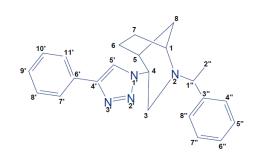
Supplementary Information (SI) for Dalton Transactions. This journal is © The Royal Society of Chemistry 2025 10' N=_N 3้ 3.475 -2.740-2.736 2.904 2.761 -2.685 1.388 .514 2.691 402 498 .623 2.719 1.879 1.647 -7.939 .529 20 5 -8.468 .924 ÷, н .396 .411 7.262 482 .381 .495 -3.796 7.277 .368 4.515 m e Т 9 7 5 3 8 6 2 1 ppm 4 ╏╫╢ ų \mathbf{Y} \mathbf{Y} \mathbf{Y} Y Y Y $[\mathbf{x}] [\mathbf{x}] [$ ų 0.99 3.919.01 1.01 0.5830 2.051.08 2.01 3.04 3.29 11031 2.09.06 1.00

Figure S2a. ¹H NMR spectrum of the ligand (L) in DMF-D₇



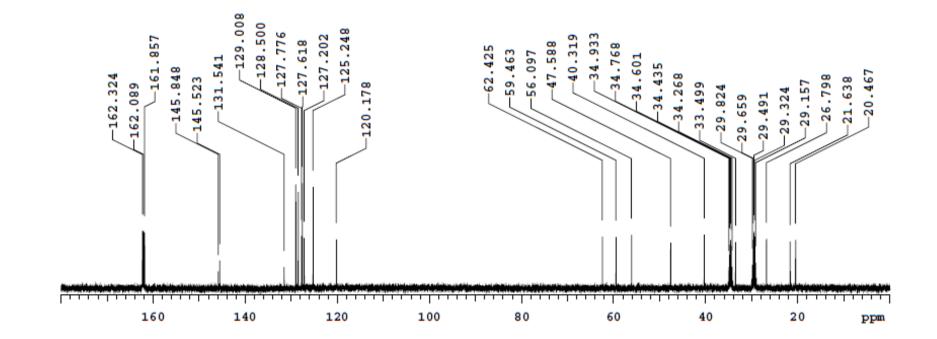


Figure S2b. ¹³C NMR spectrum of the ligand (L) in DMF-D₇

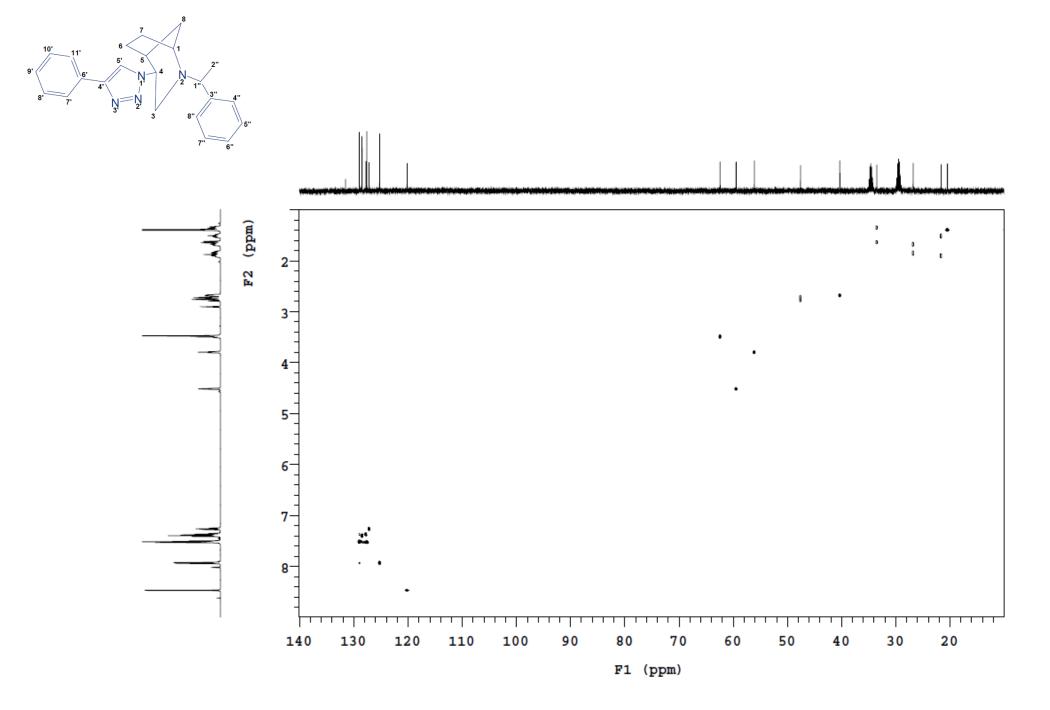


Figure S2c.¹H-¹³C HSQC NMR spectrum of the ligand (L) in DMF-D₇

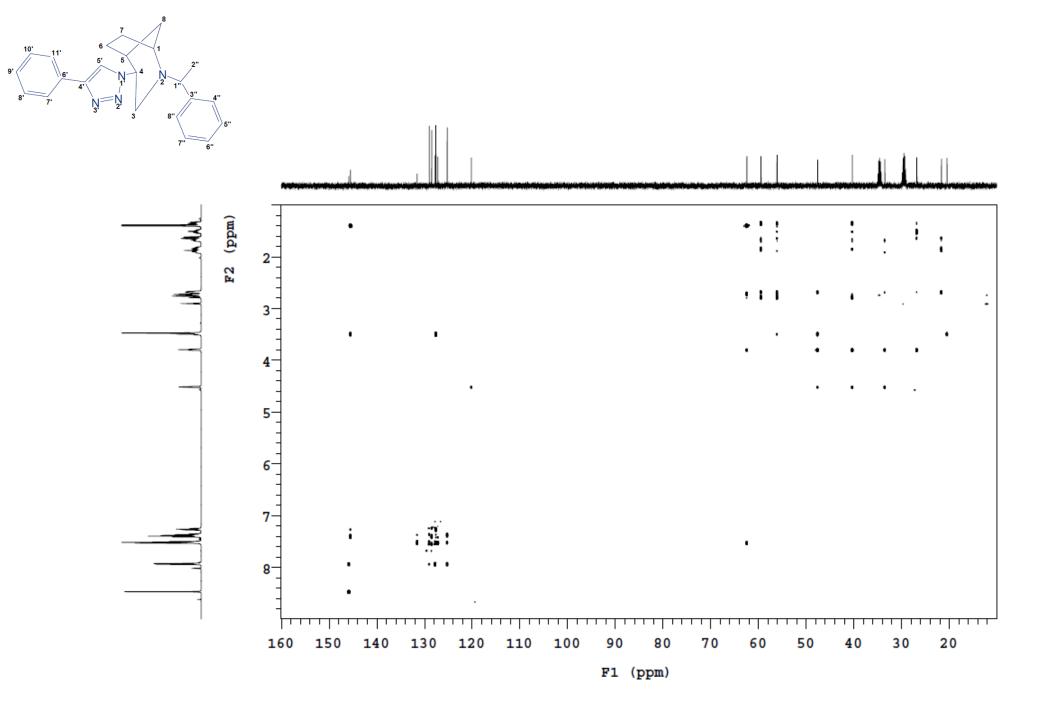
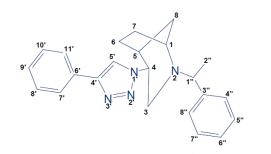


Figure S2d. $^{1}H^{-13}C$ HMBC NMR spectrum of the ligand (L) in DMF-D₇



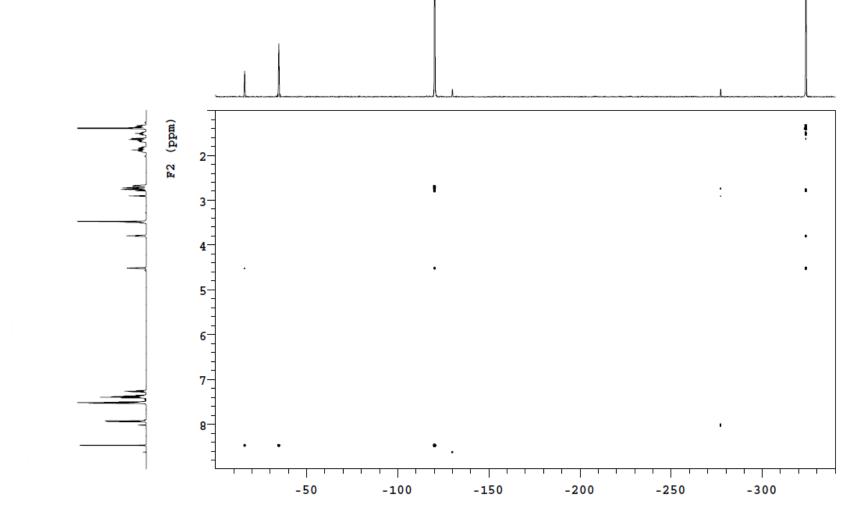


Figure S2e. ¹H-¹⁵N HMBC NMR spectrum of the ligand **(L)** in DMF-D₇