**Supplementary Material**

Synthesis, solution stability and structural characterization of quinolinol based silver(I) complexes

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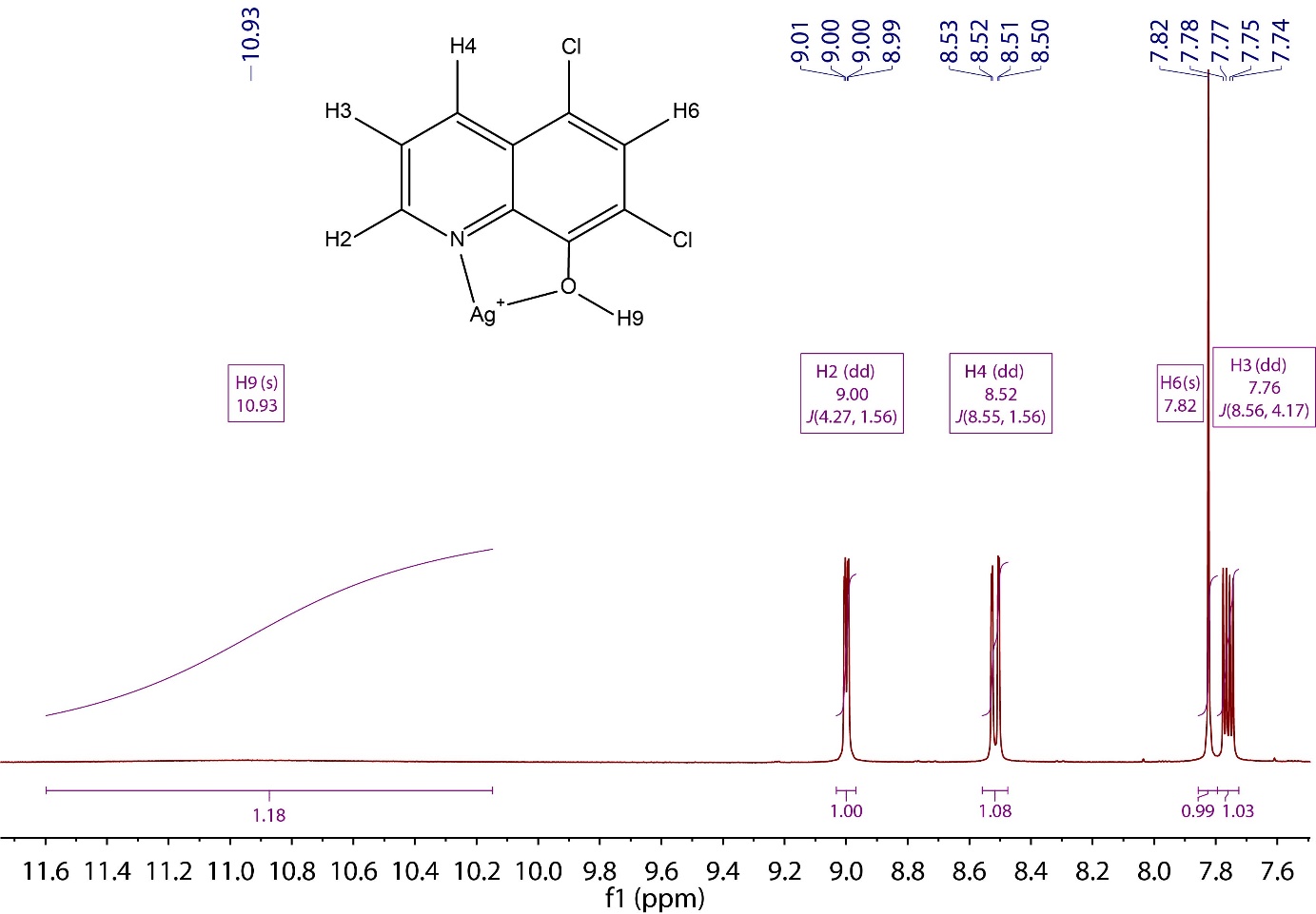


Figure S1. 1H NMR (400.13 MHz, DMSO-d6, 25 °C) spectrum of **1**.

