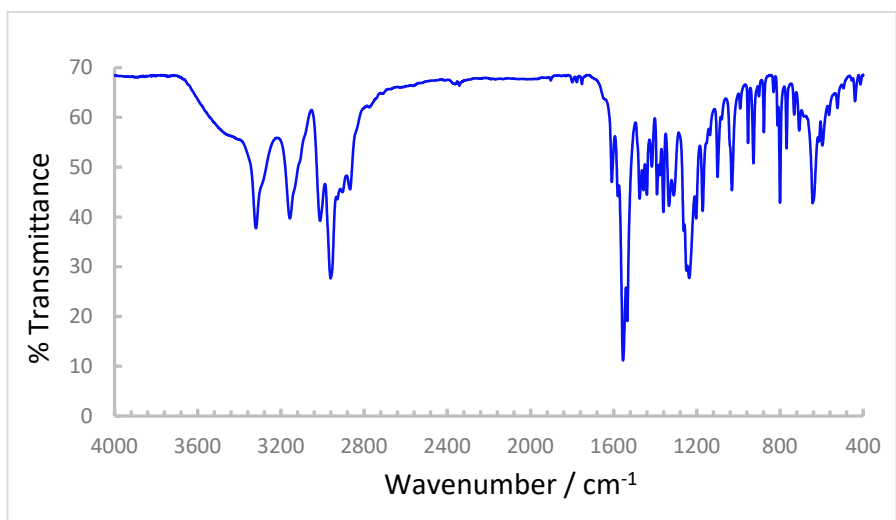
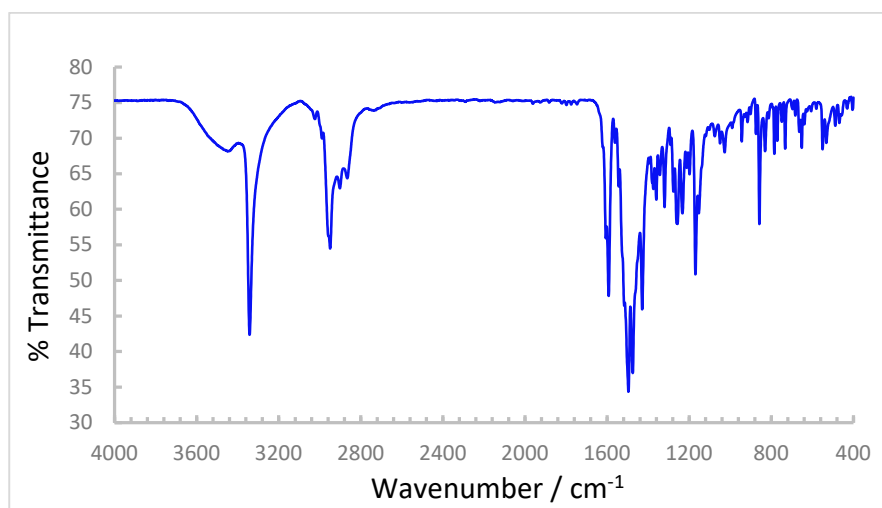


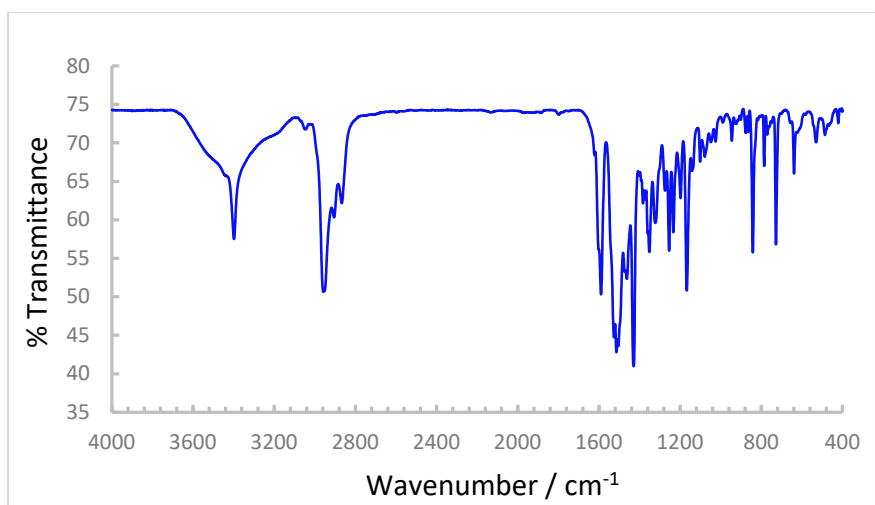
Figure S1. ESI mass spectrum of $\text{H}_2(3,5\text{-}t\text{-Bu}_2)\text{-sal4eT}$ in the negative mode.



