Electronic Supplementary Material (ESI) for Dalton Transactions.

Tuning of excitation wavelength in Eu^{3+}-aminophenyl based polyfluorinated β-diketonate complexes: Red-emitting Eu^{3+}-complex encapsulated in silica/polymer hybrid material excited by blue light

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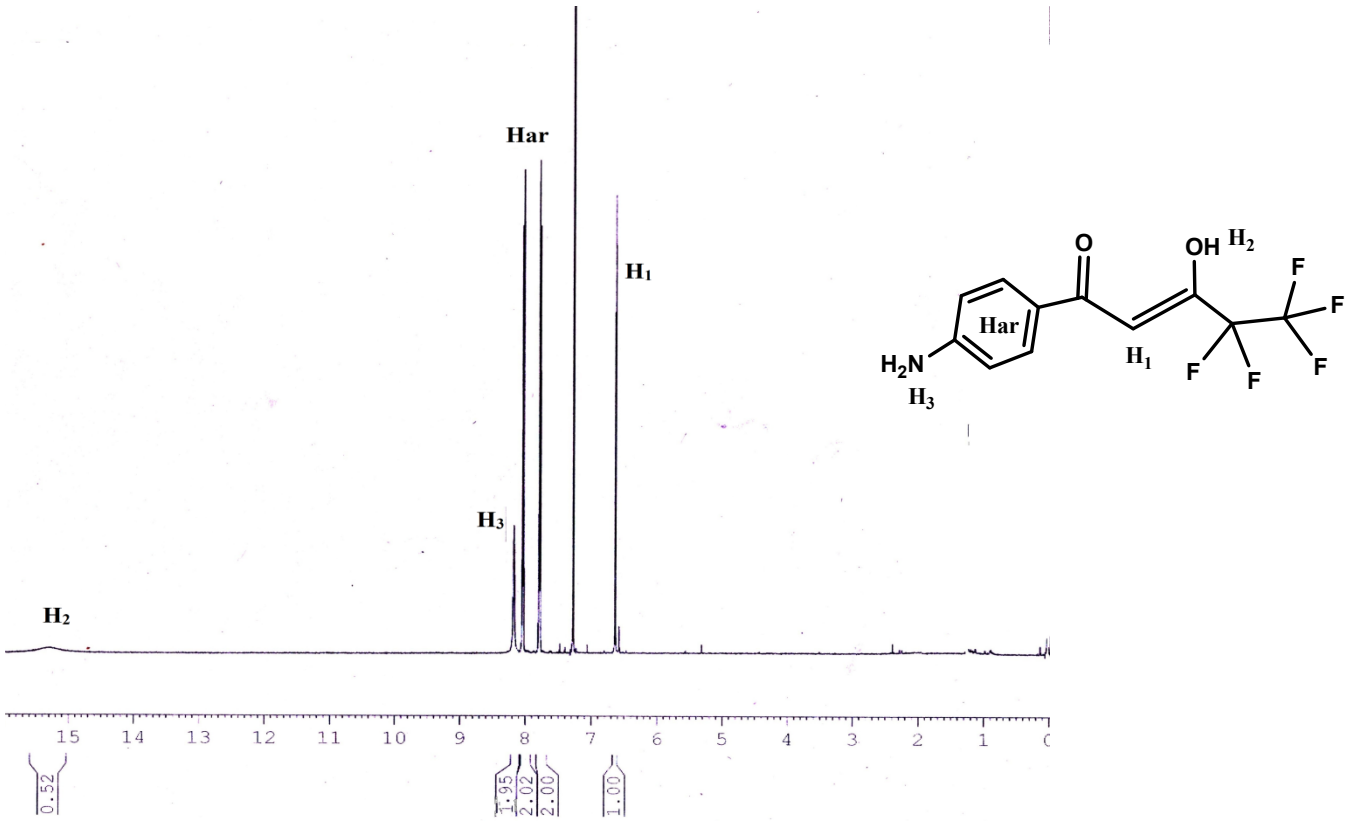

