

Supporting Information:

A Squaraine Chelator for the Detection of Iron(III)

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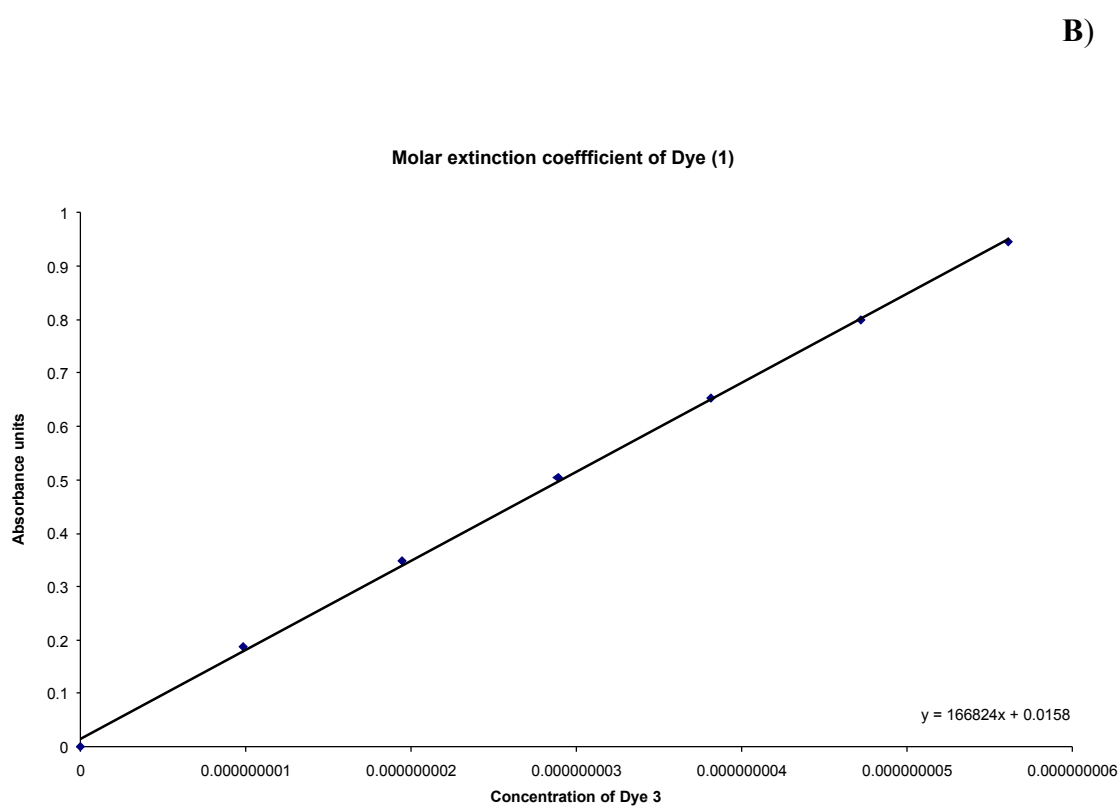
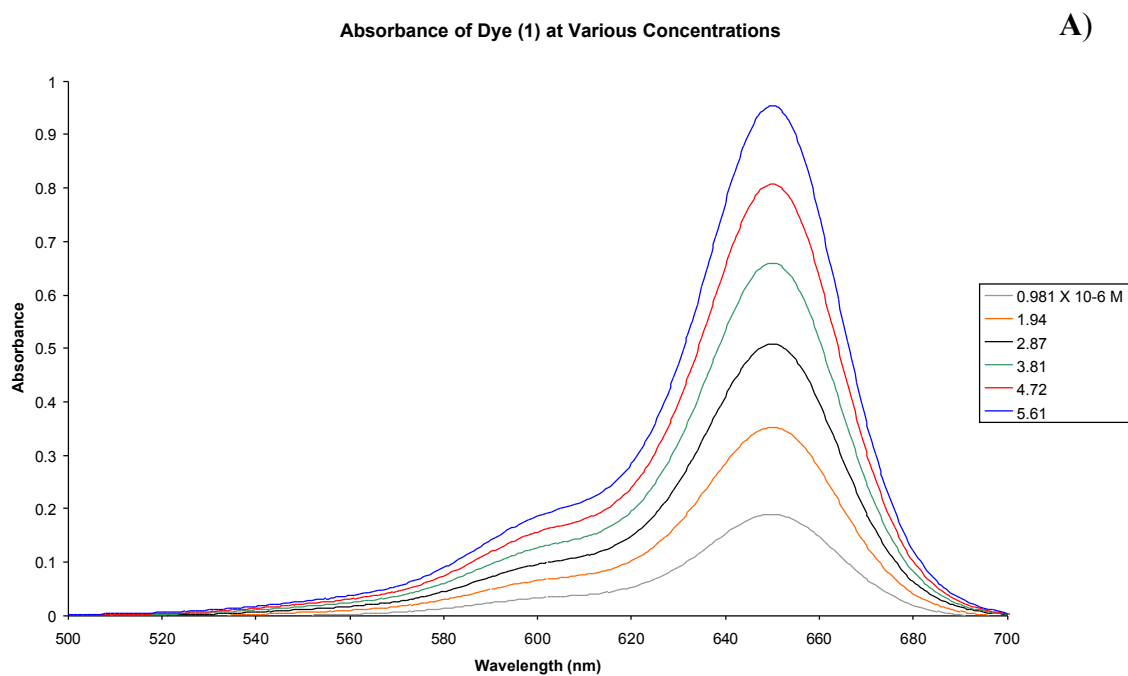


Figure S1: (A) UV-vis spectra of Dye (1) at various concentrations (B) Plot of absorbance Vs intensity to calculate the extinction coefficient.