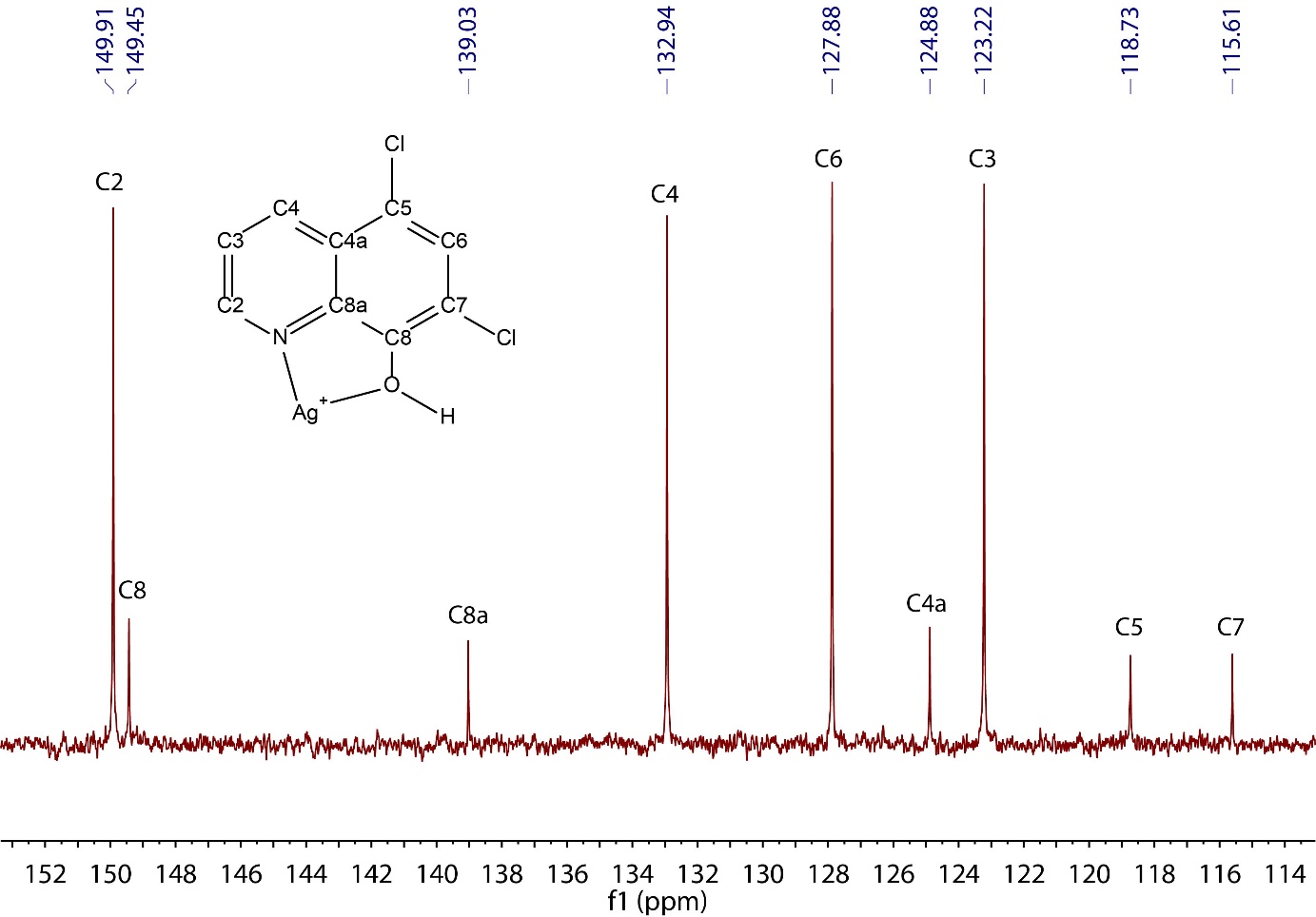


Figure S2. 13C{1H} NMR (101 MHz, DMSO-d6) spectrum of **1**.

