

Supplementary Material

Copper-catalyzed tandem reaction of cyclic esterification/selenoxidation for 11-oxo-11H-5-oxa-11-selena-benzo[*a*] fluoren-6-ones synthesis

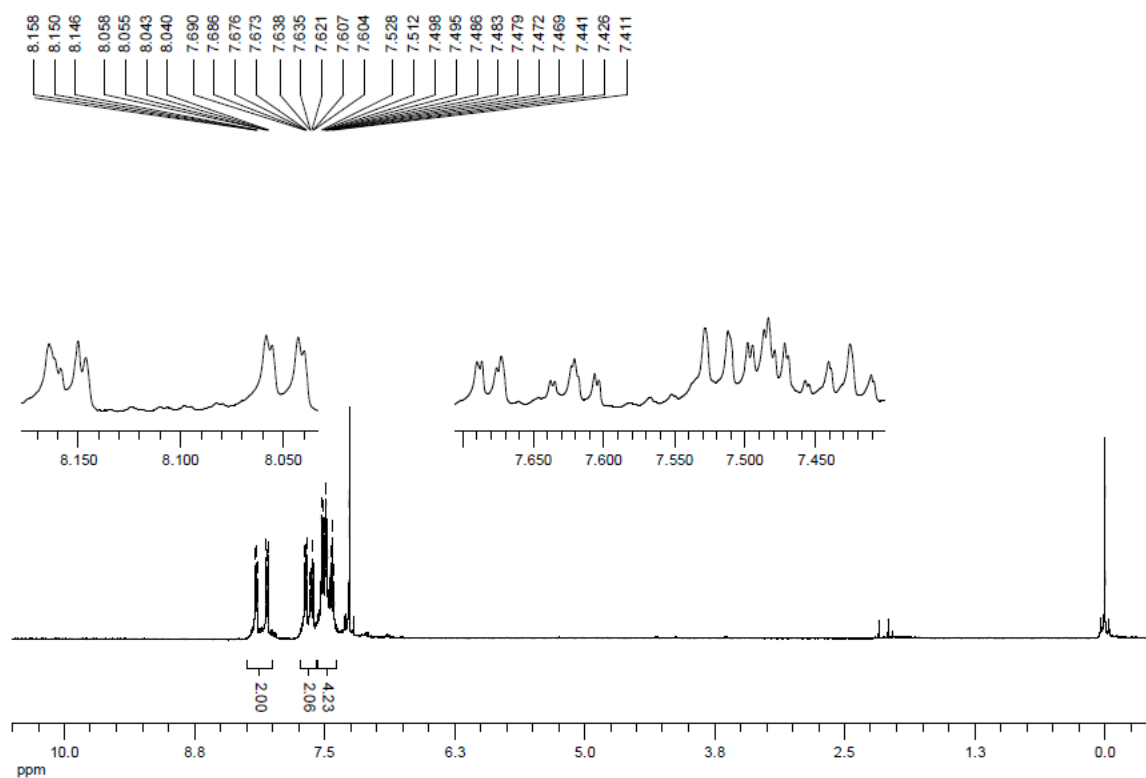
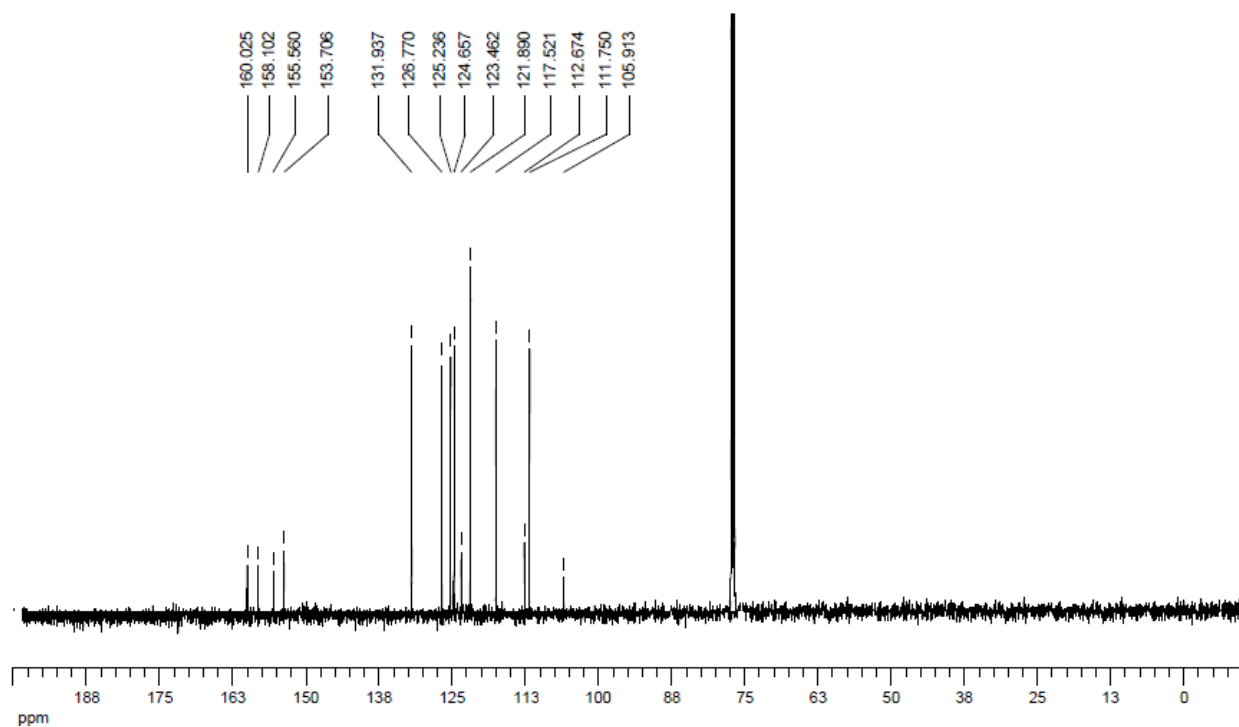
Xinyan Zhou^a, Yueqin Xu^b, Yiyang Cheng^a and Runsheng Xu^{a*}

