

Supporting information

Synthesis, cytotoxicity and bioimaging of novel Hg²⁺ selective fluorogenic chemosensor

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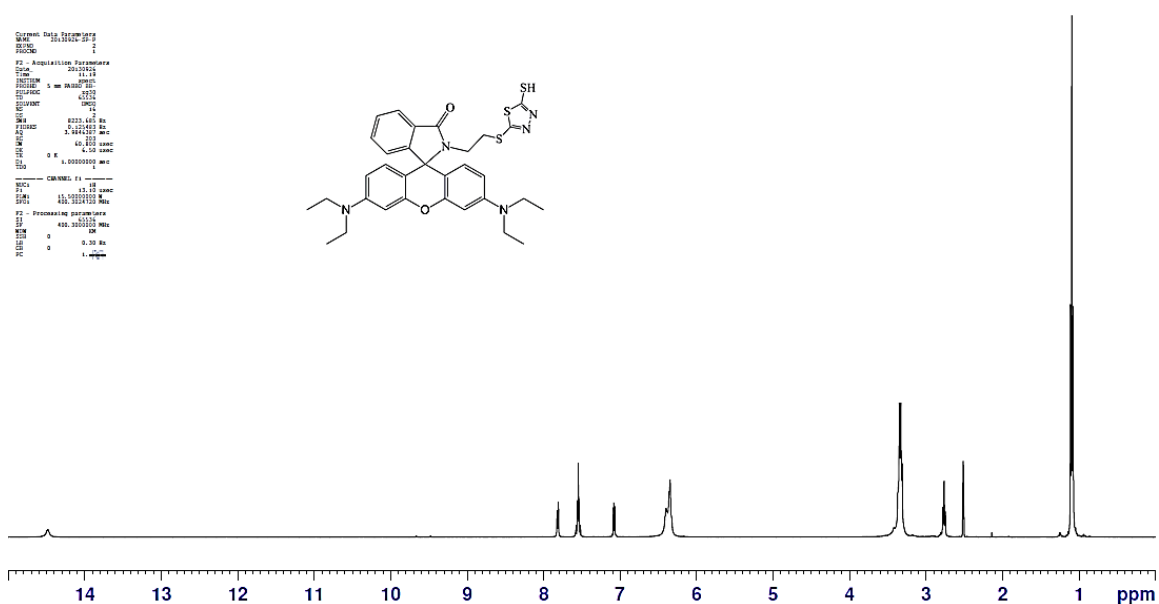


Figure S1: ¹H NMR Spectrum of ligand in DMSO-*d*₆.

