

Supplementary Material

Ultrasound assisted Synthesis of Thiazolidine Thiones Containing 1,2,3-triazoles Using Cu/TiO₂

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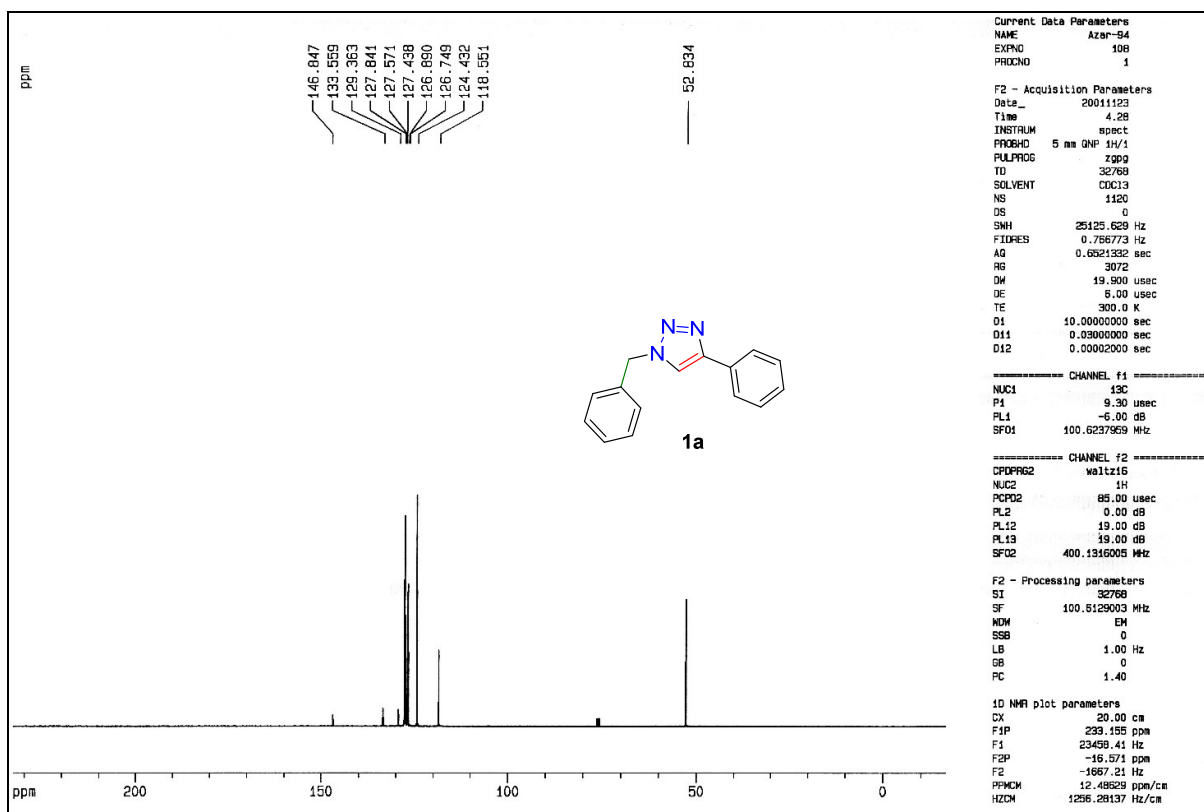
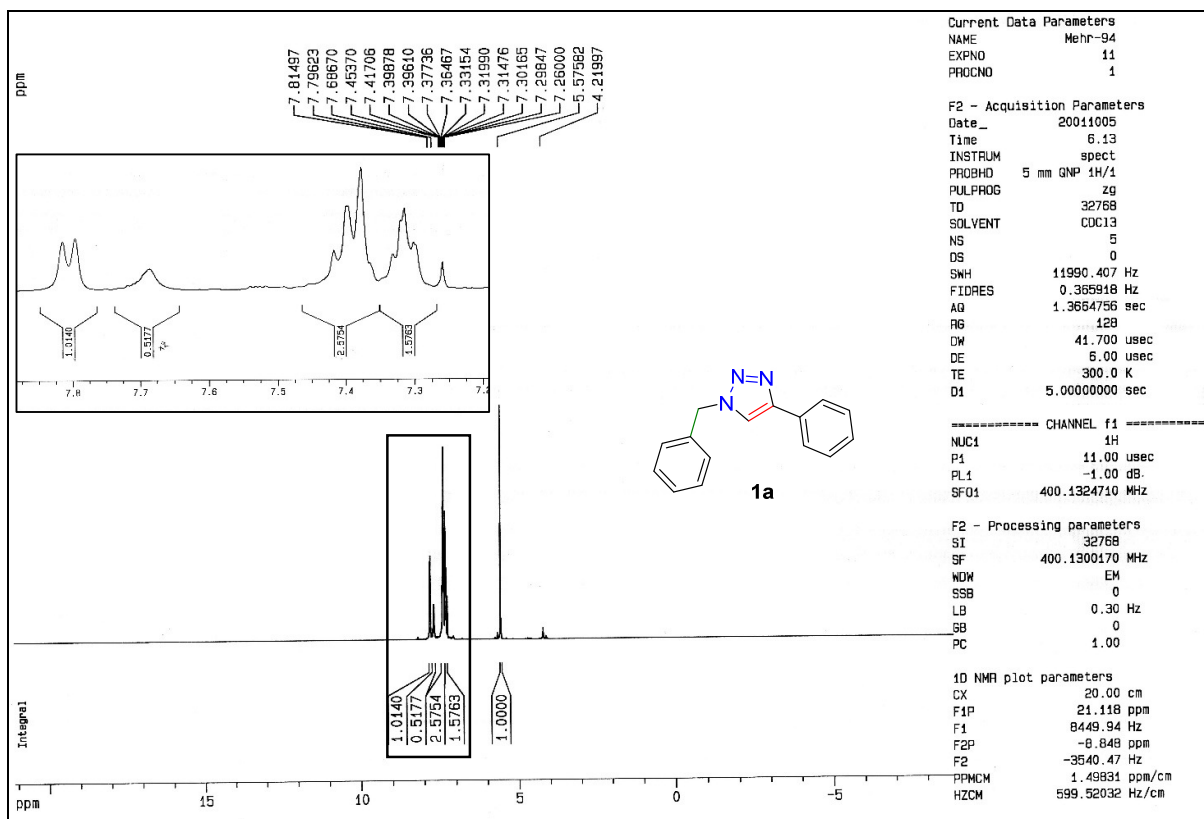
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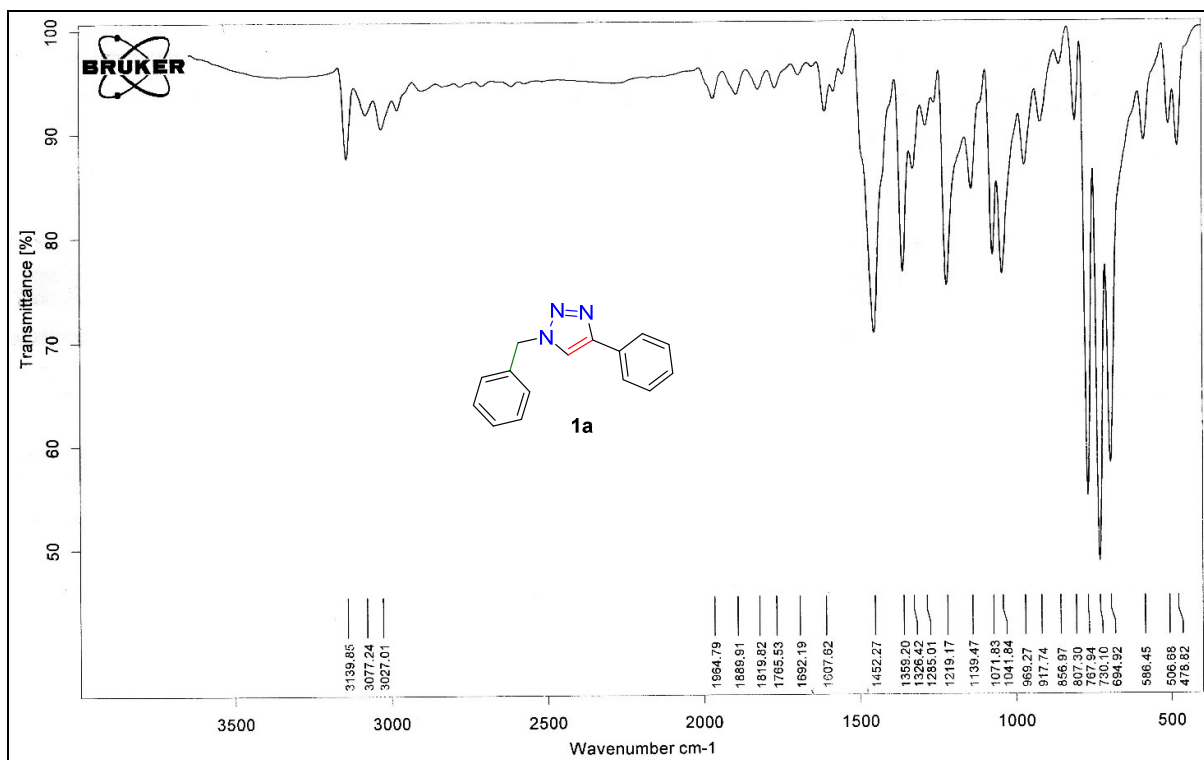
