

New Mononuclear and Binuclear Cu(II), Co(II), Ni(II), and Zn(II) Thiosemicarbazone Complexes with Potential Biological Activity: Antimicrobial and Molecular Docking Study

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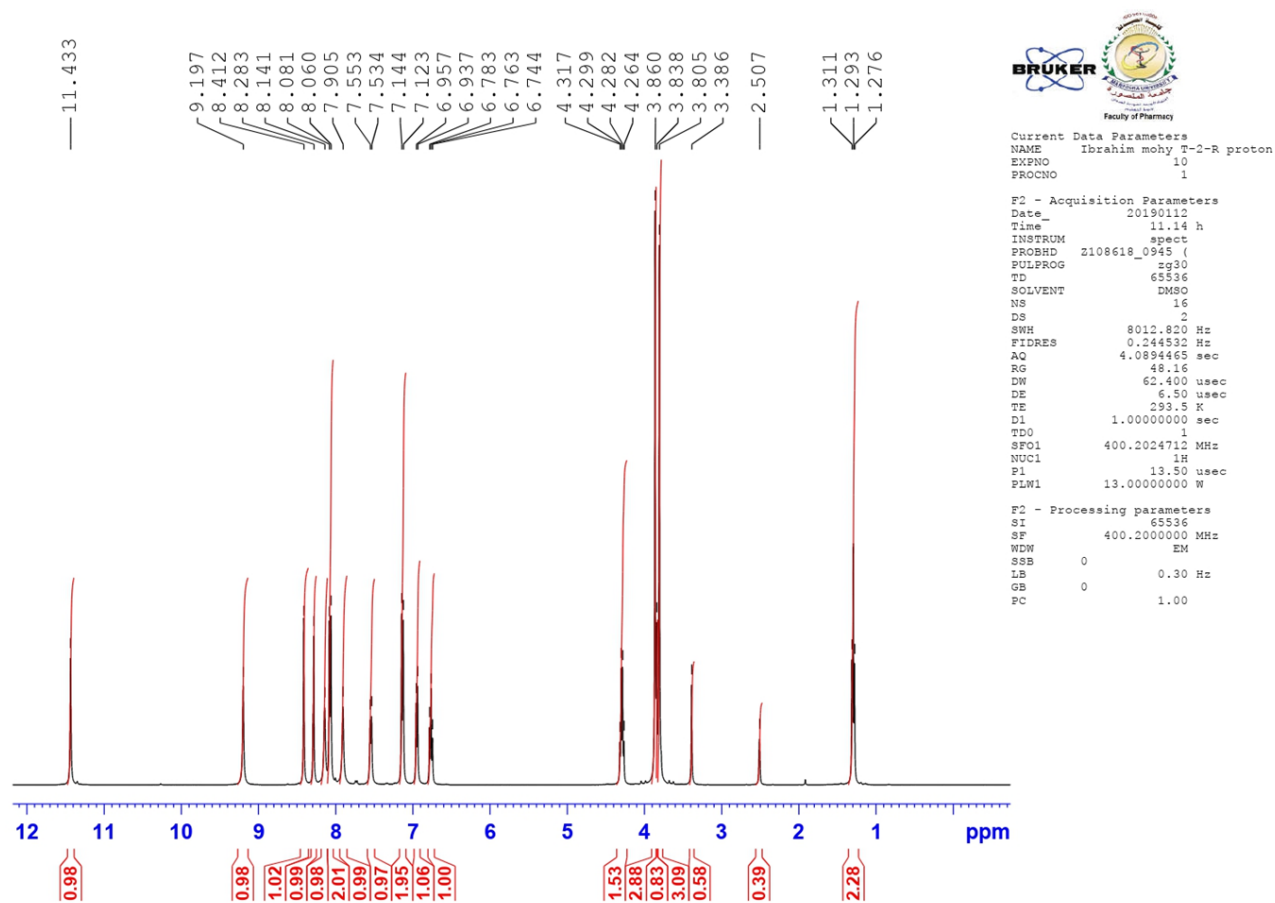


Figure S1: ^1H -NMR spectrum of the MTSC ligand in DMSO- d_6 solvent.