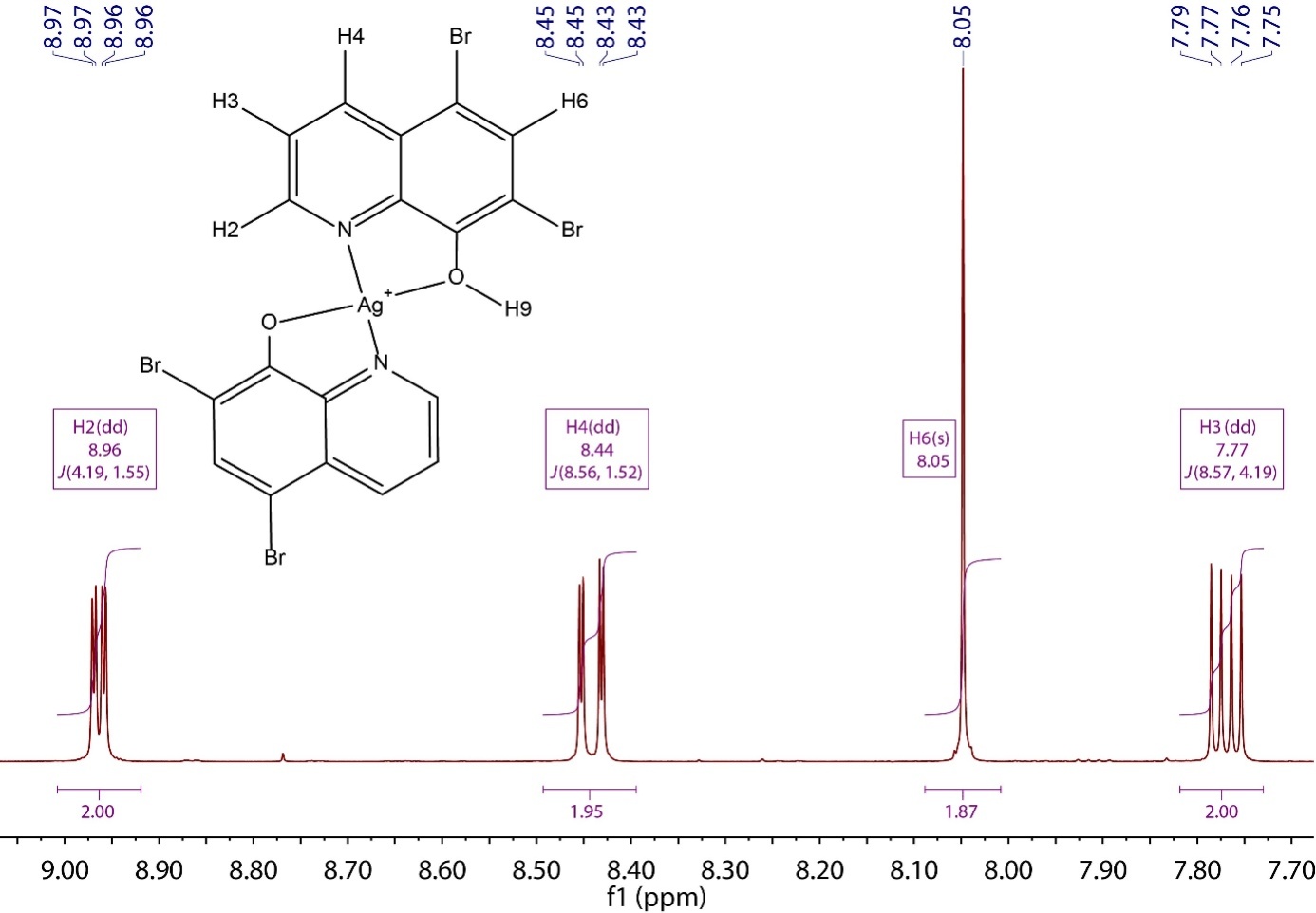


Figure S3. 1H NMR (400.13 MHz, DMSO-d6, 25 °C) spectrum of **2**.