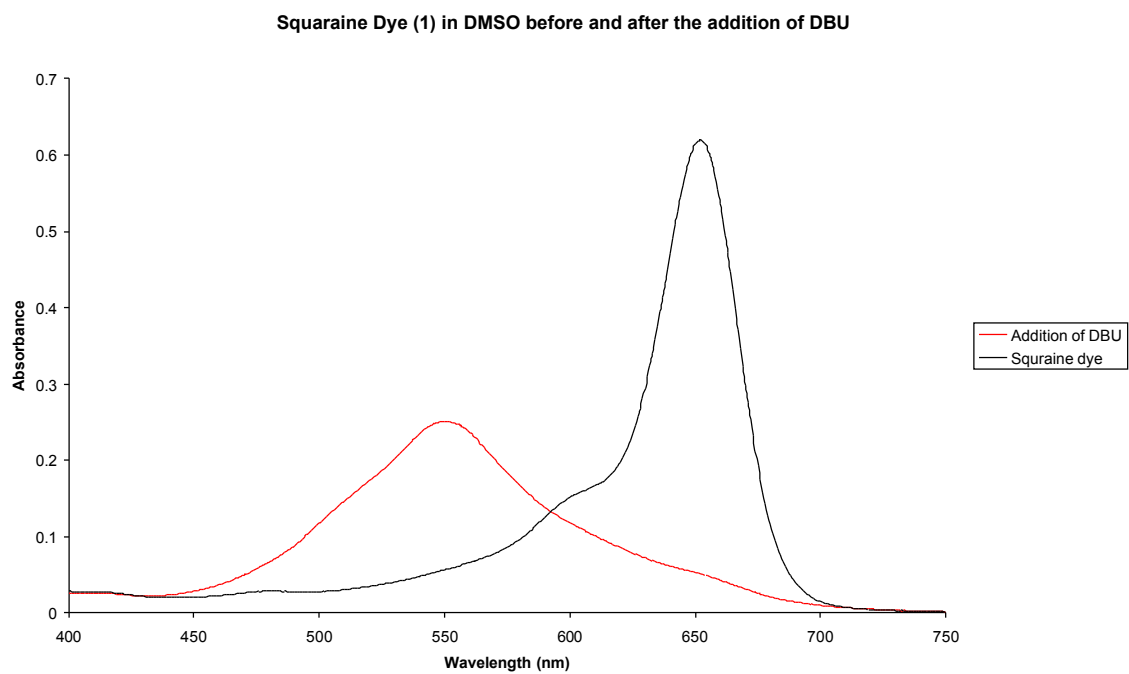


Figure S2: The UV-Vis spectrum of Dye(1), concentration $5 \times 10^{-5} \text{ mol dm}^{-3}$ and the spectra on the addition of 1 equivalents of DBU.

