

## Electronic Supplementary Data

### A supramolecular strategy for ratiometric luminescence sensing of nitroaromatic explosives in water

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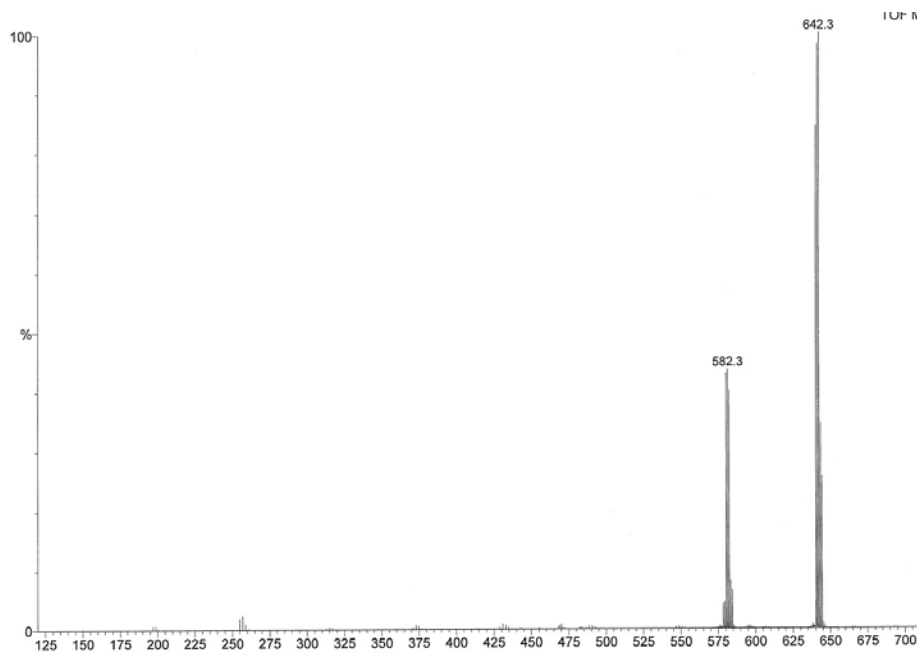


