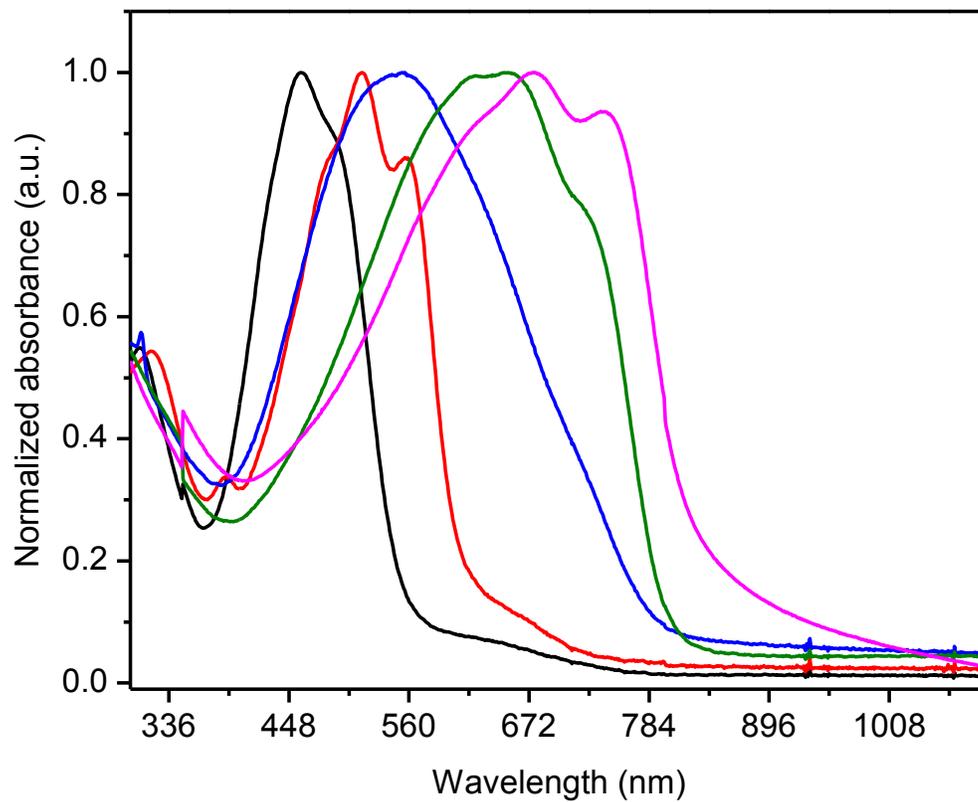


Figure S1. Absorbance spectra of thin-film of **7** (—), **8** (—), **9** (—), **10** (—) and **11** (—) on glass substrates.

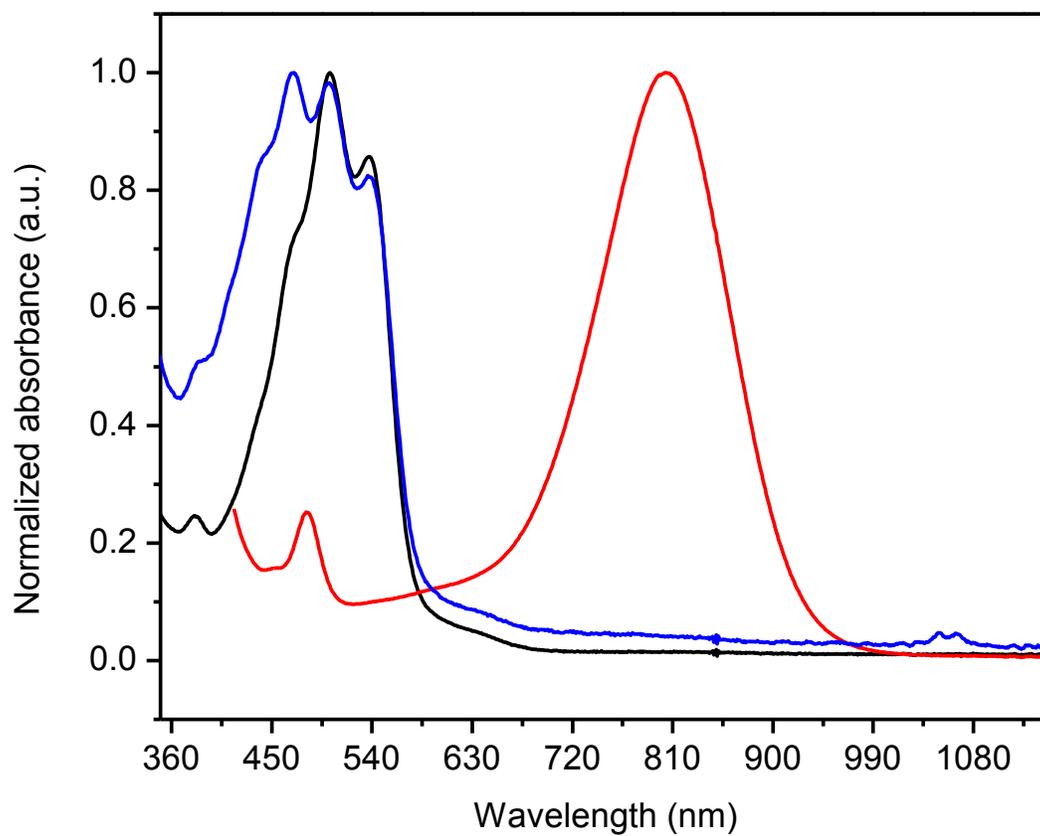


Figure S2. Absorbance spectra of neutral **8** (—) in solution recorded with the addition of FeCl₃ (—) followed by the addition of hydrazine hydrate (—).