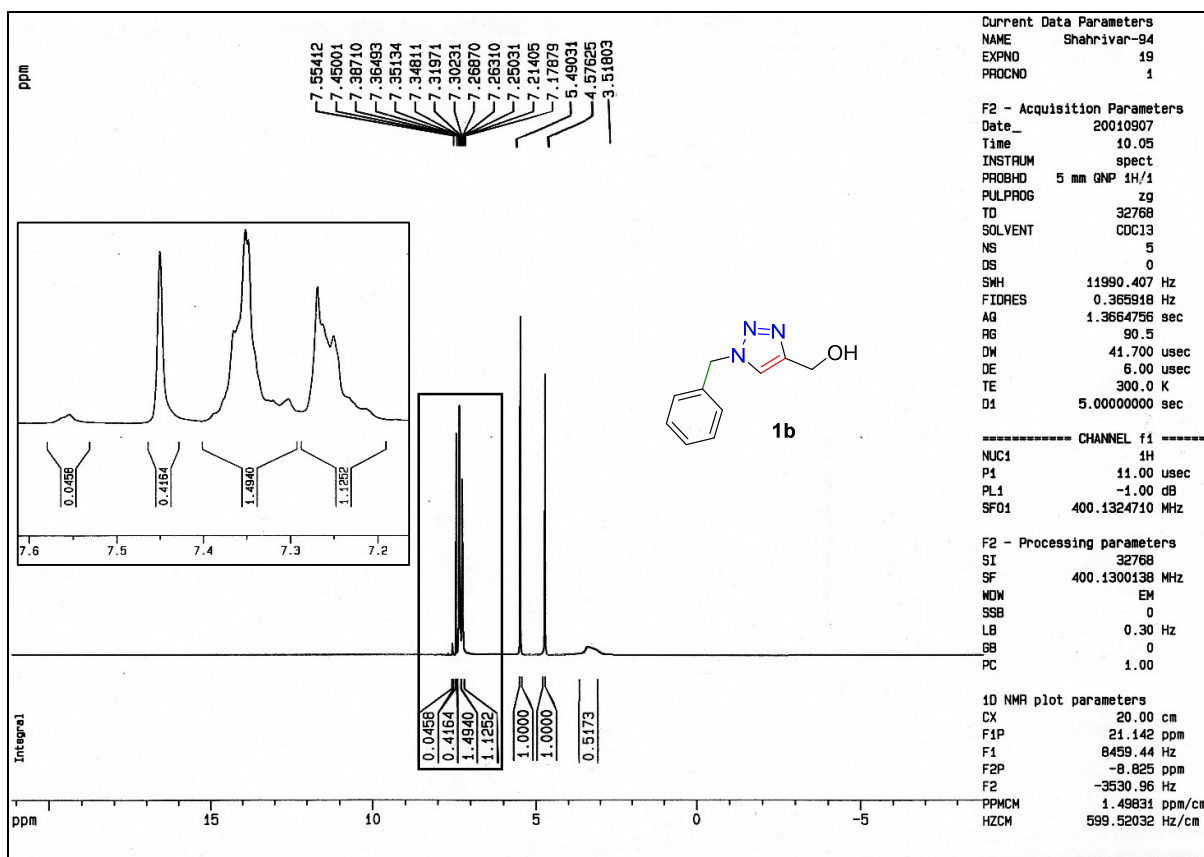
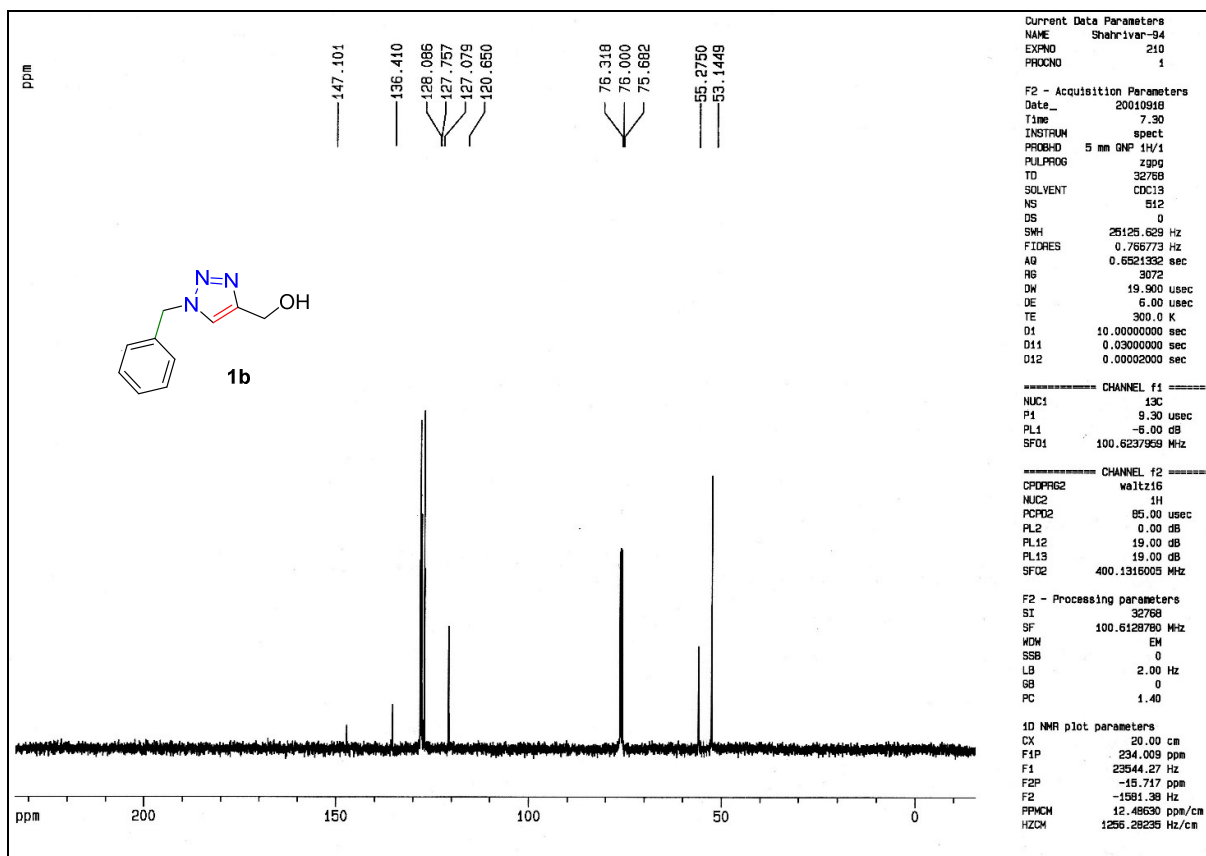
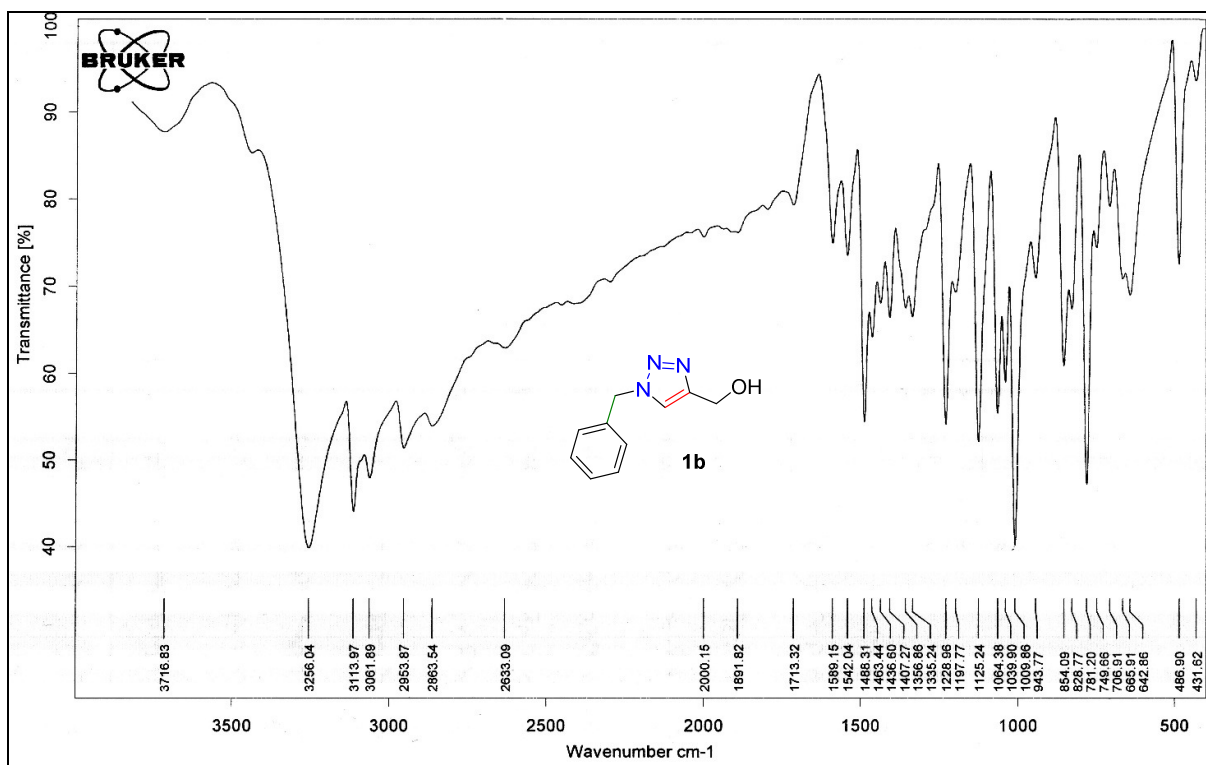
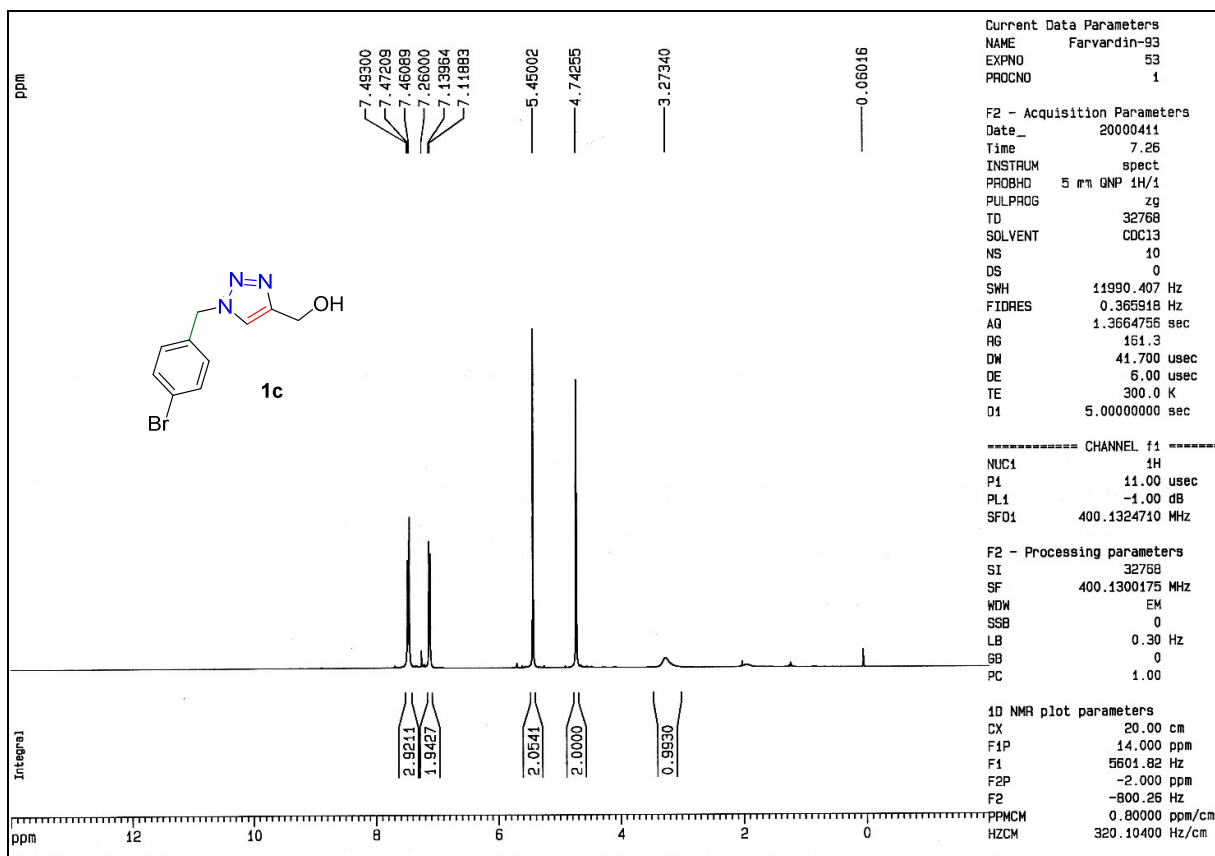
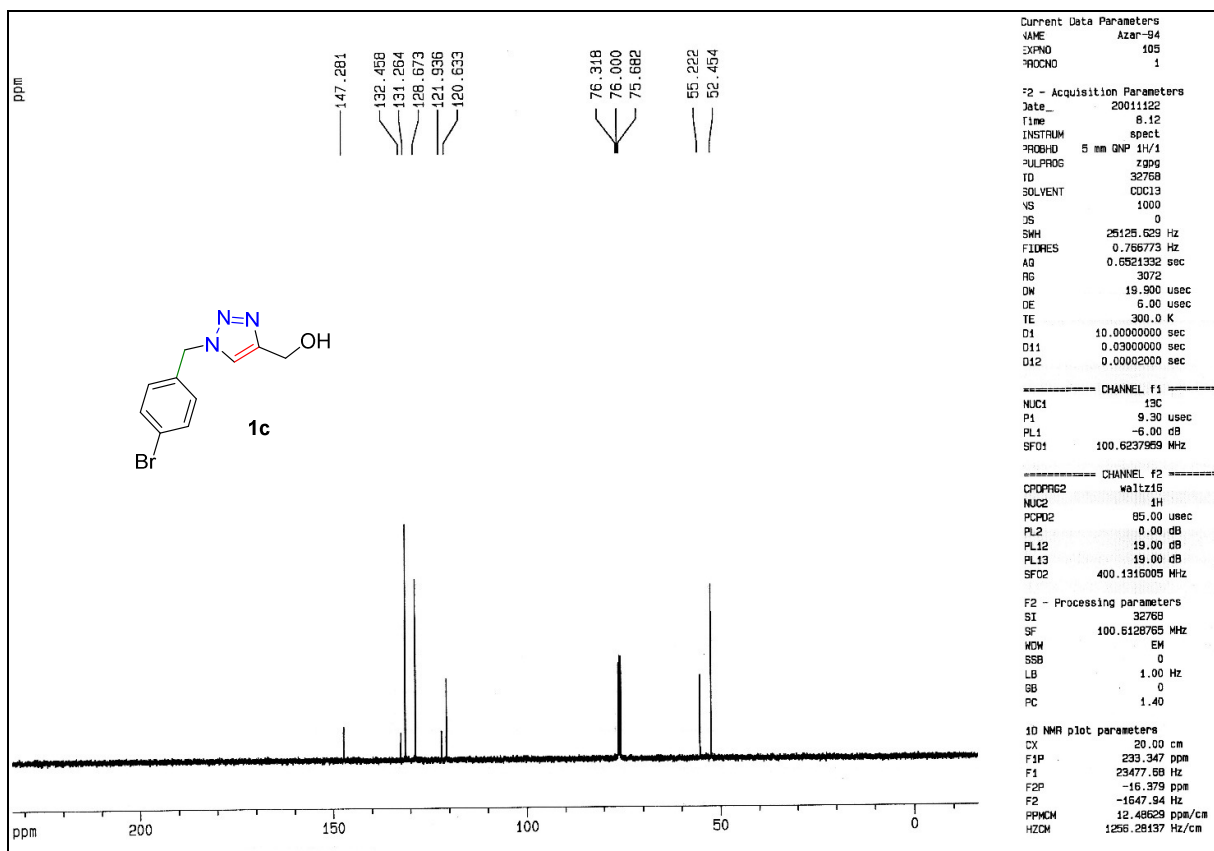
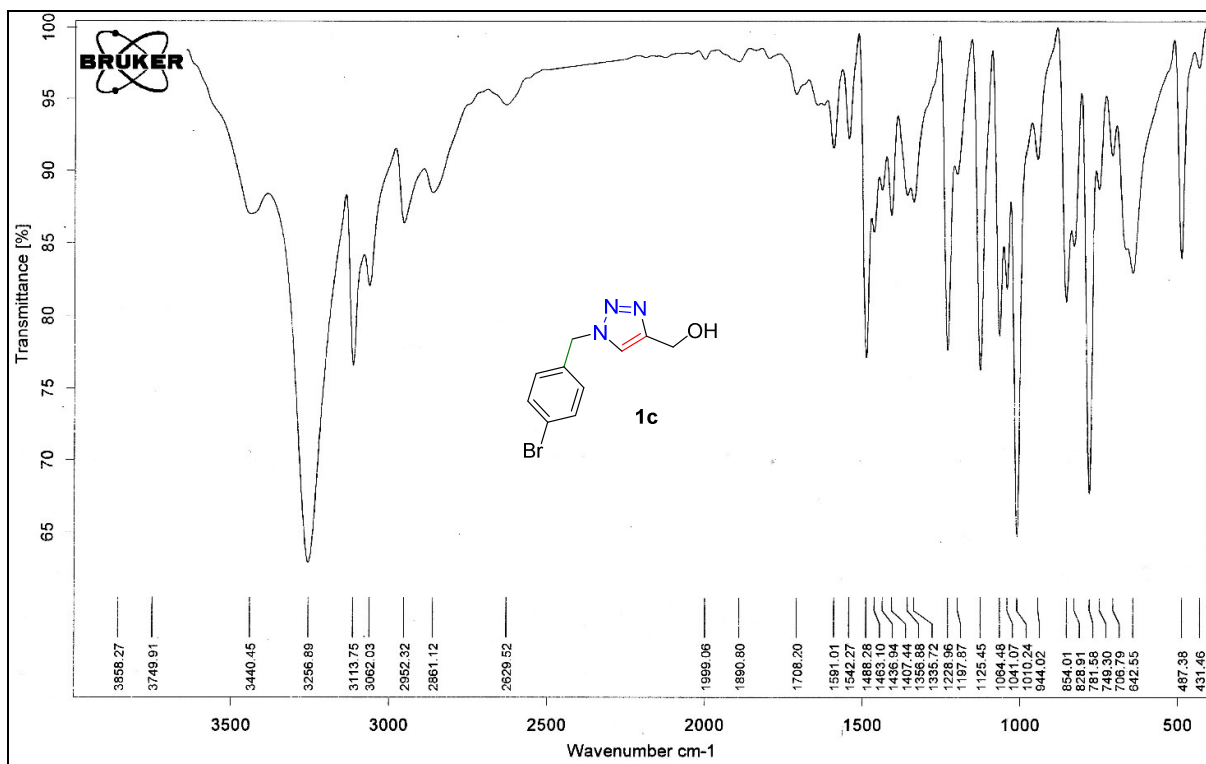
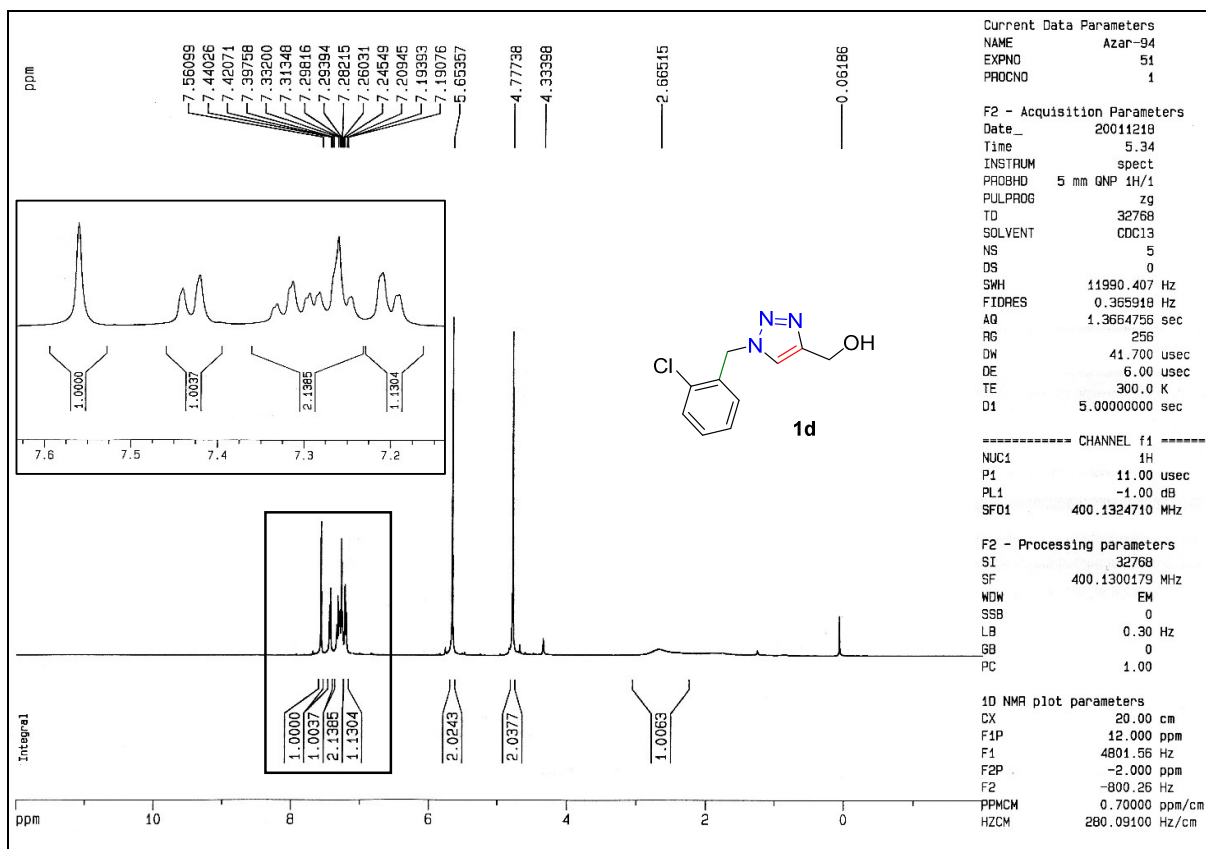