Fig. S1 ^{1}H NMR spectrum of the ligand HAPFP**.**

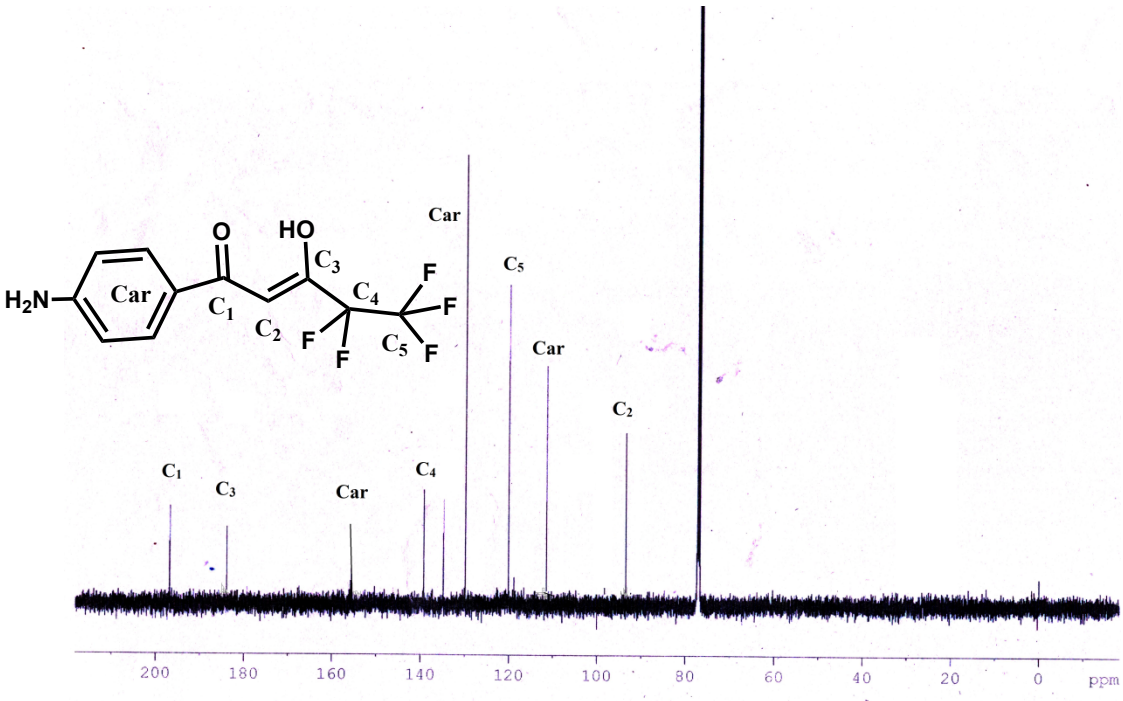

Fig. S2 ^{13}C NMR spectrum of the ligand HAPFP.