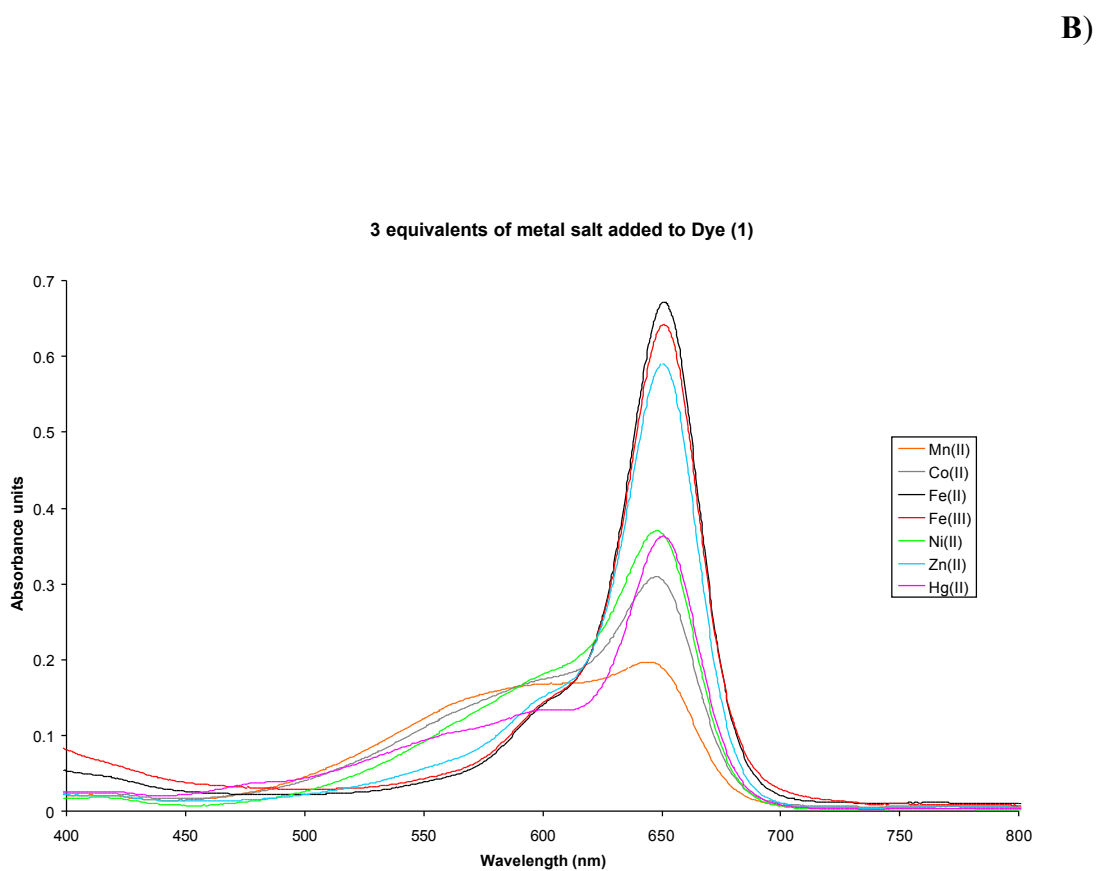
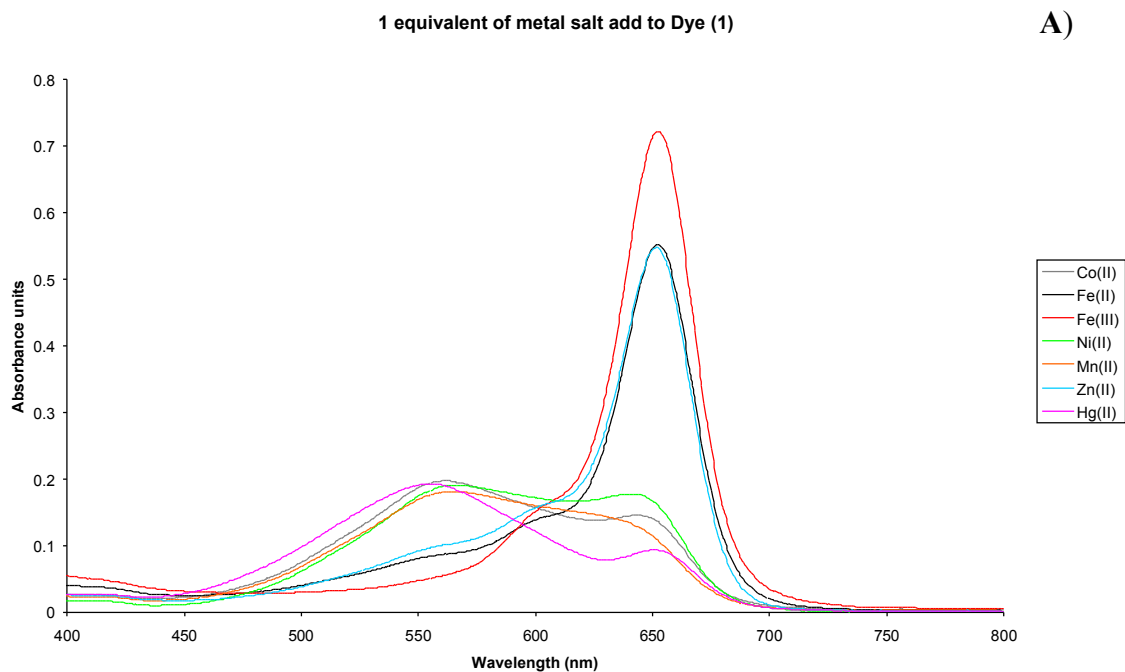


Figure S3: The UV-Vis spectrum of Dye(**1**), concentration $5 \times 10^{-5} \text{ mol dm}^{-3}$ on the addition of A) 1 equivalent and B) 3 equivalents of various metal^{II} salts.