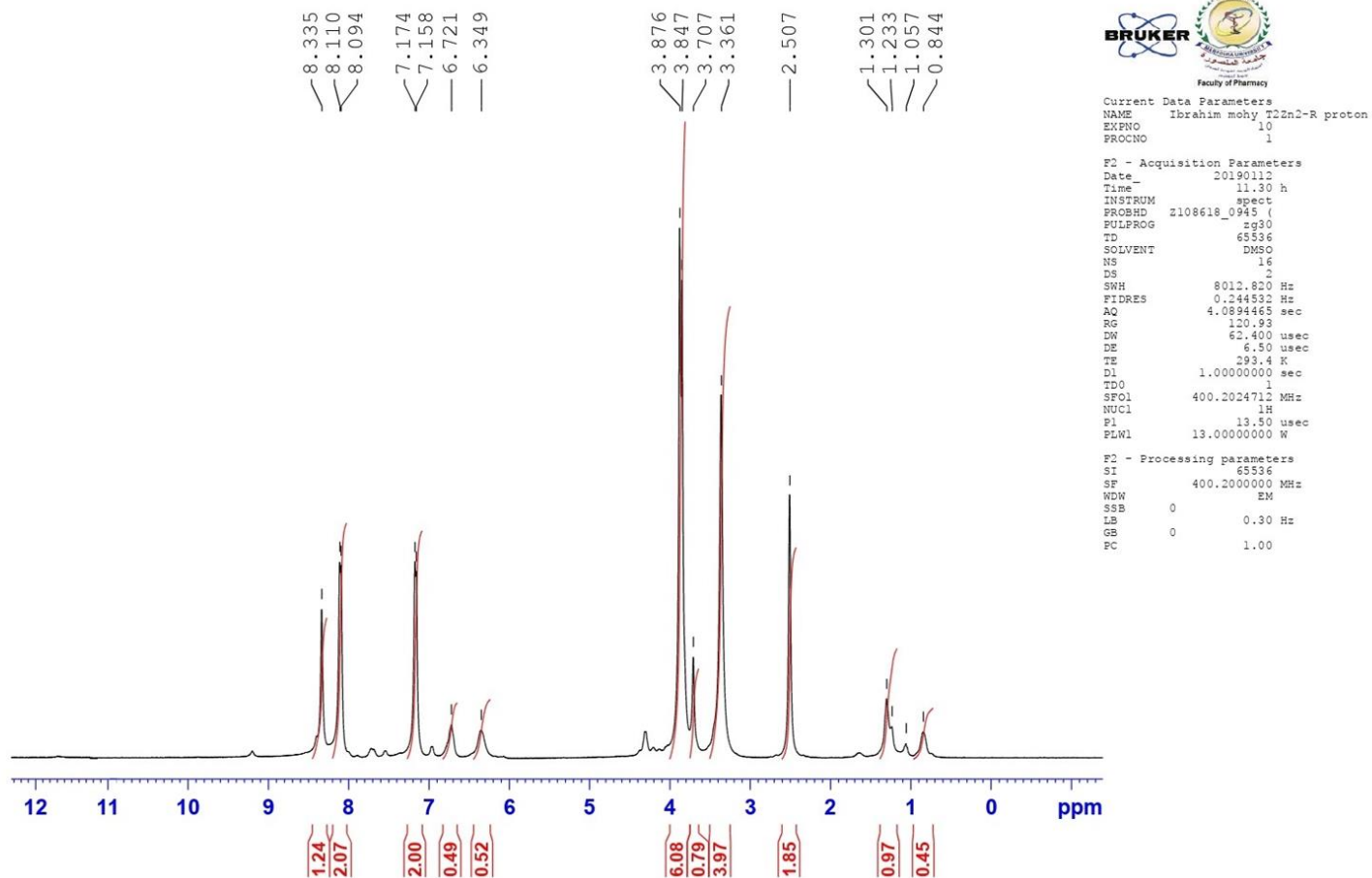


Figure S2: ^1H -NMR spectrum of the $[\text{Zn}(\text{MTSC})(\text{NH}_3)(\text{Cl})].3\text{H}_2\text{O}$ (**14**) in $\text{DMSO}-d_6$ solvent.