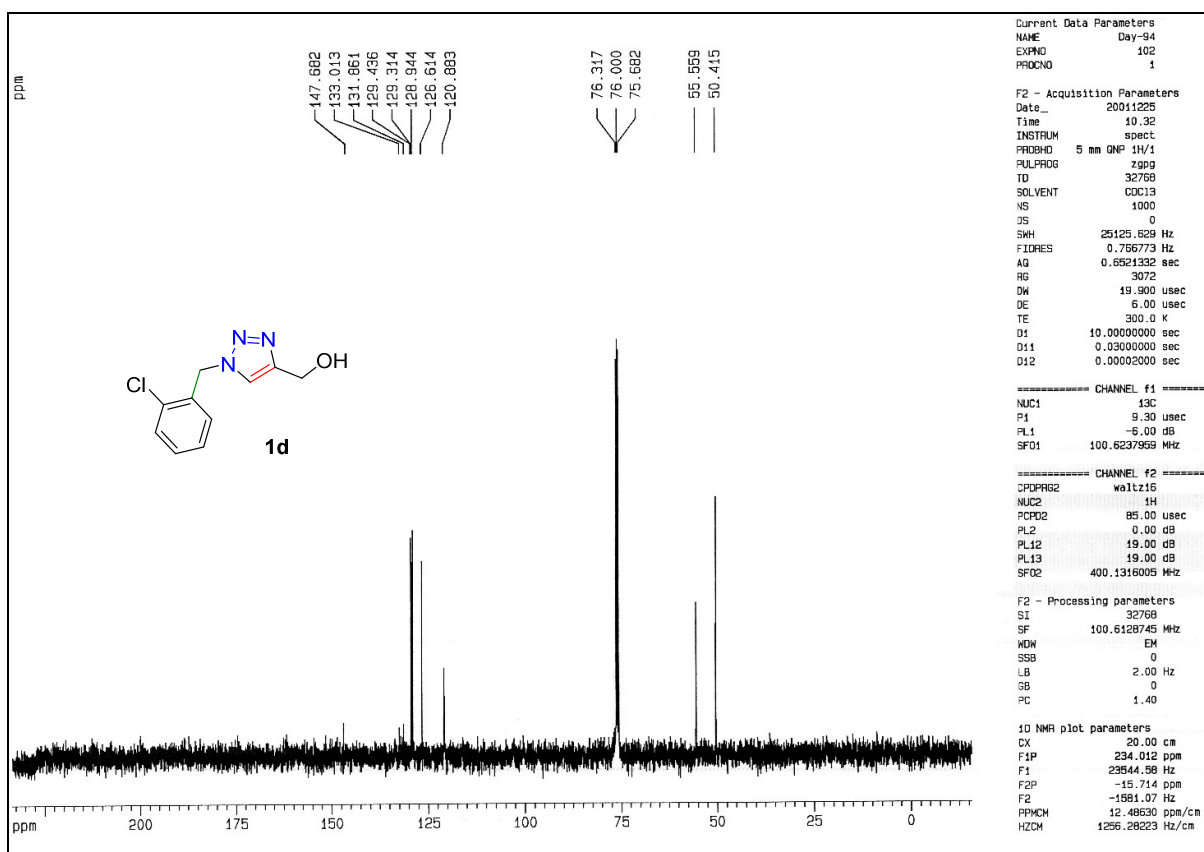
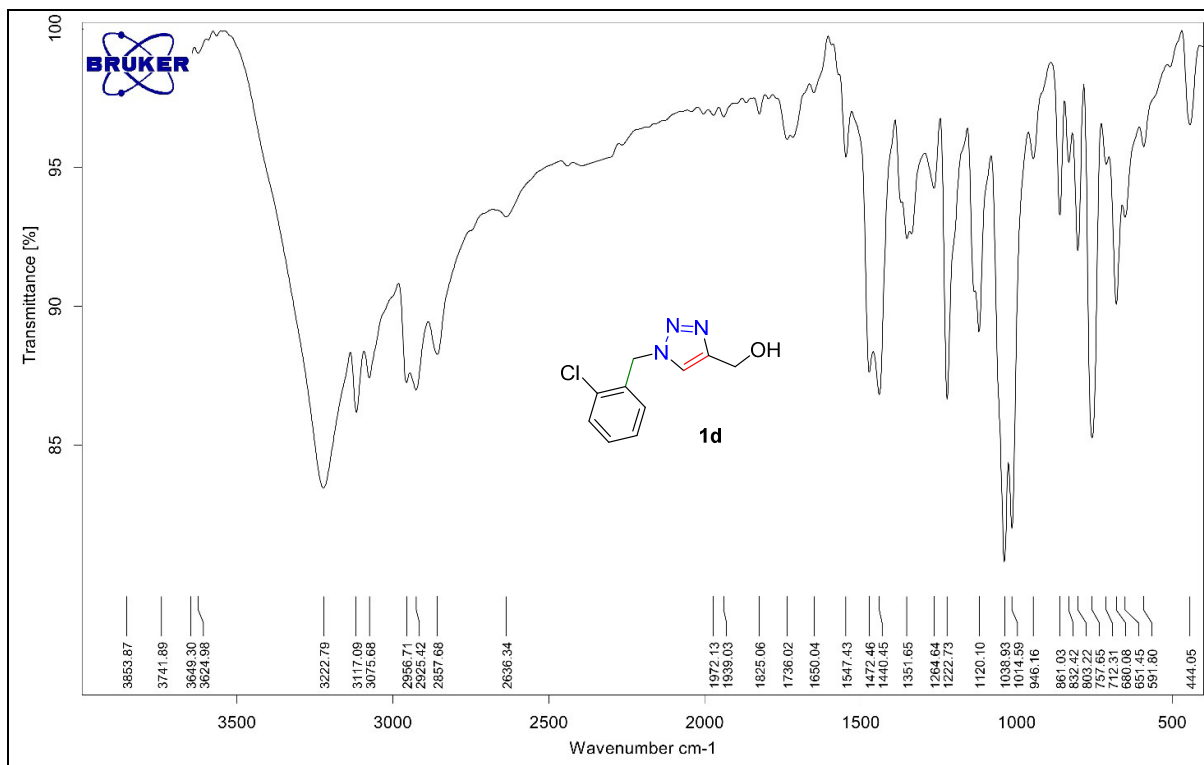
Figure S3. FTIR (KBr) spectrum of compound 1a.

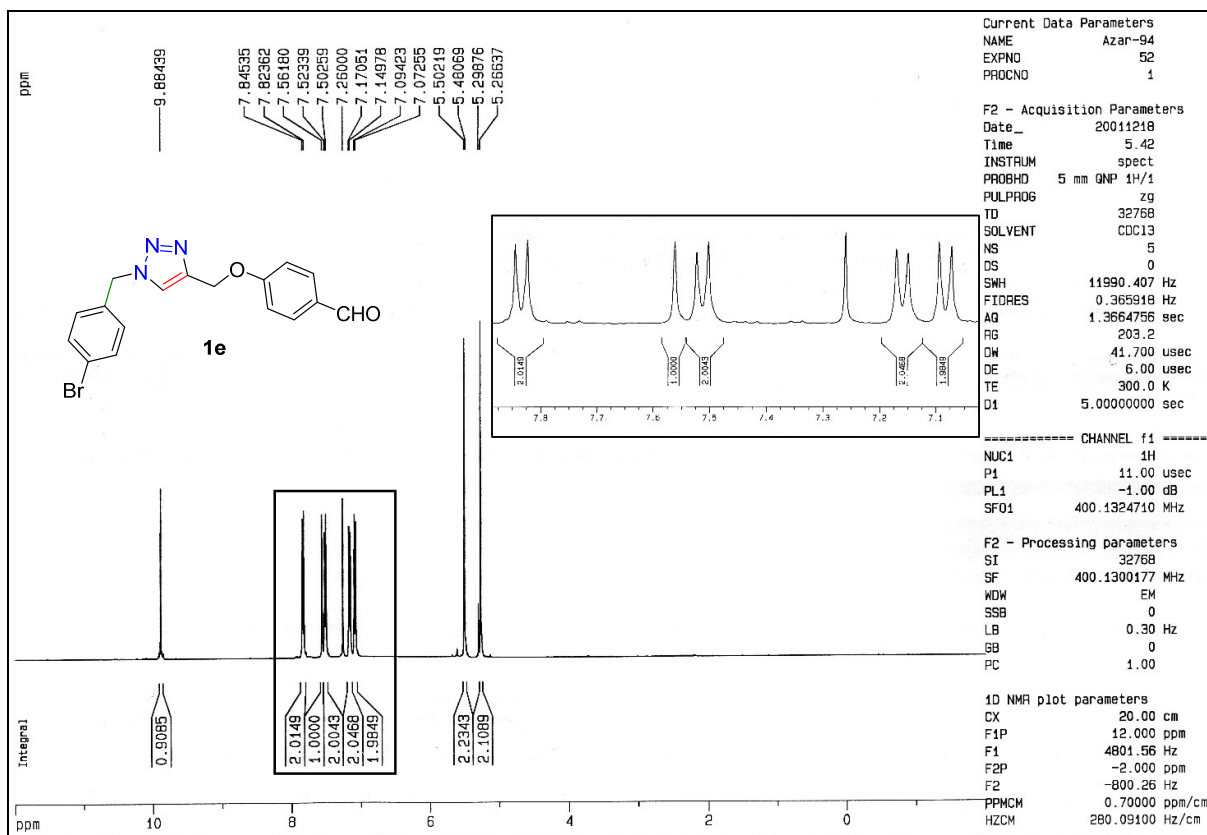
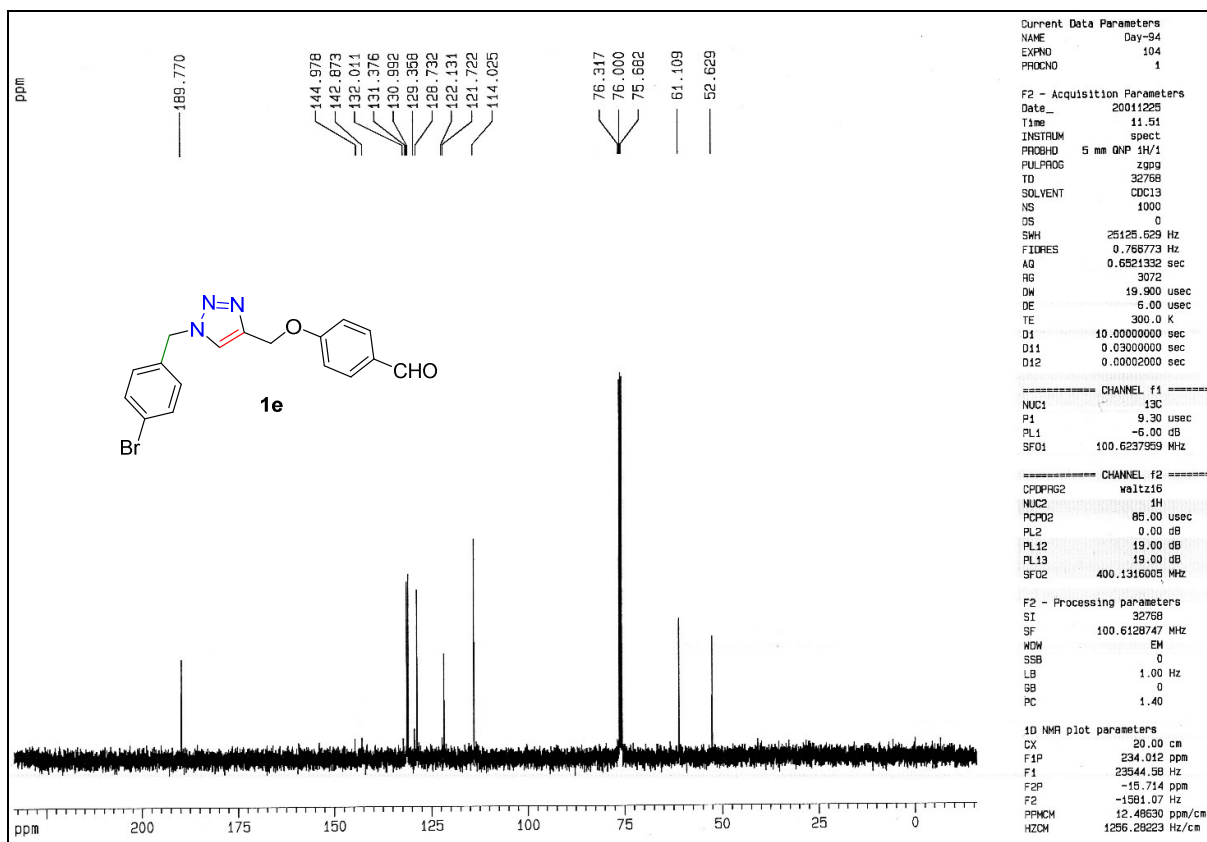
Figure S4. ¹H NMR spectrum (400 MHz, CDCl₃) of compound 1b.