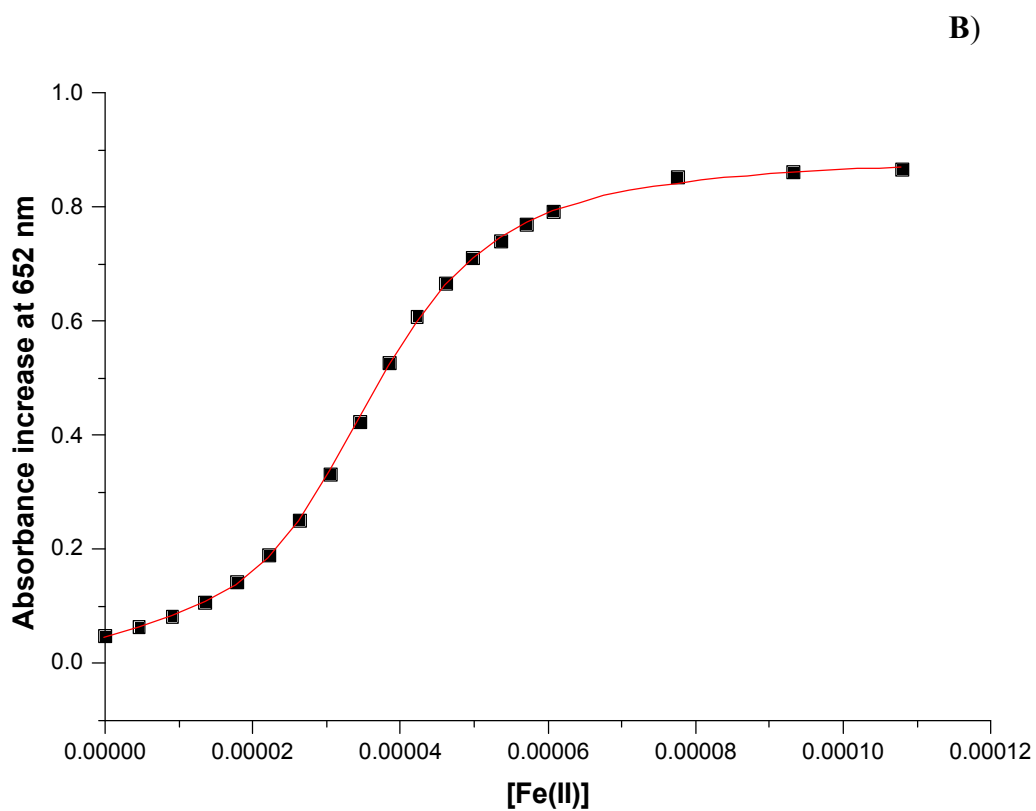
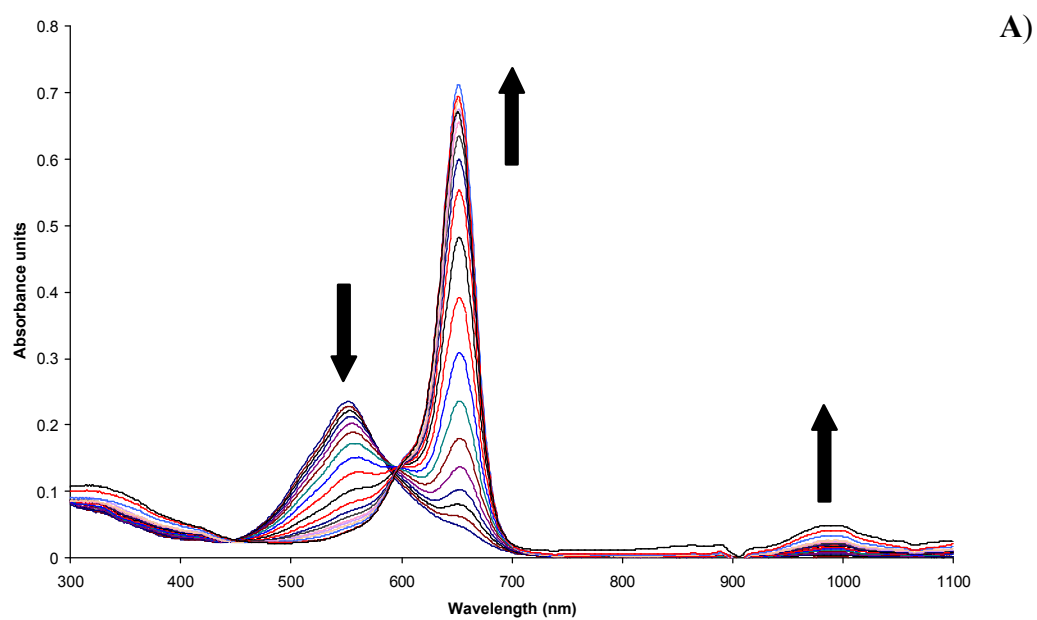


Figure S4: A) The UV-Vis titration of **1**, concentration $5 \times 10^{-5} \text{ mol dm}^{-3}$ on the addition of Fe^{II} salt. B) Isotherm showing experimental and calculated line.