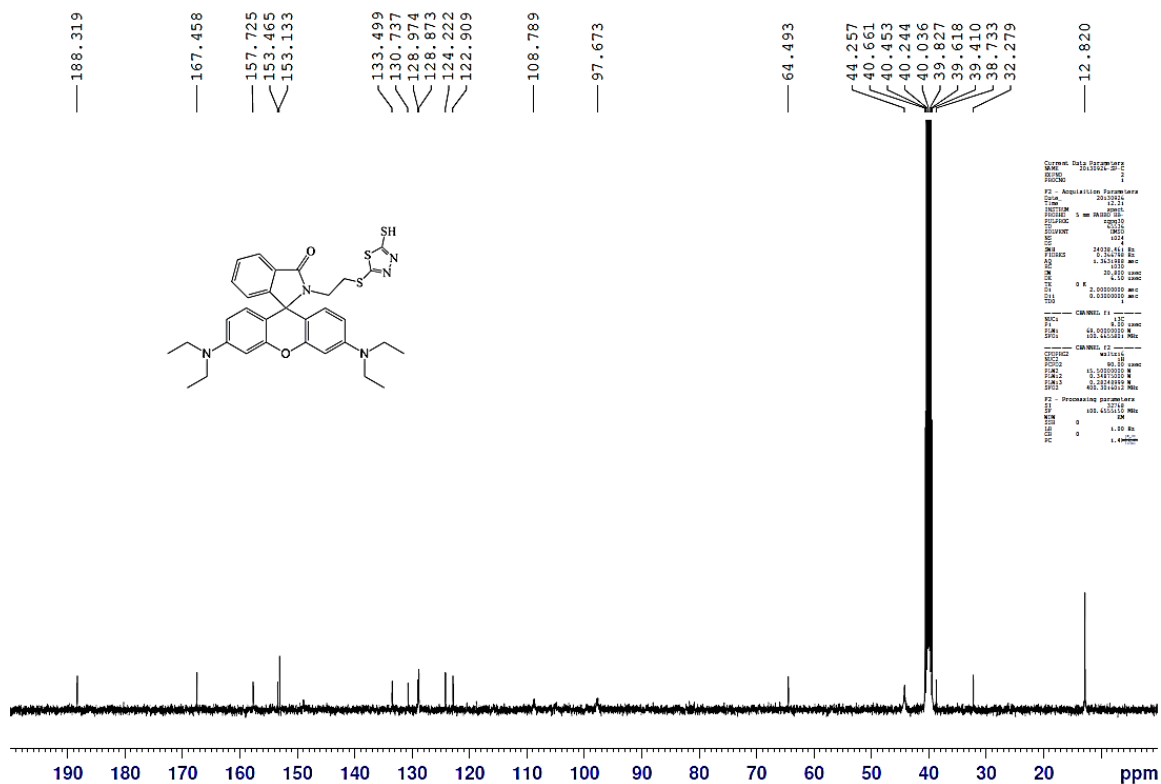


Figure S2: ¹³C NMR Spectrum of ligand in DMSO-*d*₆.