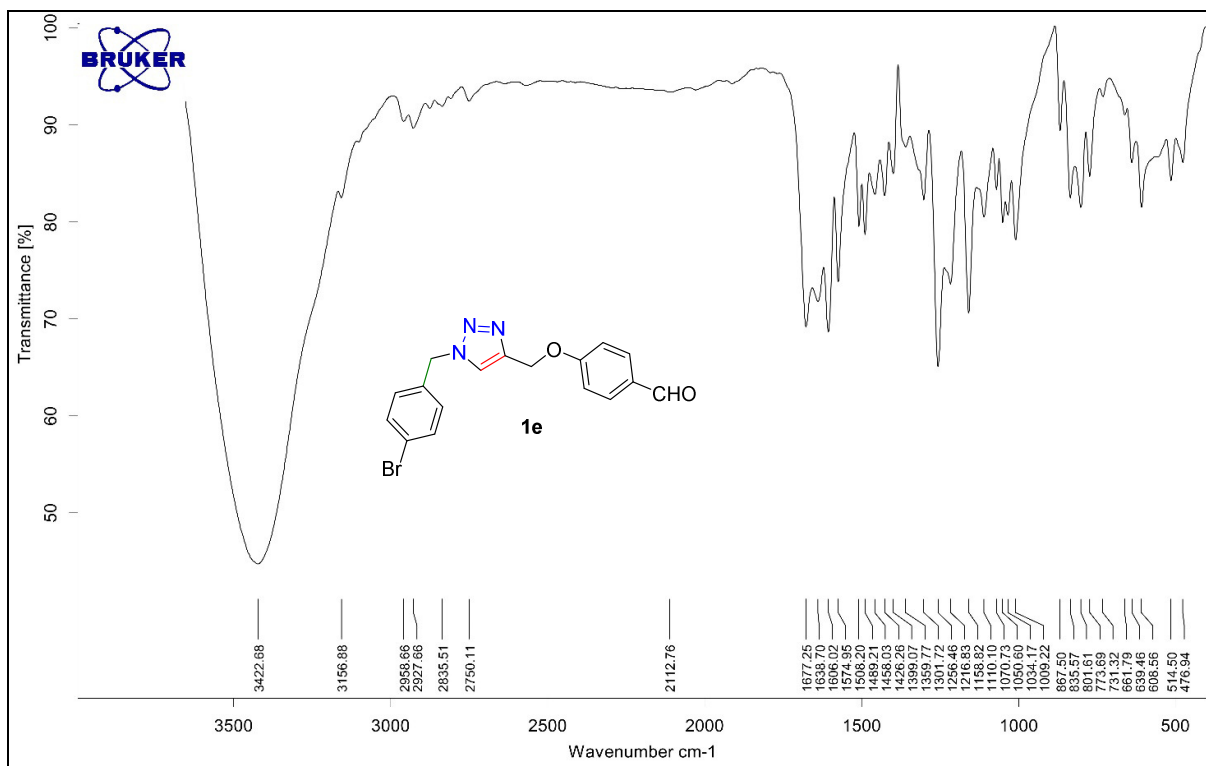
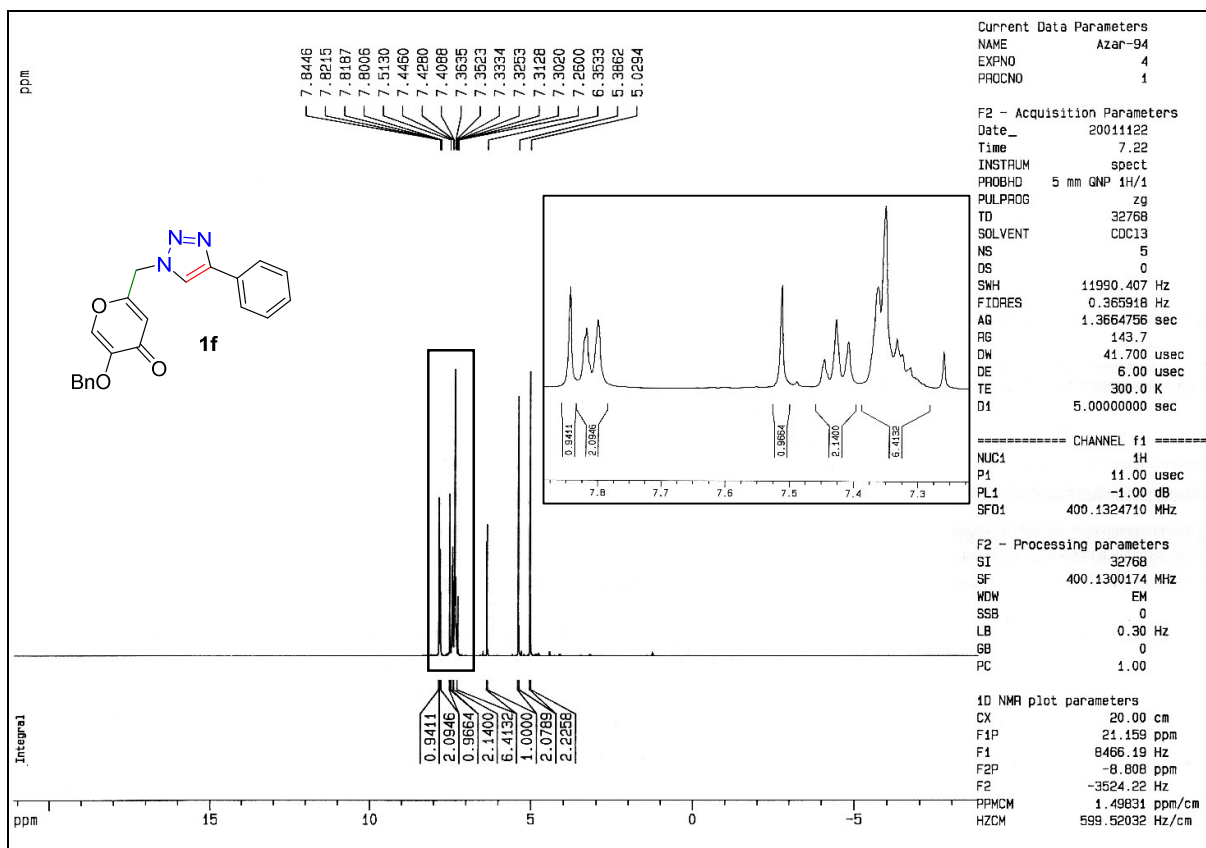
Figure S5. ^{13}C NMR spectrum (100 MHz, CDCl_3) of compound **1b**.Figure S6. FTIR (KBr) spectrum of compound **1b**.

