Electronic Supplementary Material (ESI) for Dalton Transactions


# Influence of the Diamine on the Reactivity of Thiosulfonato Ruthenium Complexes with Hydrosulfide ($HS^-$).

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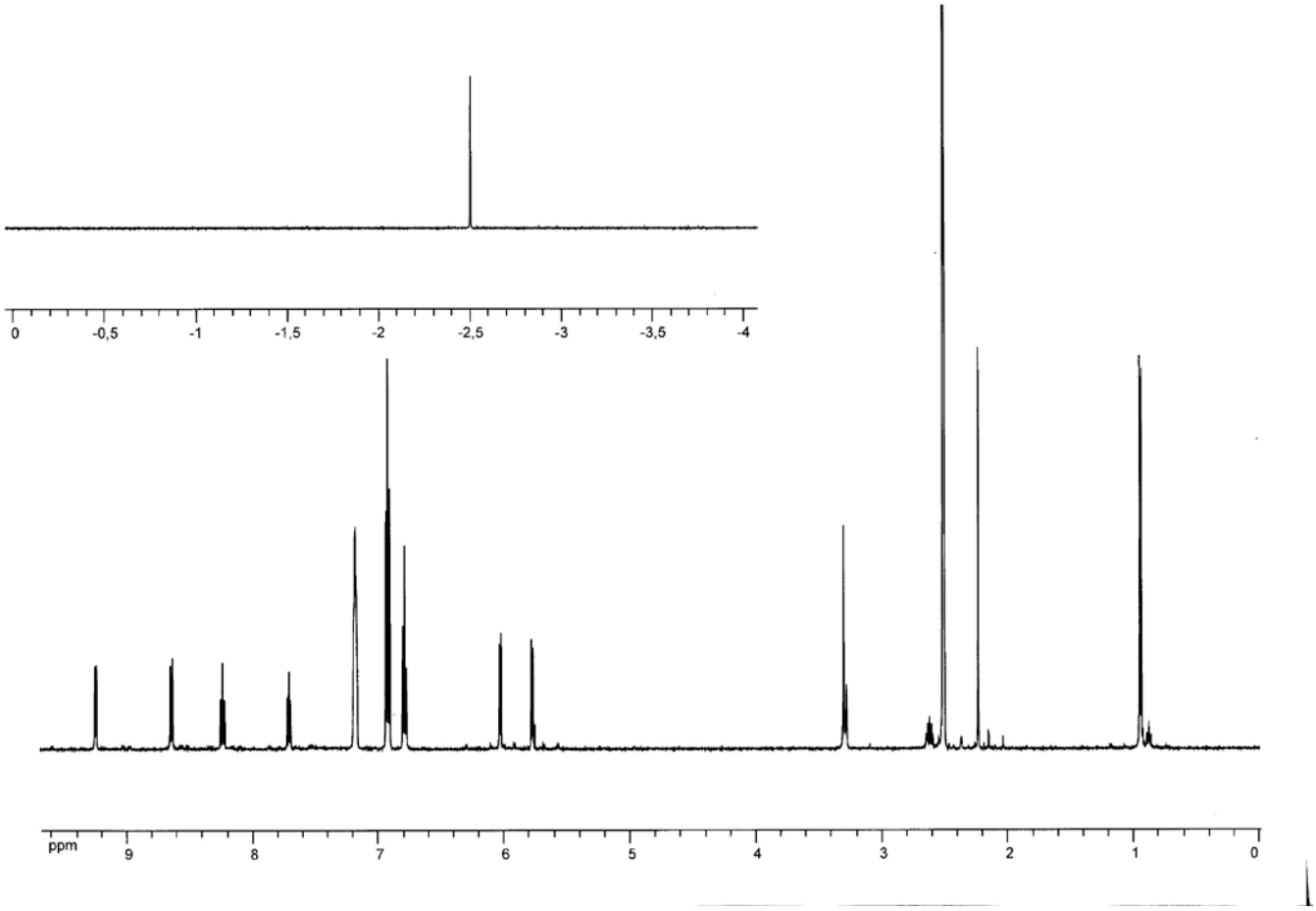