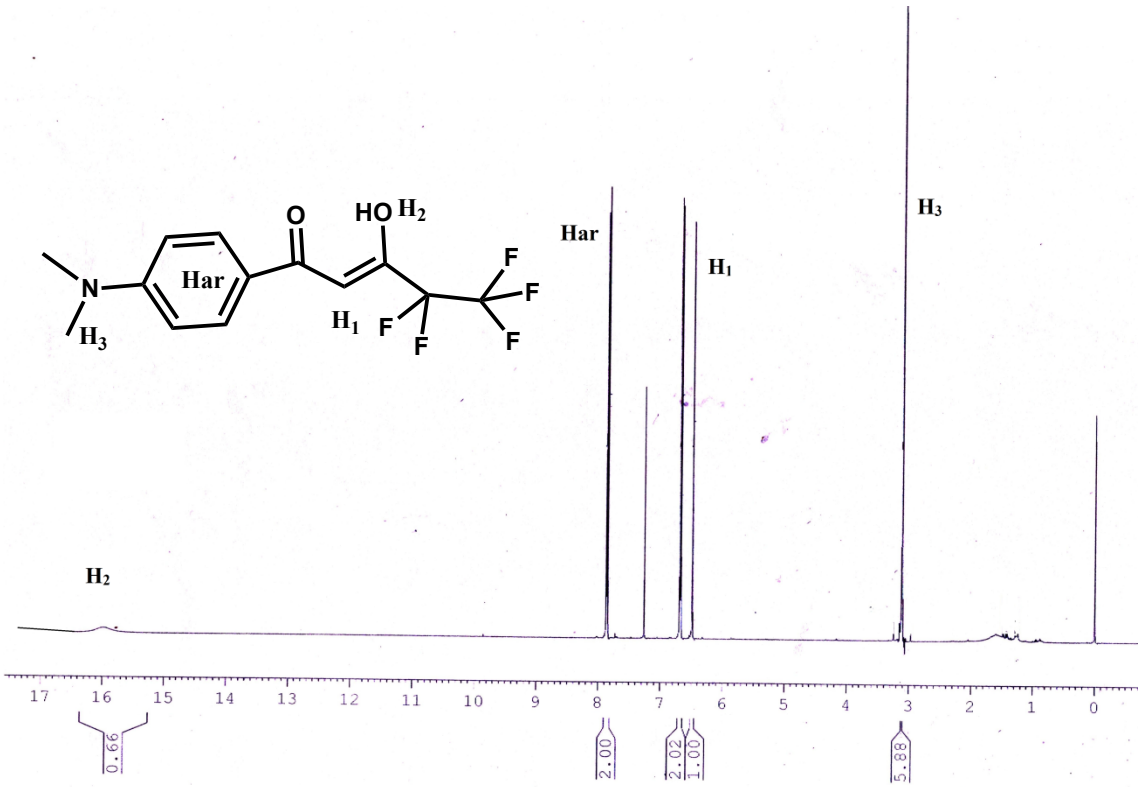

Fig. S3 ^{1}H NMR spectrum of the ligand HDMAPFP.