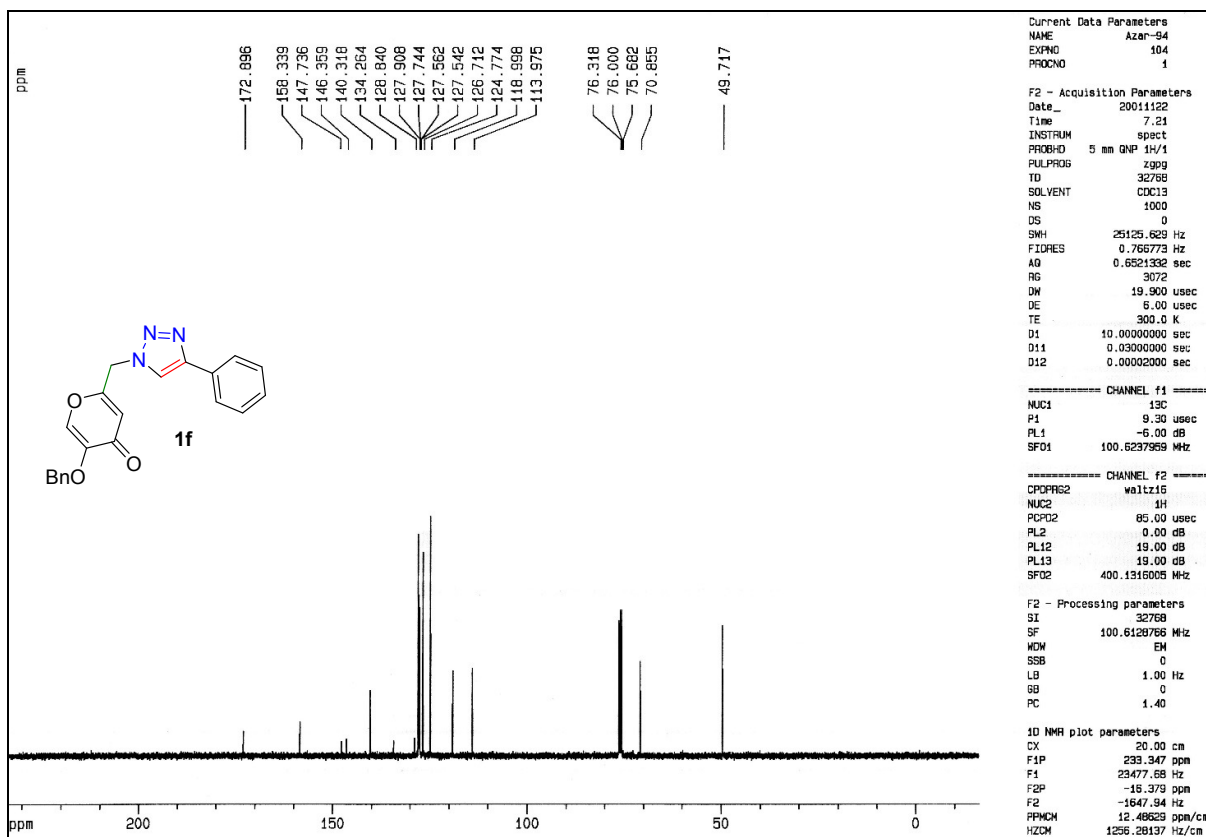
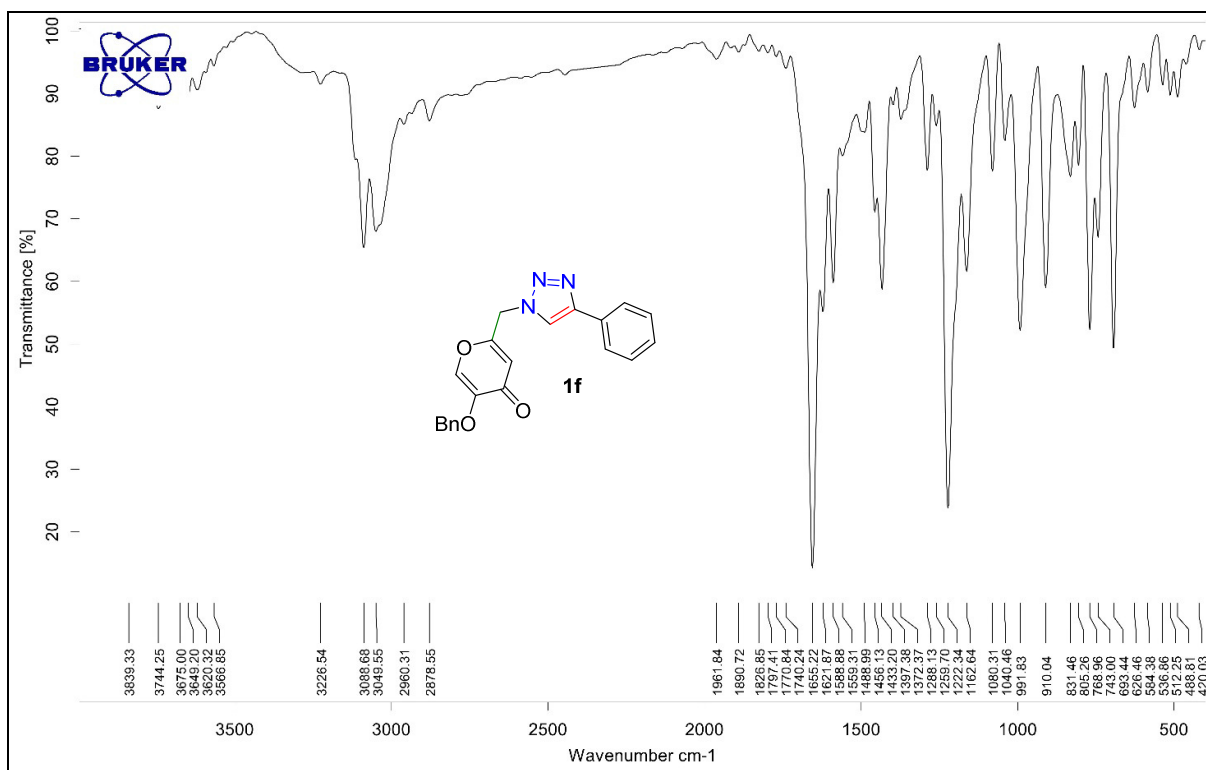
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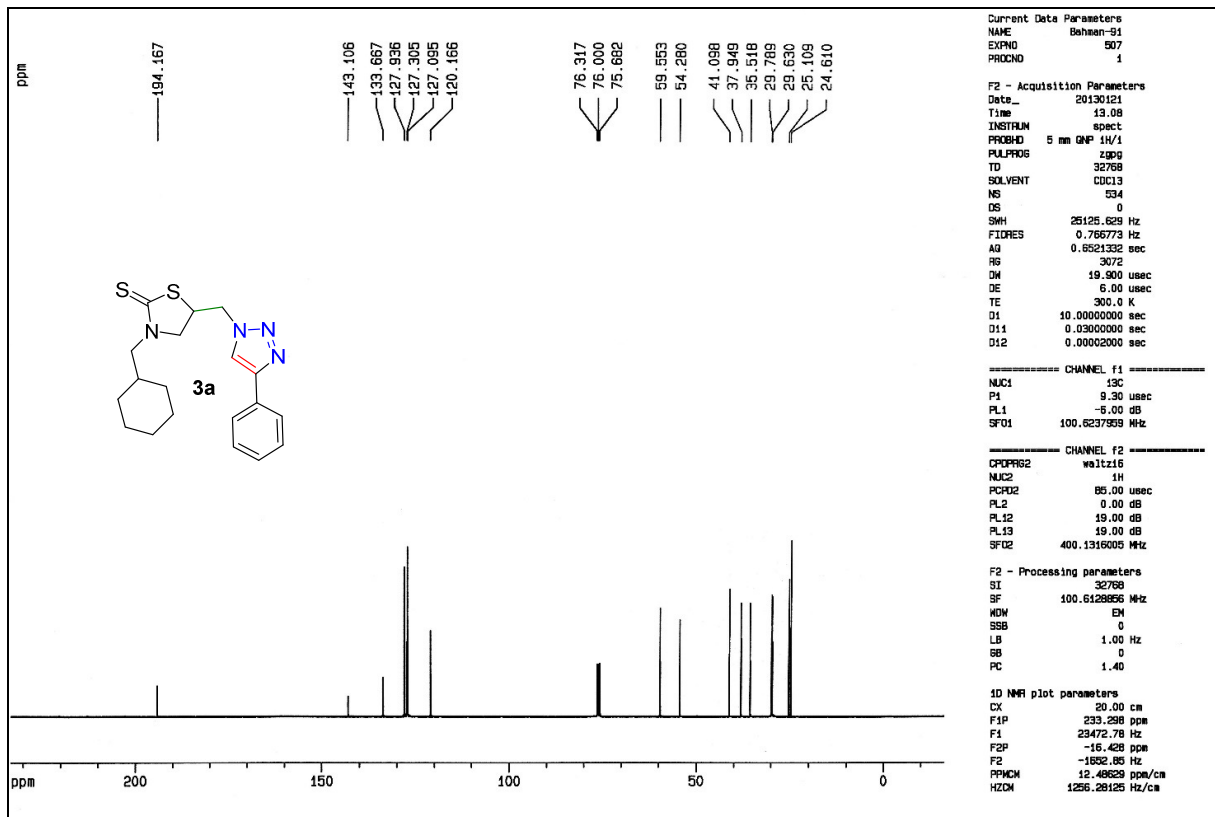
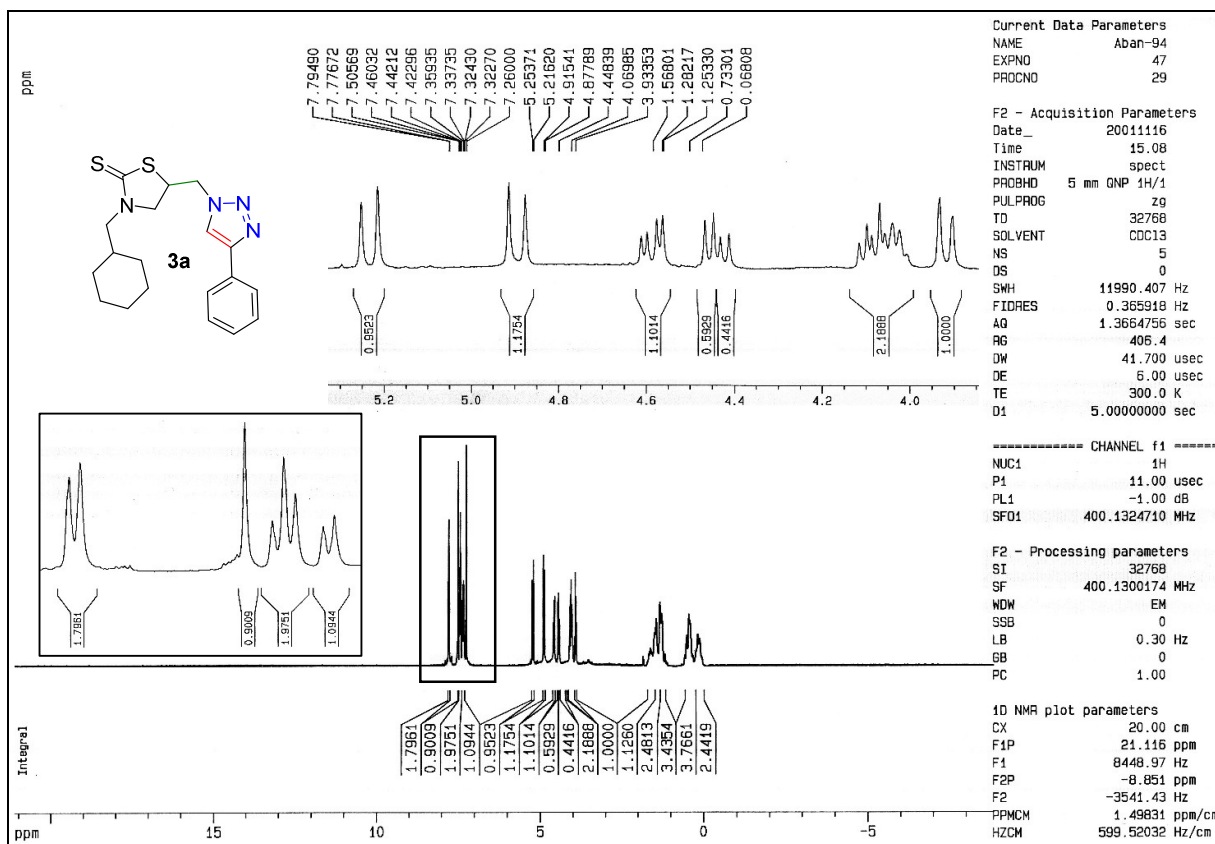
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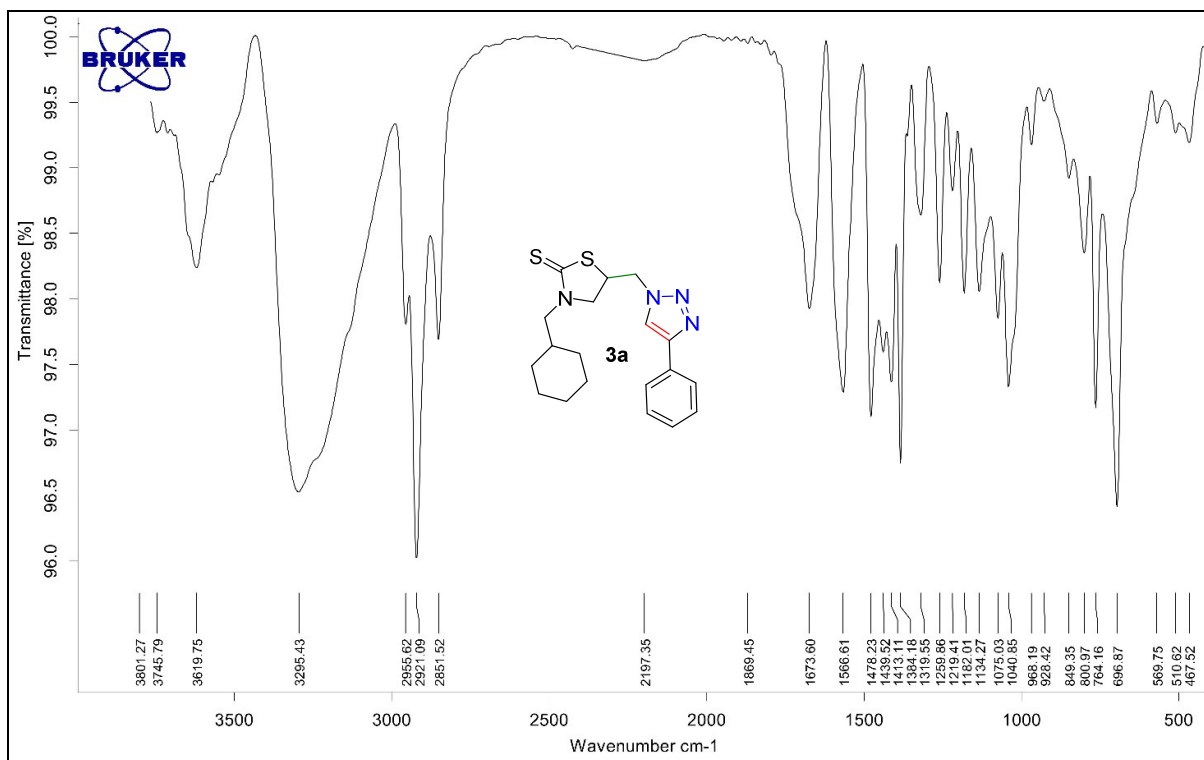
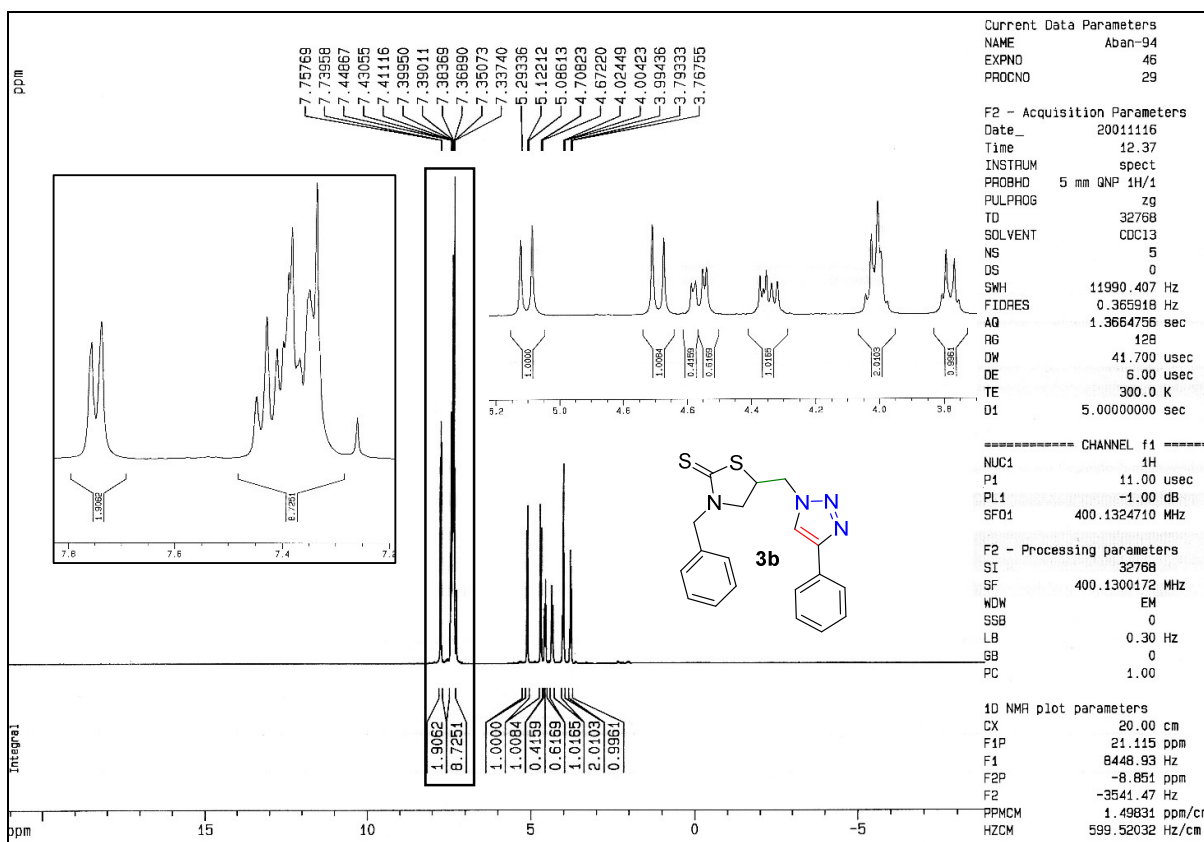
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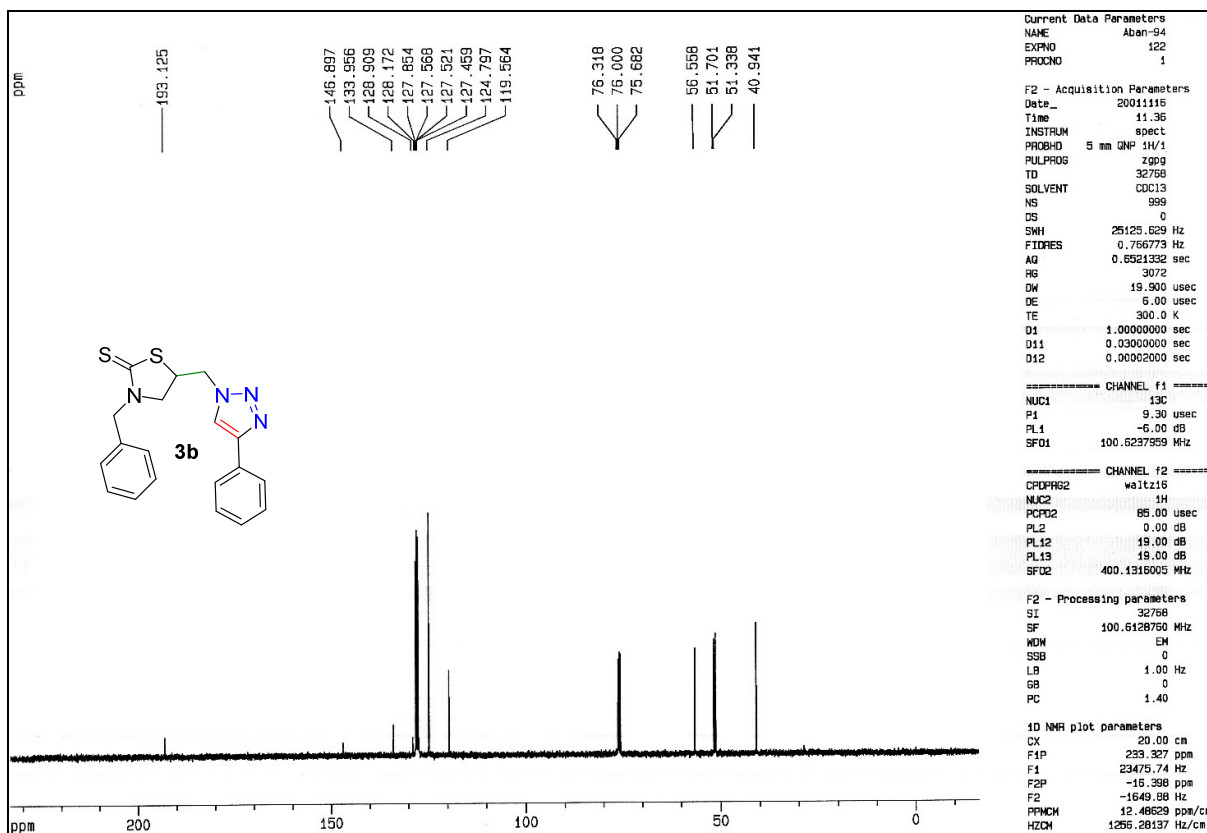
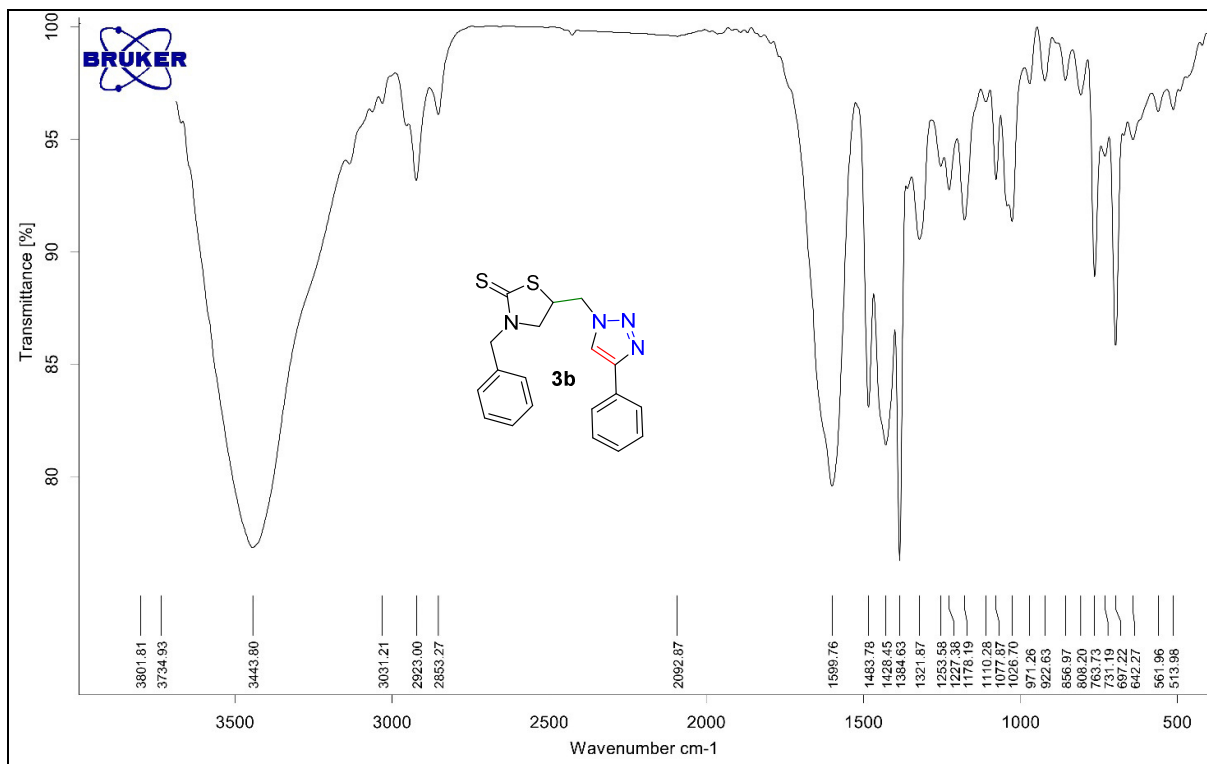
Figure S13. ¹H NMR spectrum (400 MHz, CDCl₃) of compound **1e**Figure S14. ¹³C NMR spectrum (100 MHz, CDCl₃) of compound **1e**