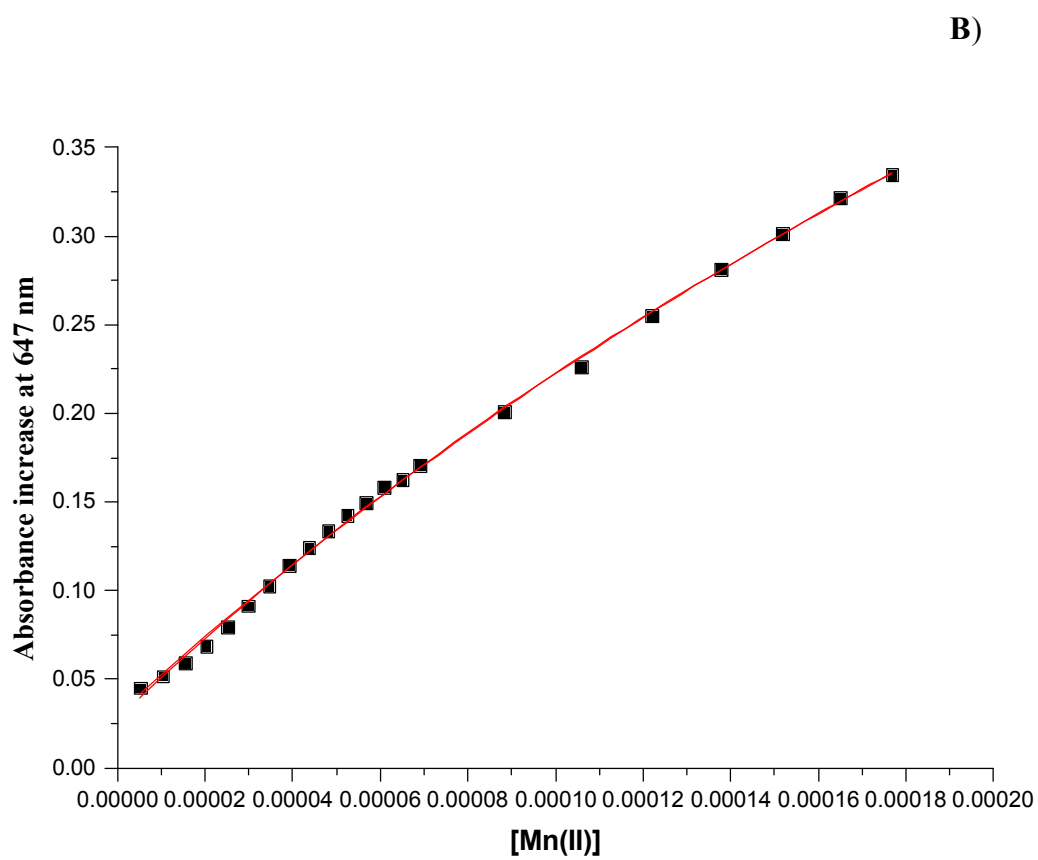
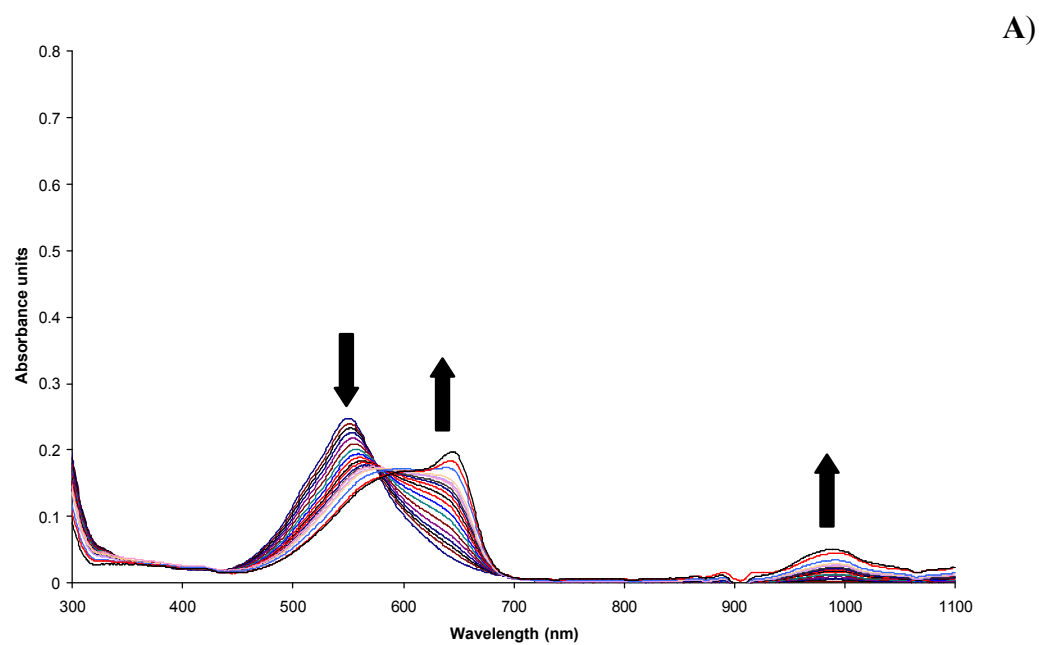


Figure S5: A) The UV-Vis titration of **1**, concentration $5 \times 10^{-5} \text{ Mol dm}^{-3}$ on the addition of Mn^{II} salt. B) Isotherm showing experimental and calculated line.