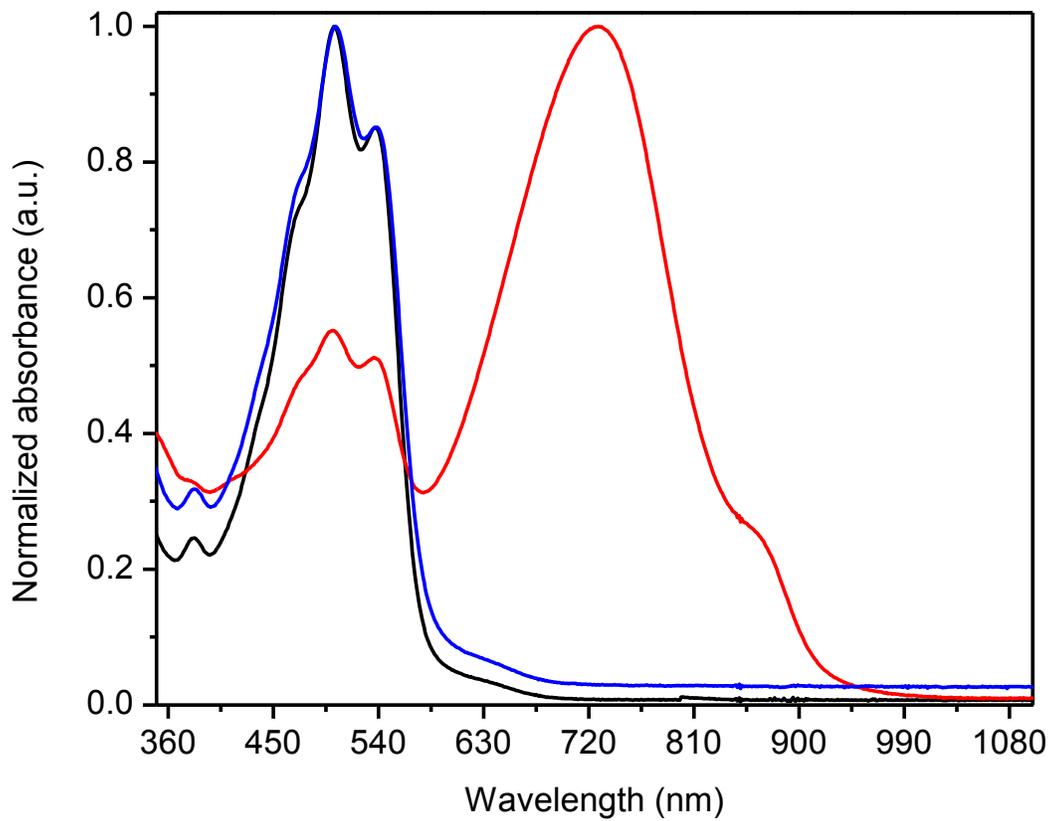


Figure S3. Absorbance spectra of **8** (—) with the addition of trifluoroacetic acid (—) followed by the addition of triethylamine (—).

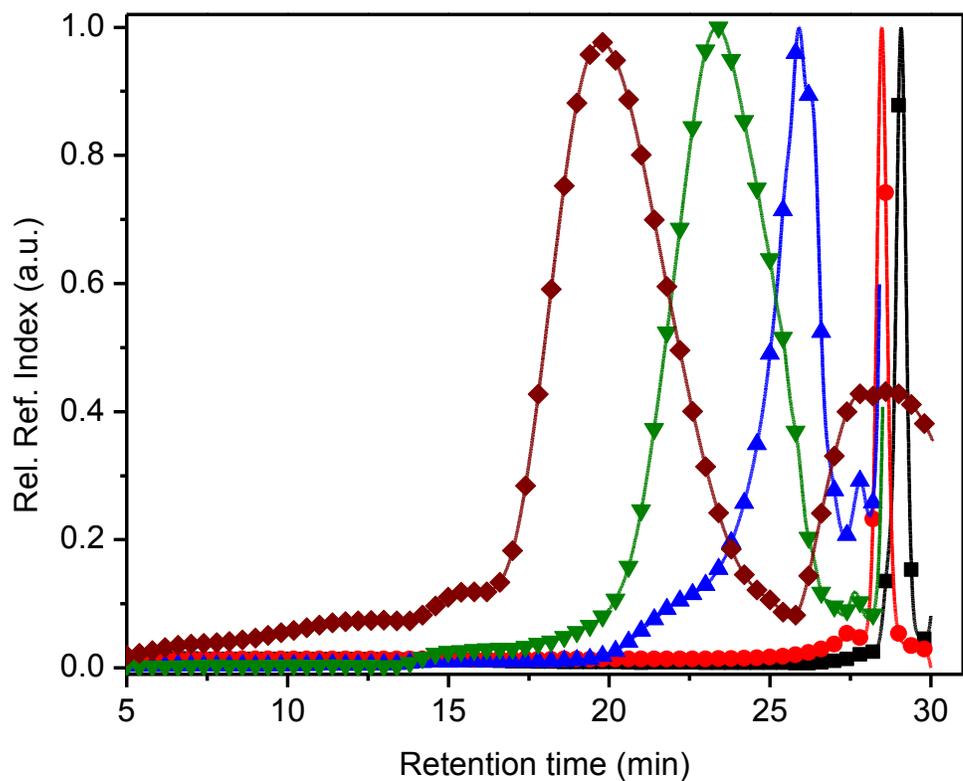


Figure S4. Gel permeation chromatograms of **7** (■), **8** (●), **9** (▲), **10** (▼) and **11** (◆) measured in THF.

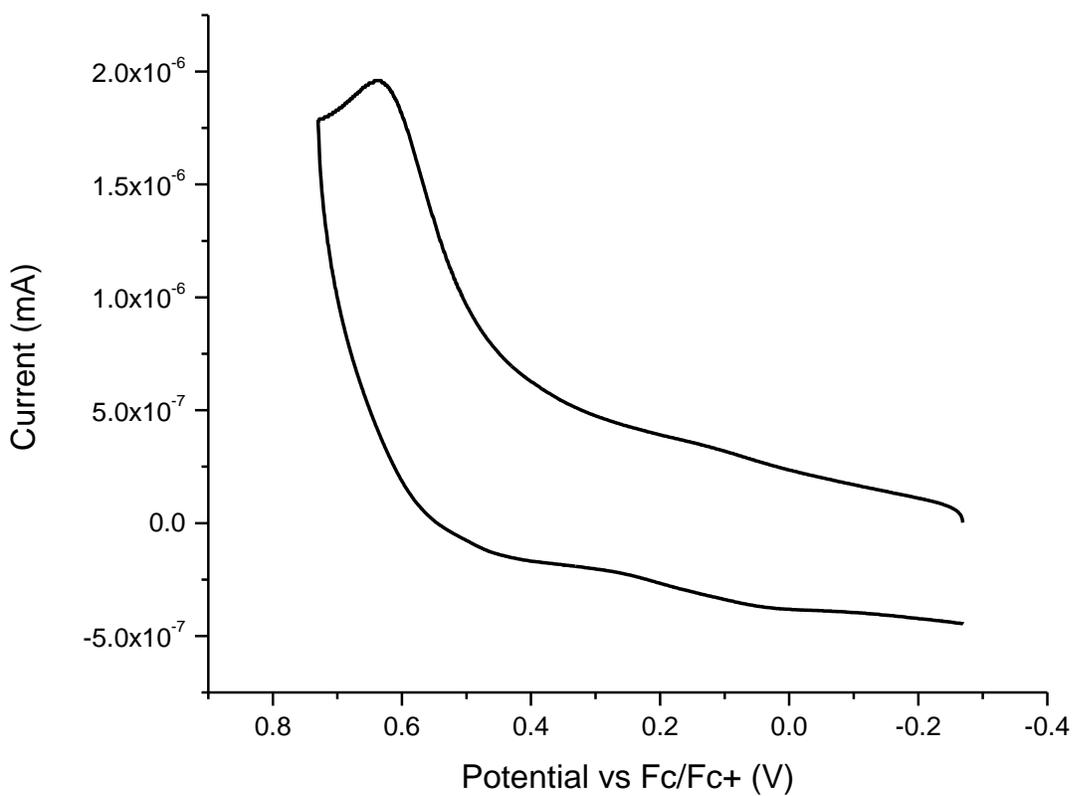


Figure S5. Anodic cyclic voltammograms of **9** measured in dichloromethane with TBAPF₆ as the supporting electrolyte.