**Figure S1.** $^1H$ NMR spectra recorded at 500 MHz in DMSO-*d6* of complex **3**.**BPh4**.

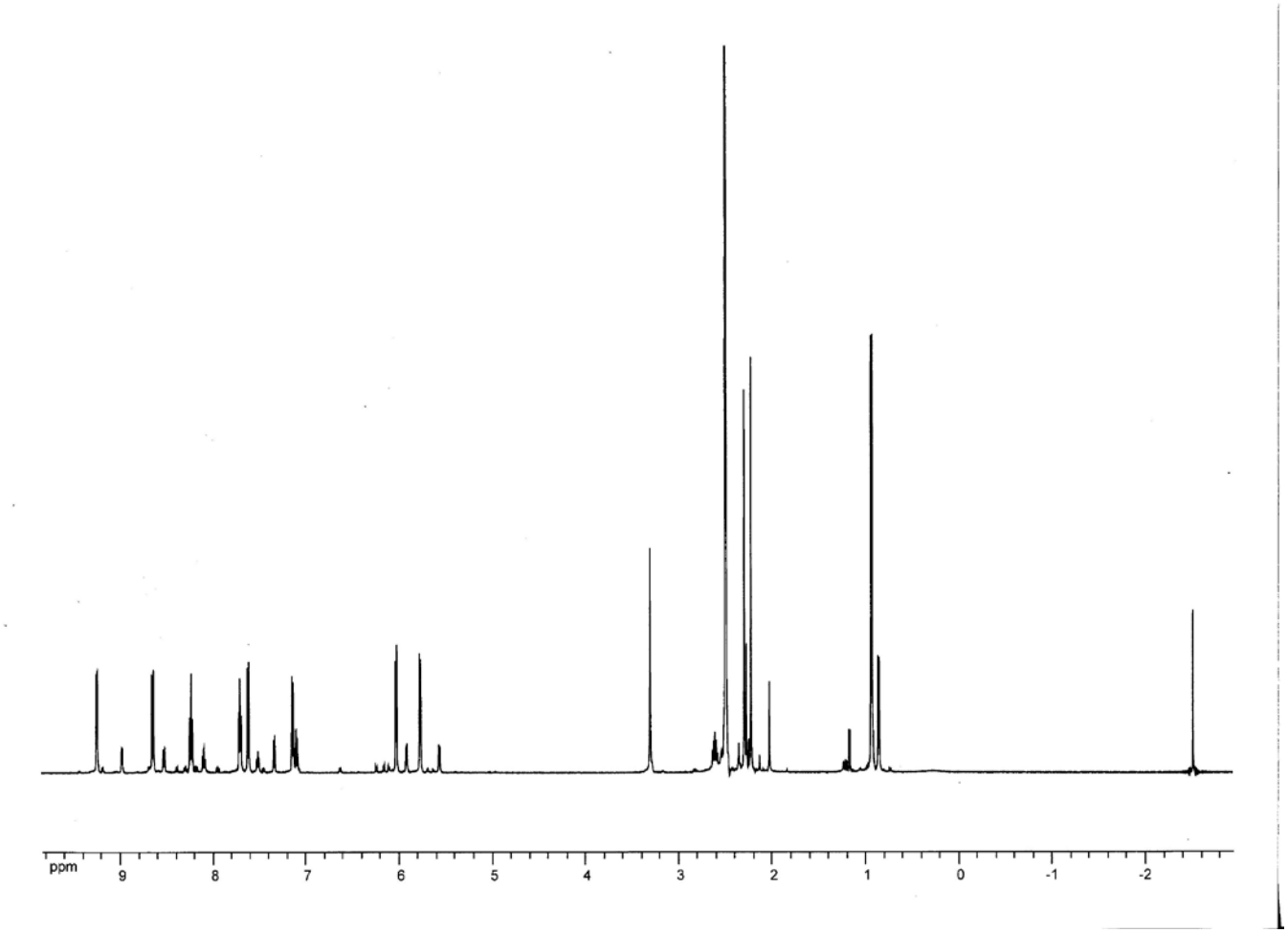
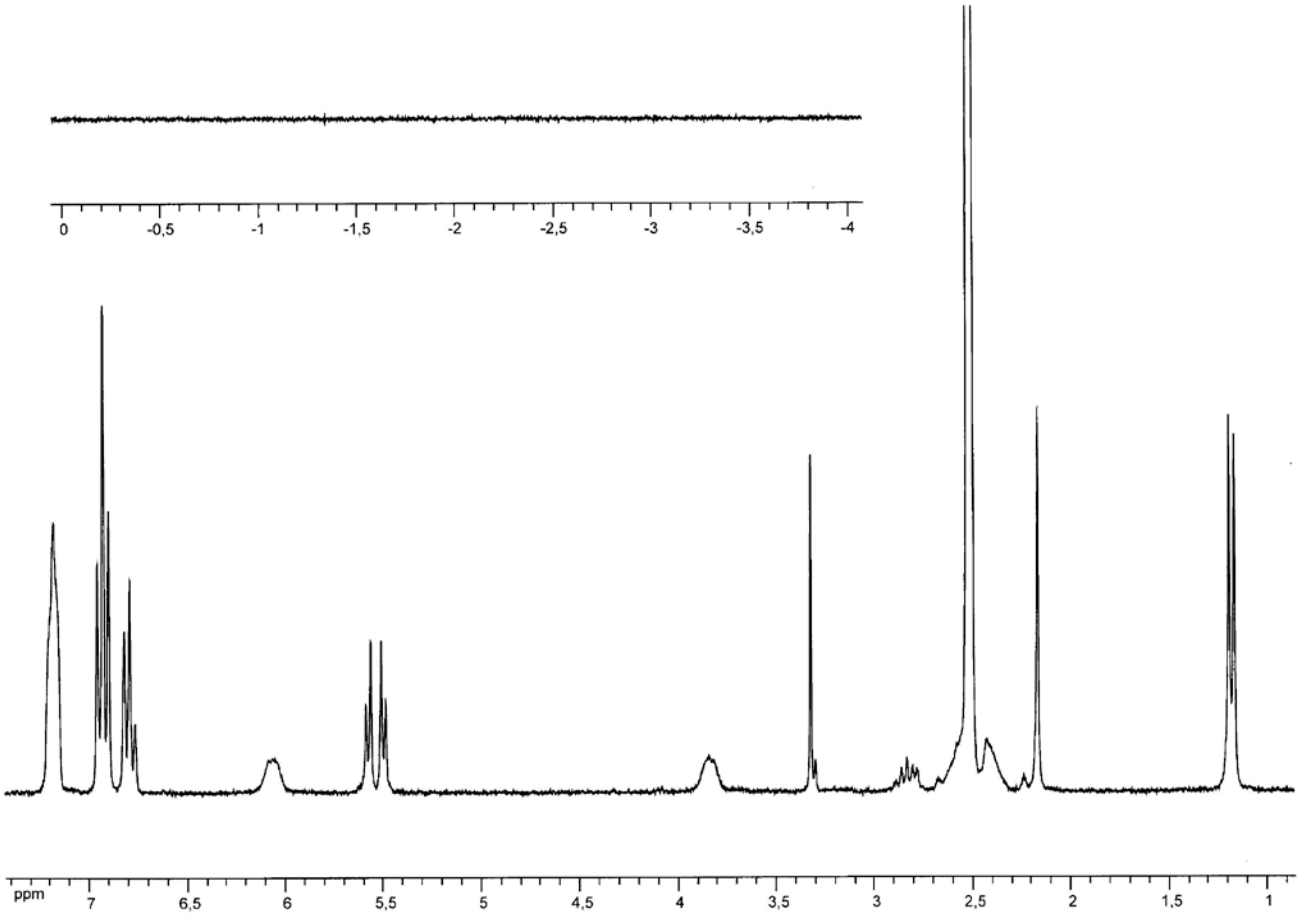