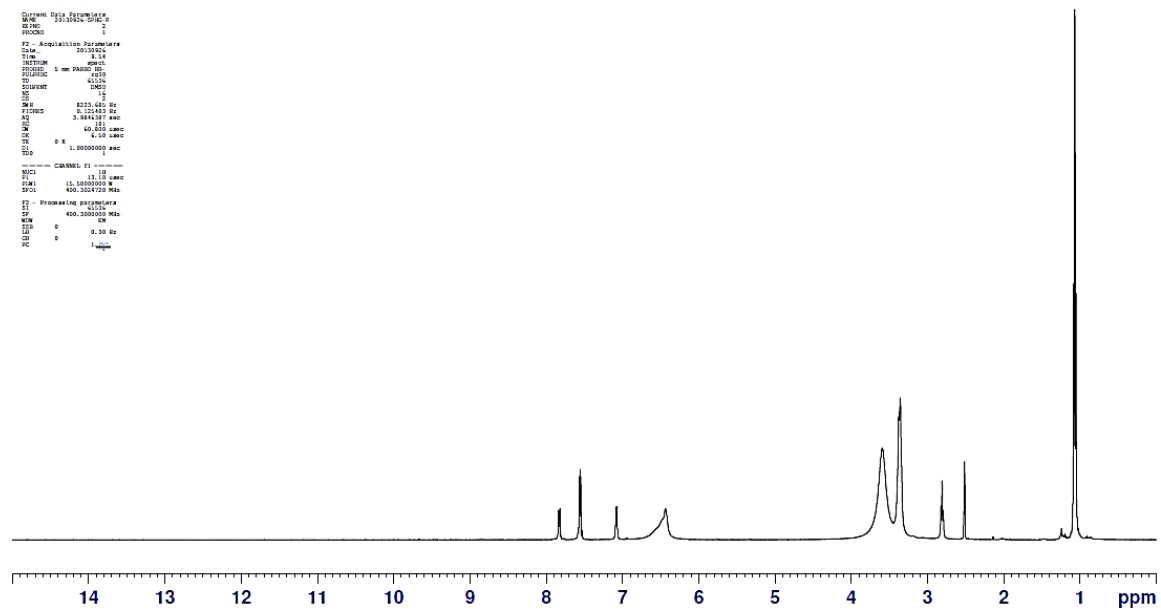
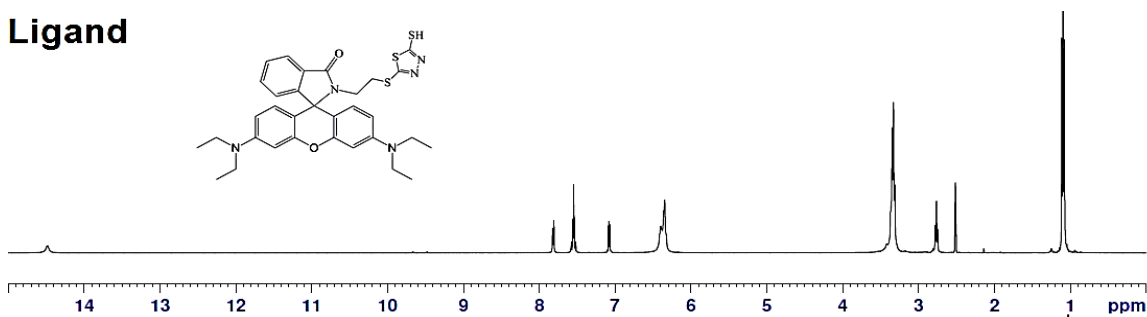
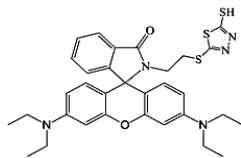
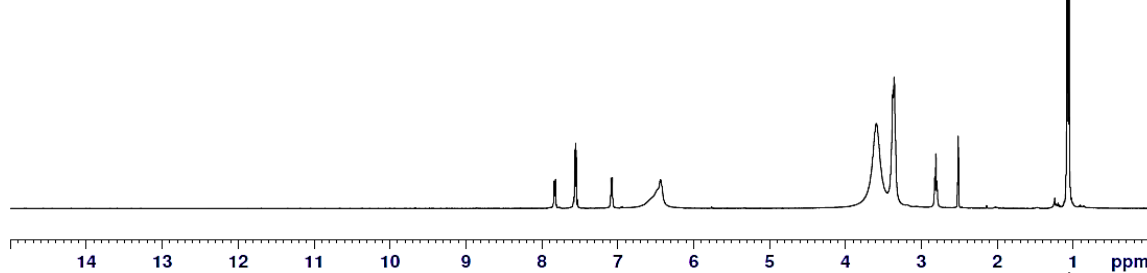


Figure S3: ¹H NMR Spectrum of ligand + Hg²⁺ in DMSO-*d*₆.