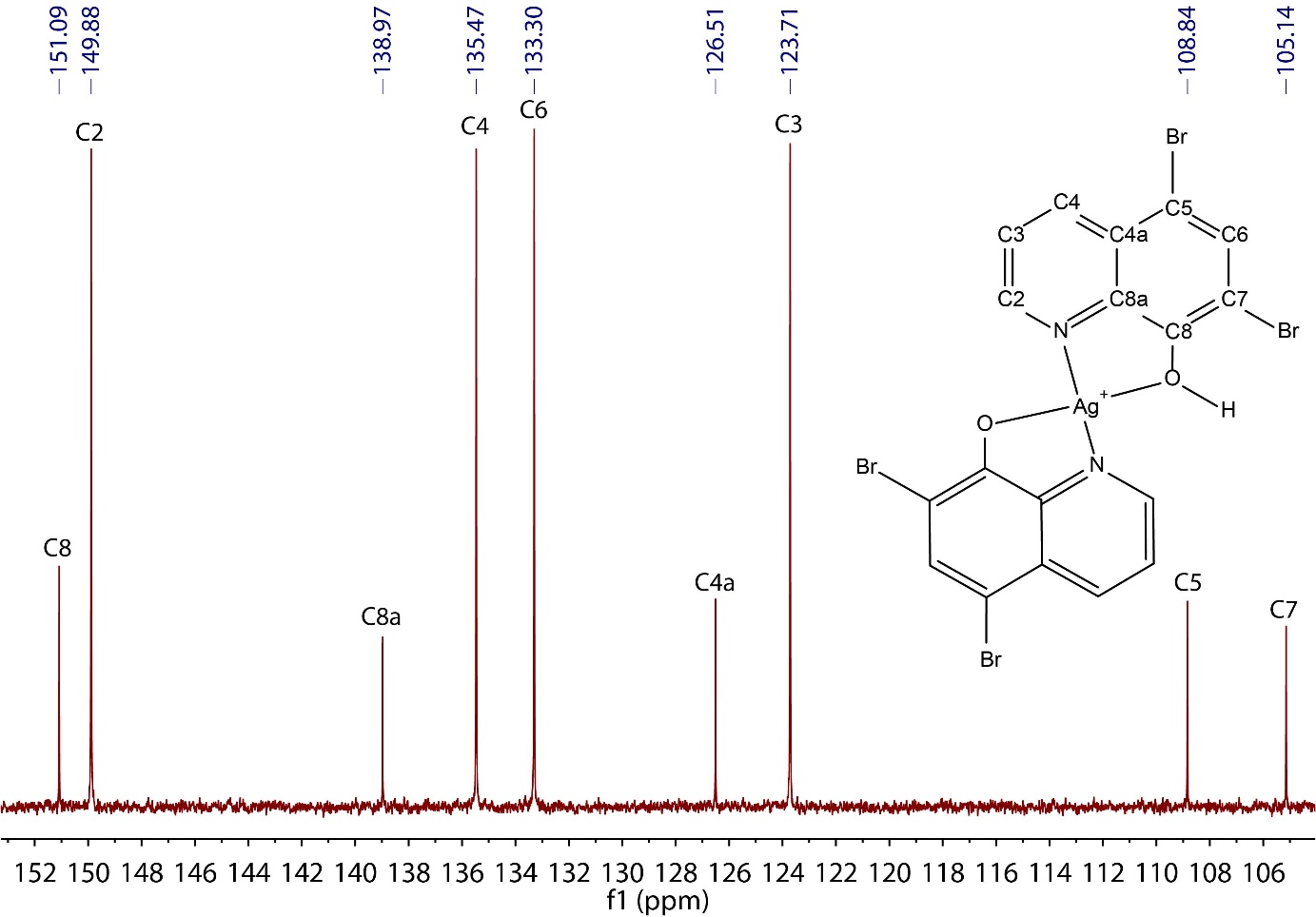


Figure S4. 13C{1H} NMR (101 MHz, DMSO-d6) spectrum of **2**.

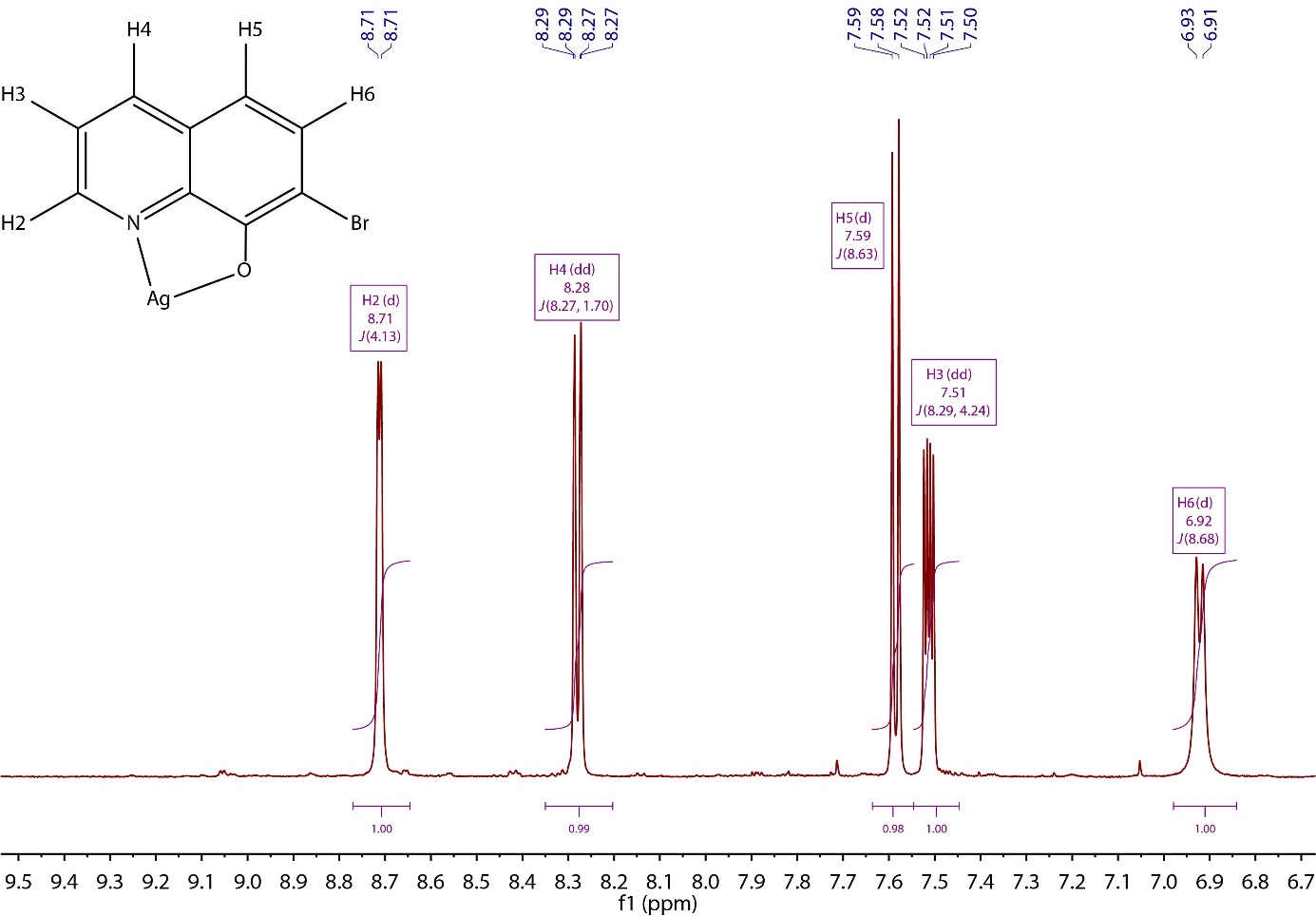


Figure S5. 1H NMR (600.17 MHz, DMSO-d6, 25 °C) spectrum of **3**.