**Figure S1'.** $^{1}H$ NMR spectra recorded at 500 MHz in DMSO-*d6* of the crude reaction mixture yielding complex **3**.

**Figure S2.** $^{1}H$ NMR spectra recorded at 250 MHz in DMSO-*d6* of complex **4'**.(**$BPh_4$)$_2$**.



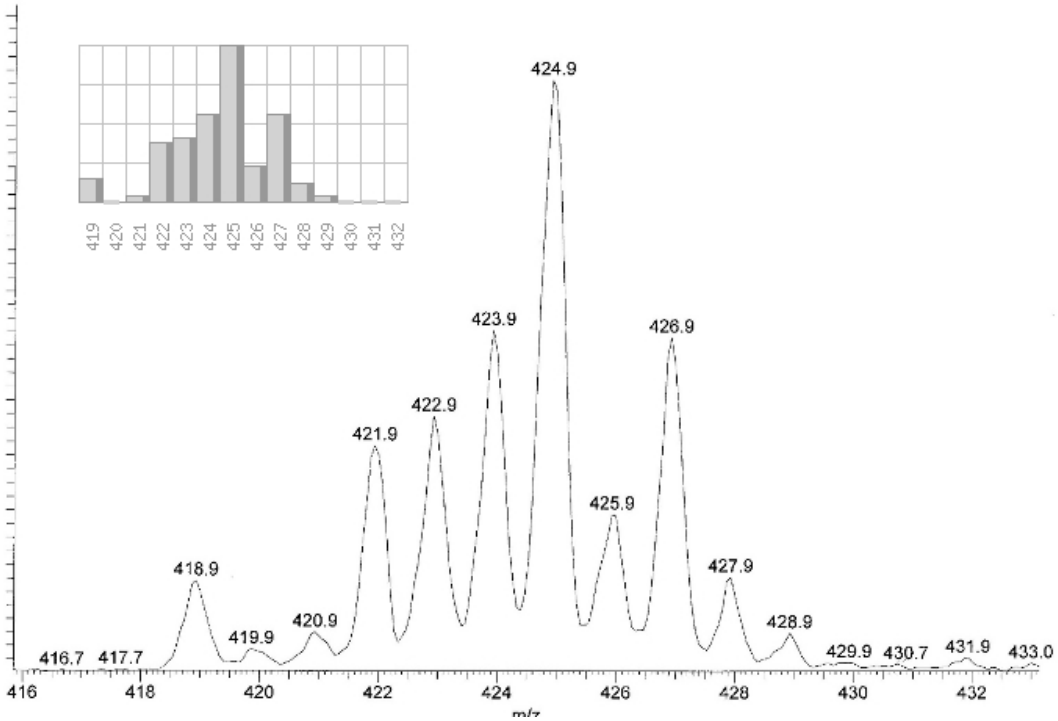



**Figure S3.** Isotopic distribution observed and simulated (insert) for complex [(*p*-cymene)Ru(bipy)($^{32}$SH)]$^{+}$.

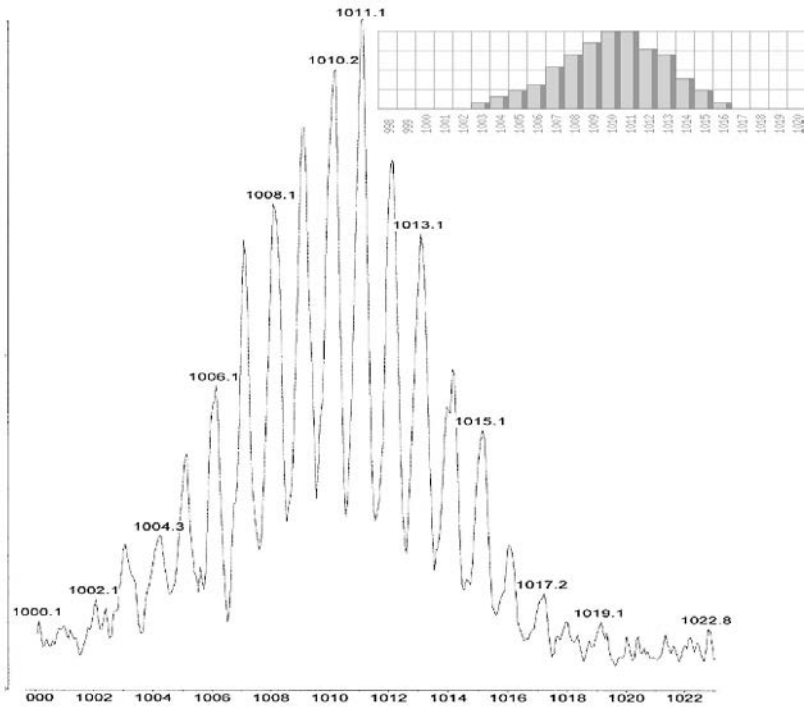



**Figure S4.** Isotopic distribution observed and simulated (insert) for complex [[(*p*-cymene)Ru(en)($^{34}$S)]$_2$$^{32}$S.($BPh_4$)]$^{+}$.