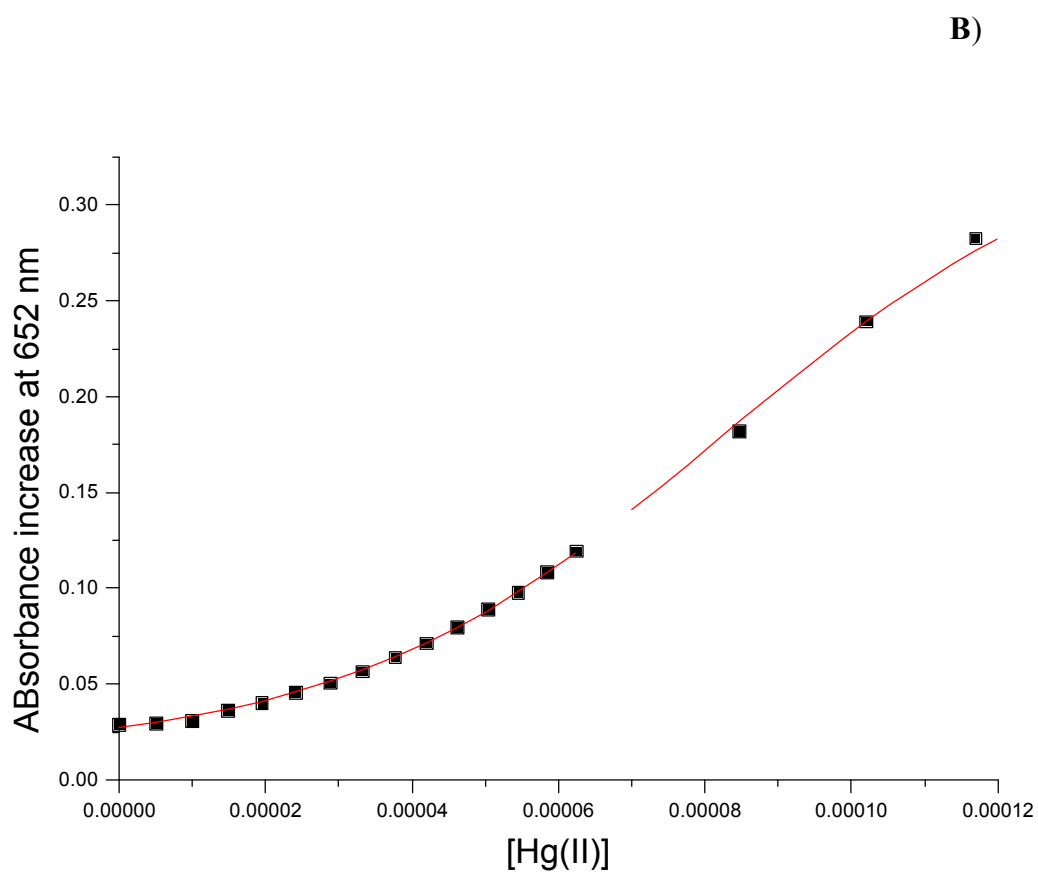
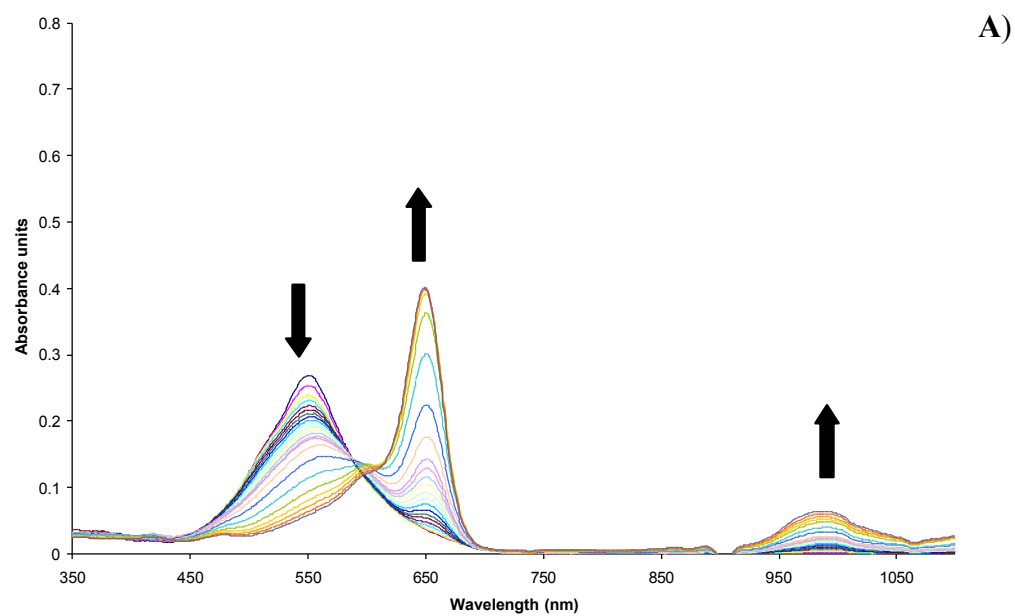


Figure S6: A) The UV-Vis titration of **1**, concentration $5 \times 10^{-5} \text{ Mol dm}^{-3}$ on the addition of Hg^{II} salt. B) Isotherm showing experimental and calculated line.