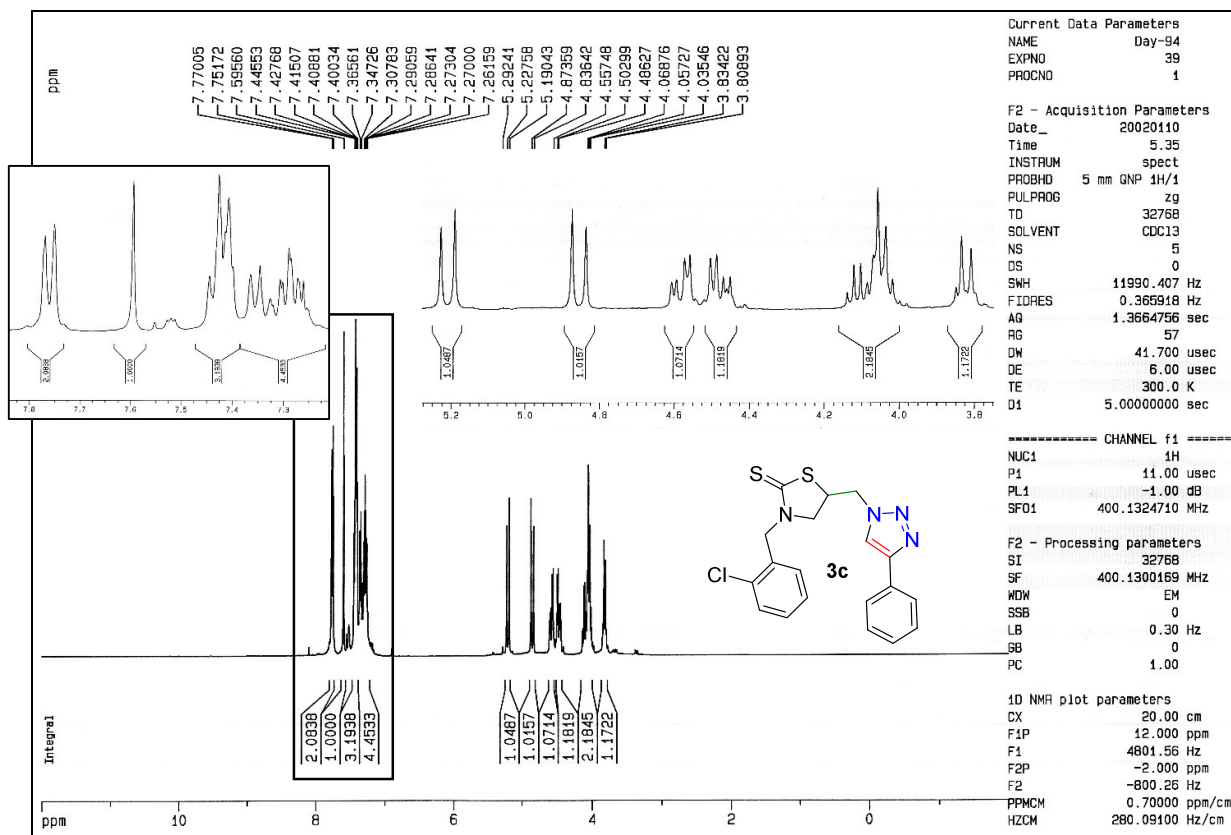
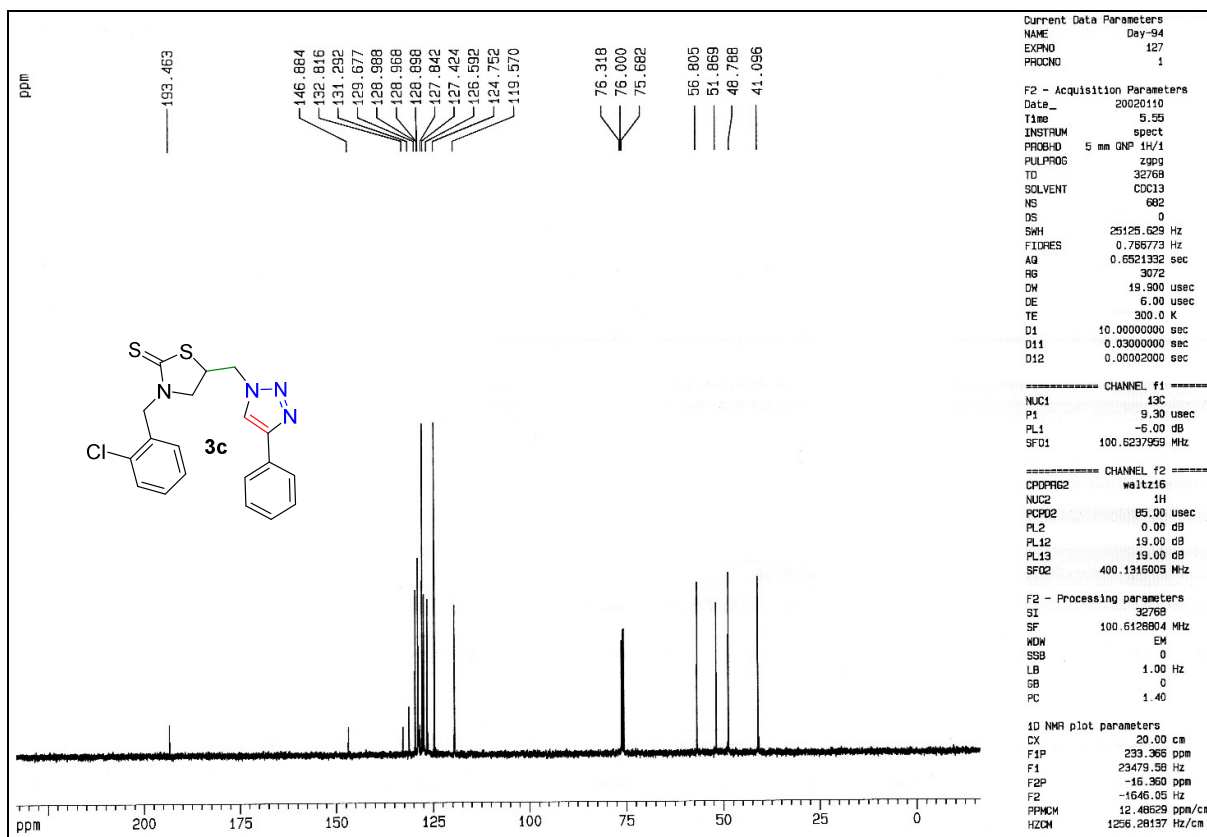
Figure S15. FTIR (KBr) spectrum of compound **1e**.Figure S16. ¹H NMR spectrum (400 MHz, CDCl₃) of compound **1f**.

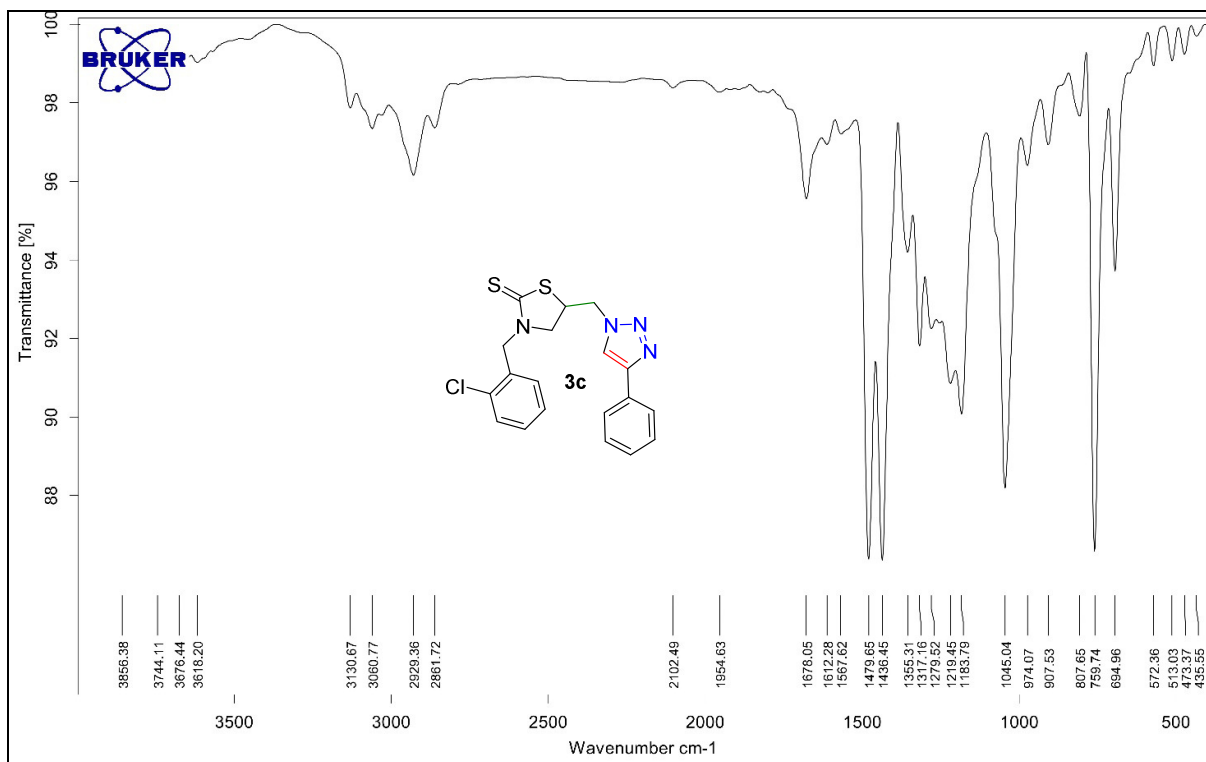
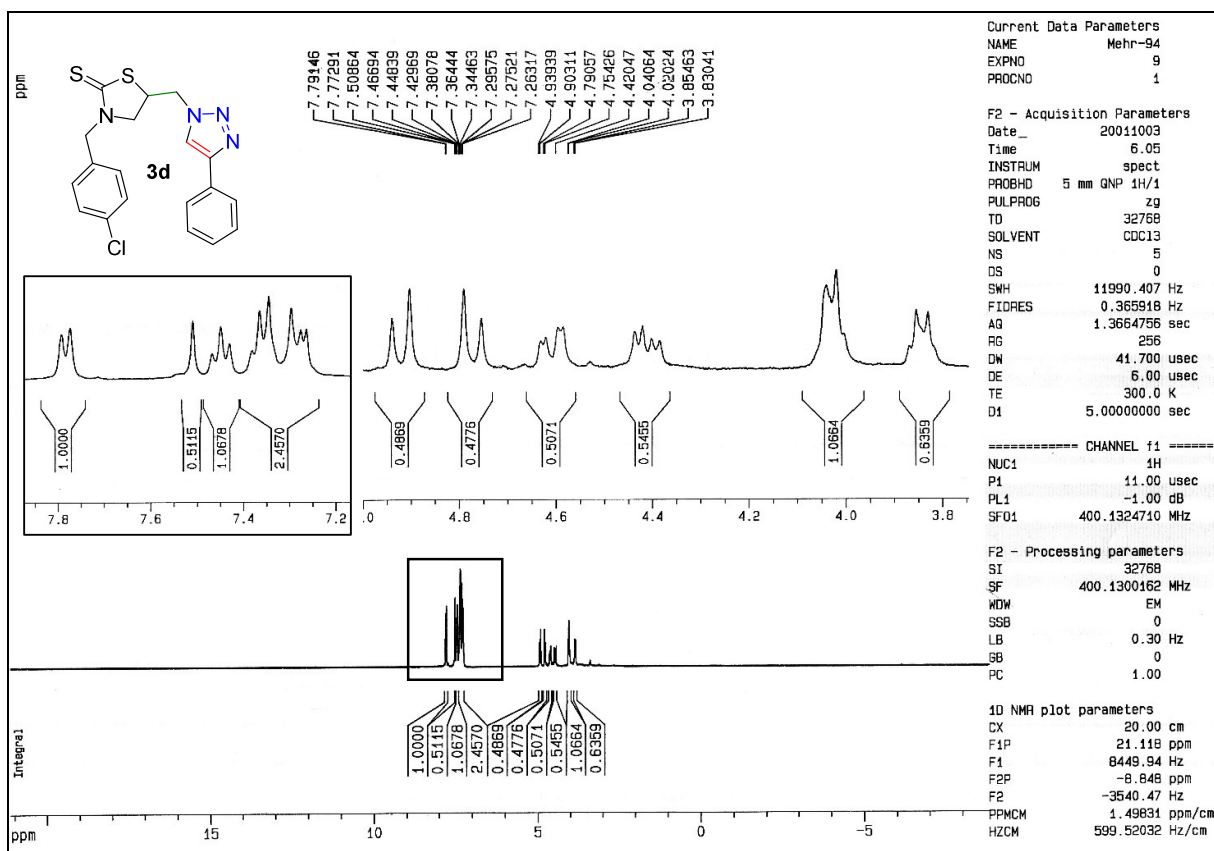
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Figure S25. ¹H NMR spectrum (400 MHz, CDCl₃) of compound 3cFigure S26. ¹³C NMR spectrum (100 MHz, CDCl₃) of compound 3c

Figure S27. FTIR (KBr) spectrum of compound **3c**Figure S28. ¹H NMR spectrum (400 MHz, CDCl₃) of compound **3d**