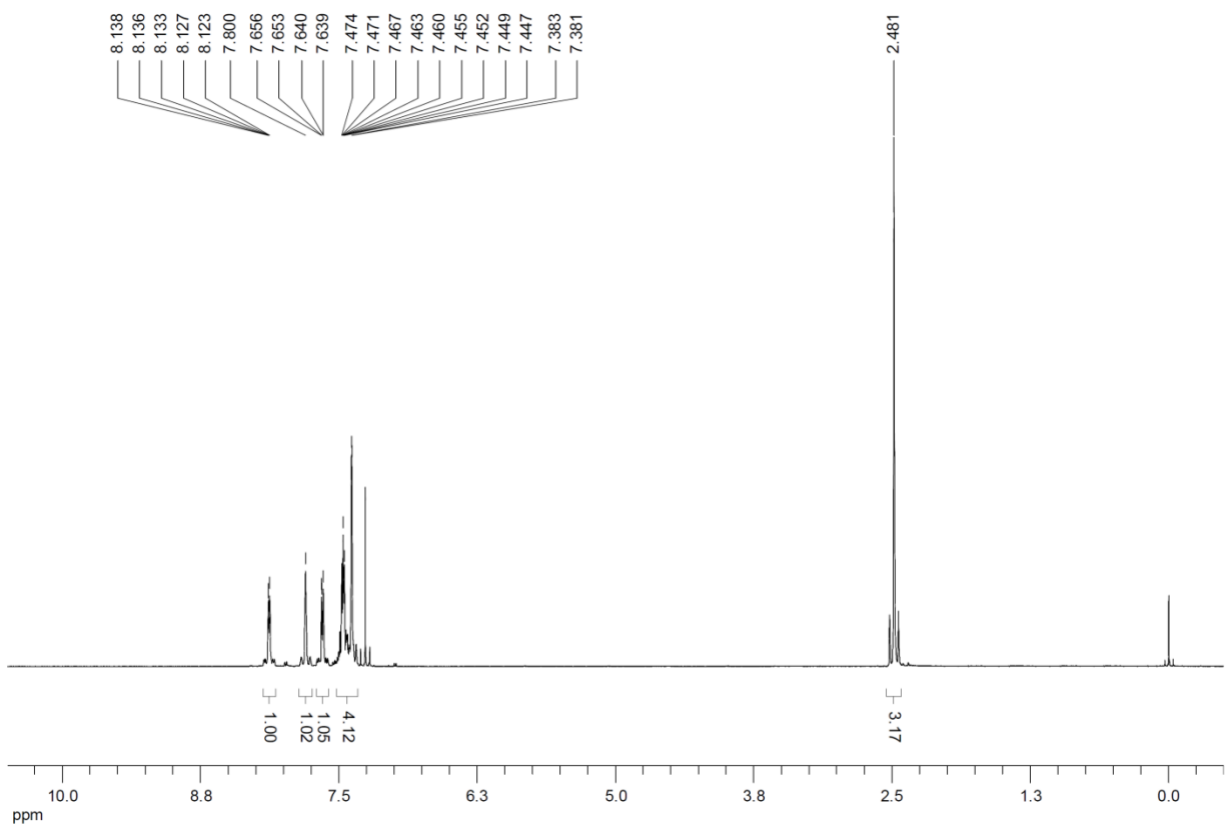
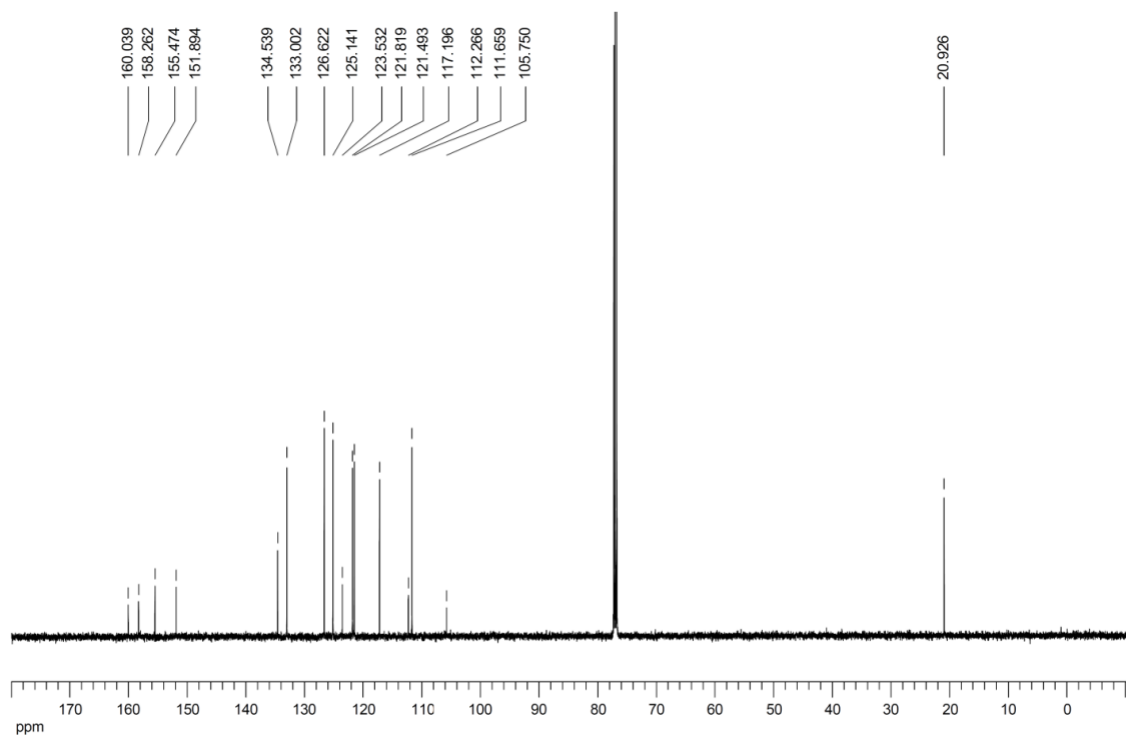
^a *Department of Biology and Environment, Jiyang College of Zhejiang A & F University, Shaoxing 311800, Zhejiang, China*

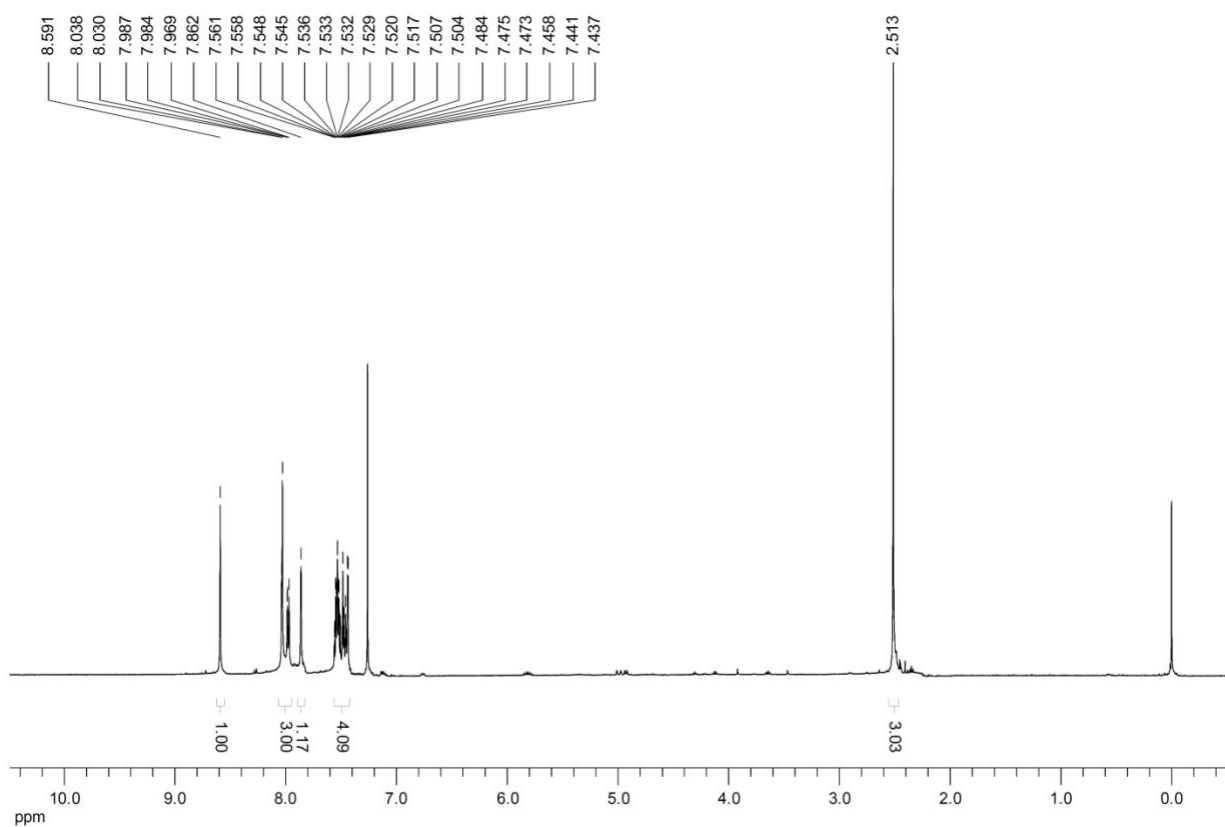
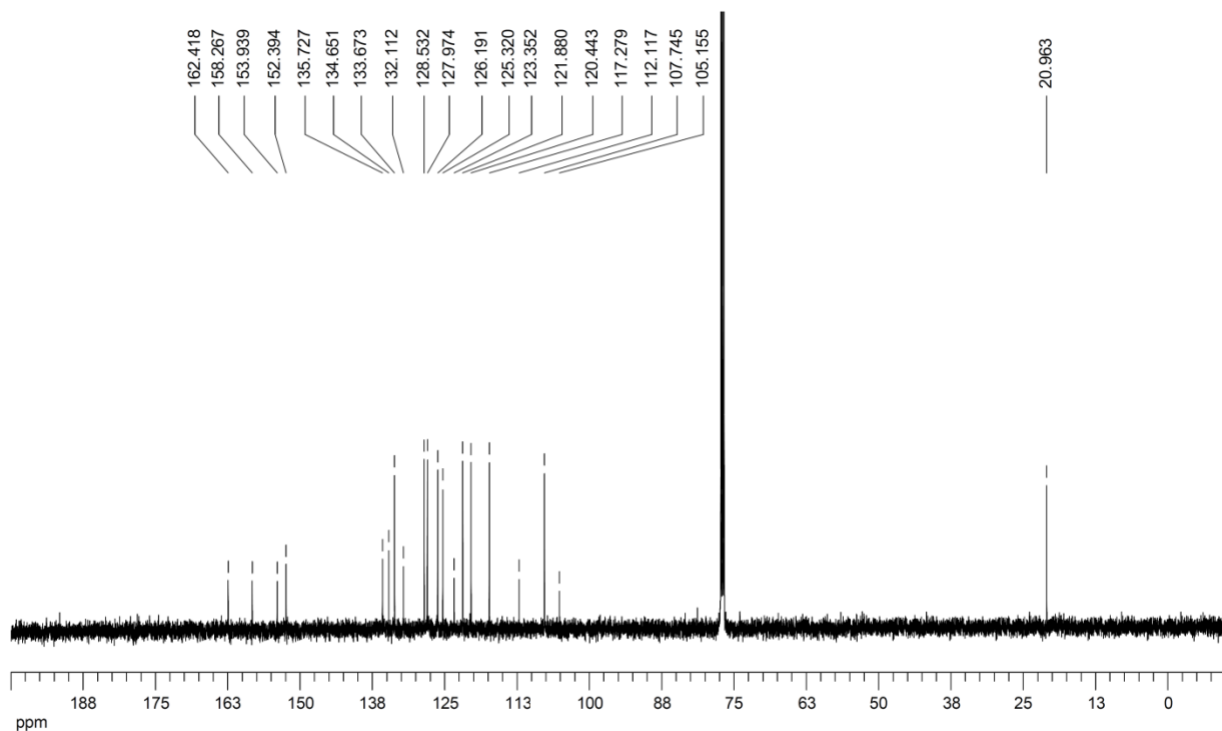
^b *LinYi Central Hospital, Linyi 276400, ShanDong, China*
Email: 20140041@zafu.edu.cn