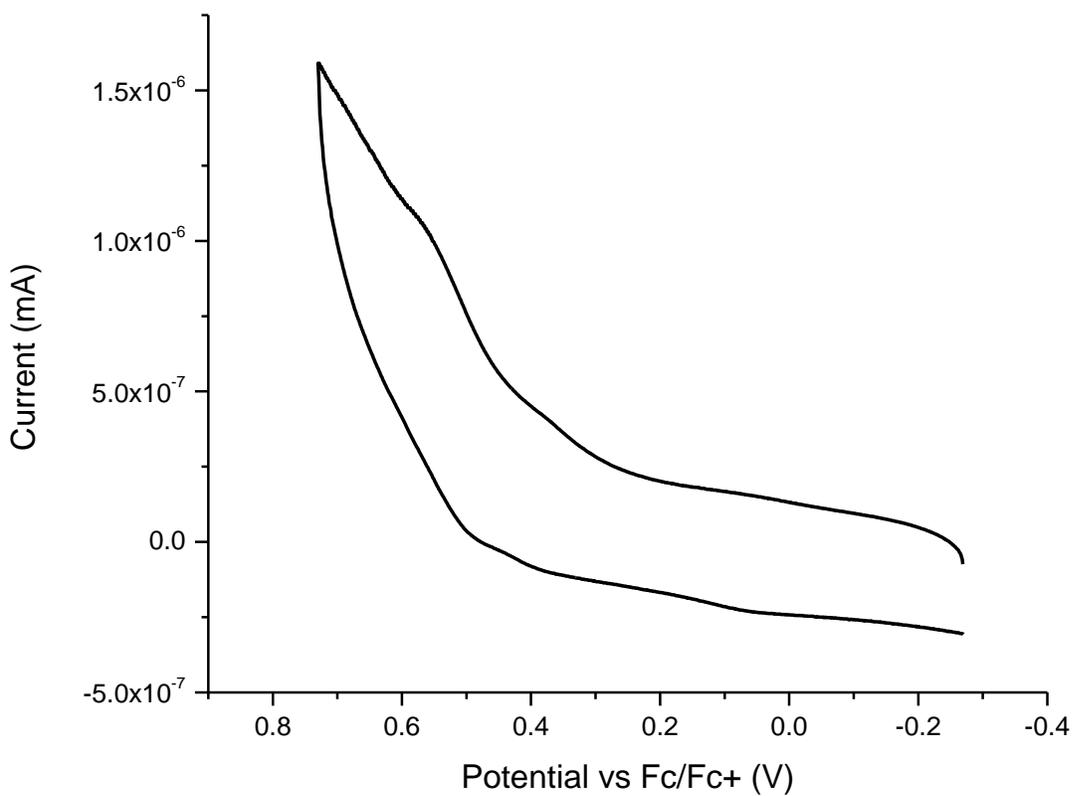


Figure S6. Anodic cyclic voltammograms of **10** measured in dichloromethane with TBAPF₆ as the supporting electrolyte.

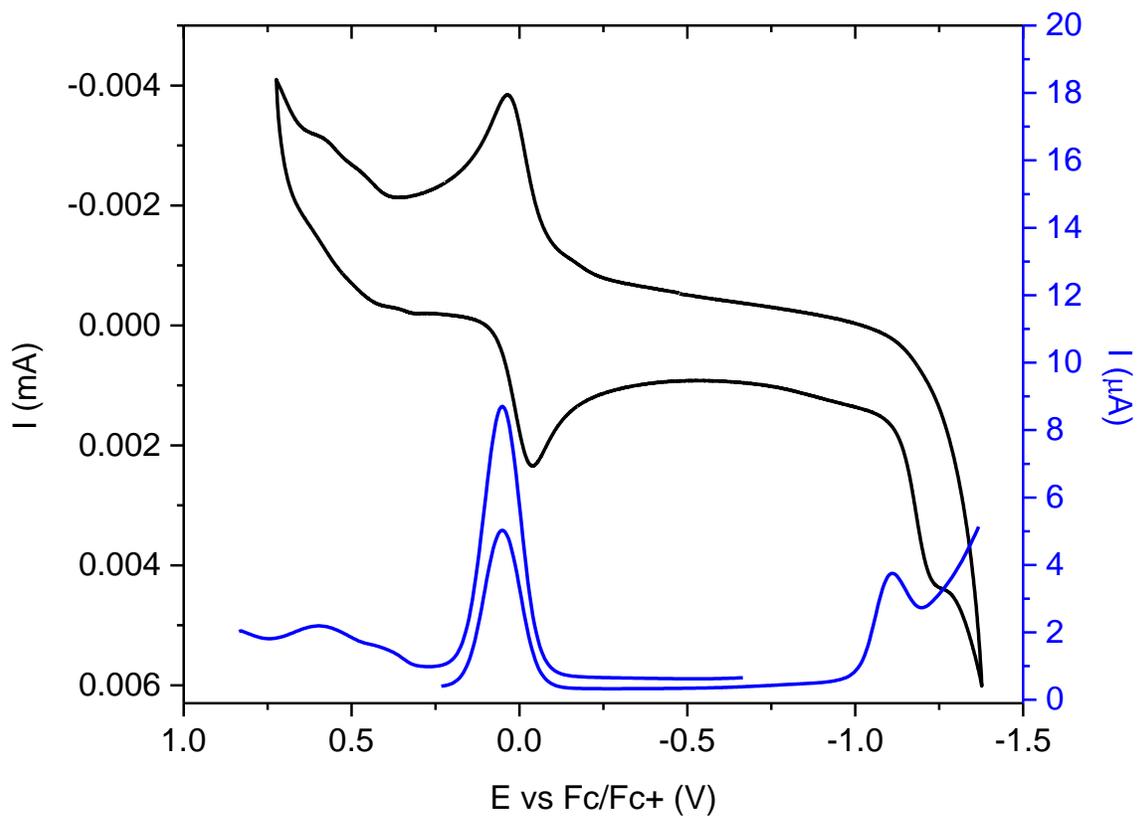


Figure S7. Cyclic voltammogram (—) and differential pulse voltammograms (—) of **11** in 10^{-4} M polymer solution in 0.1 M TBAPF₆/dichloromethane with ferrocene as the internal standard. The potentials are reported against Fc/Fc^+ .