(a)

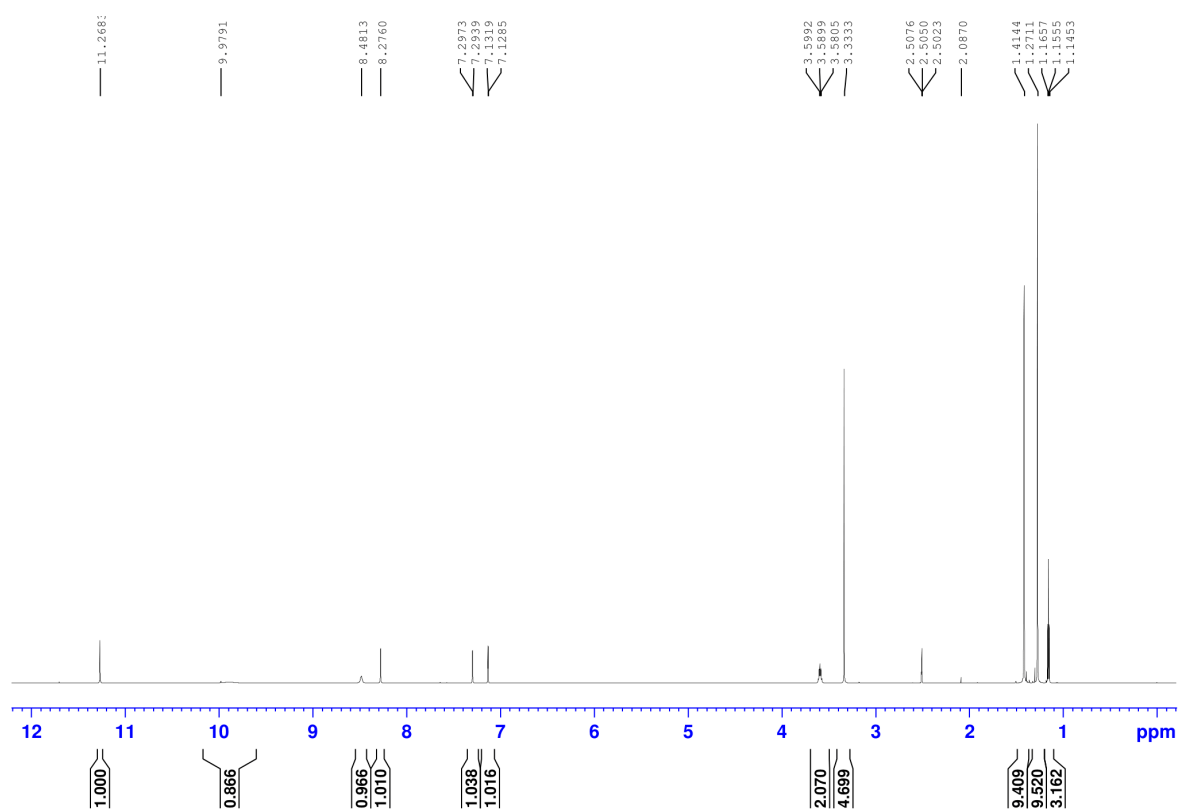


(b)