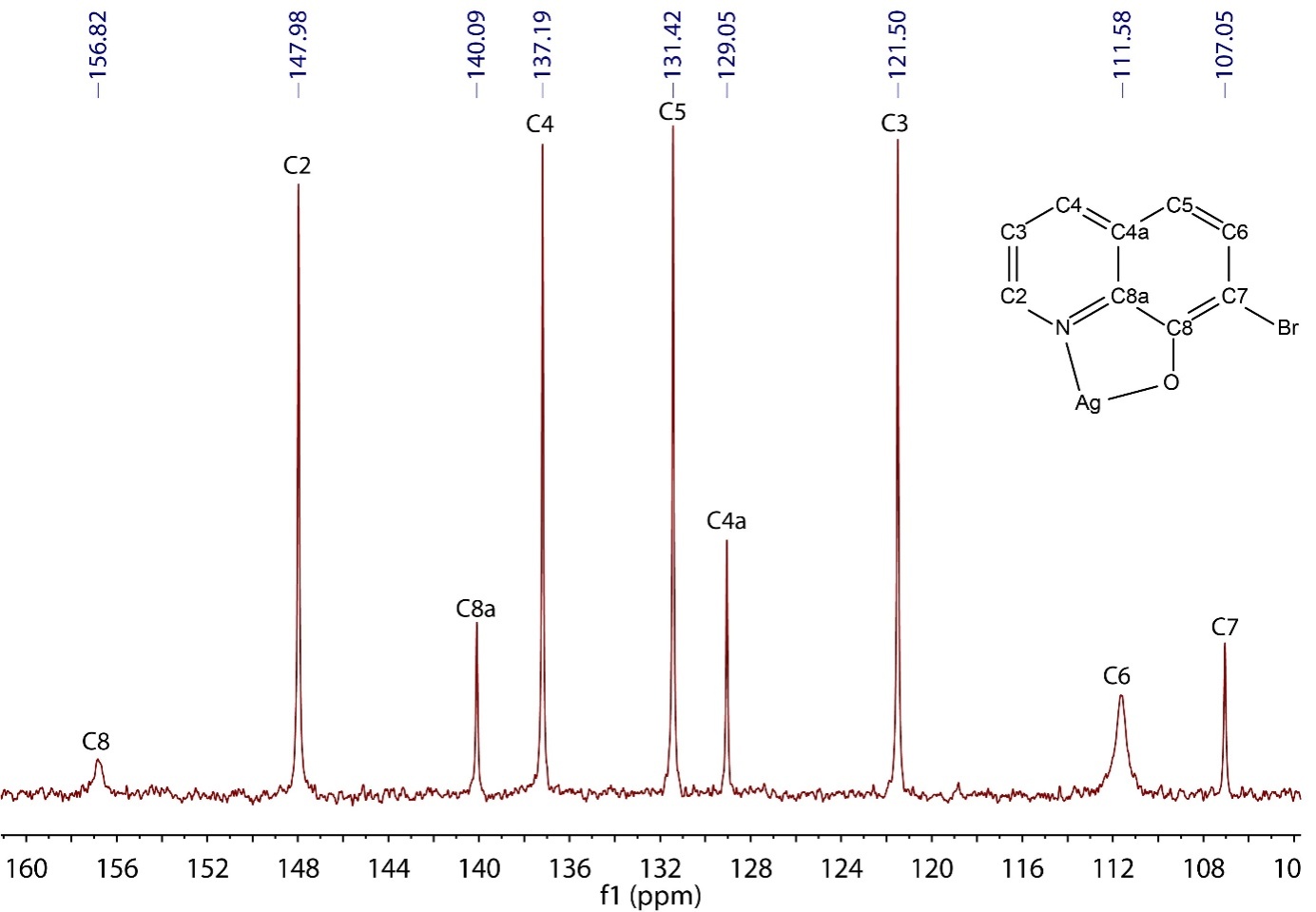


Figure S6. 13C{1H} NMR (150.93 MHz, DMSO-d6) spectrum of **3**.