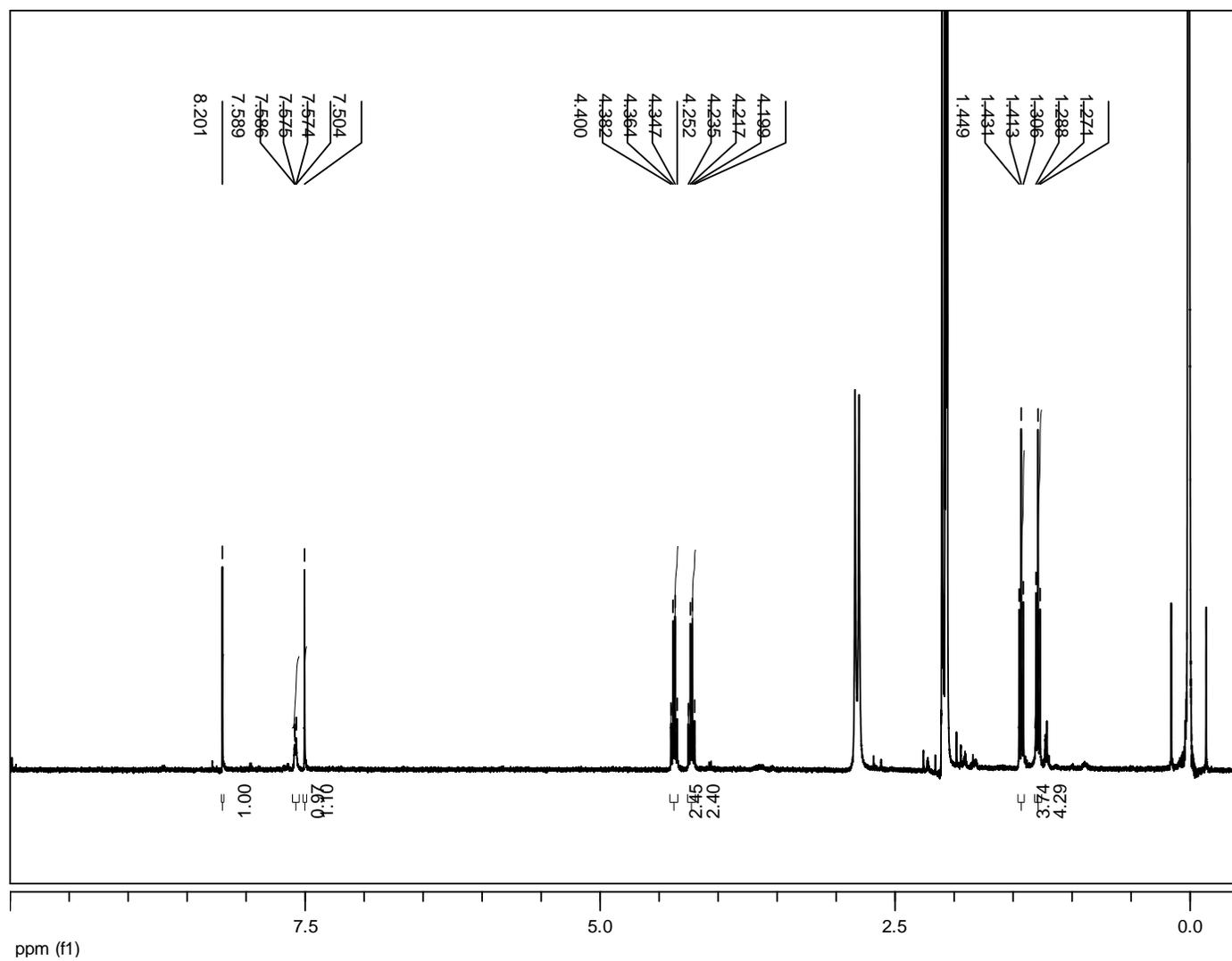


Figure S8. ^1H NMR spectrum of **1** recorded in acetone- d_6 .

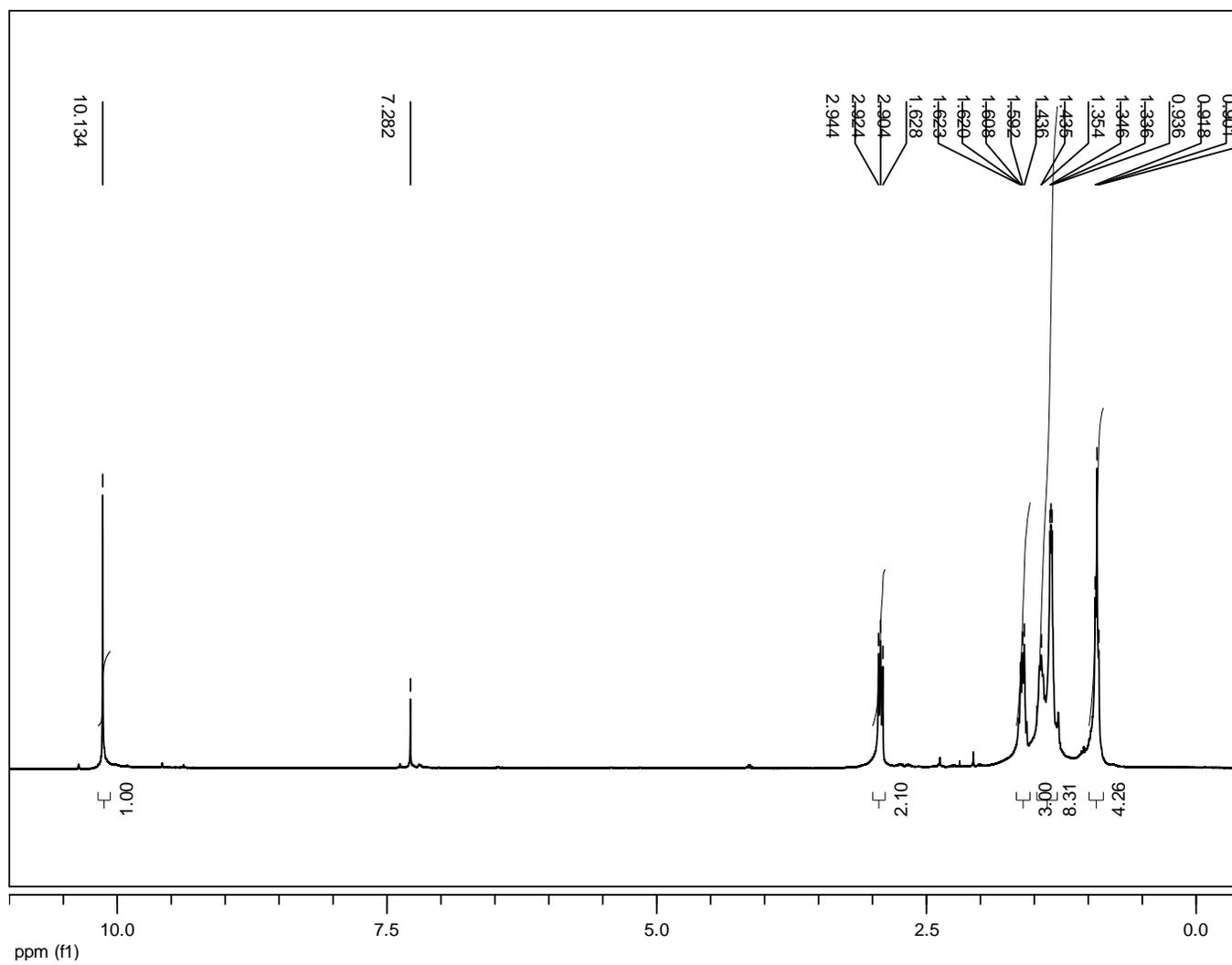


Figure S9. ^1H NMR spectrum of **3** recorded in CDCl_3 .