Fig. S1 — ESI-Mass spectra of Pt-C2 complex

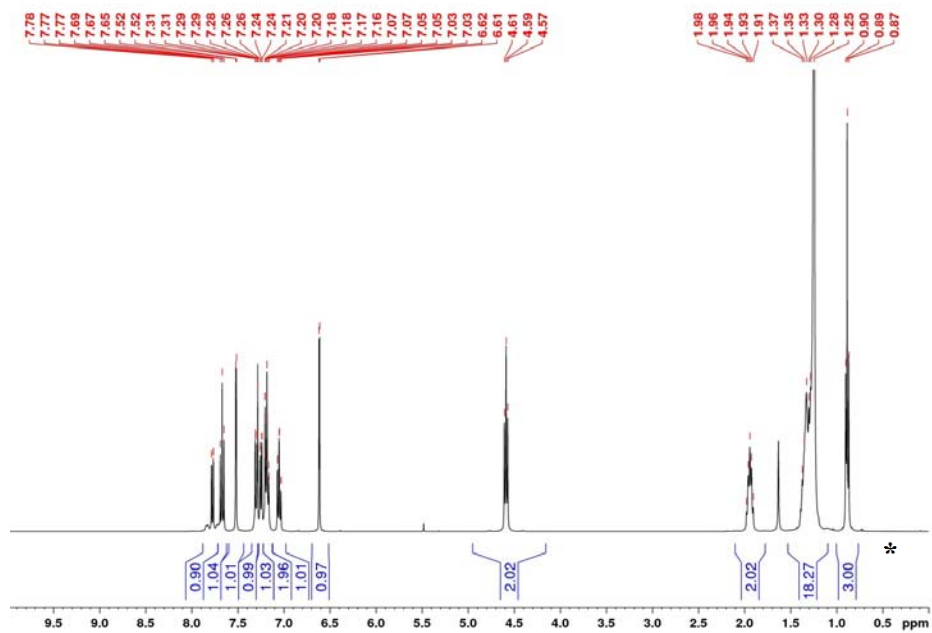


Fig. S2 — Proton NMR spectrum of Pt-C2 complex measured in CDCl<sub>3</sub>

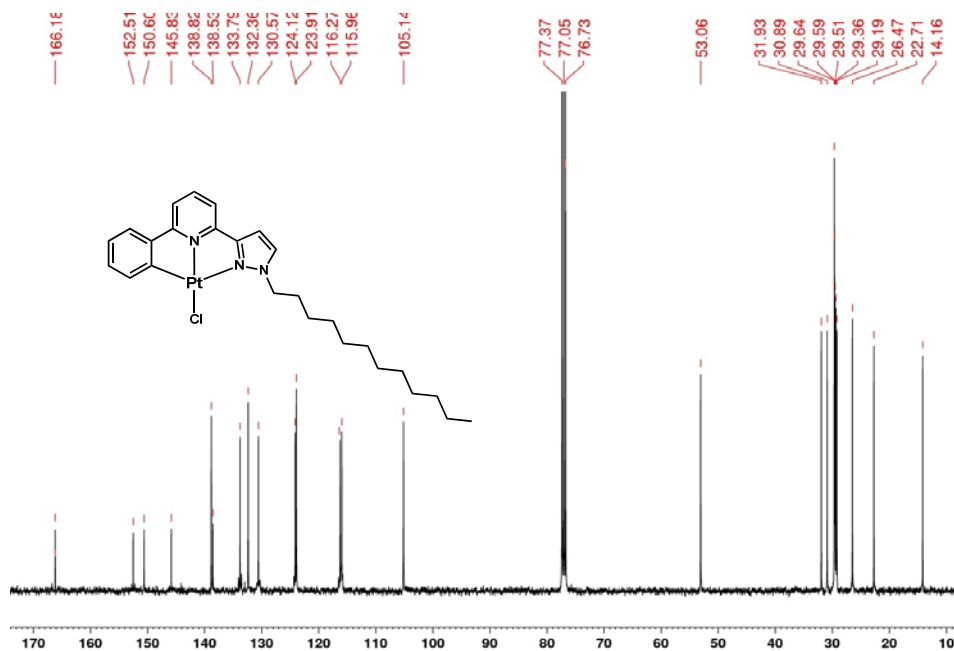


Fig. S3 —  $^{13}\text{C}$ -NMR spectrum of Pt-C2 complex in  $\text{CDCl}_3$

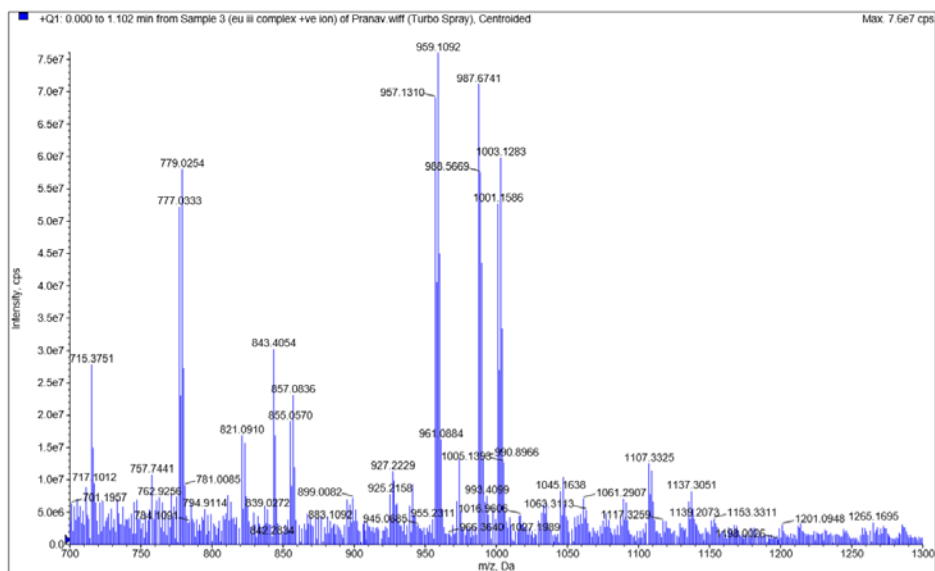