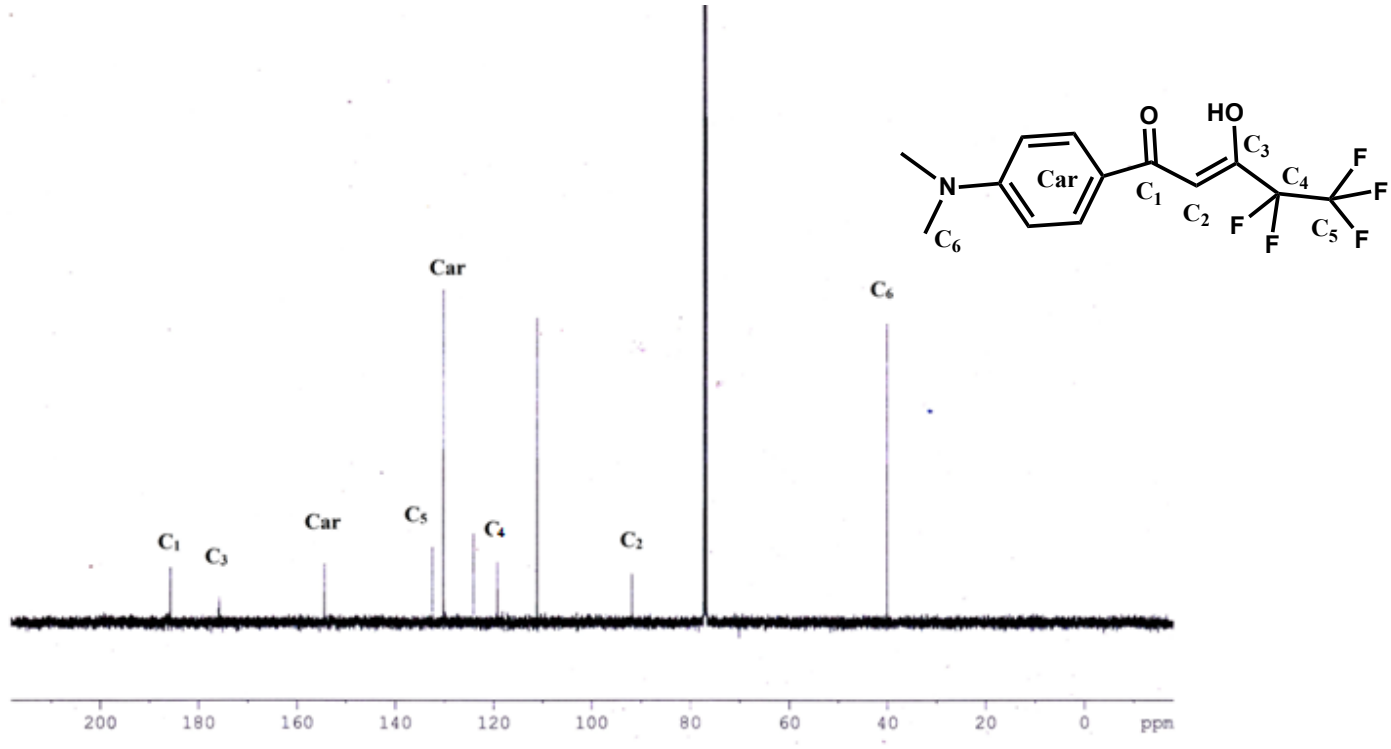

Fig. S4 ^{13}C NMR spectrum of the ligand HDMAPFP.

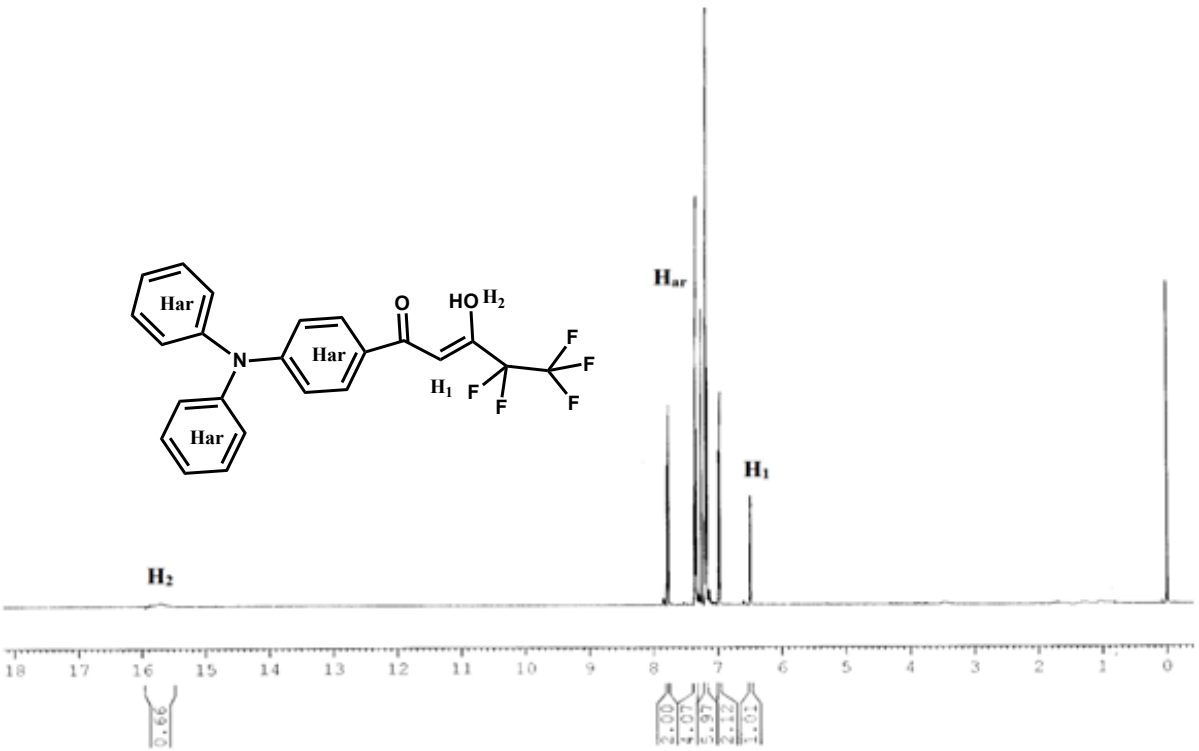

Fig. S5 ^{1}H NMR spectrum of the ligand HDPAPFP.