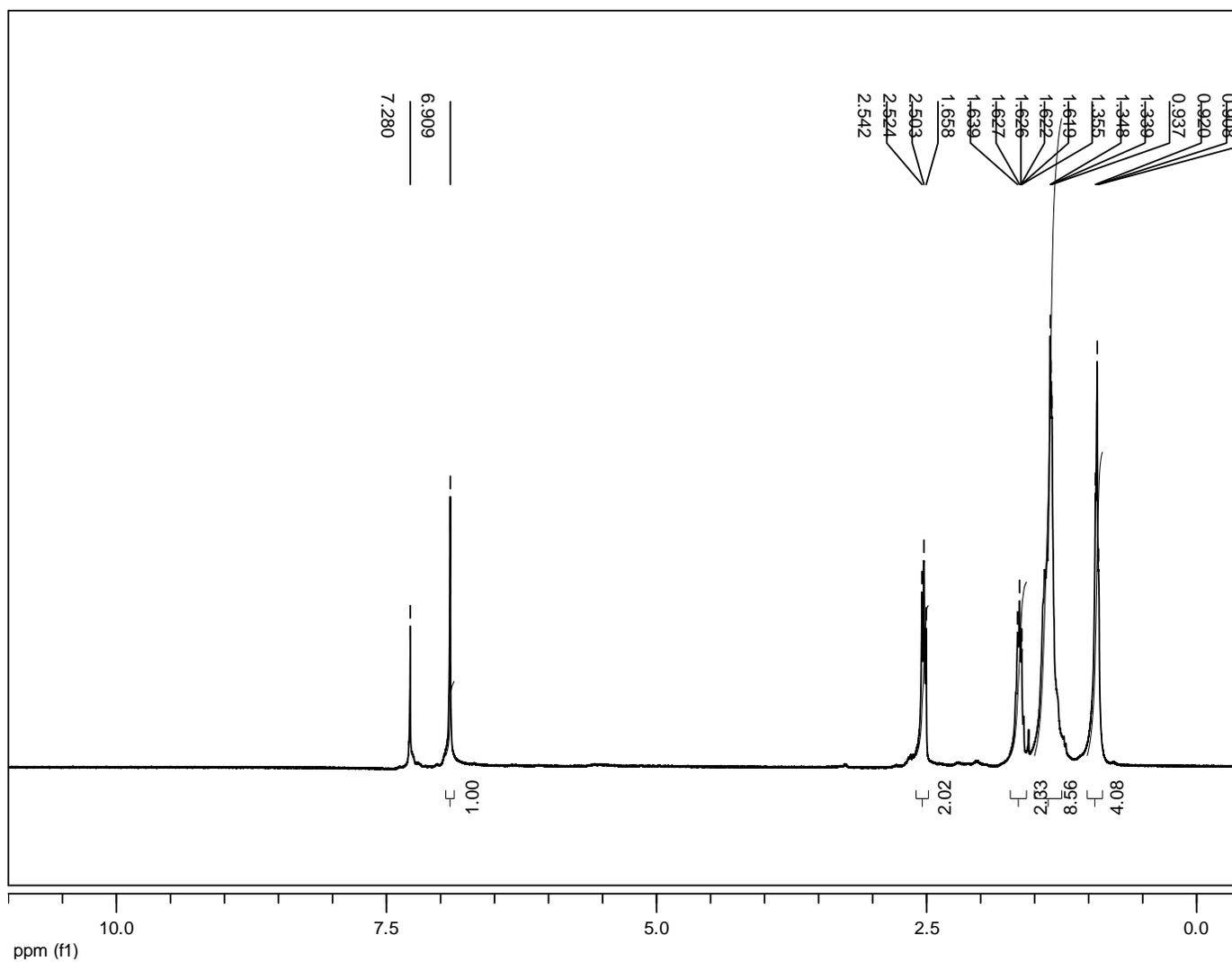


Figure S10. ¹H NMR spectrum of **6** recorded in CDCl₃.

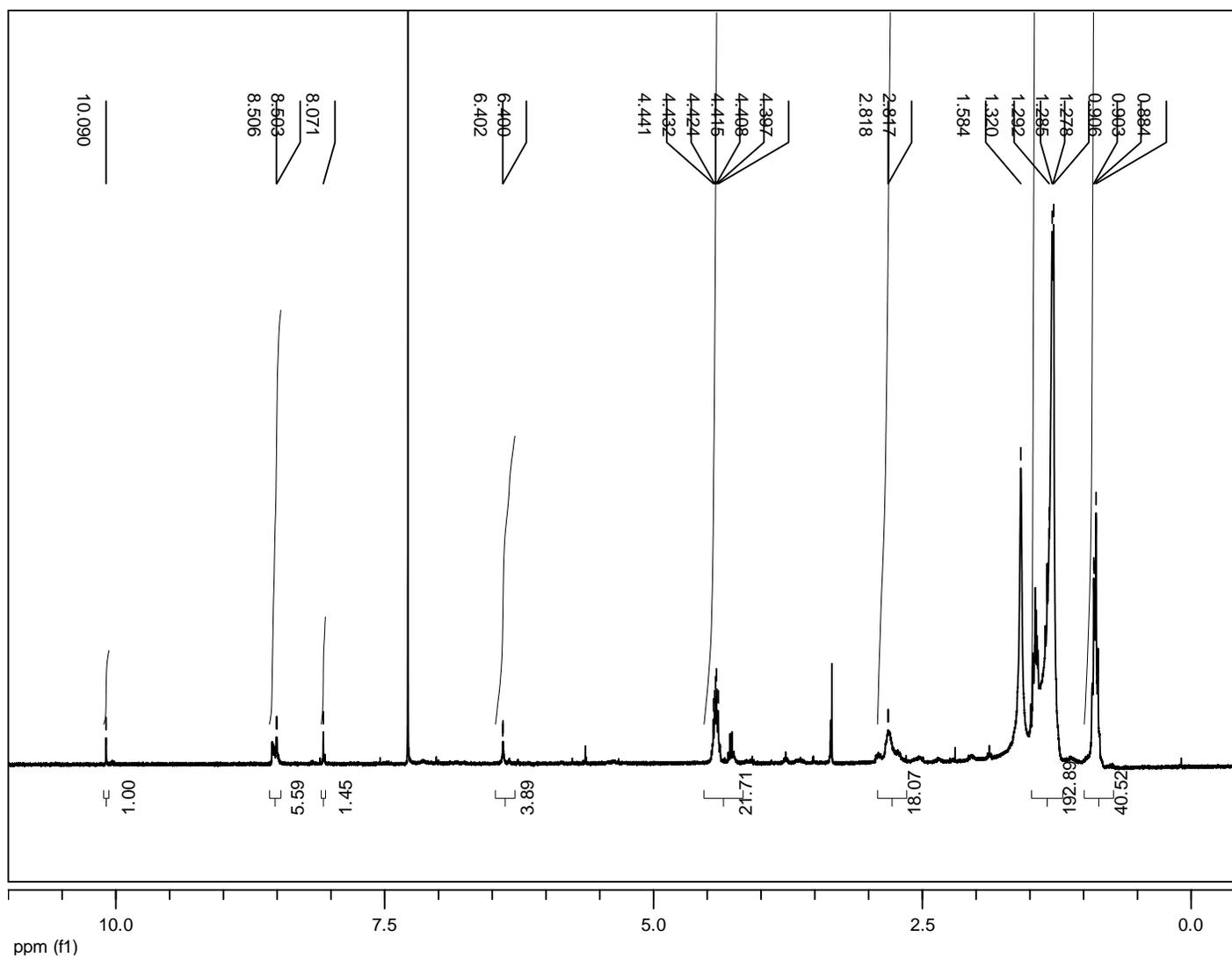


Figure S11. ¹H NMR spectrum of **9** recorded in CDCl₃.