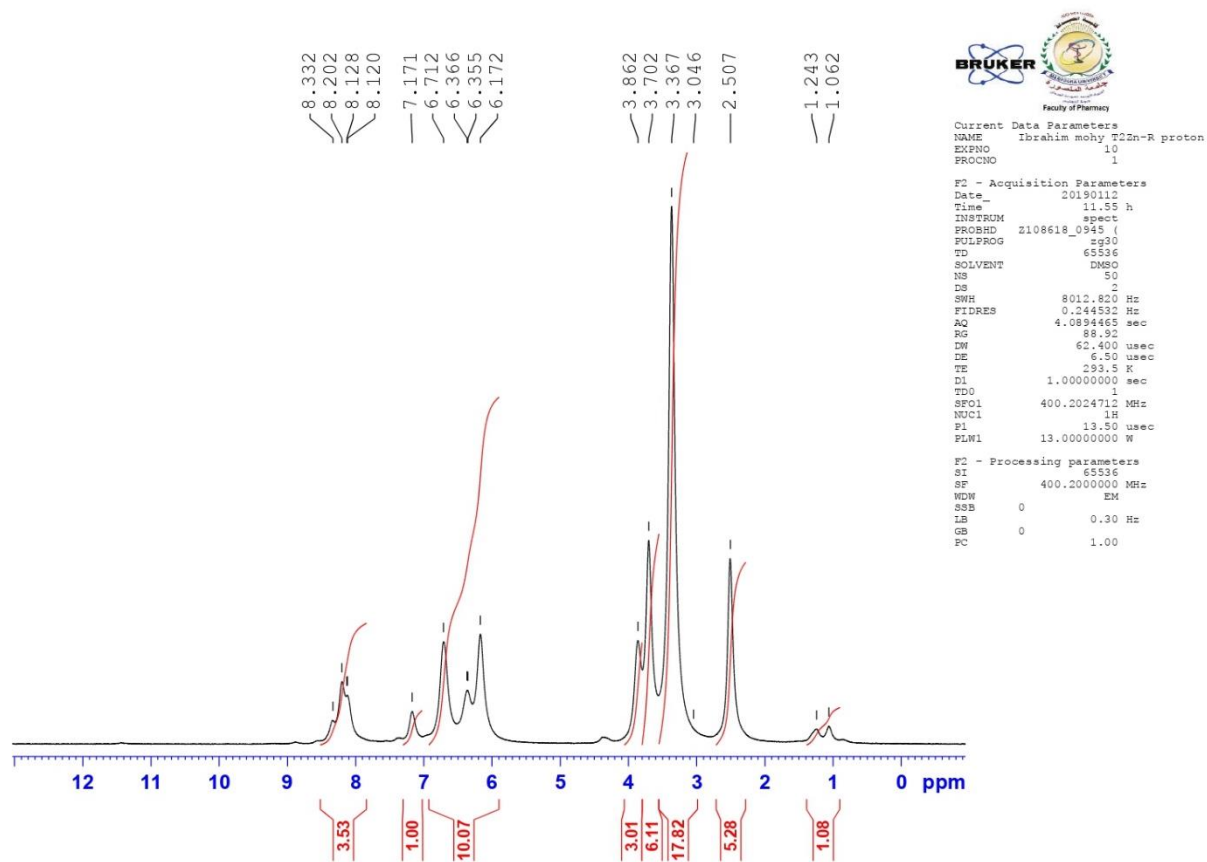
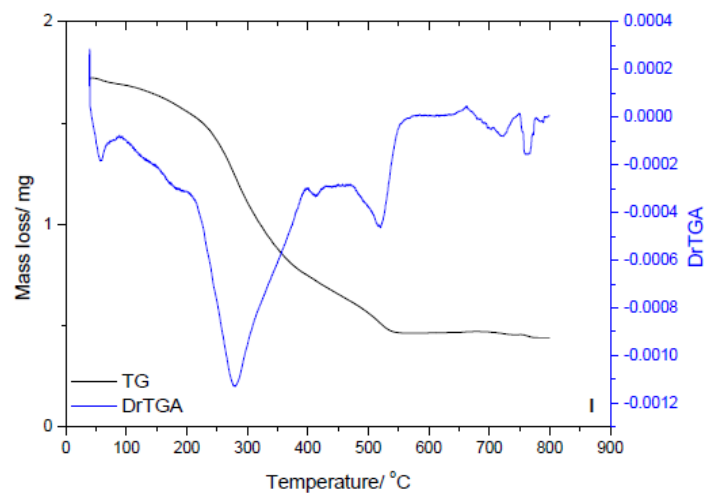
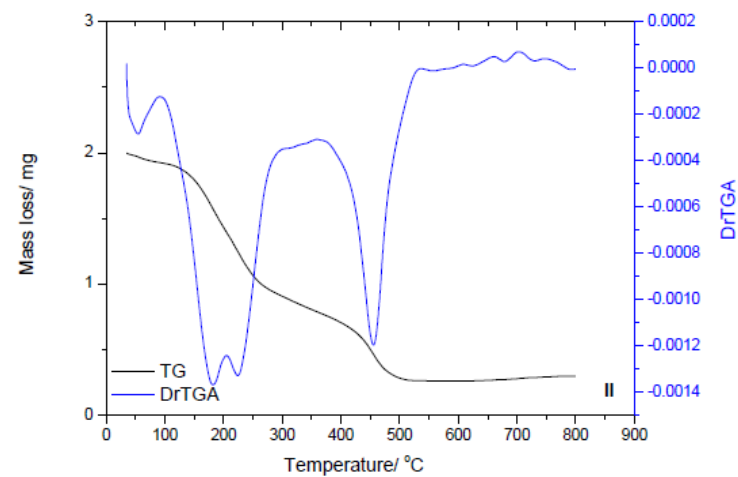