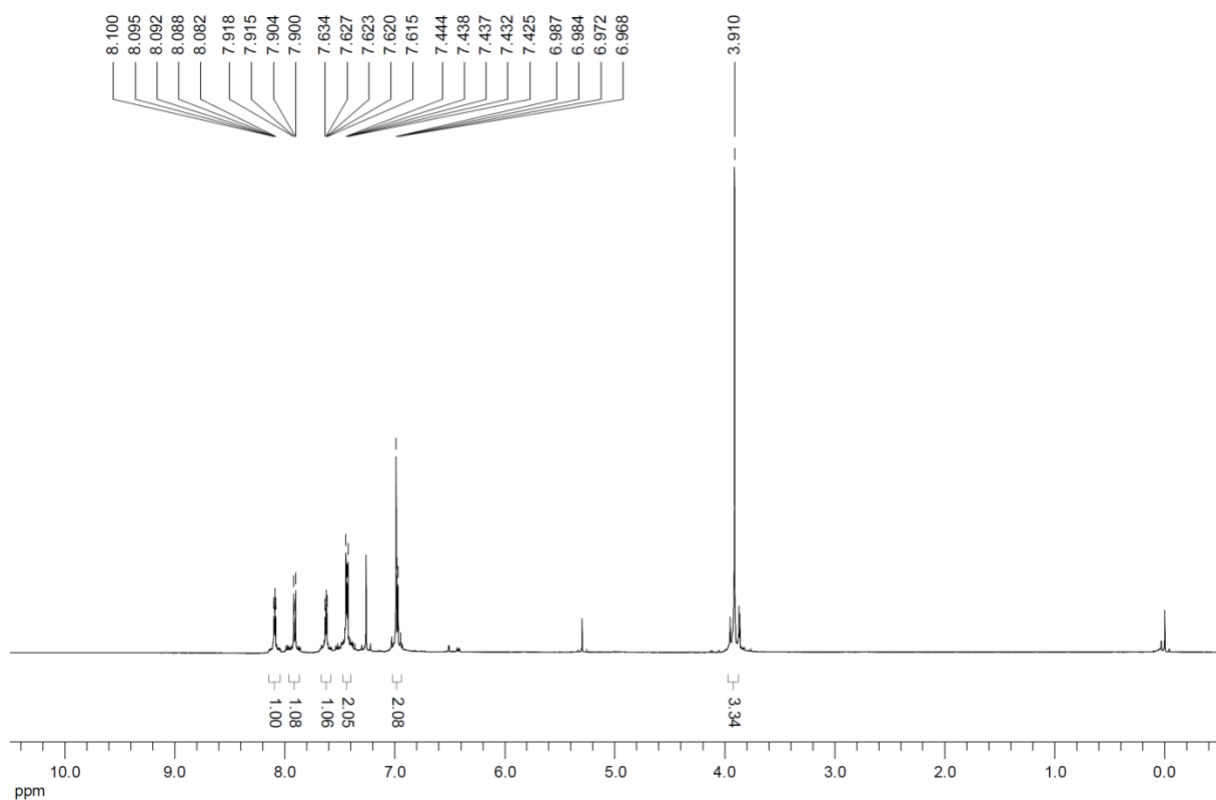
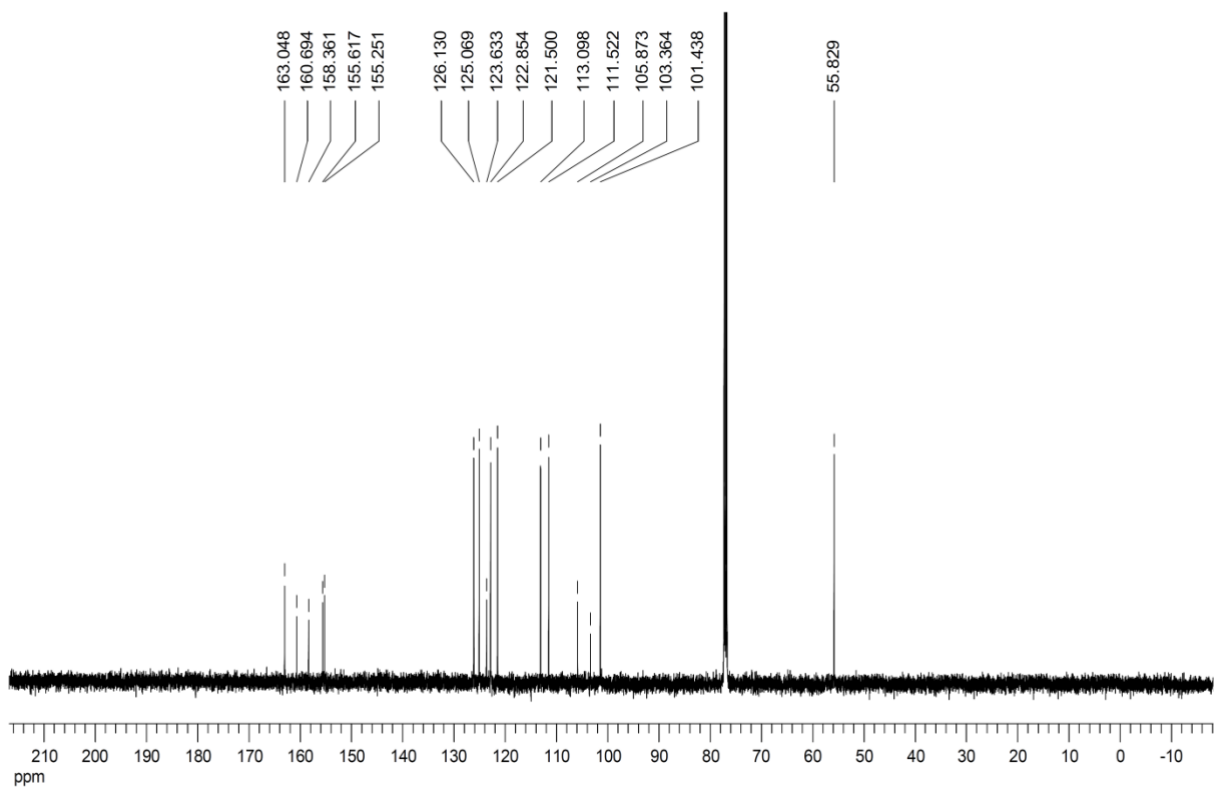
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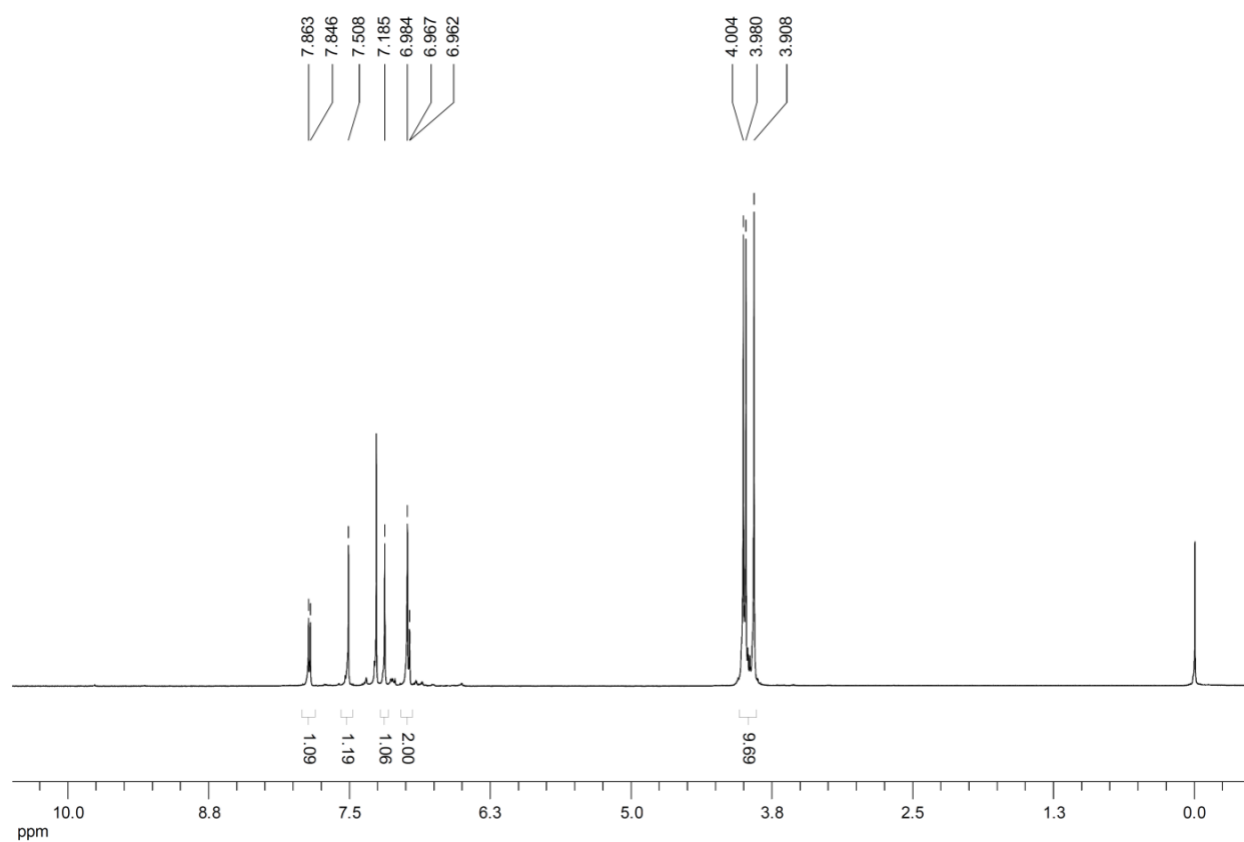
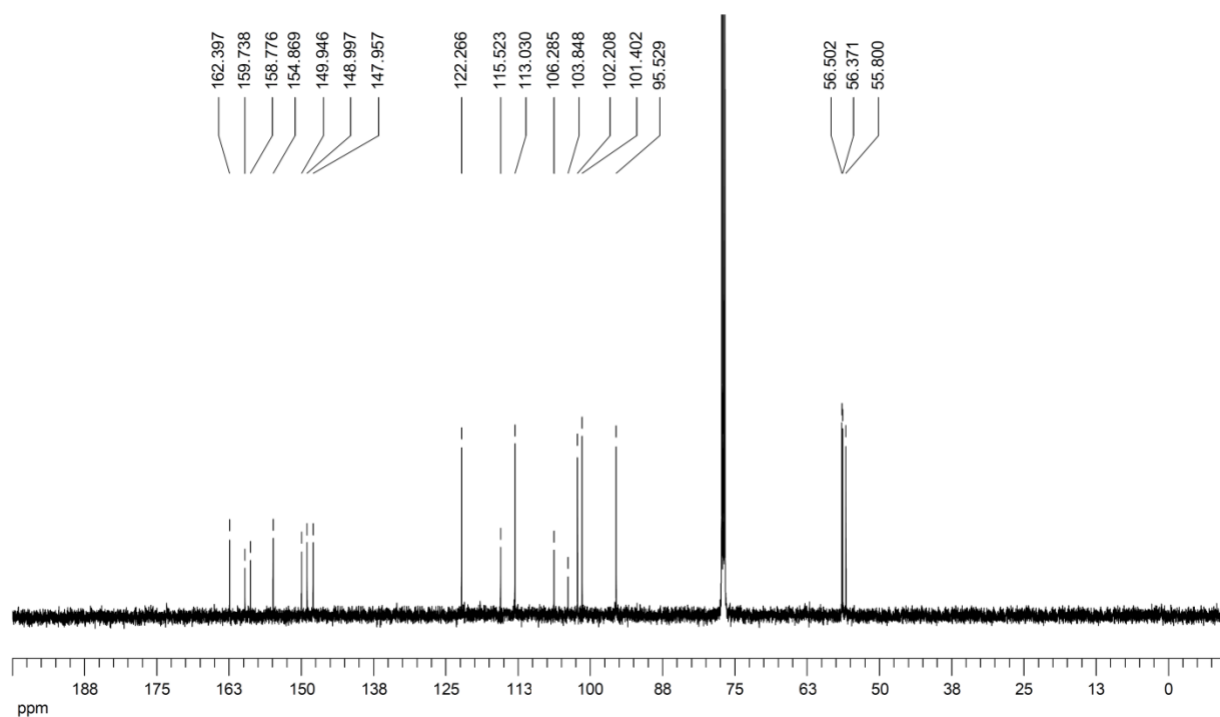
1. ¹ H and ¹³ C <u>Spectra</u> of Compounds 3a-3l	S2
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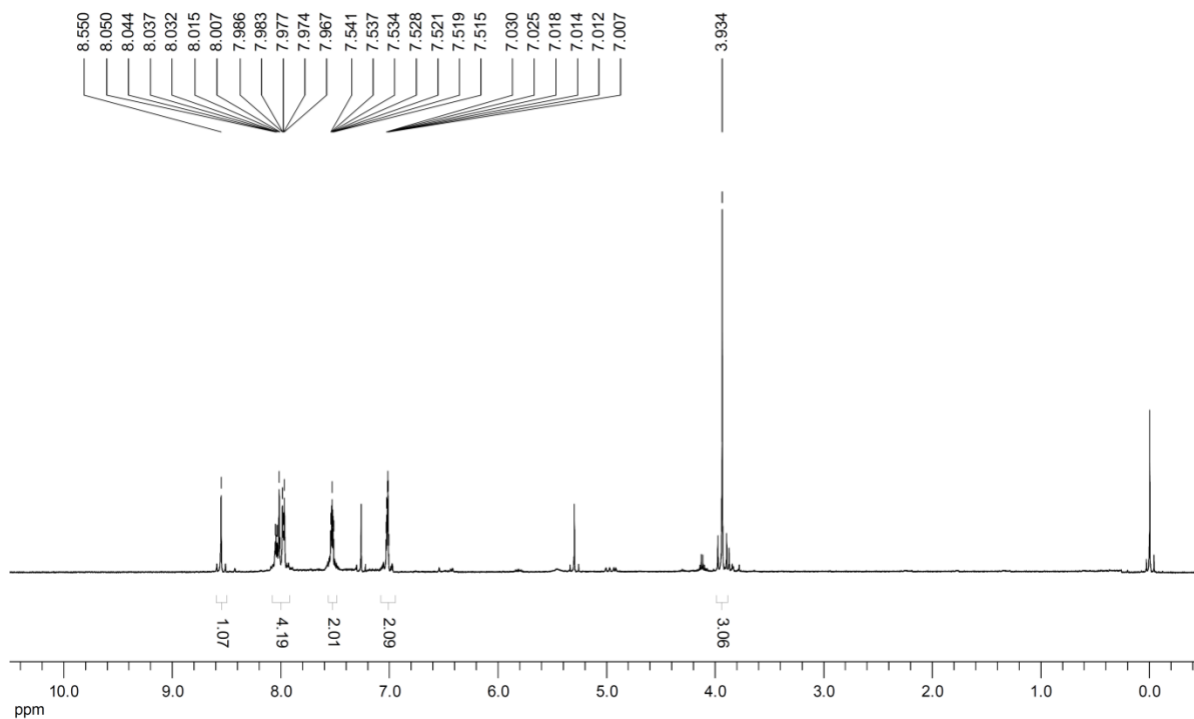
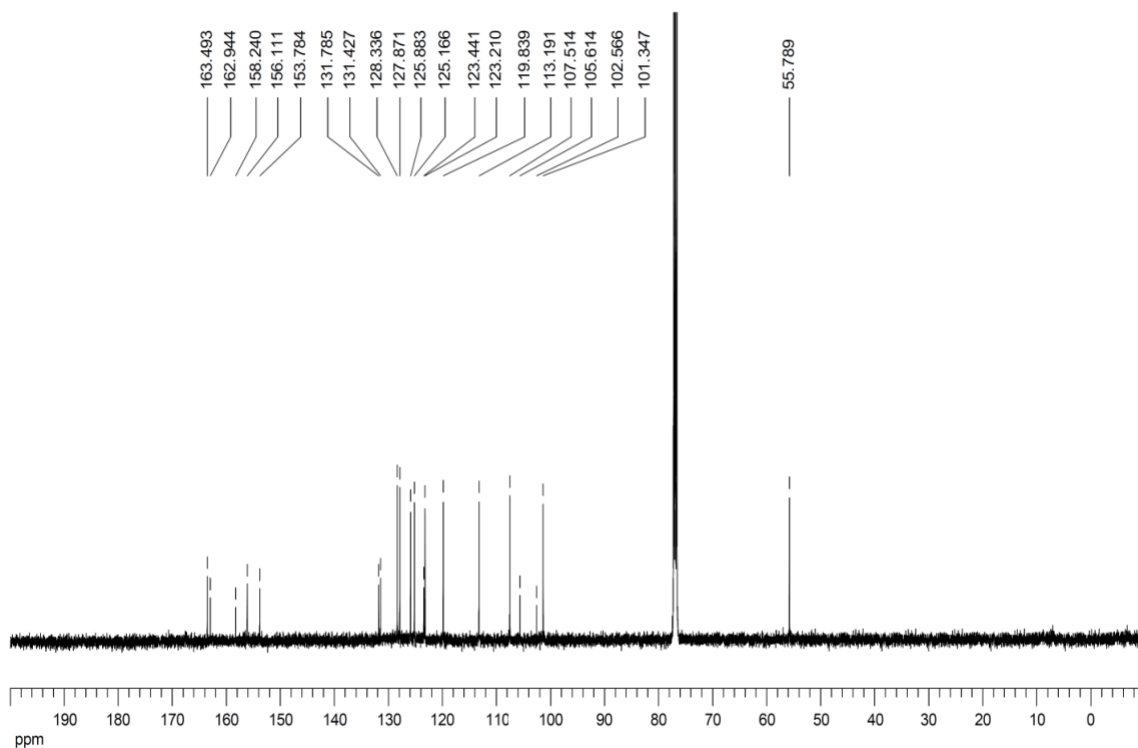
^1H and ^{13}C SpectraFigure S1. **3a** ^1H NMRFigure S2. **3a** ^{13}C NMR