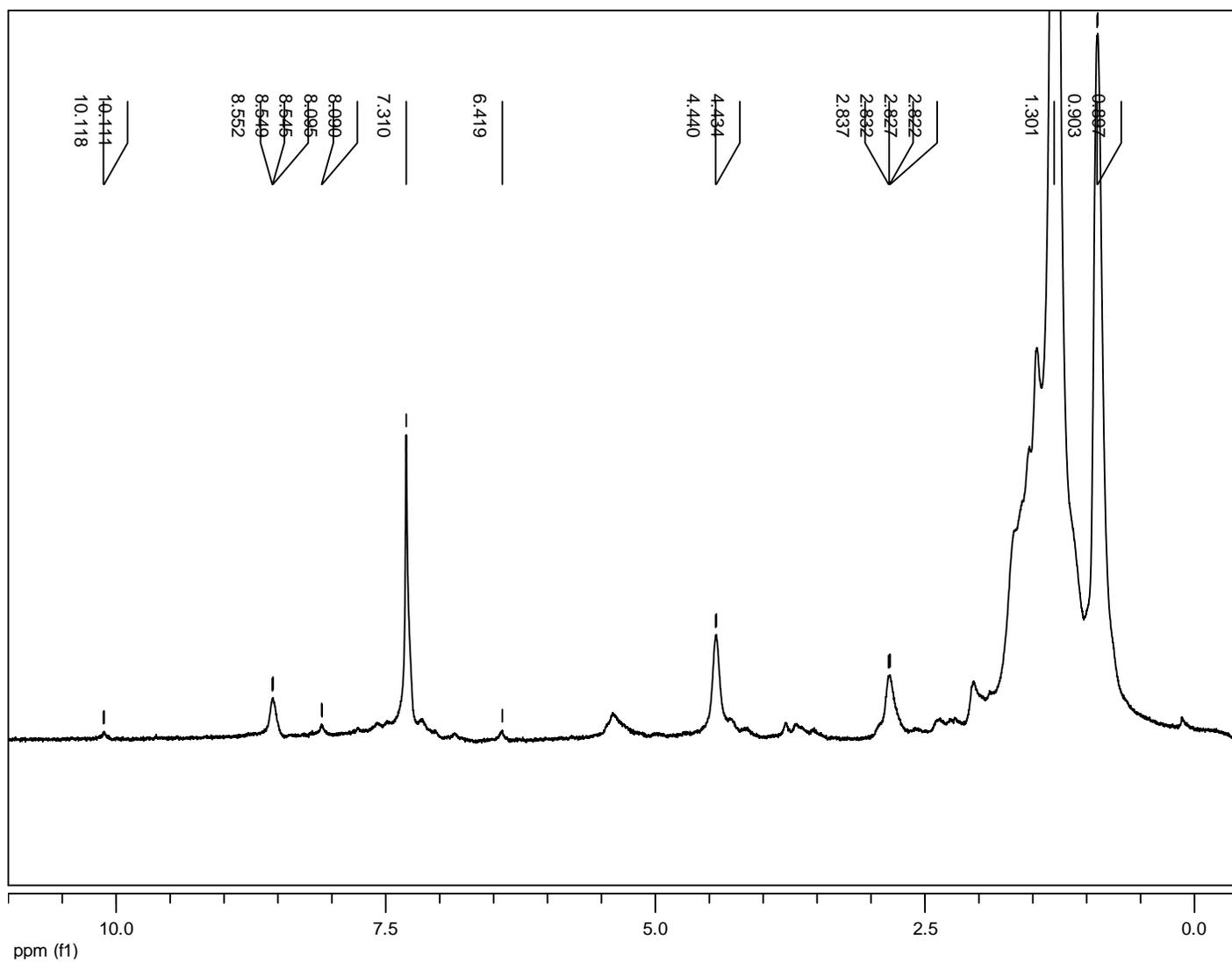


Figure S12. ¹H NMR spectrum of **10** measured in CDCl₃.

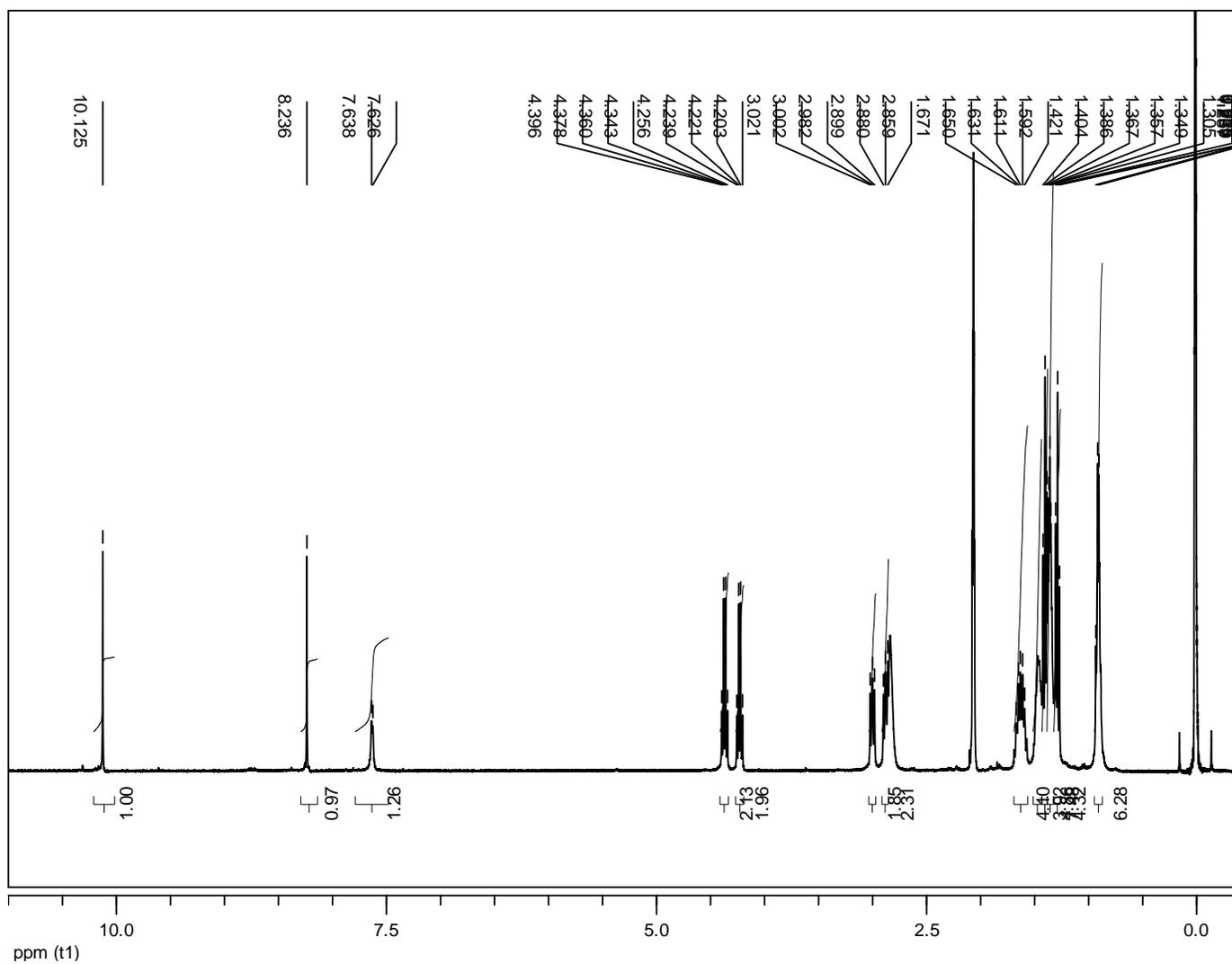


Figure S13. ¹H NMR spectrum of **7** recorded in acetone-d₆.