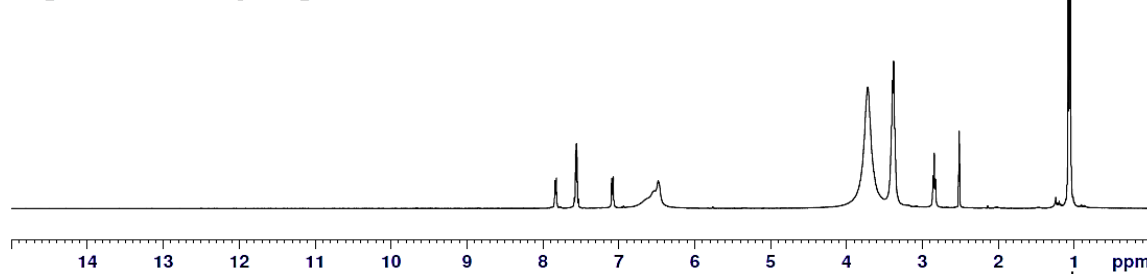
Ligand



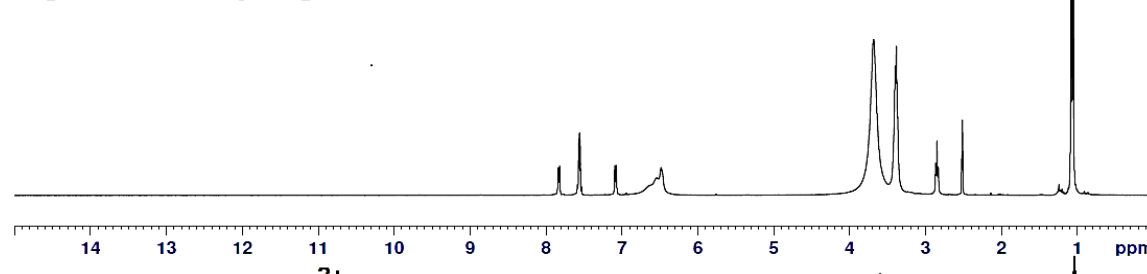
Ligand + 1 eq. Hg²⁺



Ligand + 2 eq. Hg²⁺



Ligand + 3 eq. Hg²⁺



Ligand + 4 eq. Hg²⁺

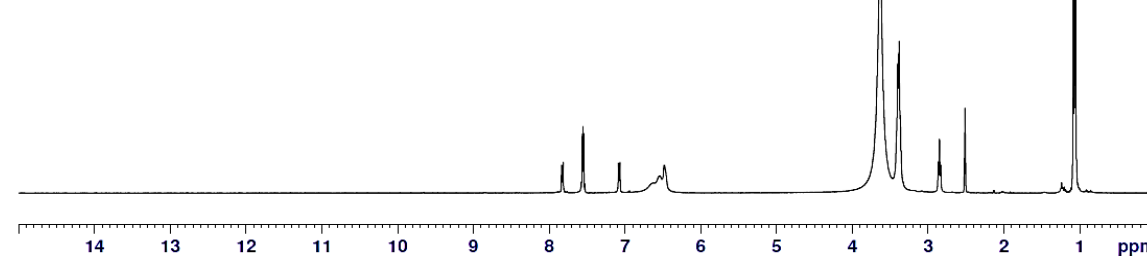


Figure S4: ¹H NMR Spectrum of ligand + Hg²⁺ in DMSO-*d*₆.