Fig. S4 — ESI MS spectrum of Eu-C1 complex

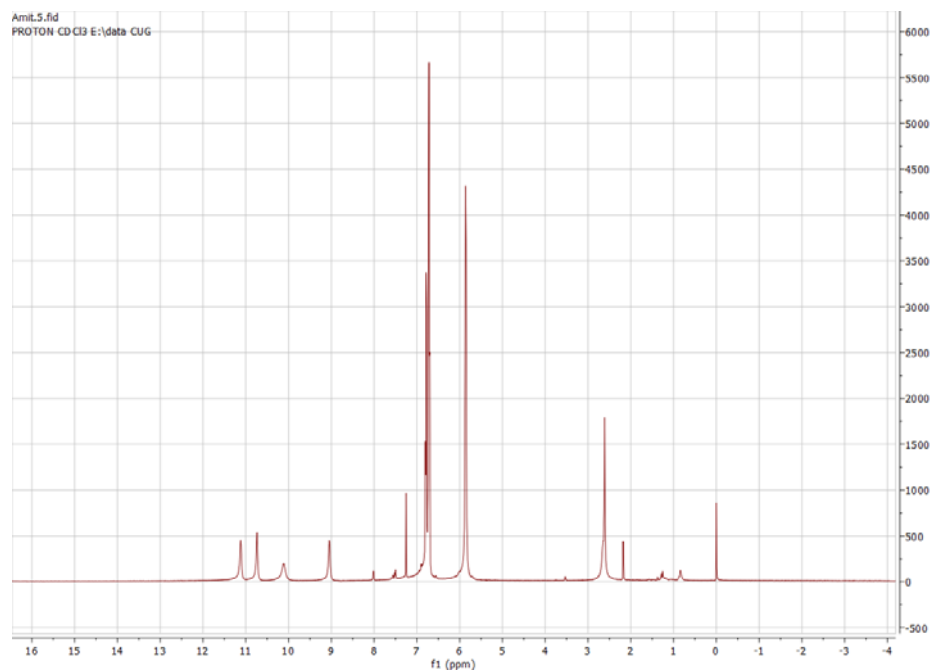


Fig. S5 —  $^1\text{H}$  NMR spectrum of Eu-C1 complex

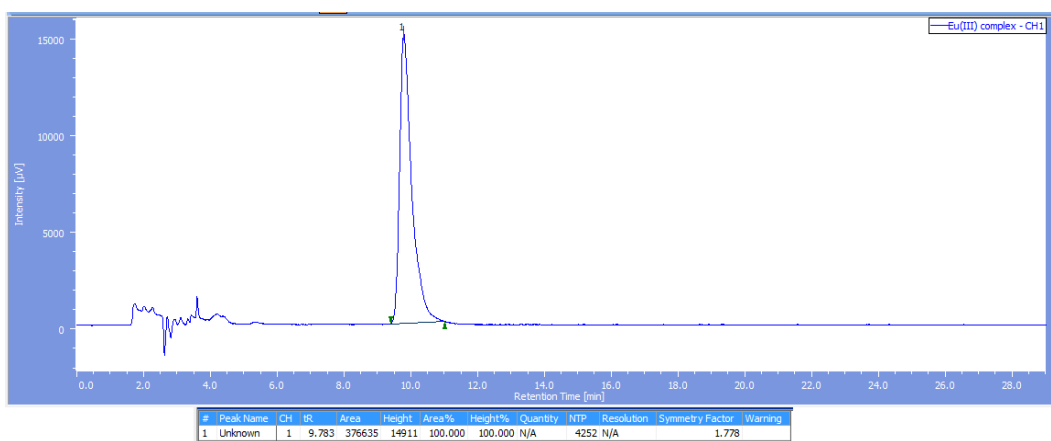


Fig. S6 — HPLC chromatograph of purified Eu-C1 complex

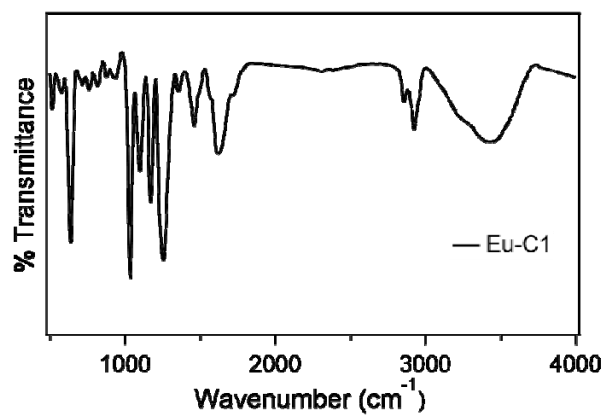