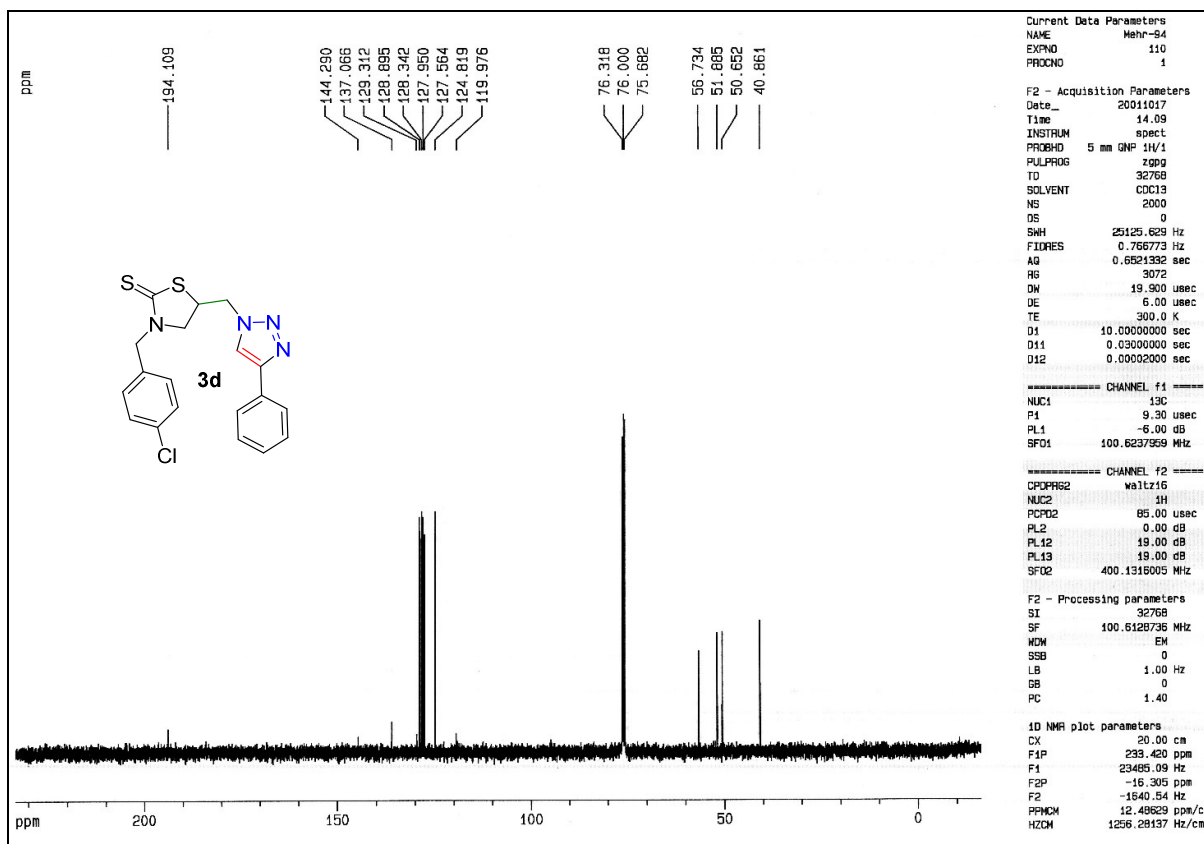
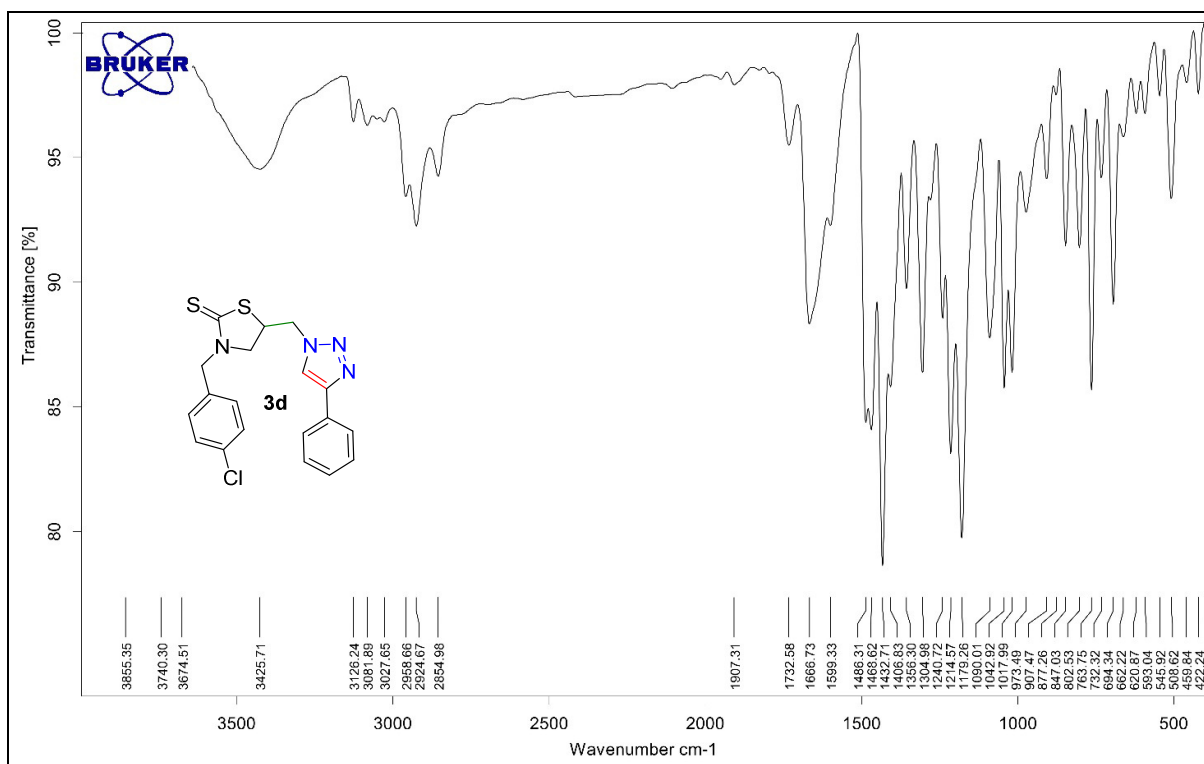
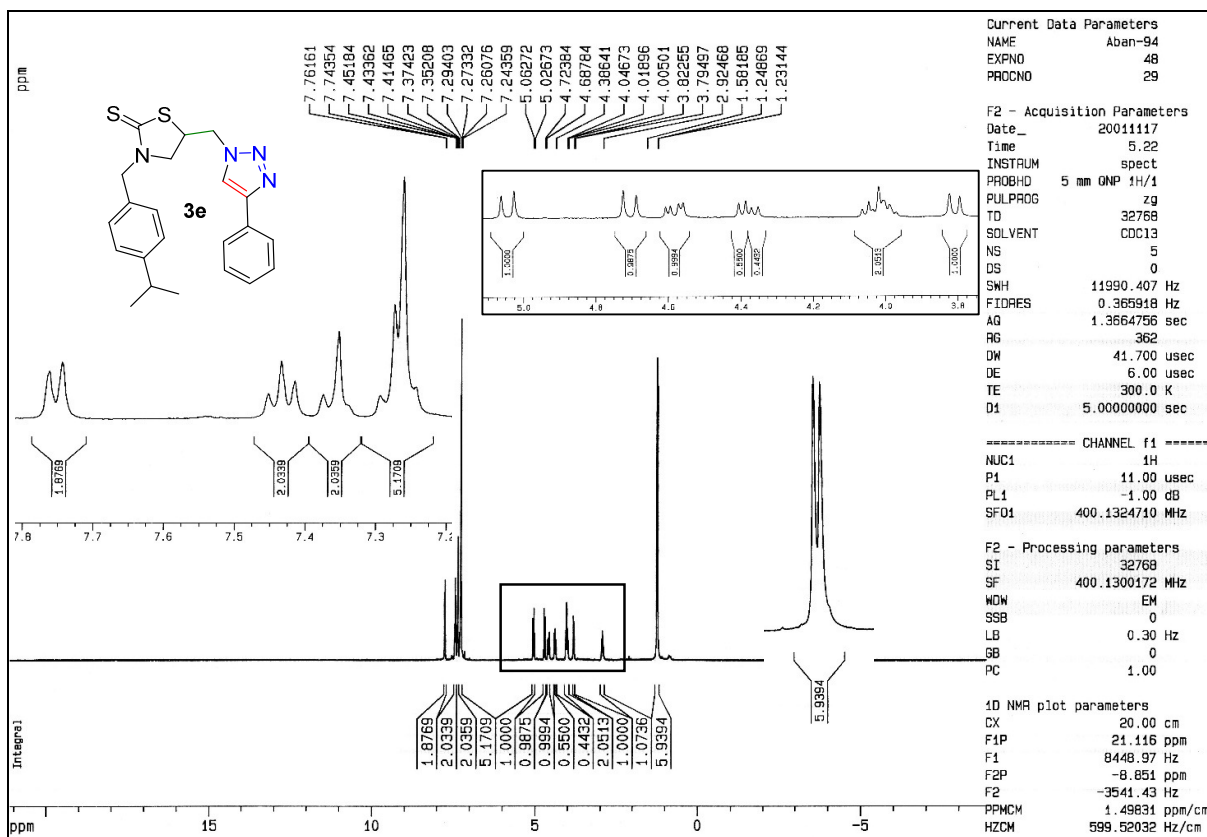
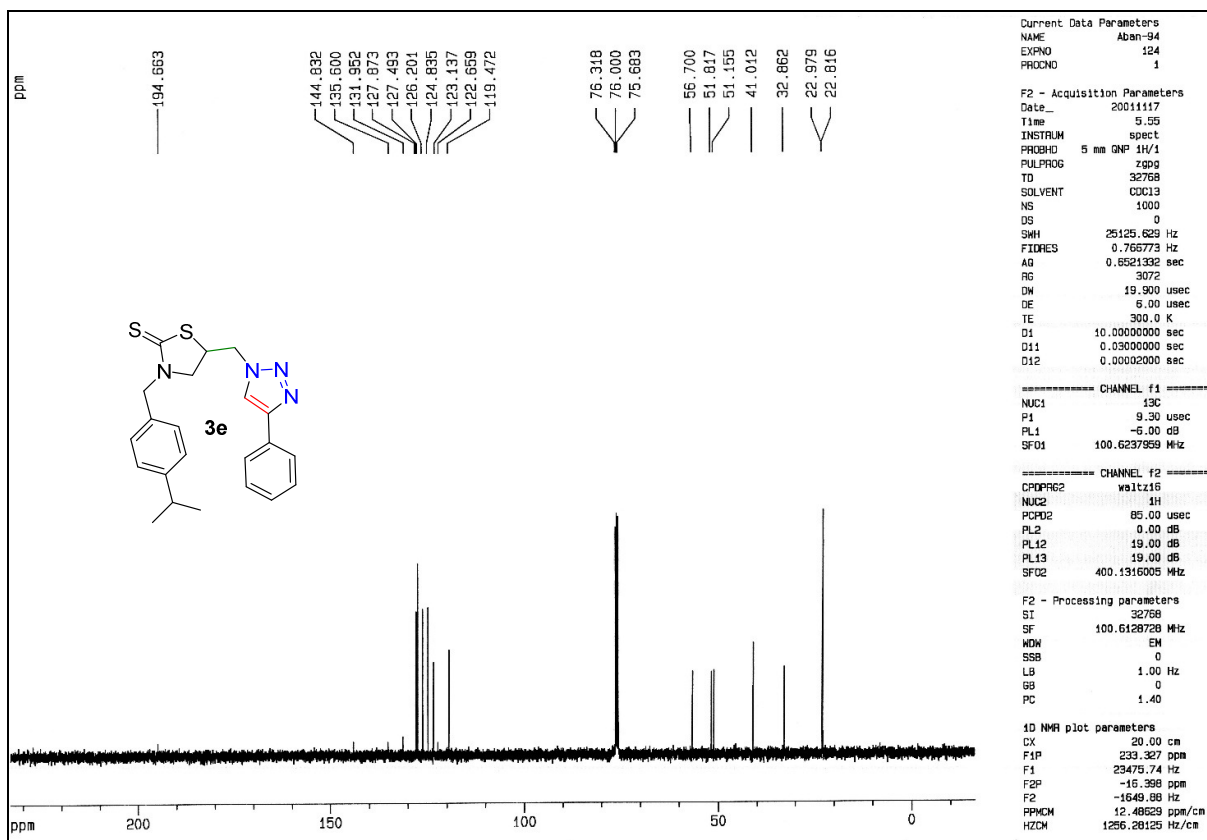
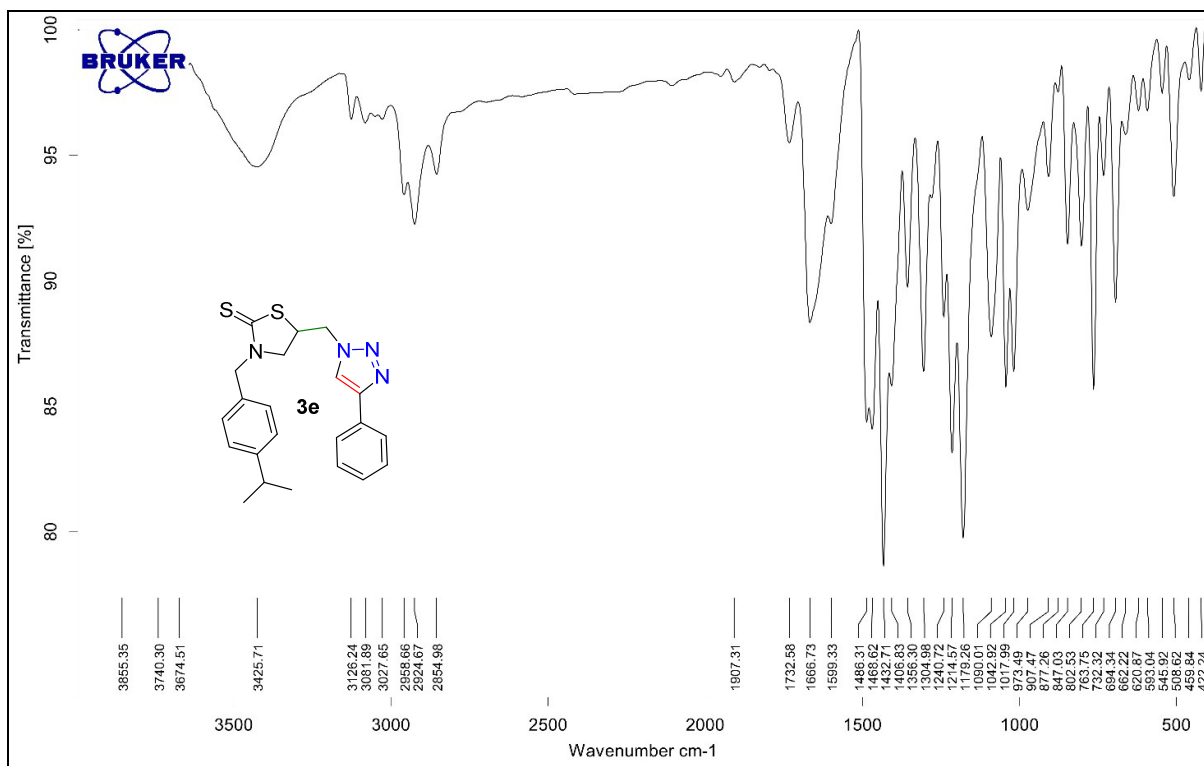
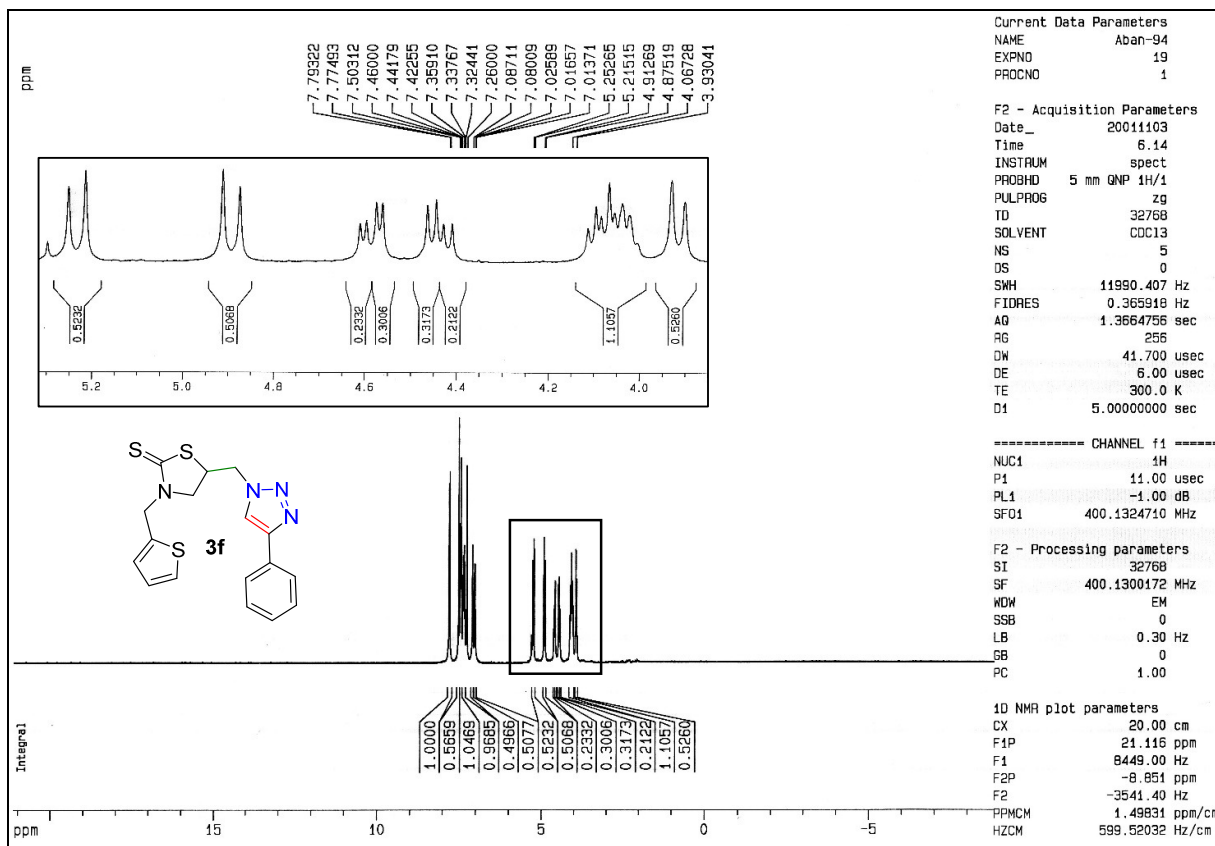
Figure S29. ^{13}C NMR spectrum (100 MHz, CDCl_3) of compound 3d

Figure S30. FTIR (KBr) spectrum of compound 3d

Figure S31. ¹H NMR spectrum (400 MHz, CDCl₃) of compound 3eFigure S32. ¹³C NMR spectrum (100 MHz, CDCl₃) of compound 3e

Figure S33. FTIR (KBr) spectrum of compound **3e**Figure S34. ¹H NMR spectrum (400 MHz, CDCl₃) of compound **3f**