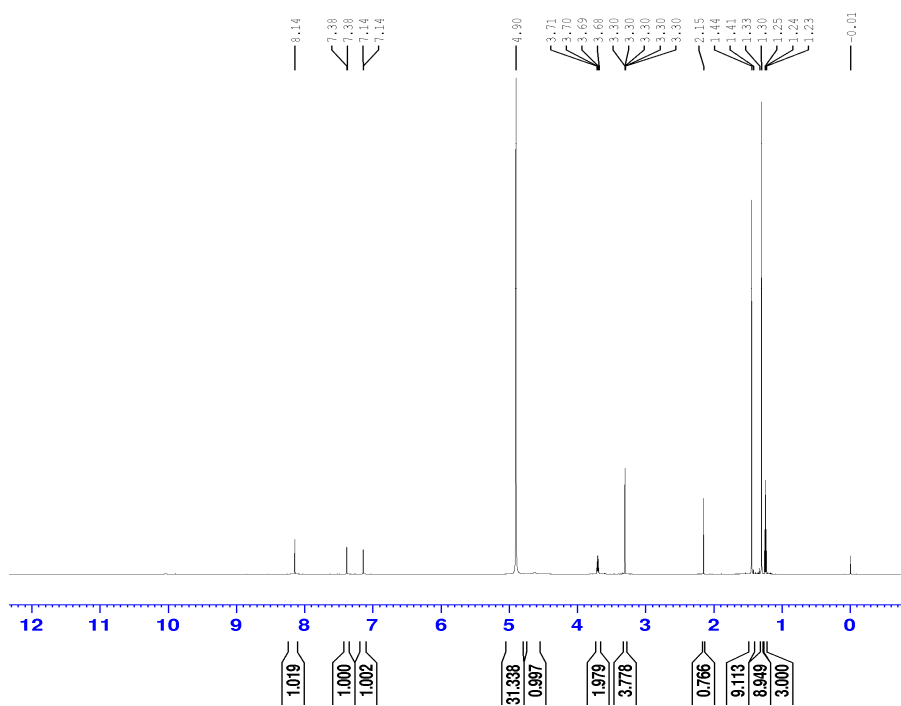


(c)

Figure S2. FT-IR spectra of (a) $\text{H}_2(3,5\text{-}t\text{-Bu}_2)\text{-sal4eT}$, (b) complex **1** and (c) complex **2**.



(a)



(b)

Figure S3. ^1H -NMR spectra of $\text{H}_2(3,5\text{-}t\text{-Bu}_2)\text{-sal4eT}$ in (a) $\text{DMSO-}d_6$ and (b) CD_3OD (700 MHz)