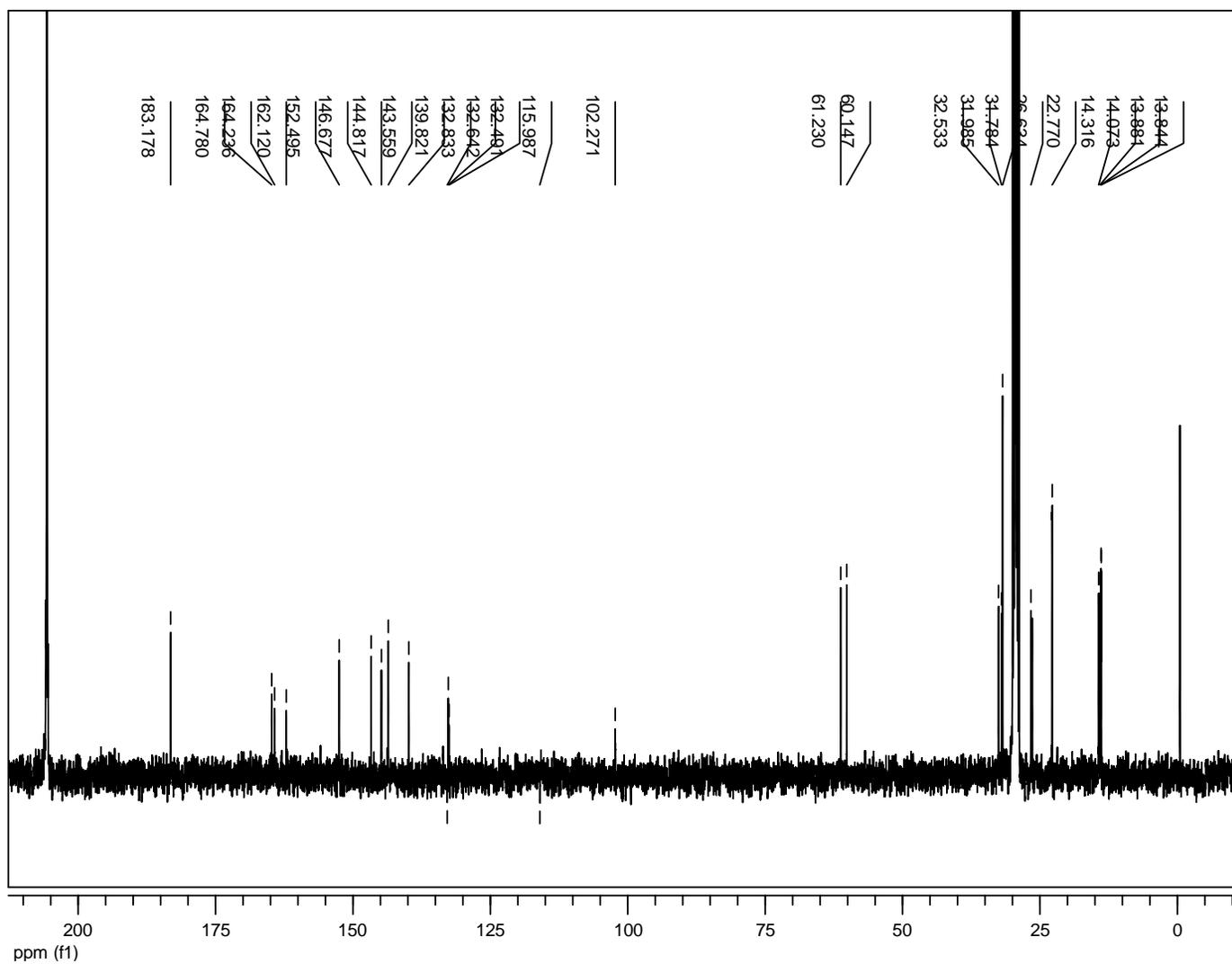


Figure S14. ^{13}C NMR spectrum of **7** recorded in acetone- d_6 .

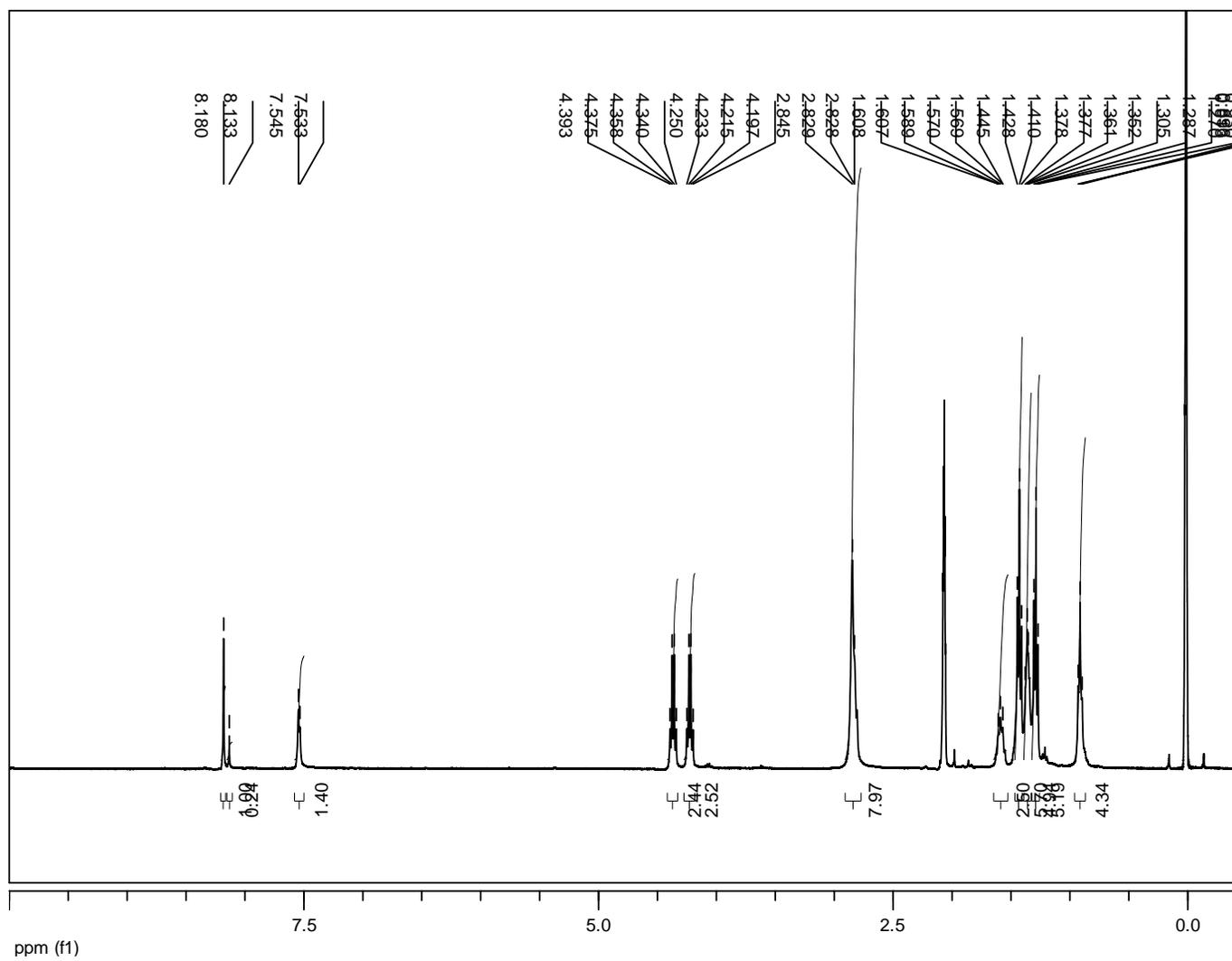


Figure S15. ^1H NMR spectrum of **8** recorded in acetone- d_6 .