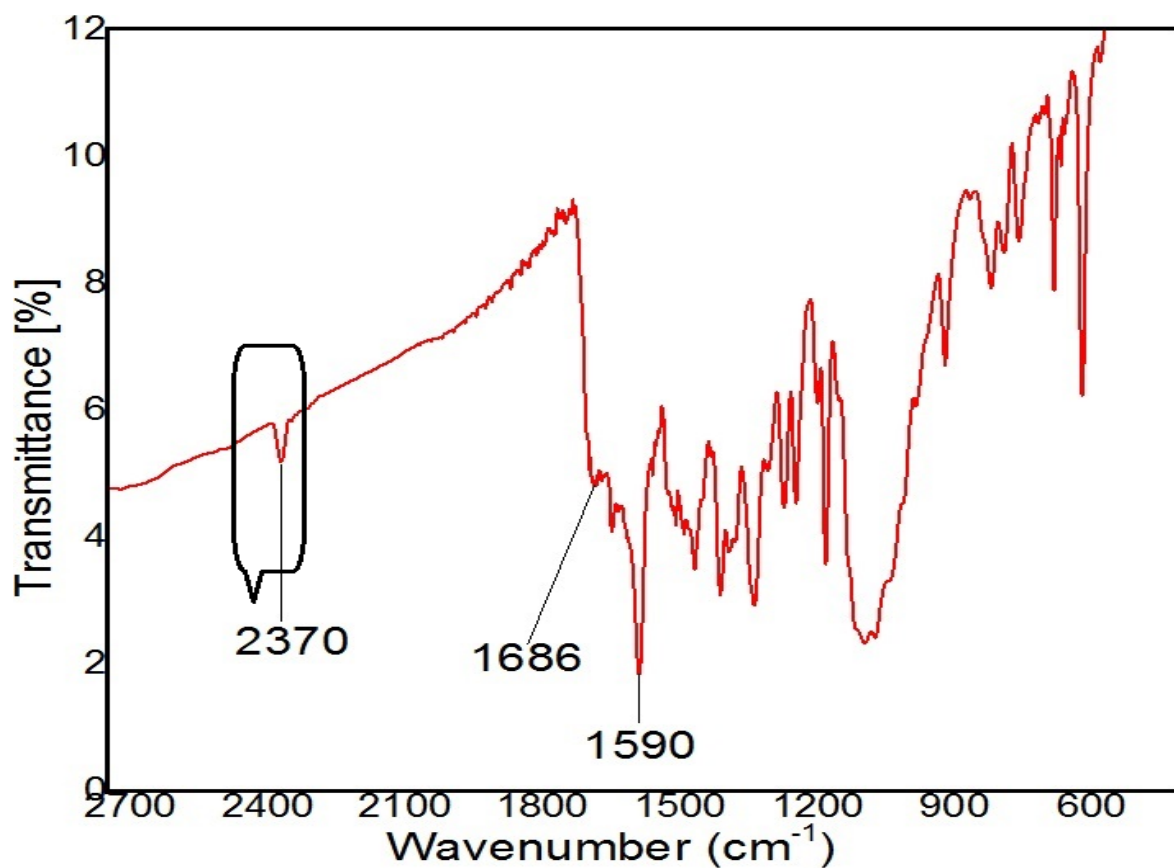


Figure S5: FT-IR Spectrum of ligand 2.