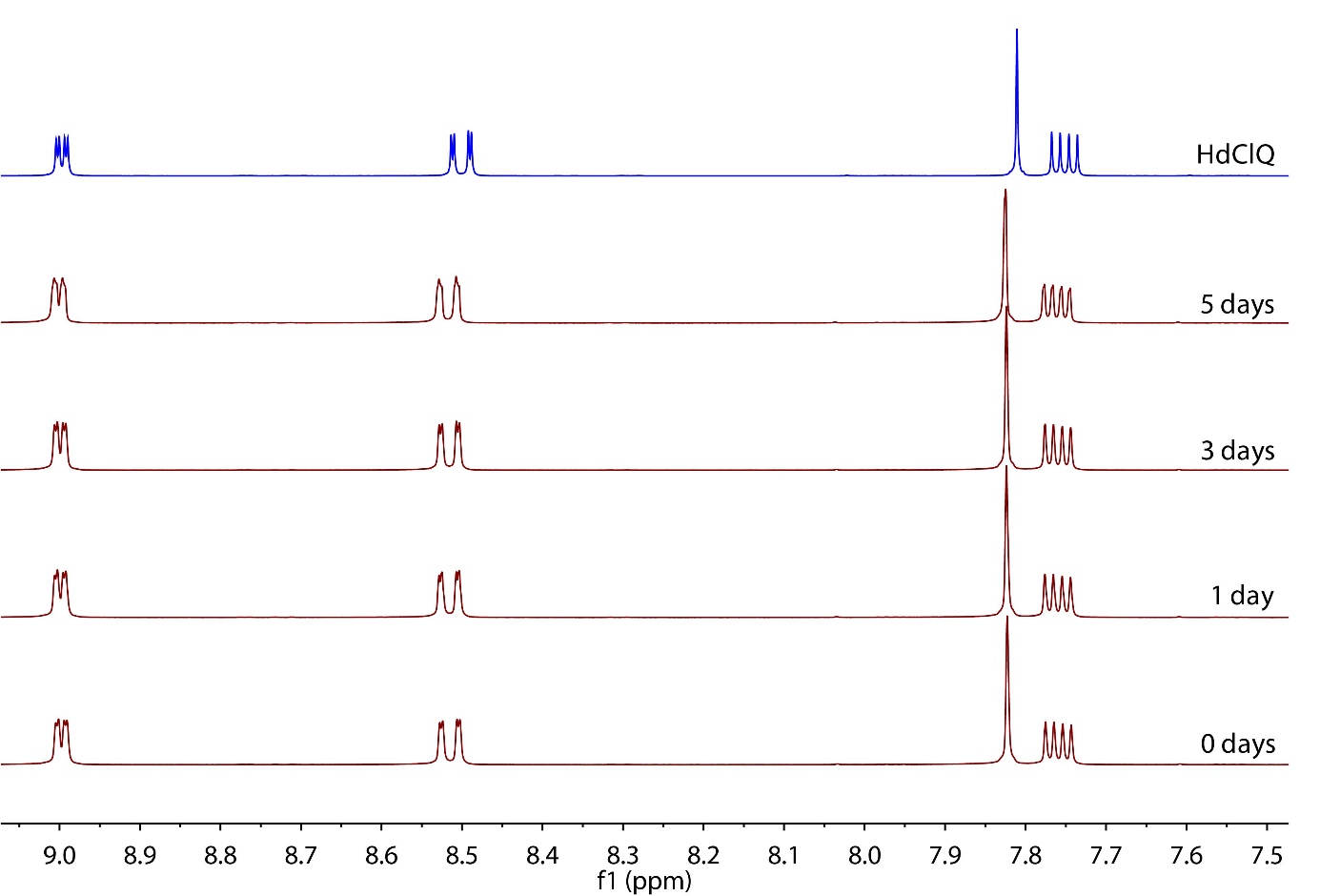


Figure S7. The 1H NMR spectra (400.13 MHz, DMSO-d6, 25 °C) of **1** measured at different times after preparation of the solution and the 1H NMR spectrum of the ligand HdClQ.