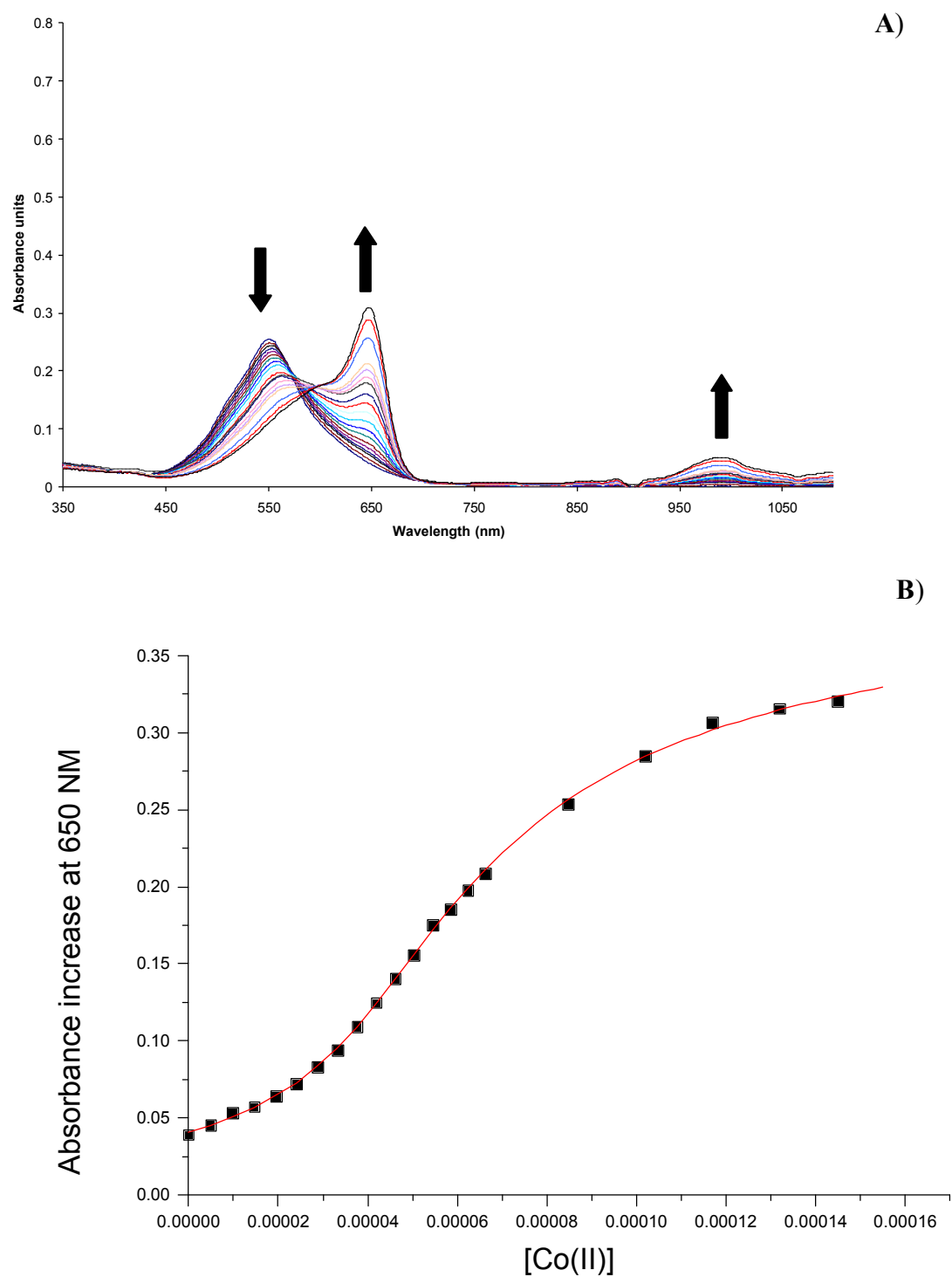


Figure S7: A) The UV-Vis titration of **1**, concentration $5 \times 10^{-5} \text{ Mol dm}^{-3}$ on the addition of Co^{II} salt. B) Isotherm showing experimental and calculated line.

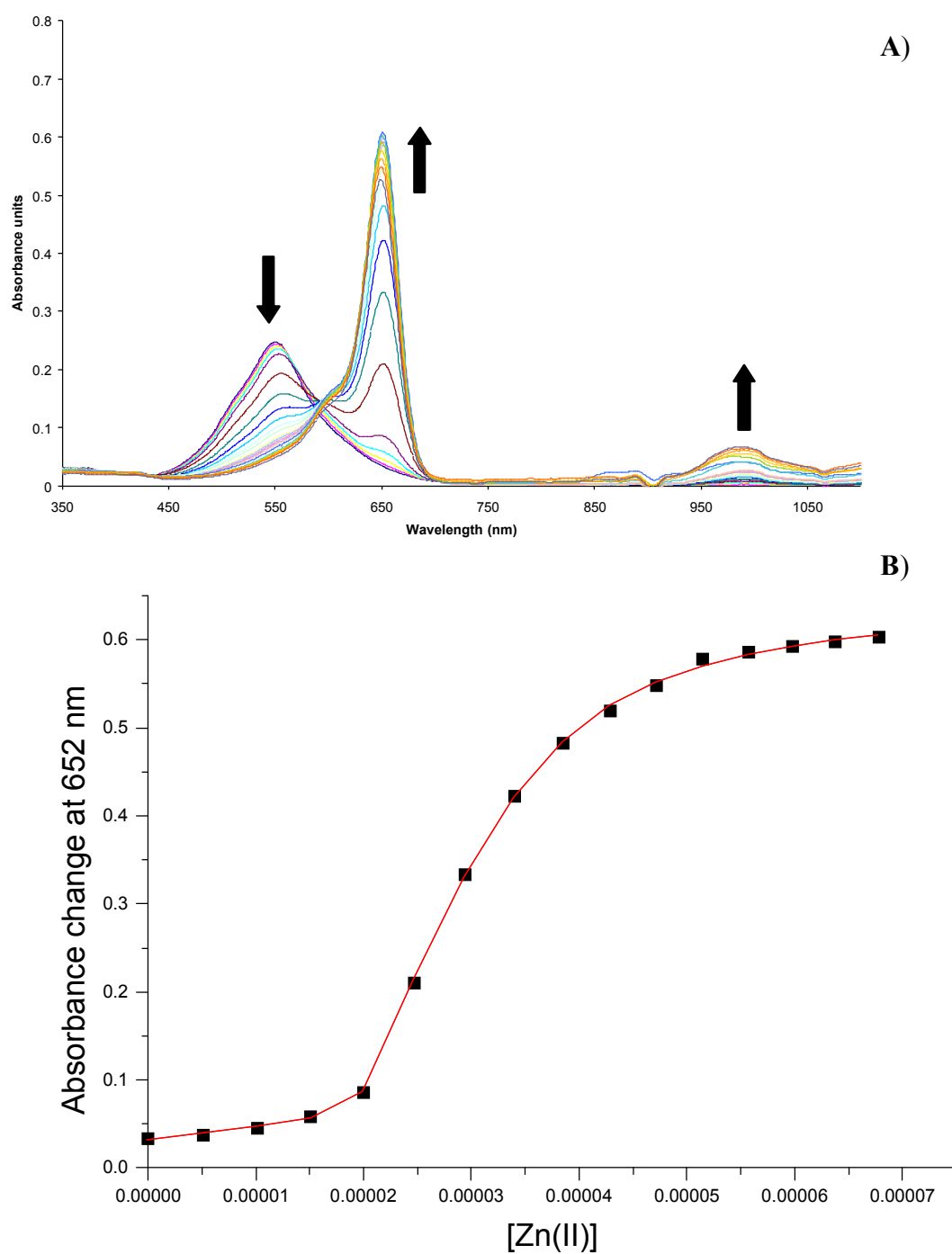


Figure S8: A) The UV-Vis titration of **1**, concentration $5 \times 10^{-5} \text{ Mol dm}^{-3}$ on the addition of Zn^{II} salt. B) Isotherm showing experimental and calculated line.