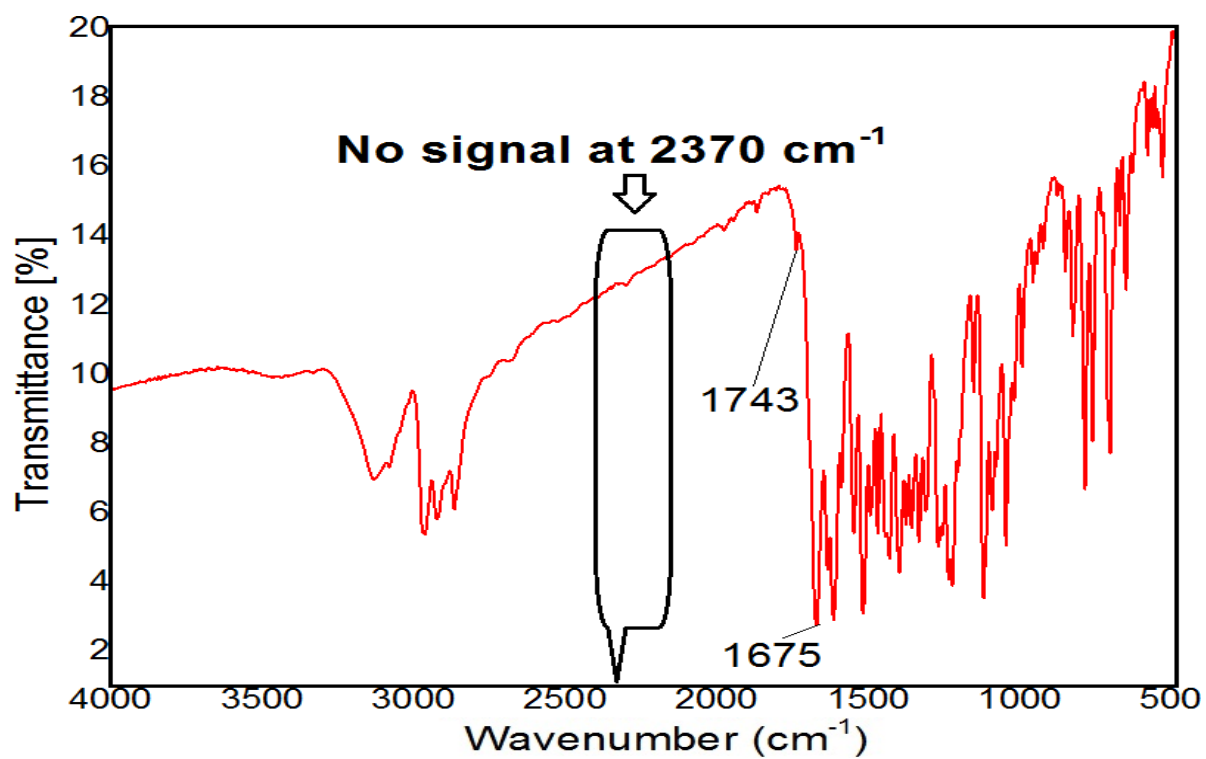


Figure S6: FT-IR spectrum of ligand + Hg^{2+} .

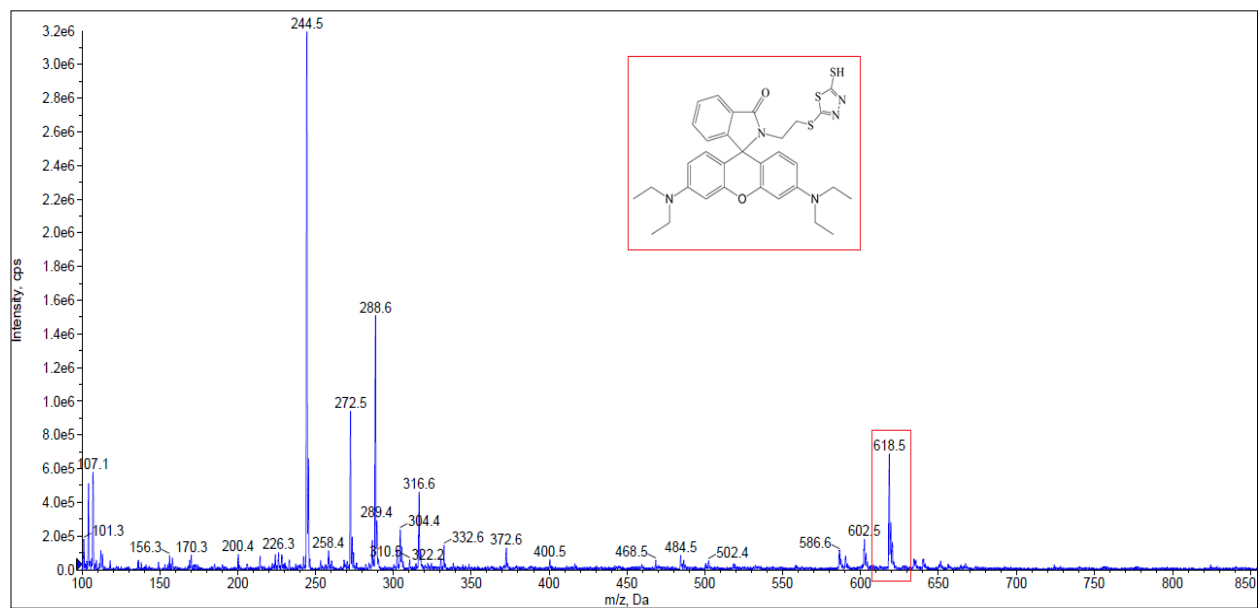


Figure S7: Mass spectrum of ligand.