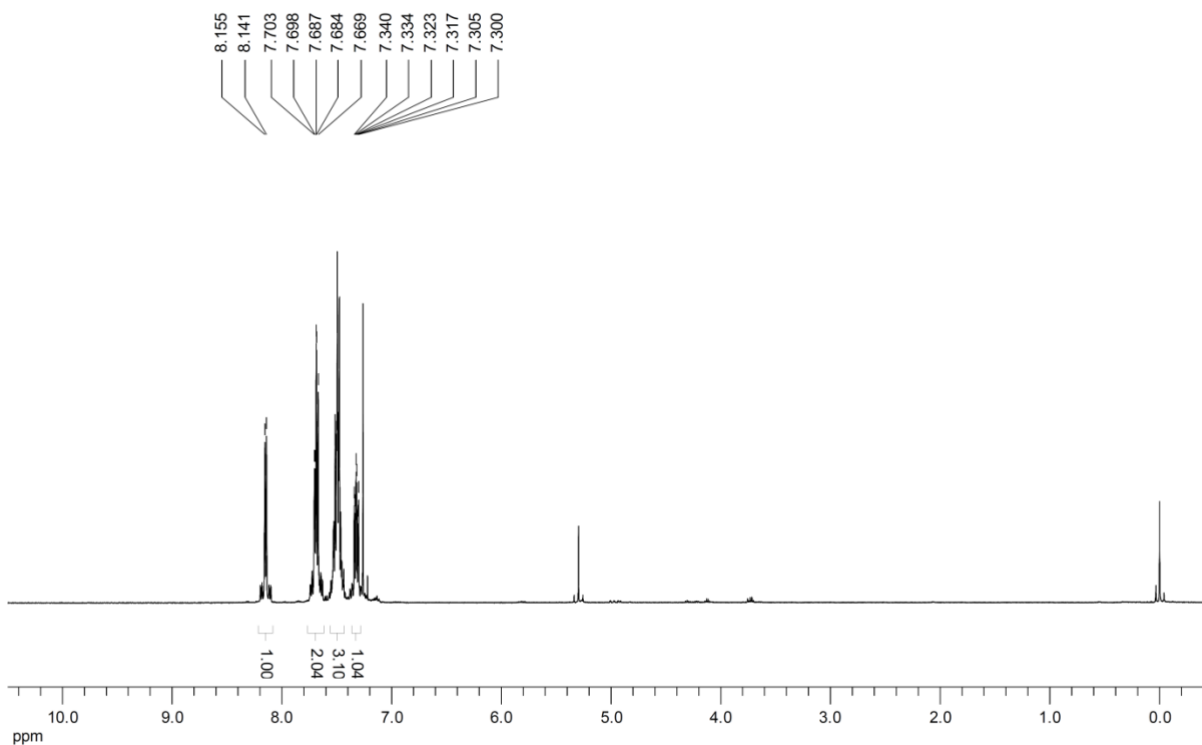
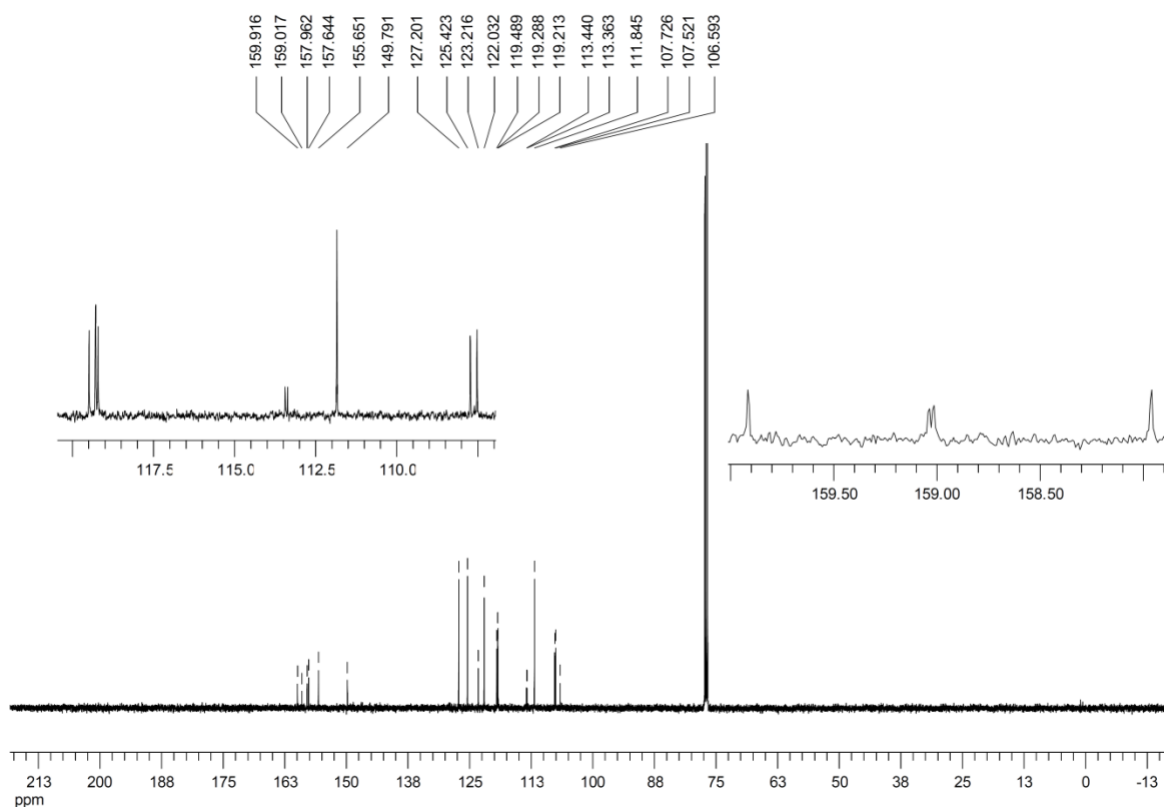
Figure S3. **3b** ¹H NMRFigure S4. **3b** ¹³C NMR