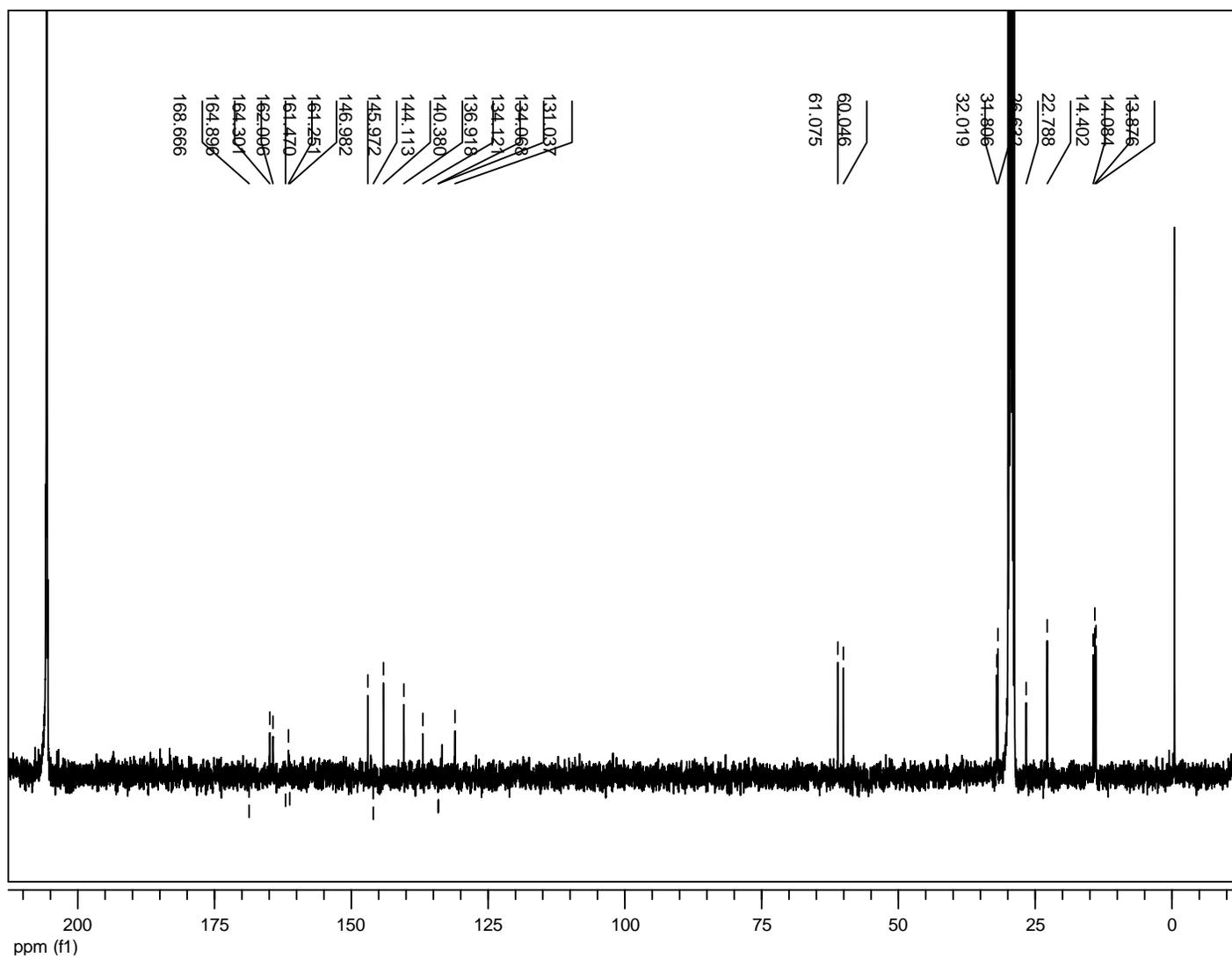


Figure S16. ^{13}C NMR spectrum of **8** recorded in acetone- d_6 .

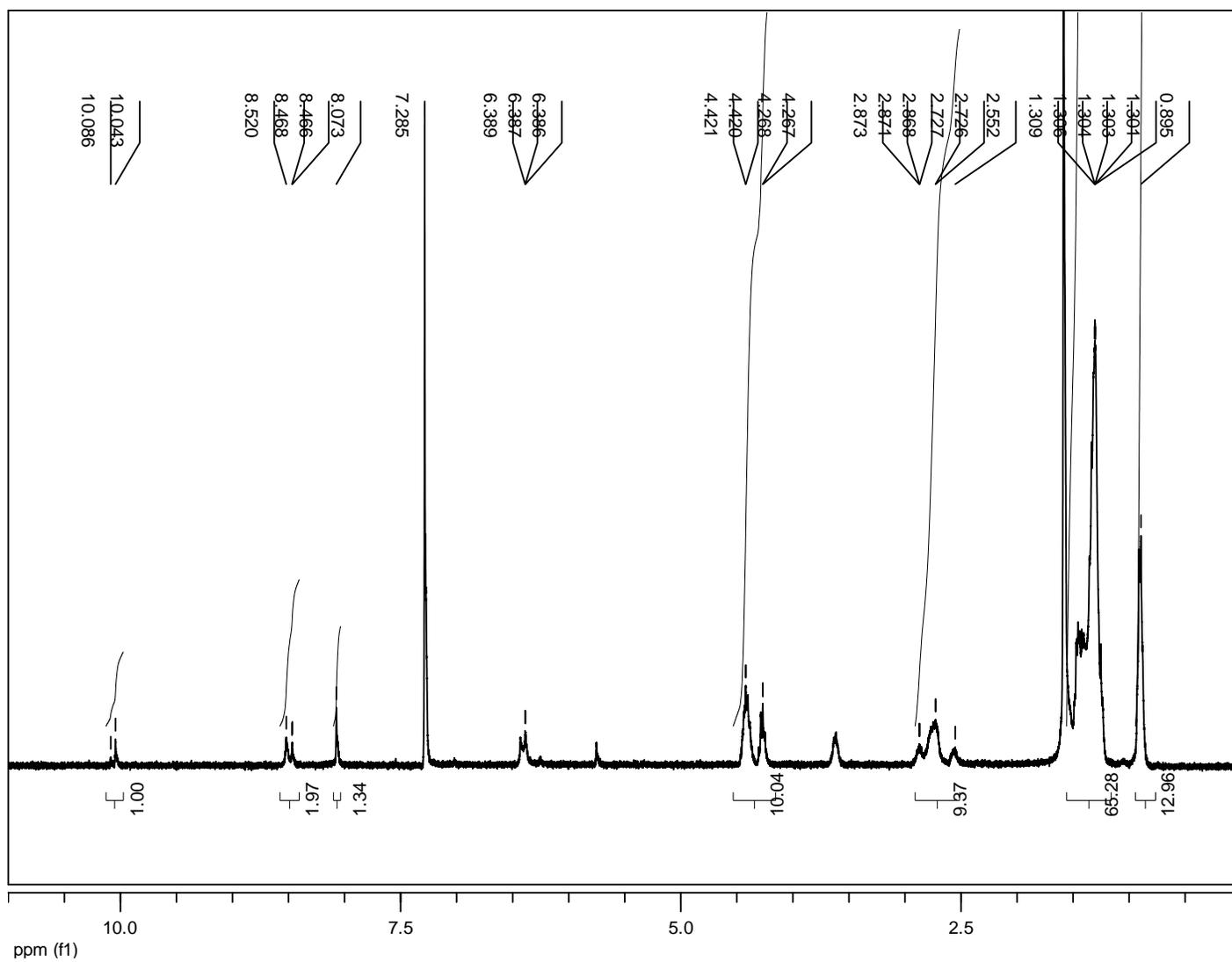


Figure S17. ^1H NMR spectrum of **11** recorded in acetone- d_6 .