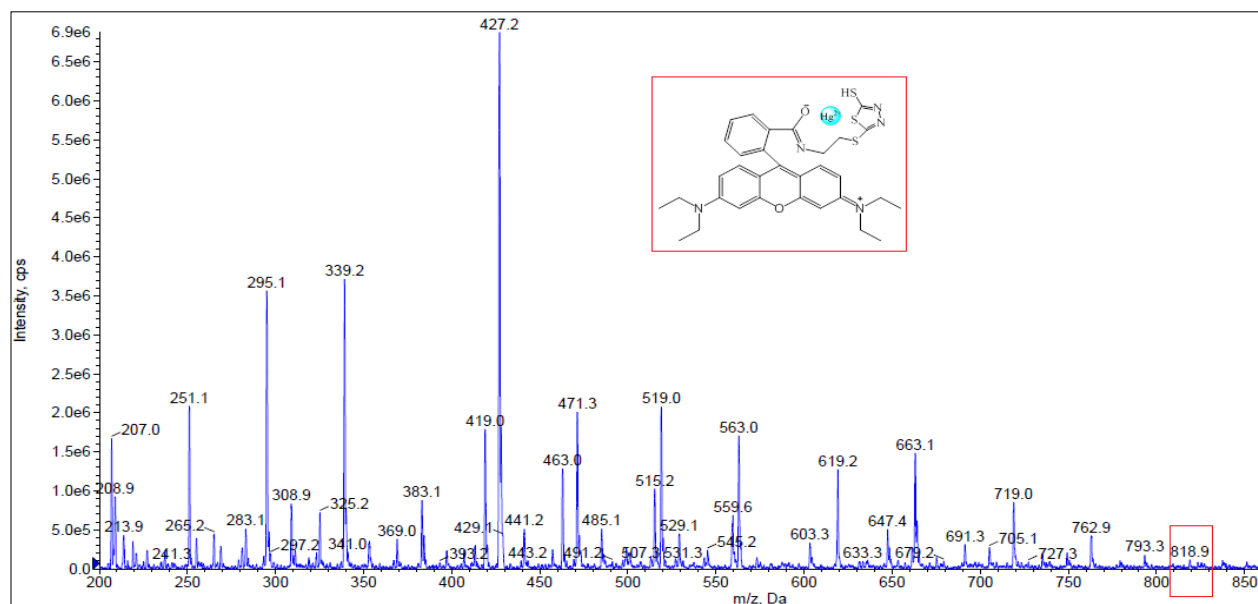


Figure S8: Mass spectrum of ligand-mercury complex.

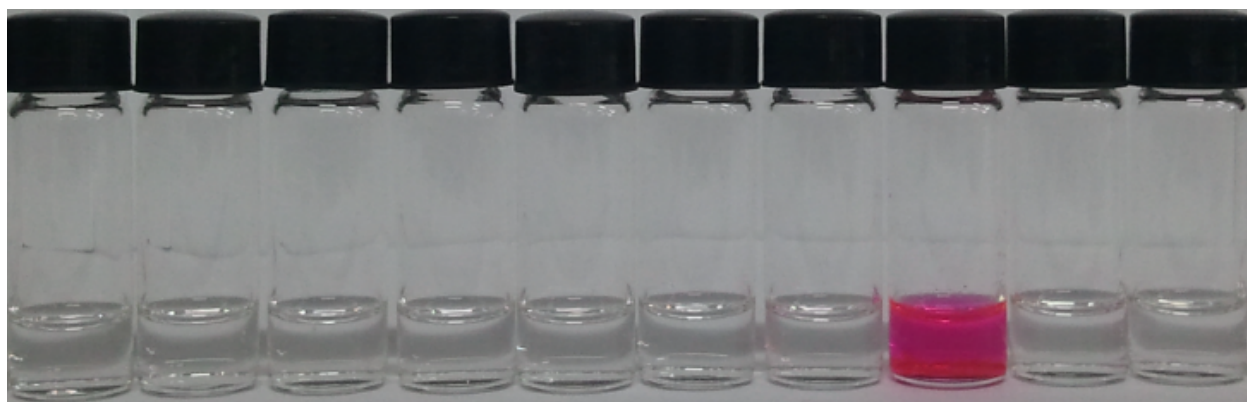


Figure S9: Colorimetric change of ligand **2** solution after addition of mercuric ion and various ions under ambient light.