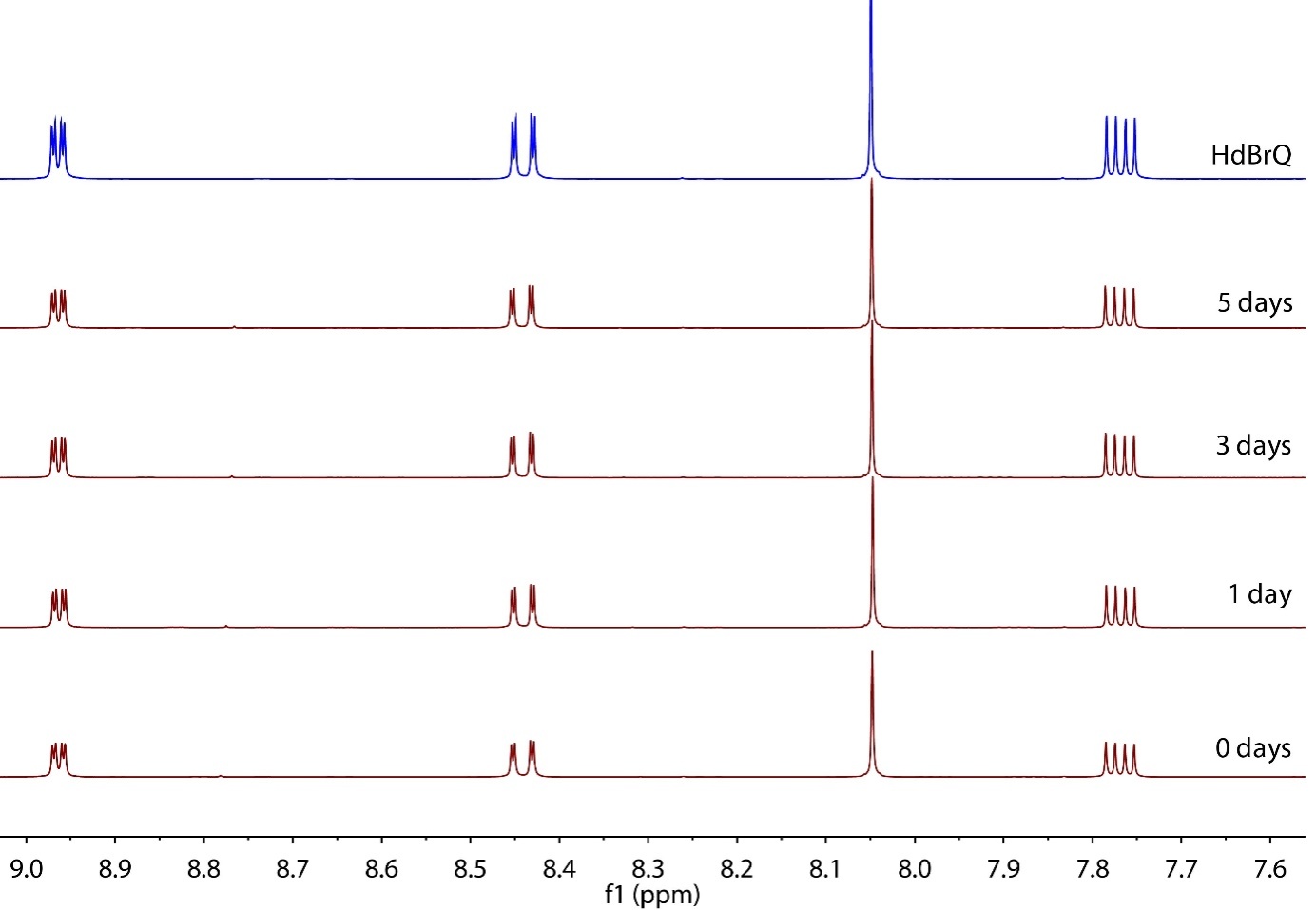


Figure S8. The 1H NMR spectra (400.13 MHz, DMSO-d6, 25 °C) of **2** measured at different times after preparation of the solution and the 1H NMR spectrum of the ligand HdBrQ.

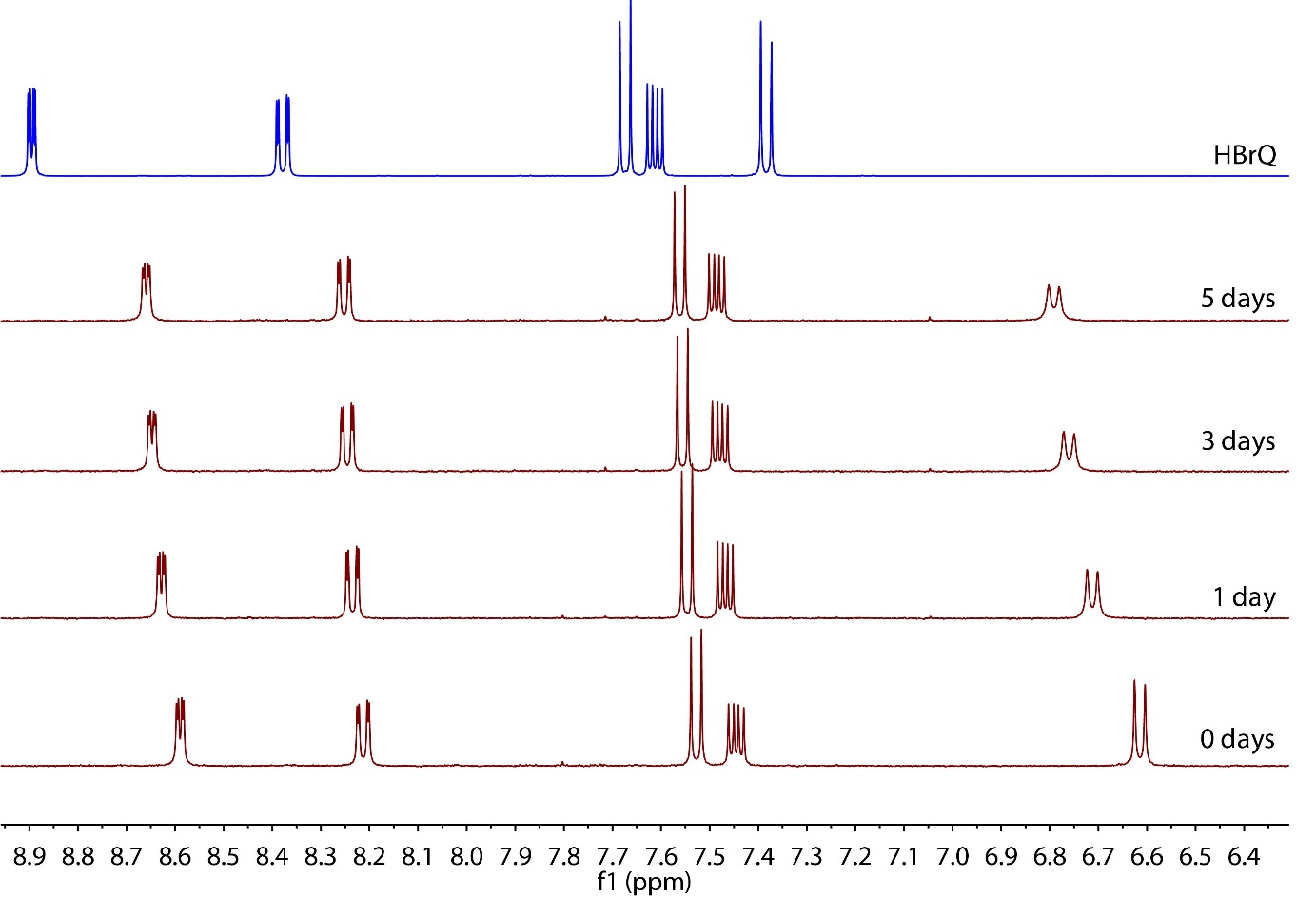


Figure S9.The 1H NMR spectra (400.13 MHz, DMSO-d6, 25 °C) of **3** measured at different times after preparation of the solution and the 1H NMR spectrum of the ligand HBrQ.