Figure S3: ^1H -NMR spectrum of the $[\text{Zn}_2(\text{MTSC})(\text{NH}_3)_3(\text{Cl})_2] \cdot 2\text{H}_2\text{O}$ (**15**) in $\text{DMSO}-d_6$ solvent.

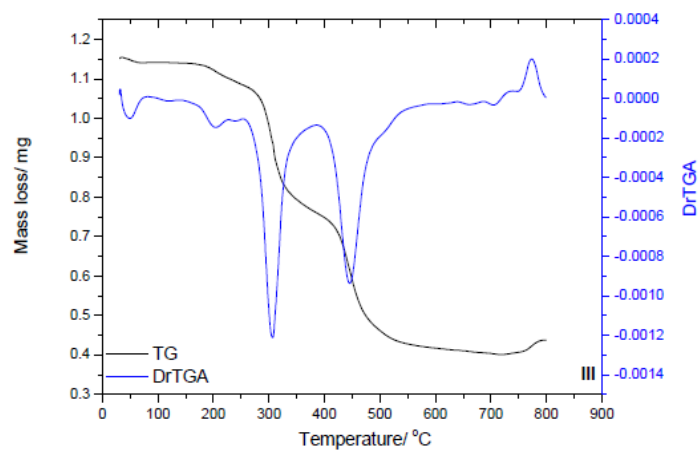


(a)

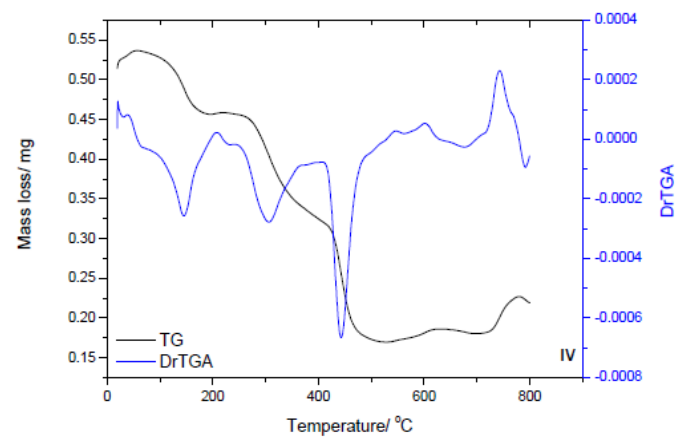


(b)

Figure S4: TG curves of Co(II) complexes **8** (a) and **9** (b).

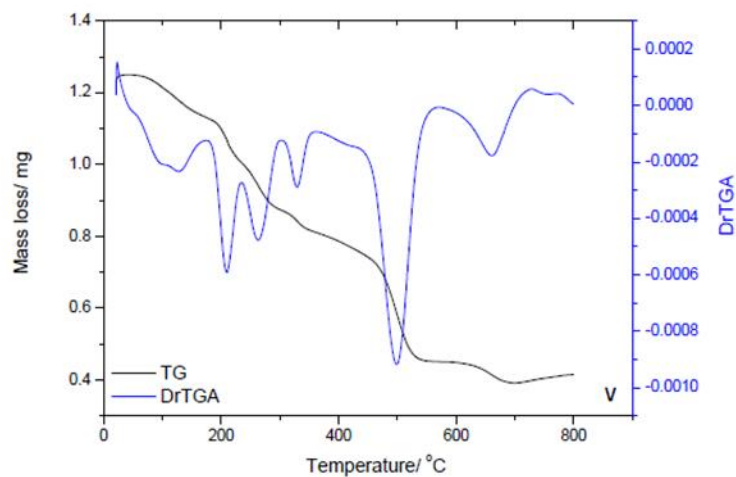


(a)