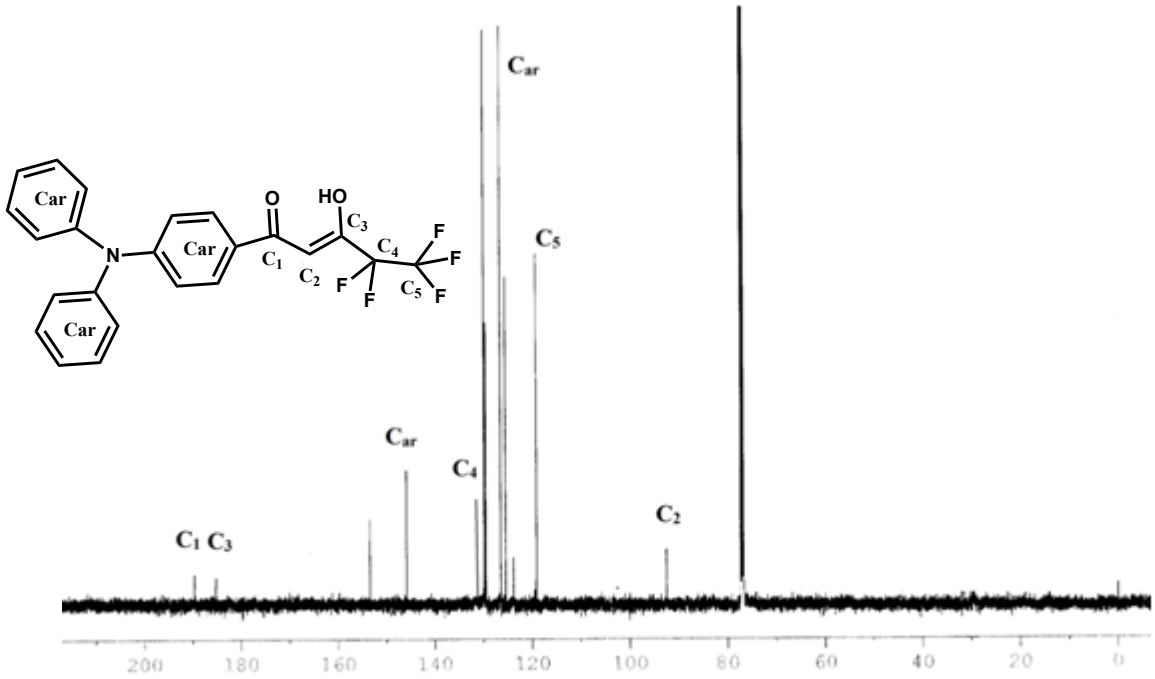

Fig. S6 ^{13}C NMR spectrum of the ligand HDPAPFP.