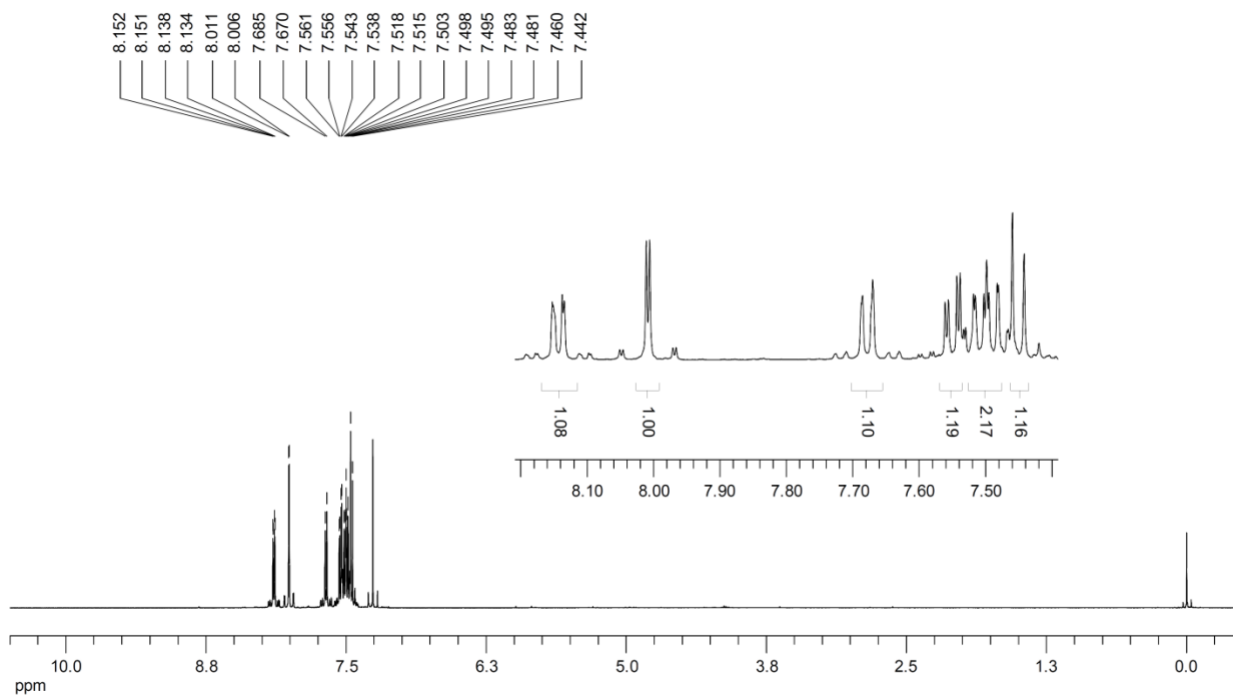
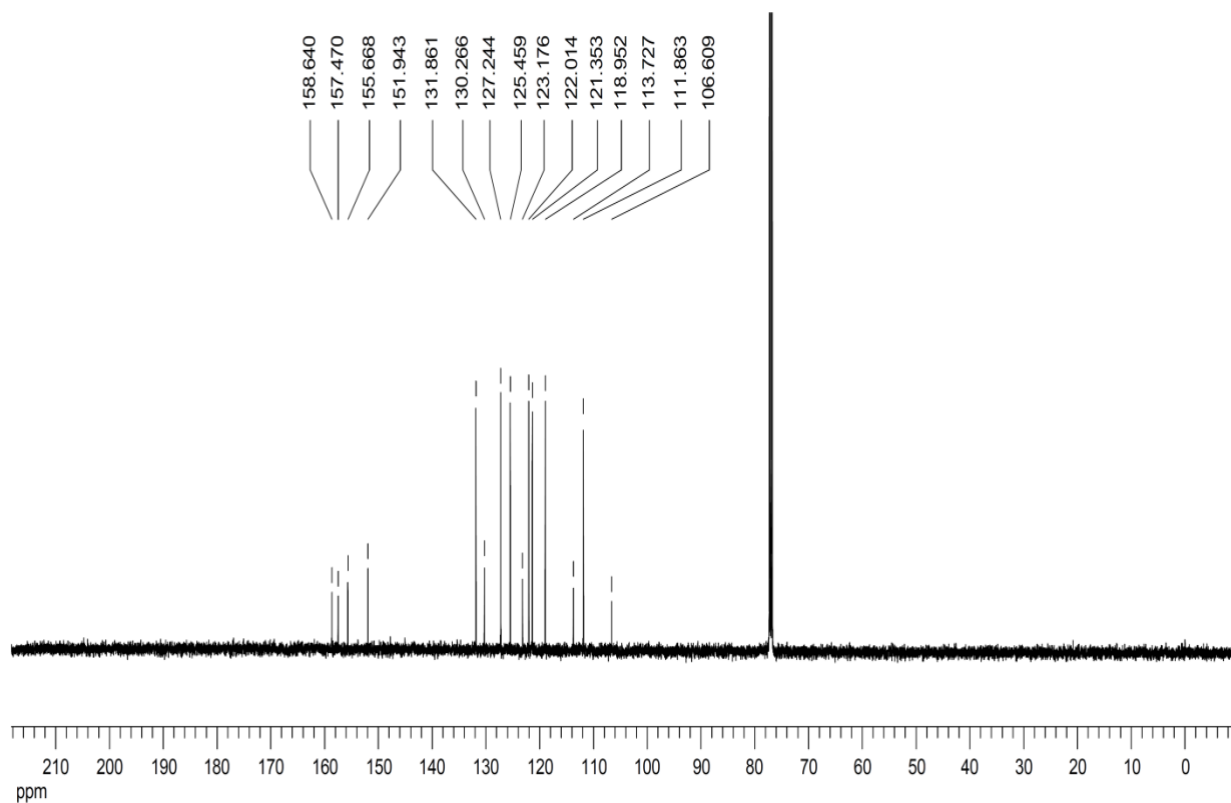
Figure S5. **3c** ¹H NMRFigure S6. **3c** ¹³C NMR