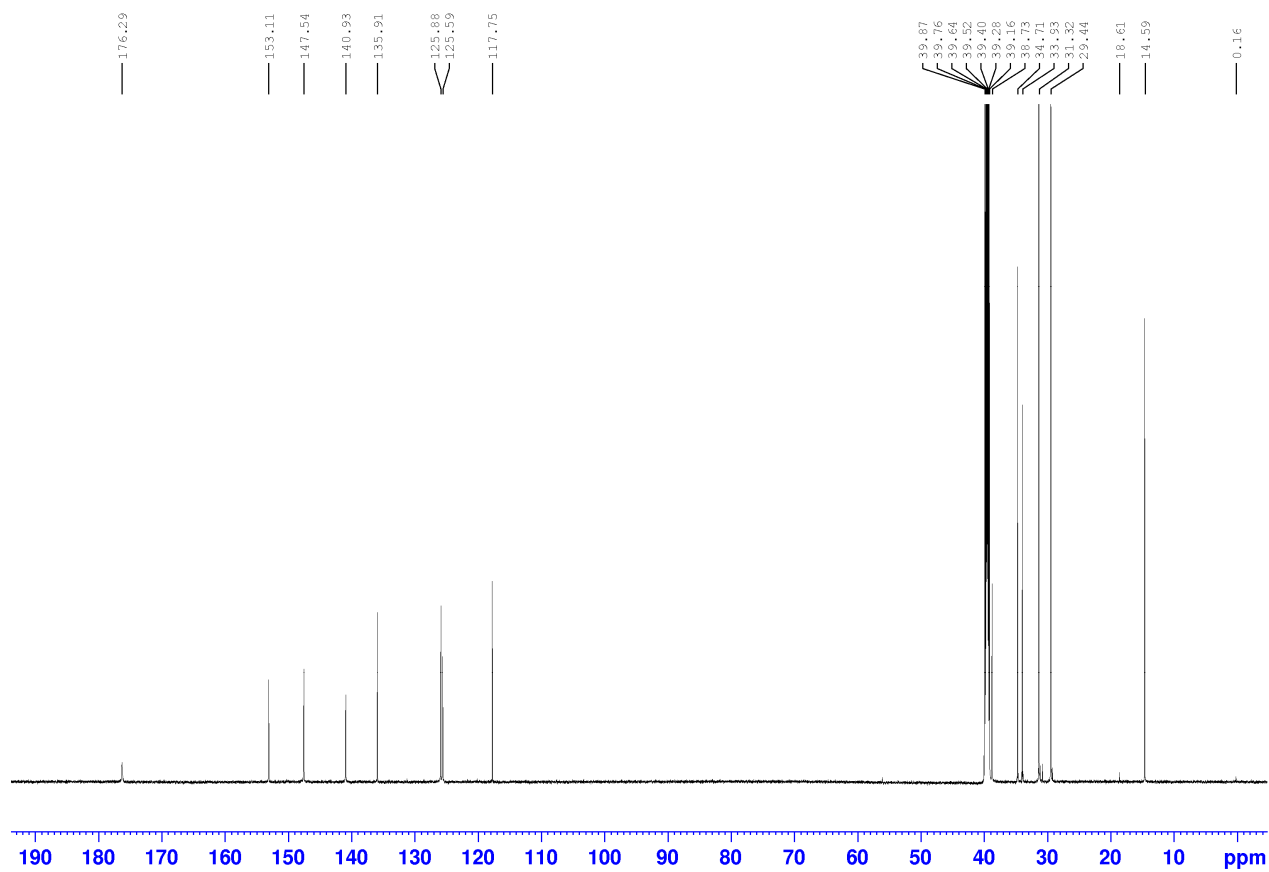


Figure S4. ^{13}C -NMR spectrum of $\text{H}_2(3,5\text{-}t\text{-Bu}_2)\text{-sal4eT}$ in $\text{DMSO-}d_6$ (176 MHz)