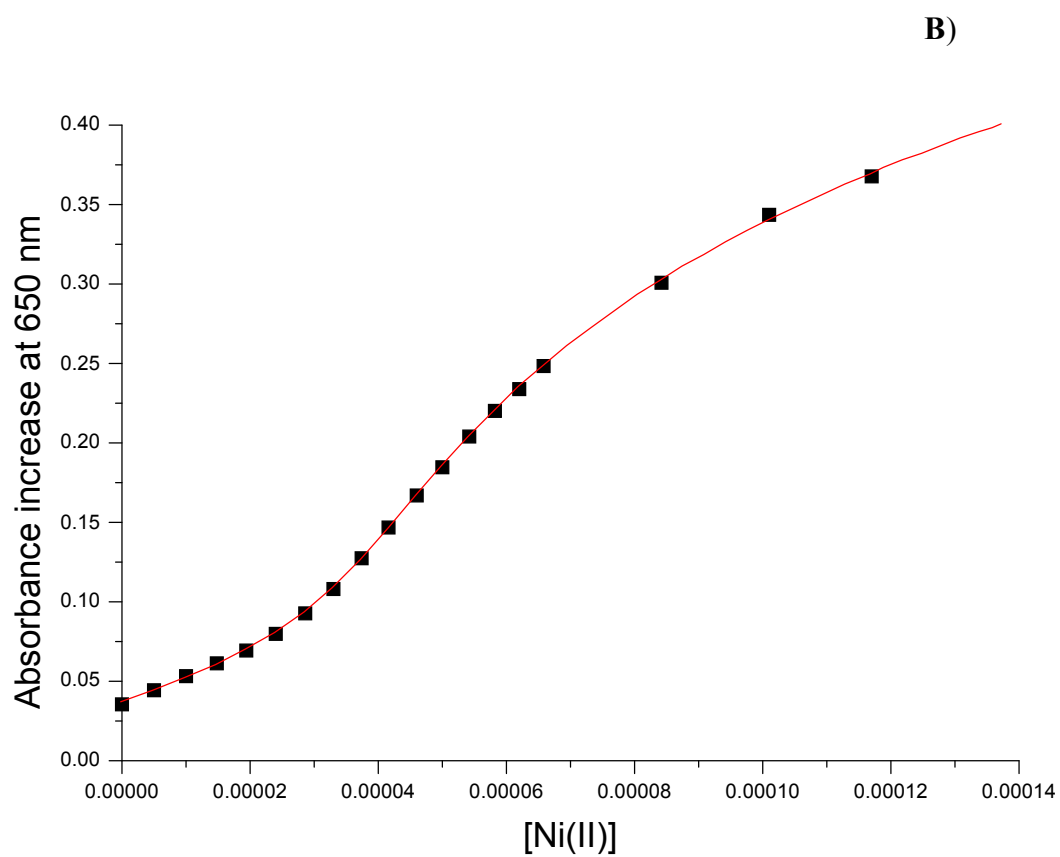
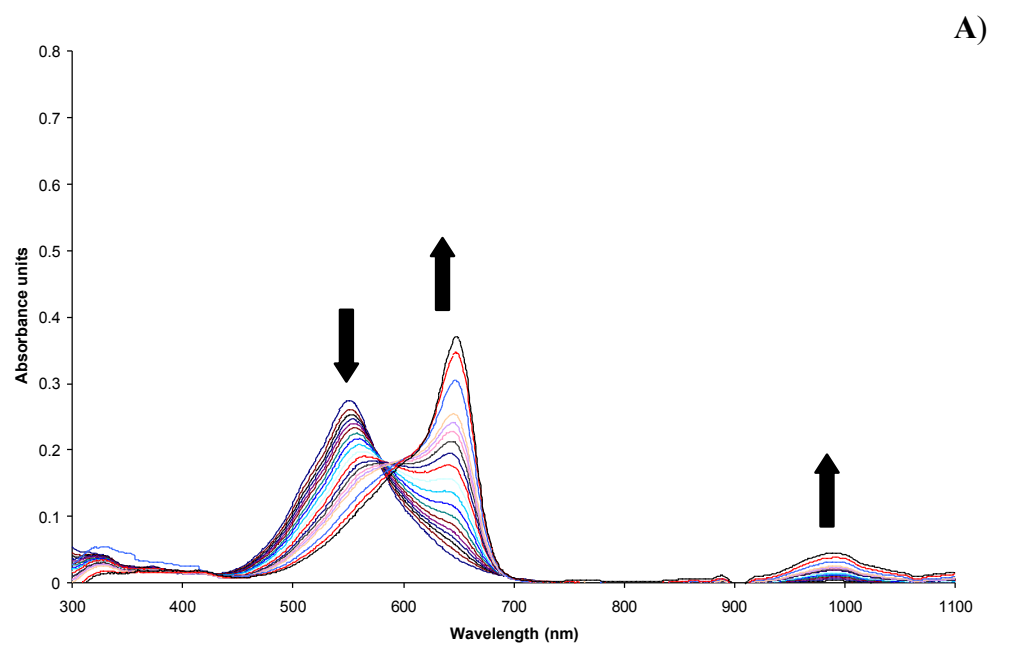


Figure S9: A) The UV-Vis titration of **1**, concentration $5 \times 10^{-5} \text{ Mol dm}^{-3}$ on the addition of Ni^{II} salt . B) Isotherm showing experimental and calculated line.