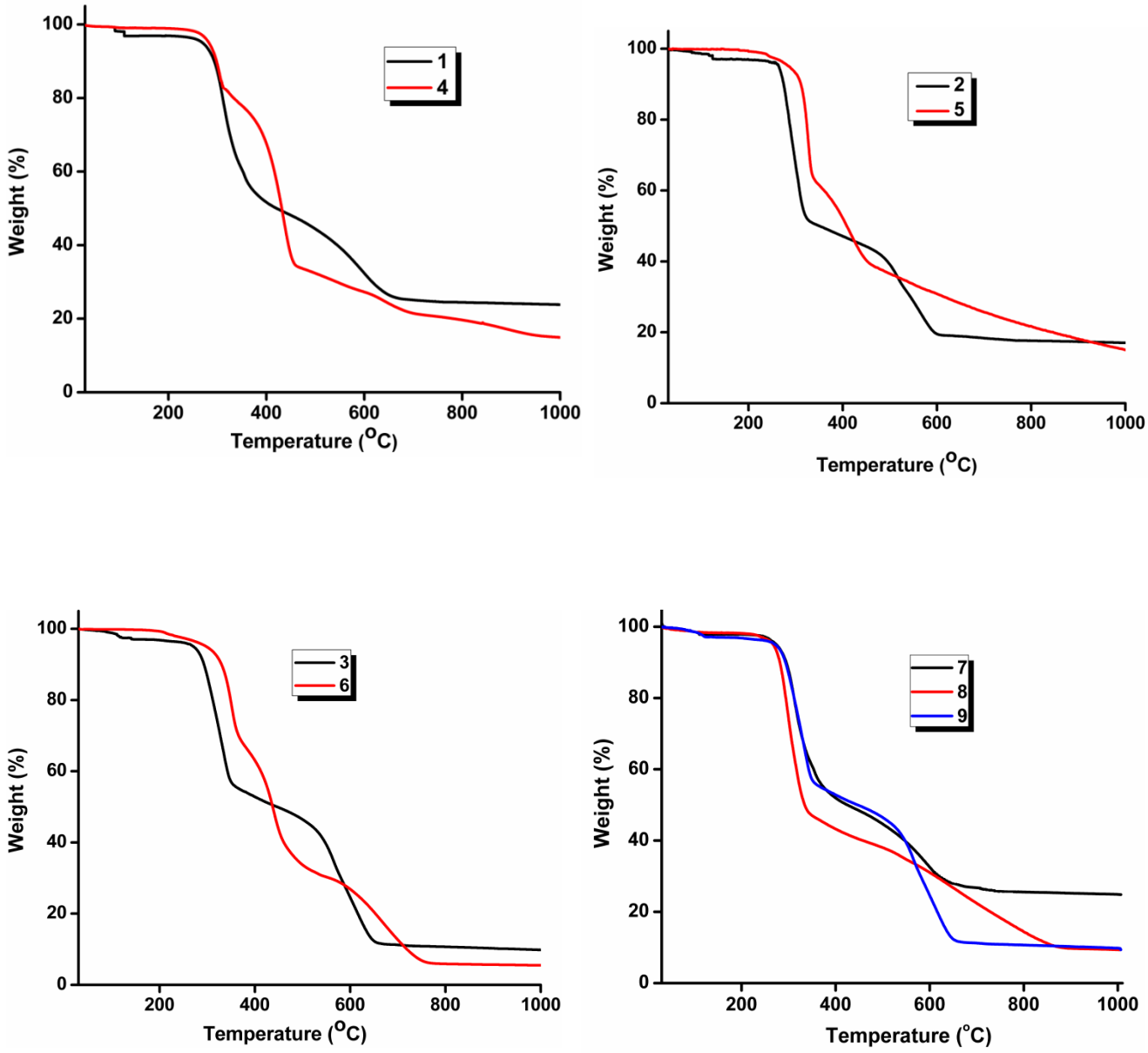

Fig. S7 Thermogravimetric curves for Ln^{3+} complexes **1 – 9**.

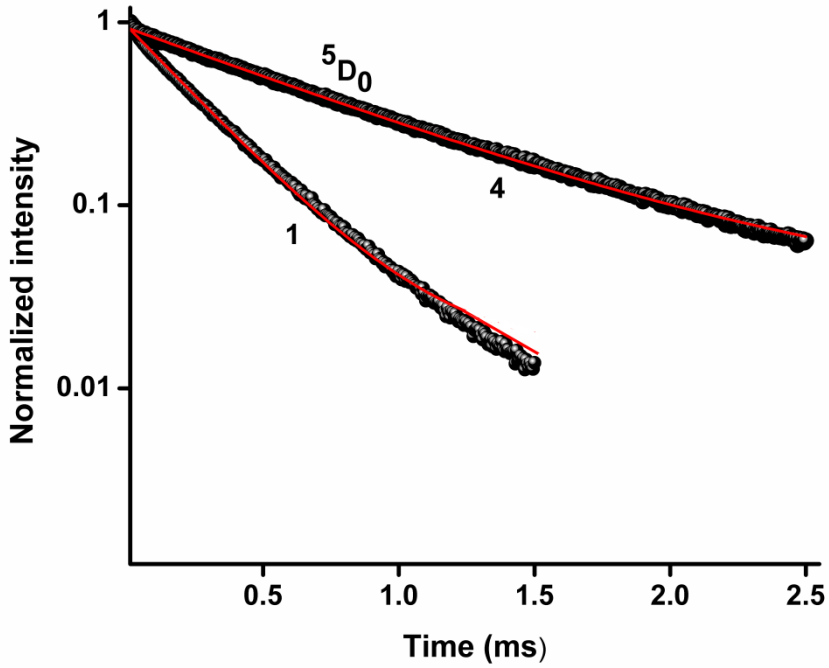

Fig. S8 $^5D_0$ decay profiles for complexes **1** and **4** (solid-state) where emission monitored around 612 nm. The straight lines are the best fits ($r^2 = 0.999$) considering single-exponential behavior.