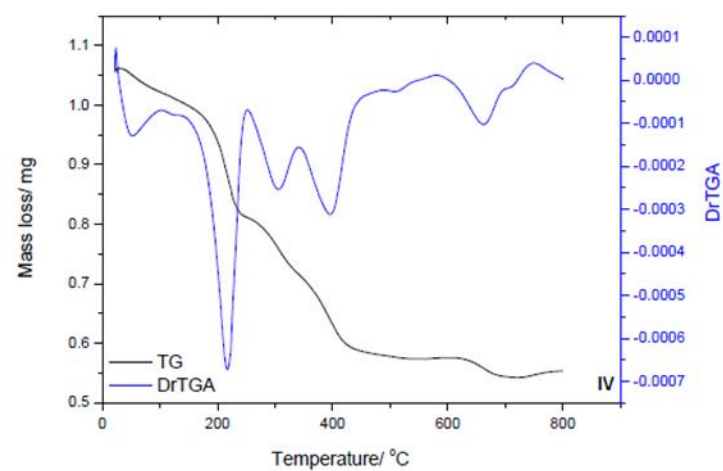


(b)

Figure S5: TG curves of Ni(II) complexes **10** (a) and **11** (b).

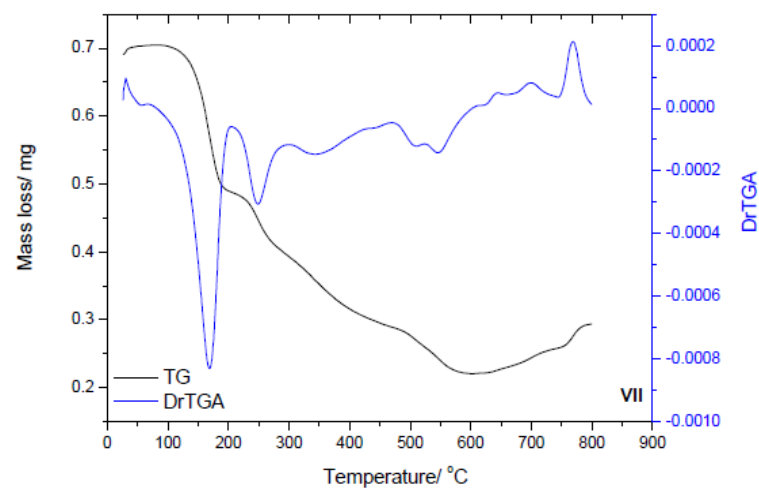


(a)

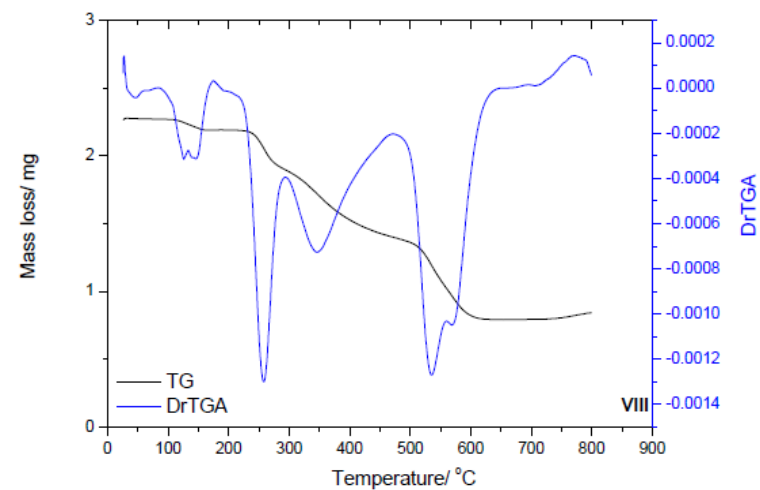


(b)

Figure S6: TG curves of Cu(II) complexes **12** (a) and **13** (b).



(a)



(b)

Figure S7: TG curves of Zn(II) complexes **14** (a) and **15** (b).