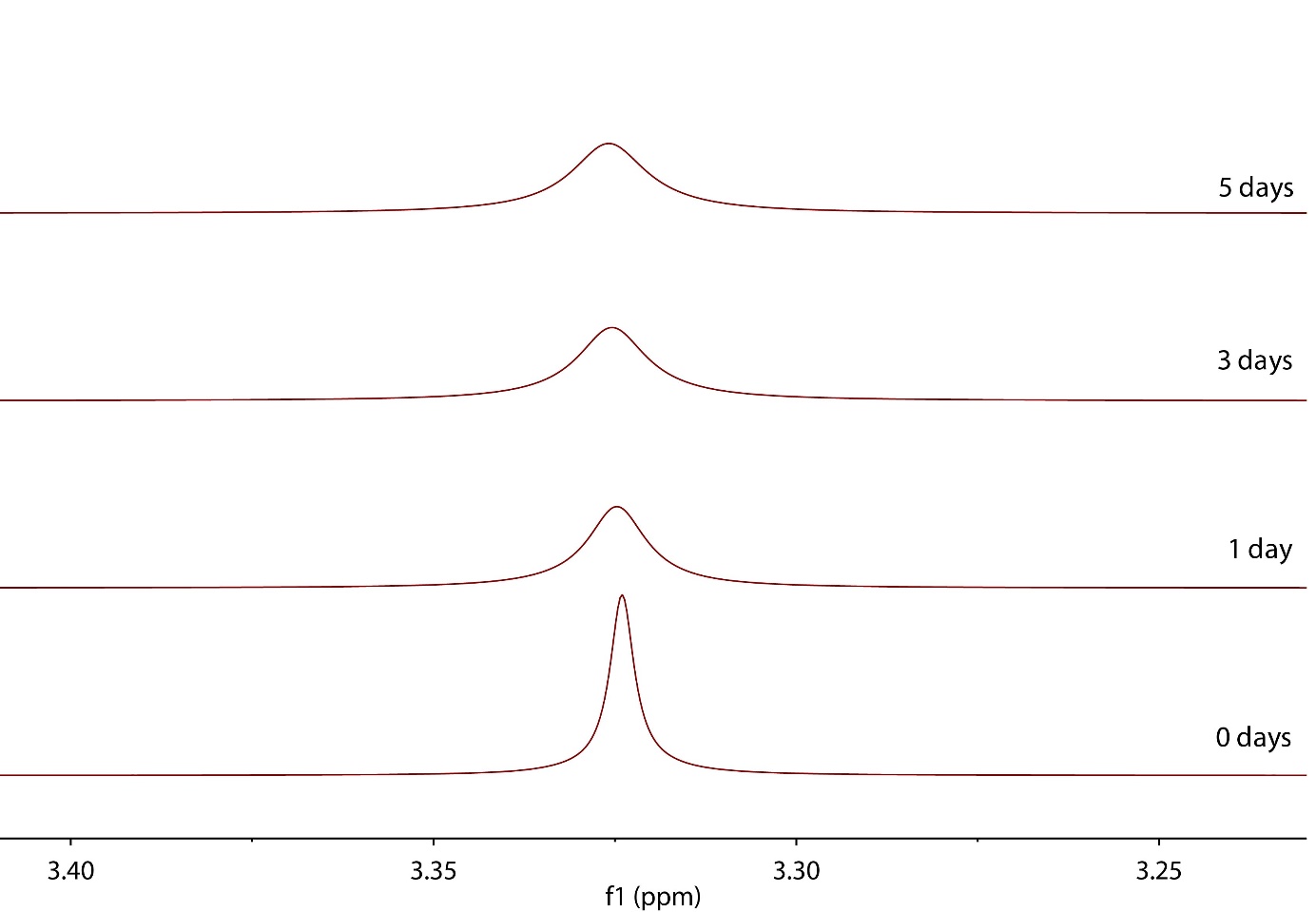


Figure S10. The 1H NMR spectra (400.13 MHz, DMSO-d6, 25 °C) of **3** at different times after preparation of the solution. The water signal is depicted to show that the signal is exchange-broadened.



Figure S11. The UV-vis spectrum of **1** and HdClQ in DMSO in 0, 1 and 3 days.



Figure S12. The UV-vis spectrum of **2** and HdBrQ in DMSO in 0, 1 and 3 days.



Figure S13. The UV-vis spectrum of **3** and HBrQ in DMSO in 0, 1 and 3 days.