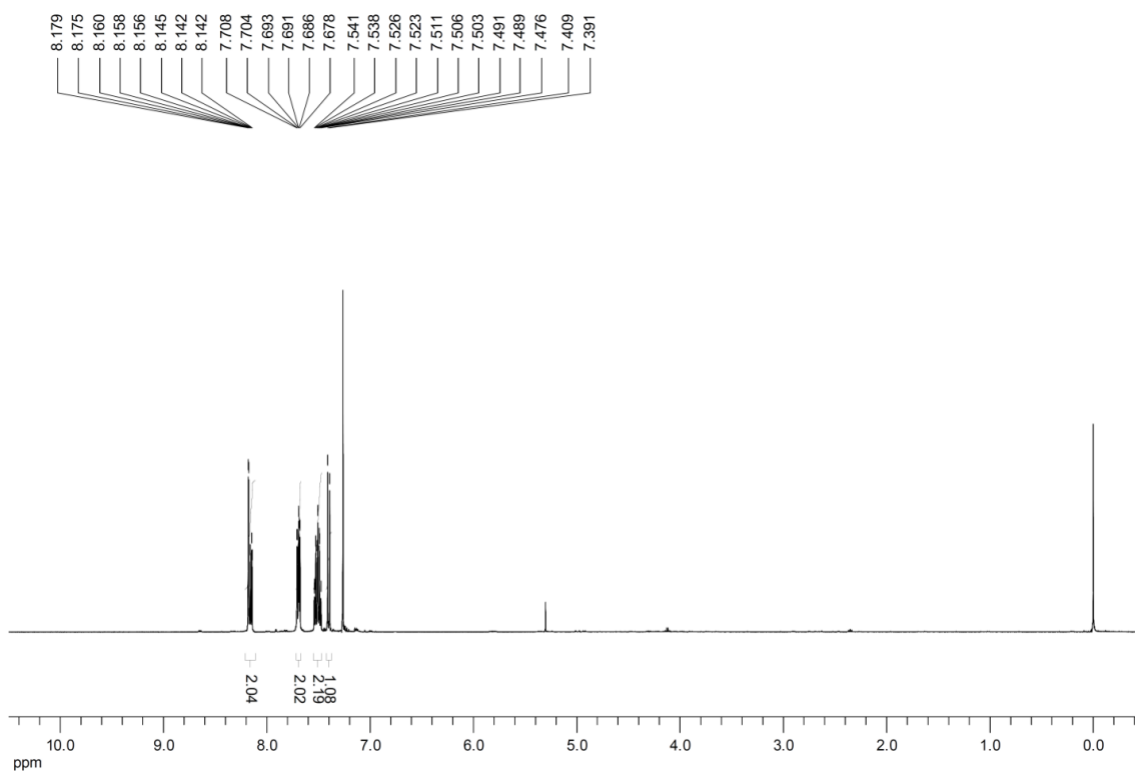
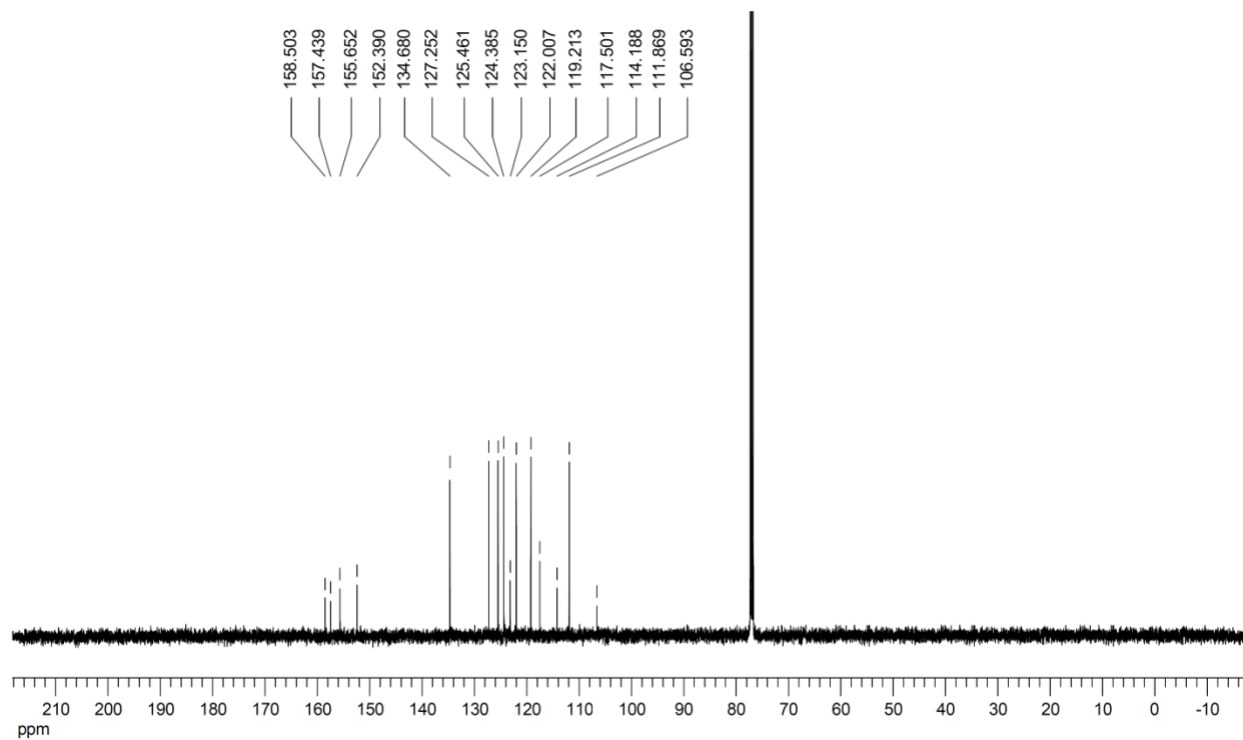
Figure S7. **3d** ¹H NMRFigure S8. **3d** ¹³C NMR