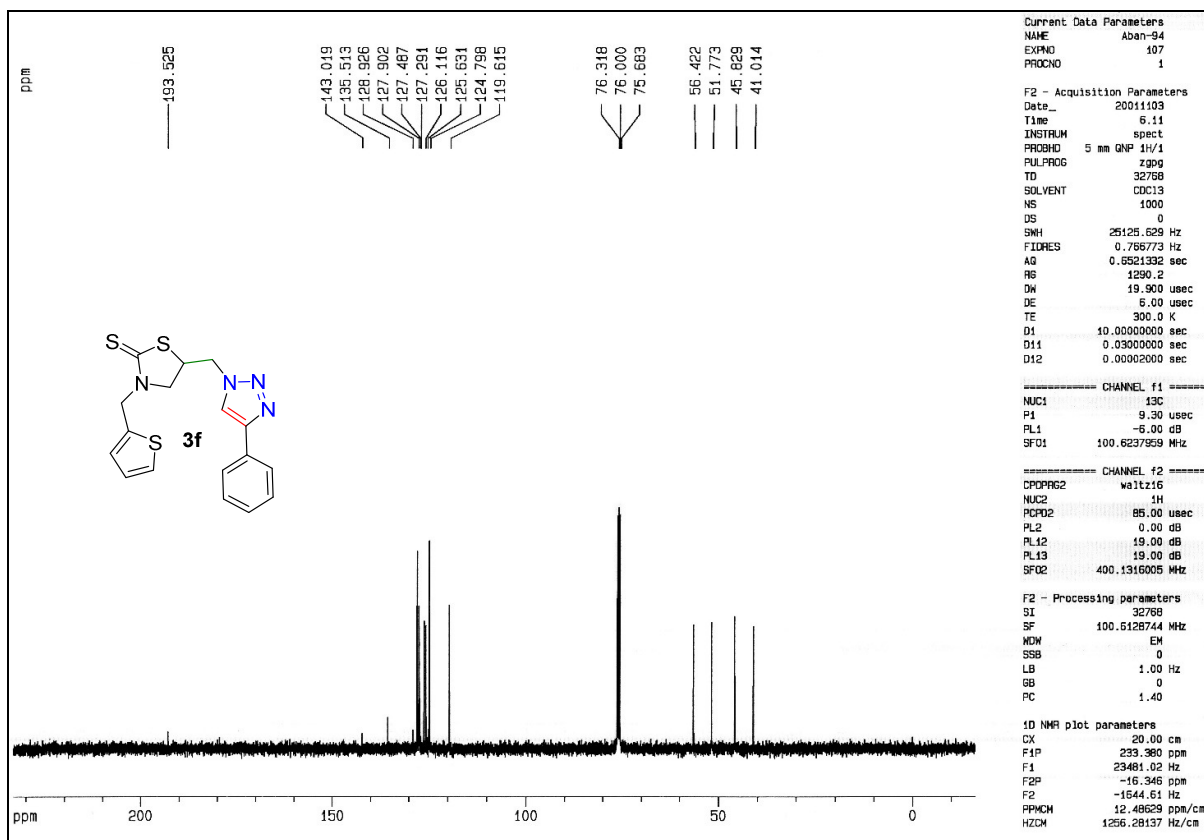
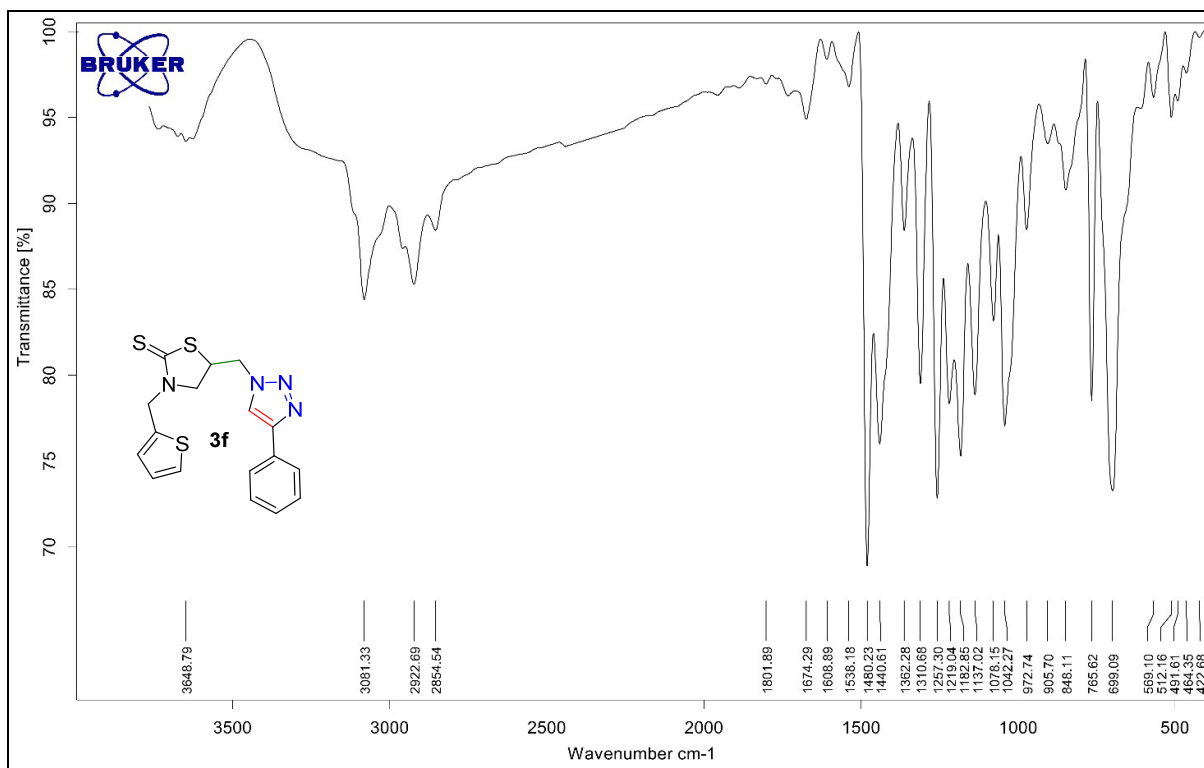
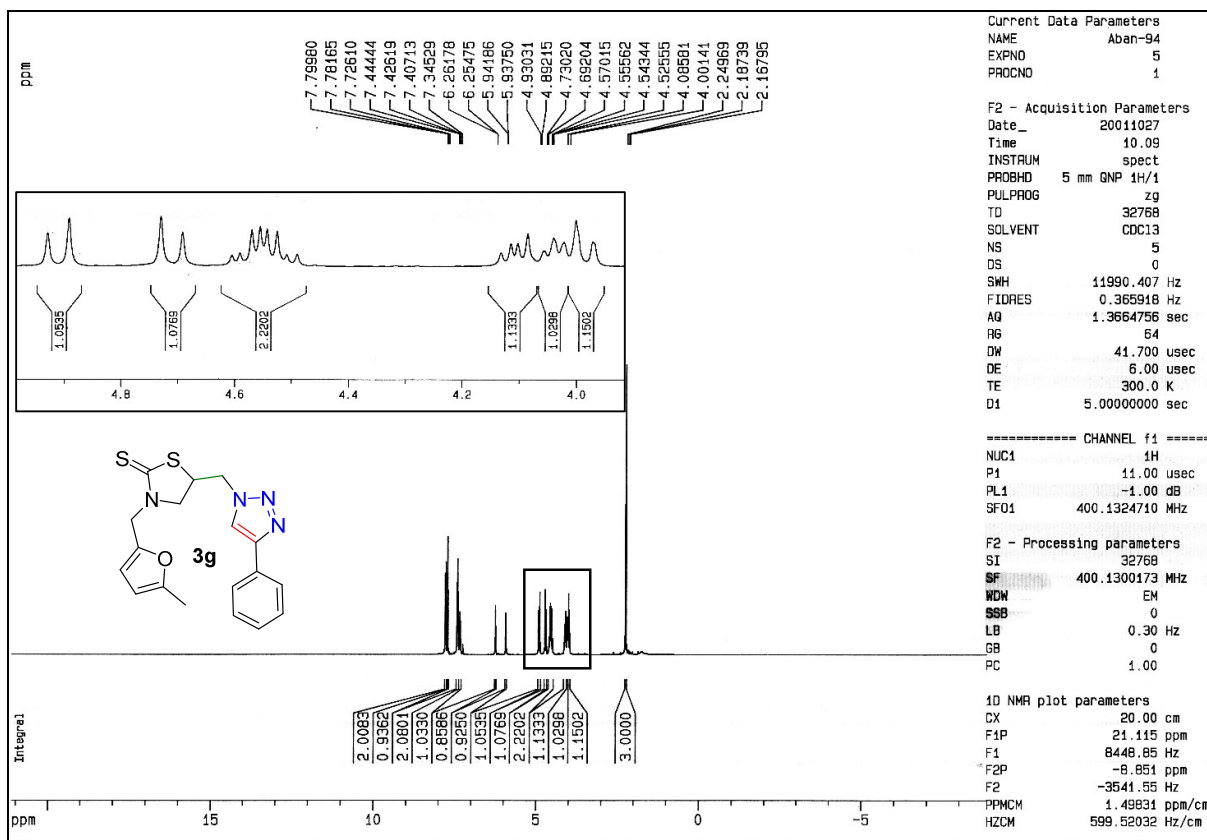
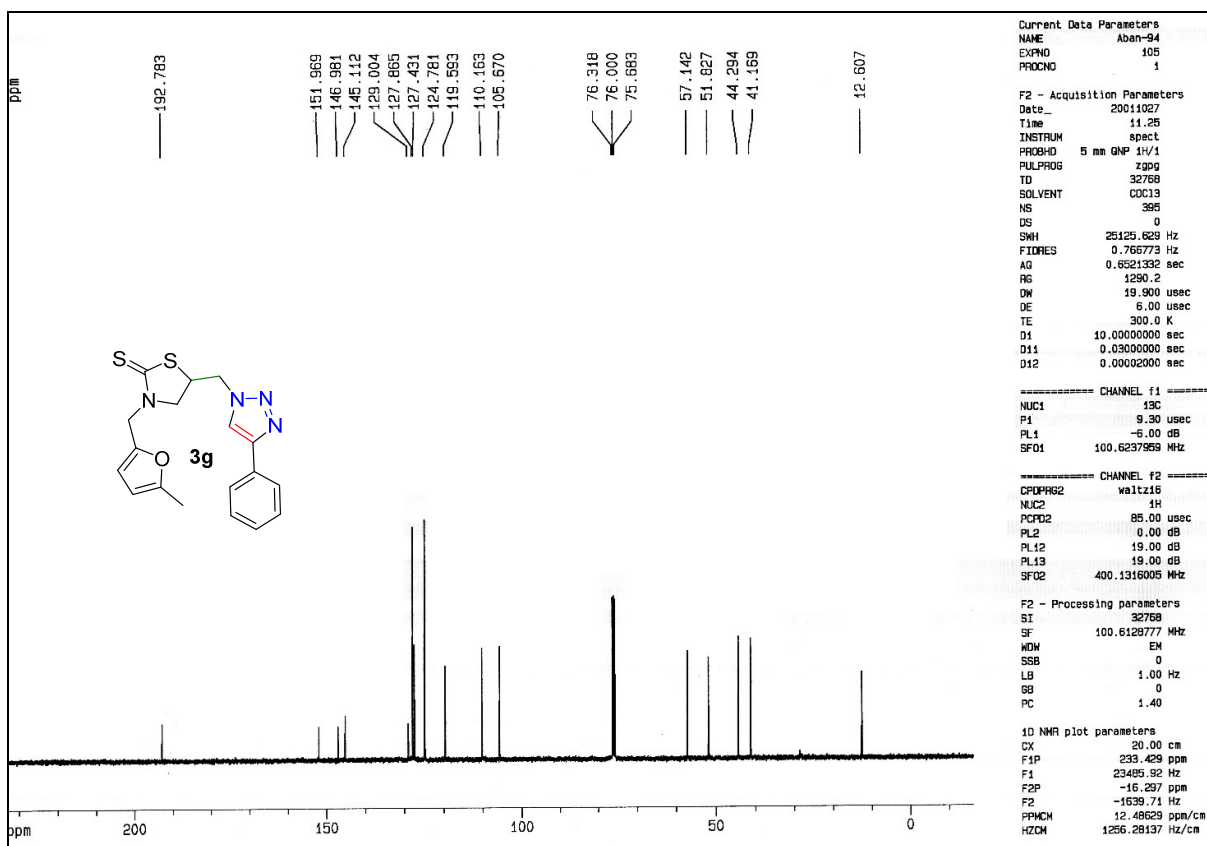
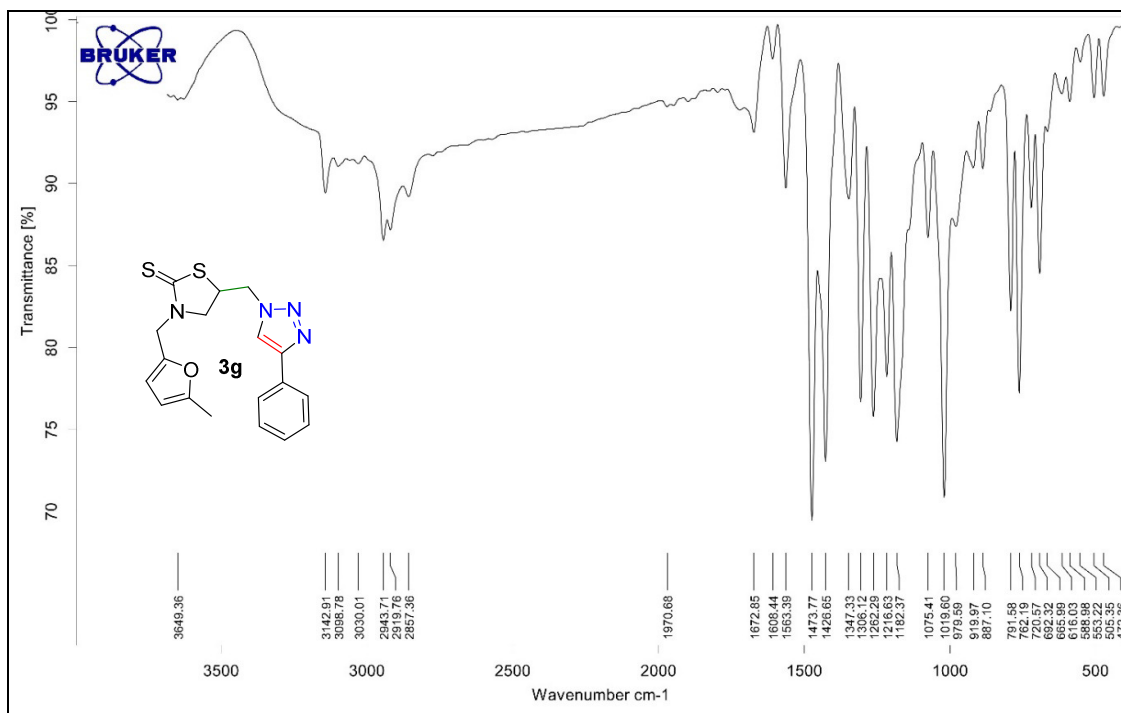
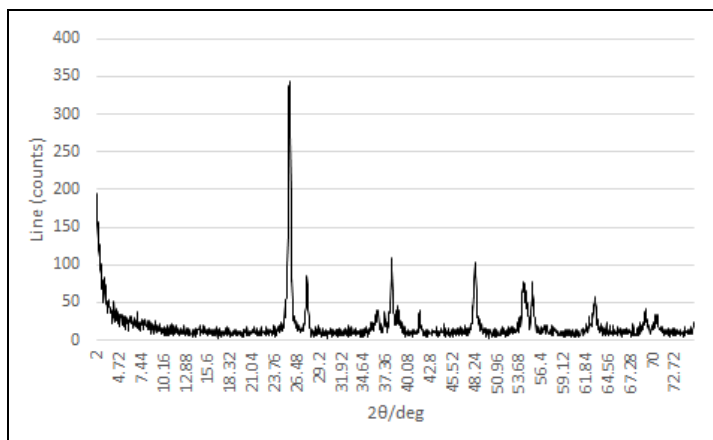
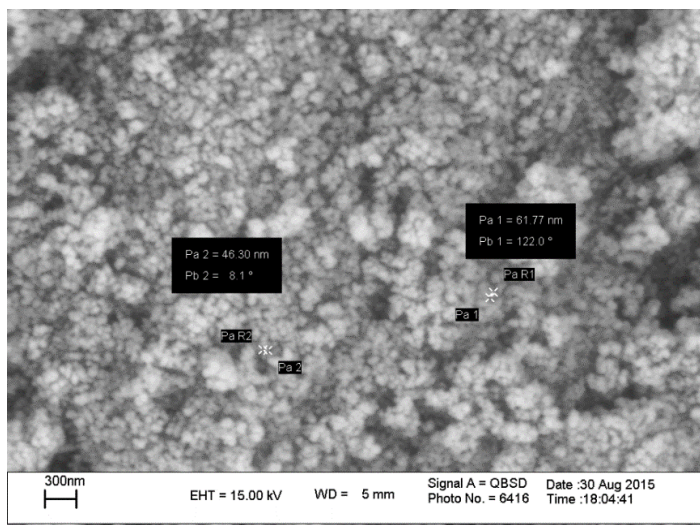
Figure S35. ¹³C NMR spectrum (100 MHz, CDCl₃) of compound 3f

Figure S36. FTIR (KBr) spectrum of compound 3f

Figure S37. ¹H NMR spectrum (400 MHz, CDCl₃) of compound **3g**Figure S38. ¹³C NMR spectrum (100 MHz, CDCl₃) of compound **3g**

Figure S39. FTIR (KBr) spectrum of compound **3g**Figure S40. The XRD of Cu/TiO₂ nanocatalystFigure S41. The SEM of Cu/TiO₂ nanocatalyst