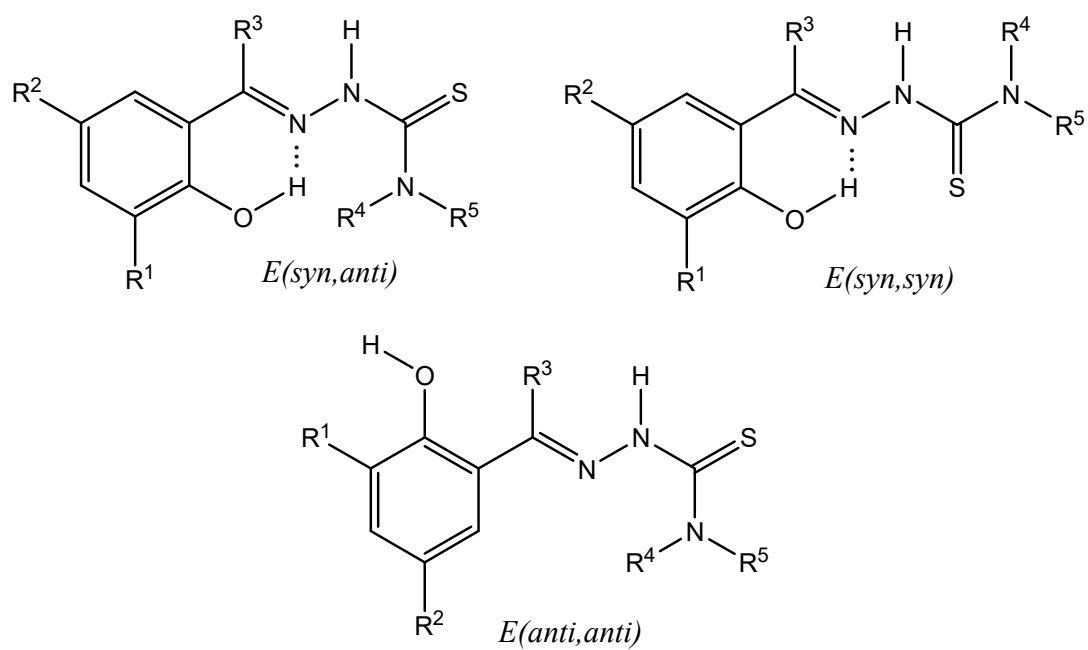


Figure S5. Representations of crystallographically observed different orientations of phenolic thiosemicarbazones.

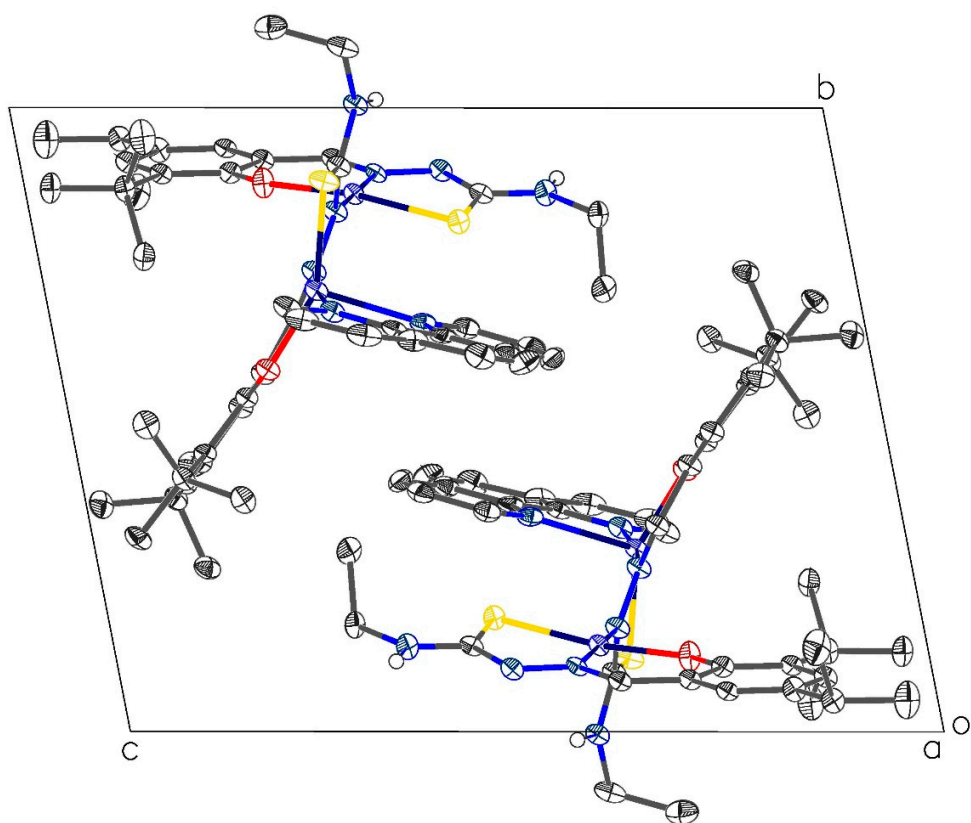


Figure S6. Unit cell π - π stacking interaction in $[\text{Cu}_2\{(3,5\text{-}t\text{-Bu}_2)\text{-sal4eT}\}_2(\text{phen})]$ (**2**).