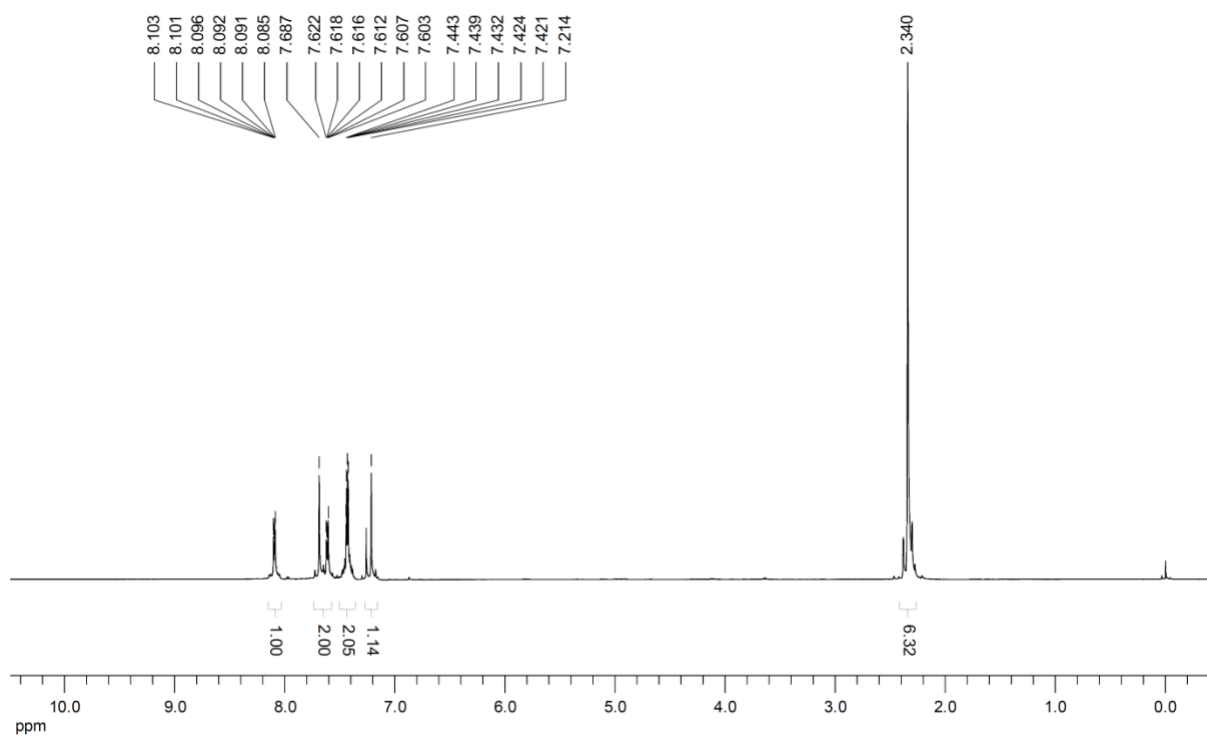
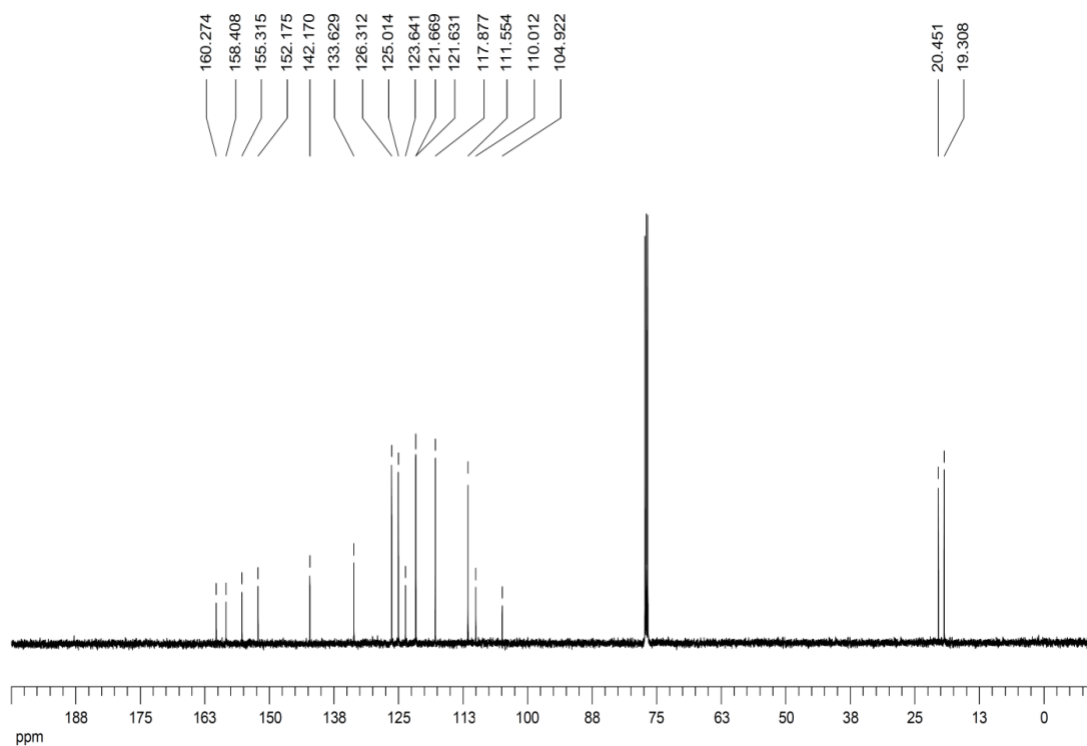
Figure S9. **3e** ¹H NMRFigure S10. **3e** ¹³C NMR

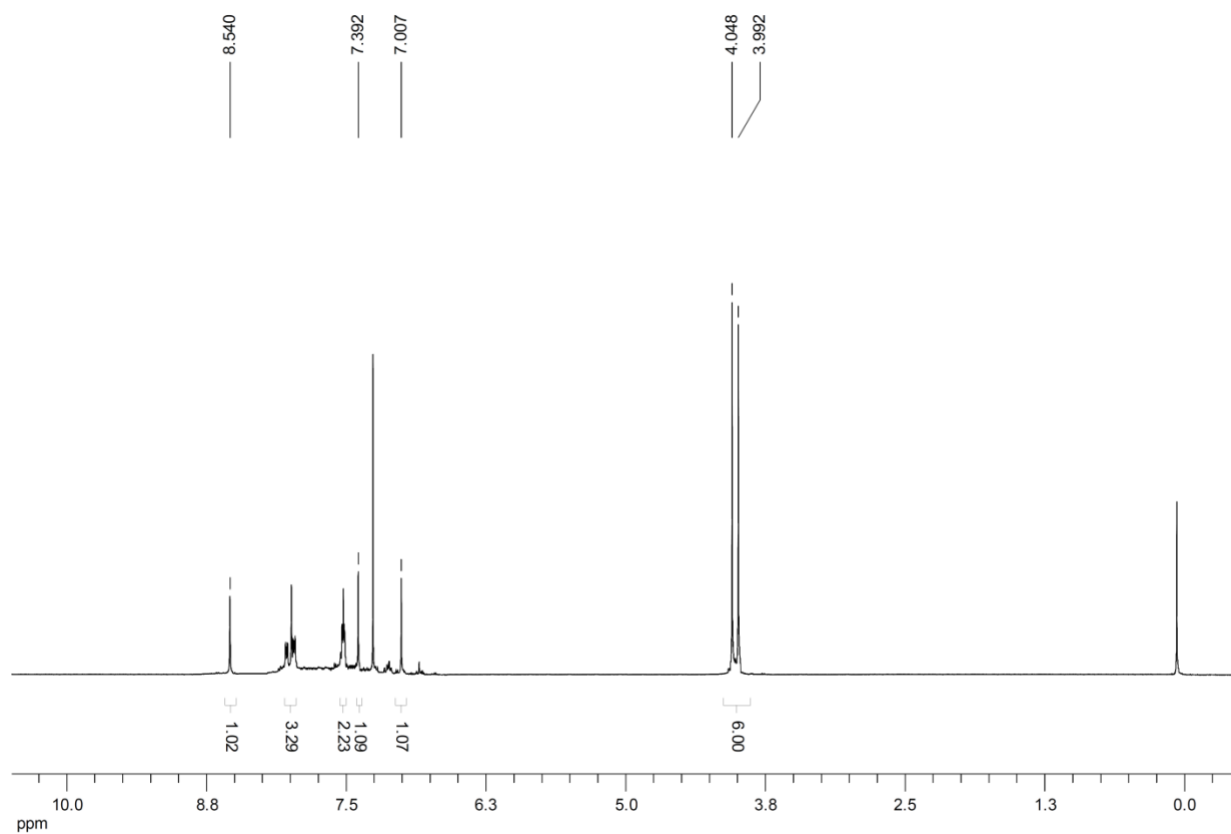
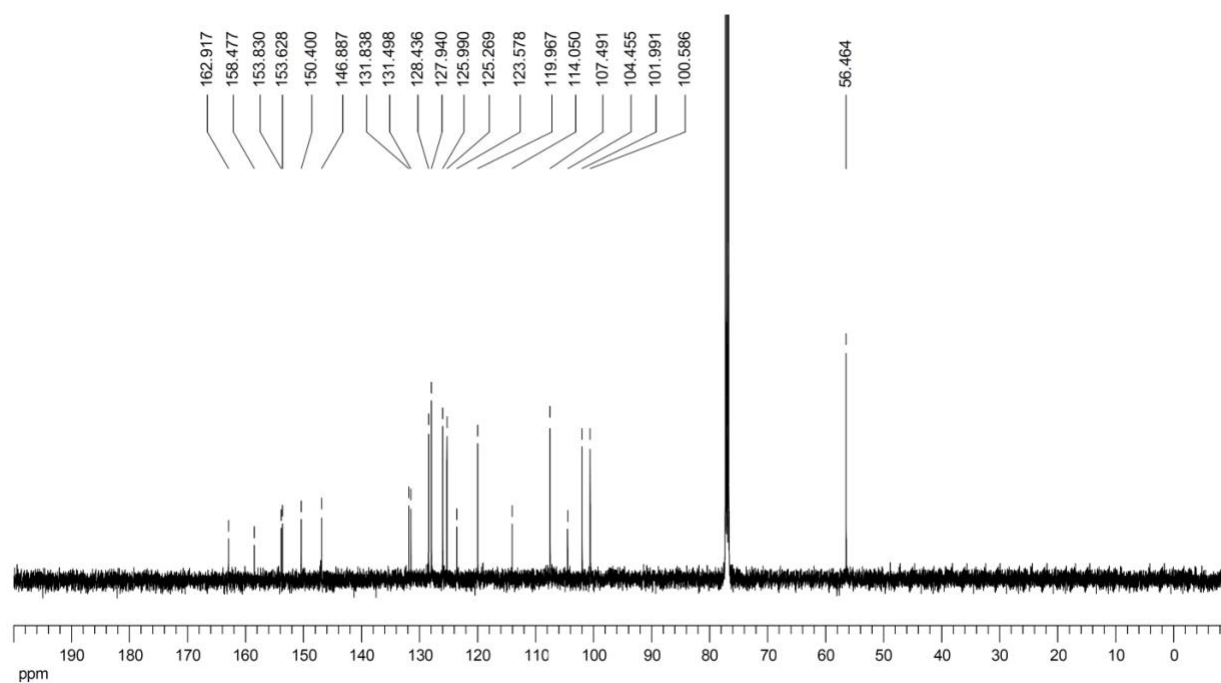
Figure S11. **3f** ¹H NMRFigure S12. **3f** ¹³C NMR