Fig. S7 — FTIR spectra of Eu-C1 complex

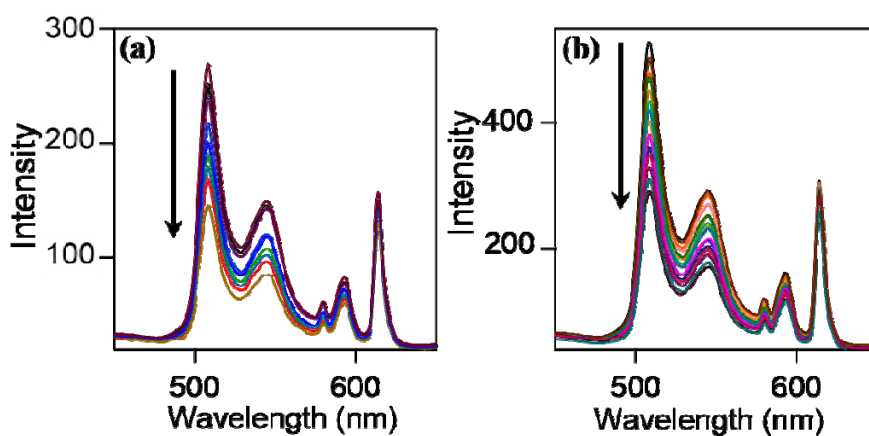


Fig. S8 — PL titration spectra of Triton X-100-Eu-C1-Pt-C2 in water at 298 K with various amount of TNT (a) and DNP (b)

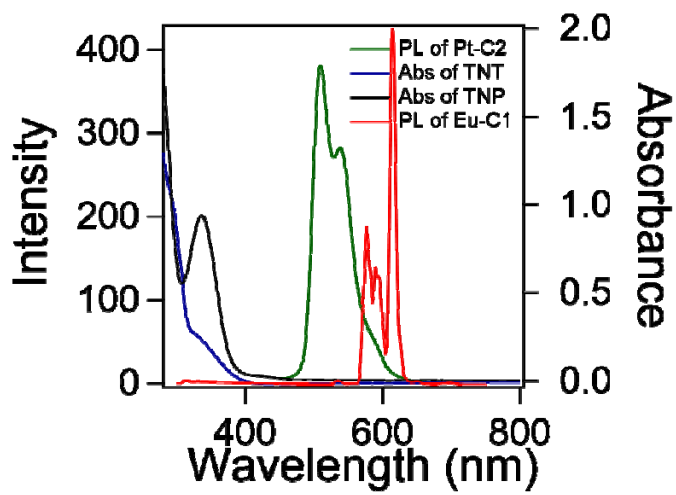


Fig. S9 — Absorption spectra of TNT and TNP and emission spectra of Eu-C1 and Pt-C2