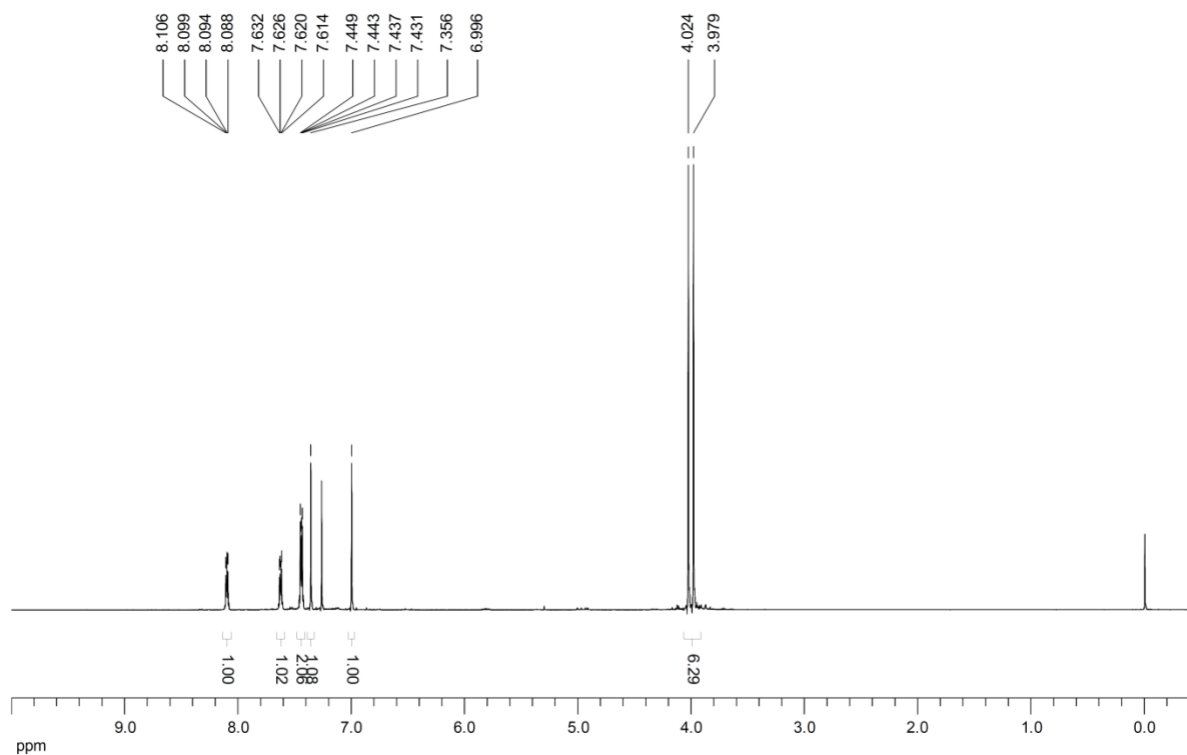
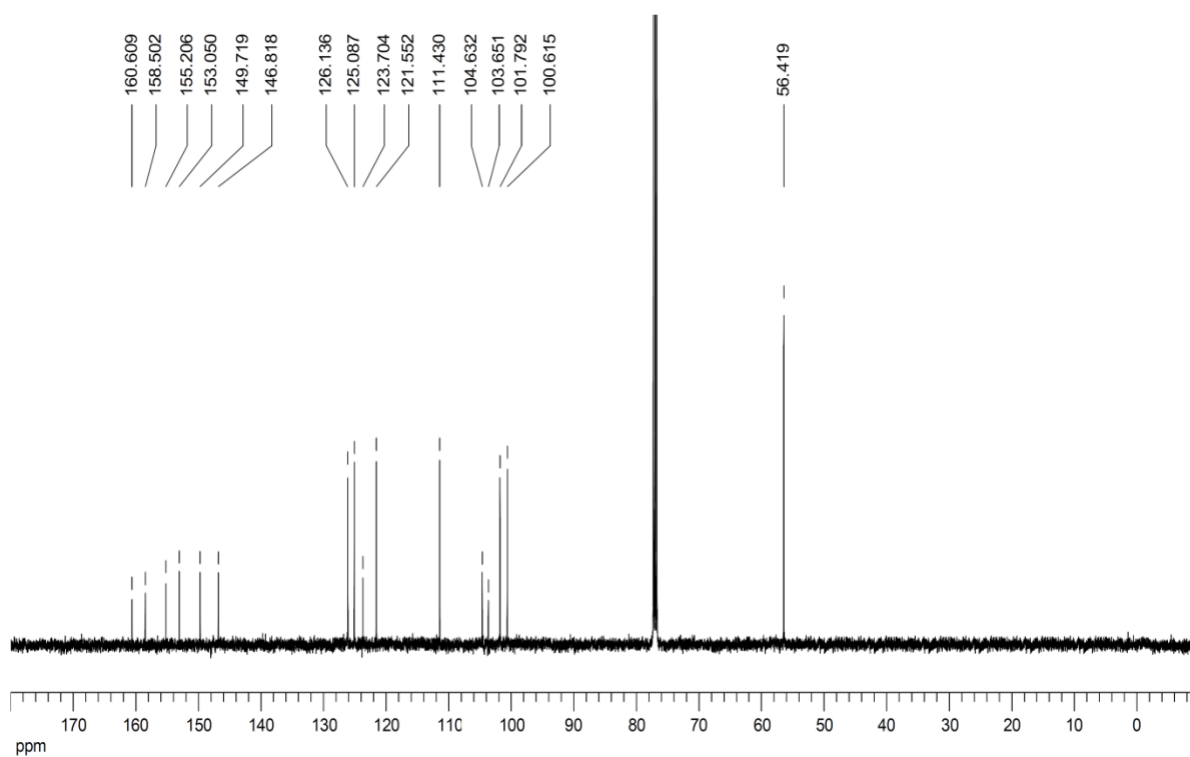
Figure S13. **3g** ¹H NMRFigure S14. **3g** ¹³C NMR

Figure S15. **3h** ¹H NMRFigure S16. **3h** ¹³C NMR

Figure S17. **3i** ¹H NMRFigure S18. **3i** ¹³C NMR

Figure S19. **3j** ¹H NMRFigure S20. **3j** ¹³C NMR

Figure S21. **3k** ¹H NMRFigure S22. **3k** ¹³C NMR

Figure S31. **3I** ¹H NMRFigure S32. **3I** ¹³C NMR