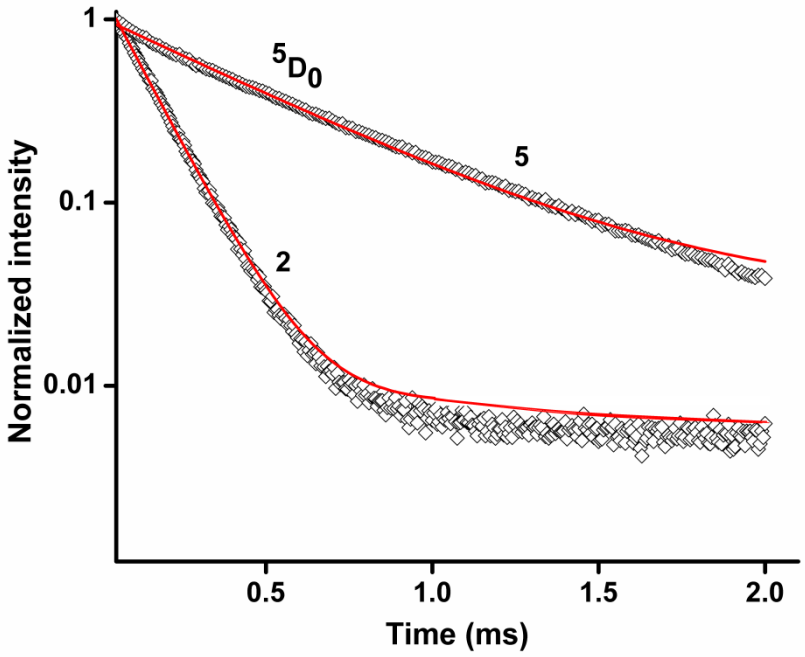

Fig. S9 $^5D_0$ decay profiles for complexes **2** and **5** (solid-state) where emission monitored around 612 nm. The straight lines are the best fits ($r^2 = 0.999$) considering single-exponential behavior**.**

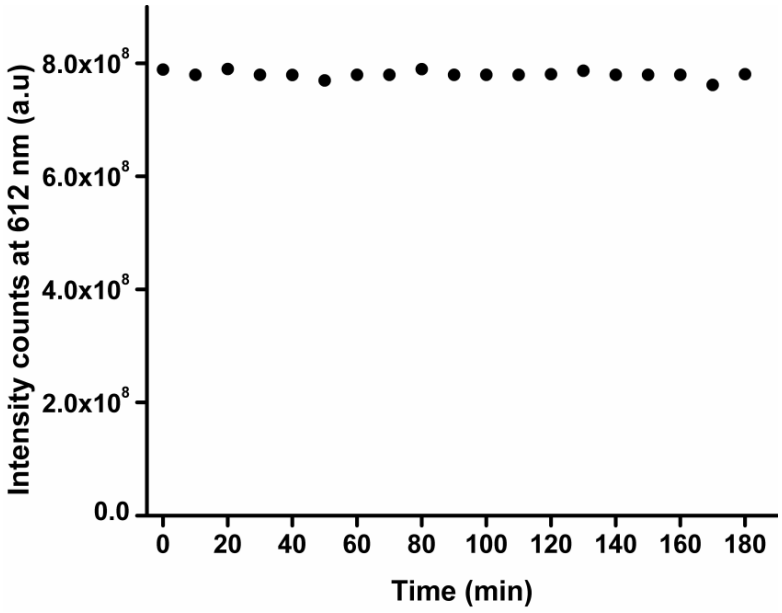

Fig. S10 Photoluminescence intensity of the complex Eu(DPAPFP)$_3$DDXPO in solid state as a function of irradiation time.

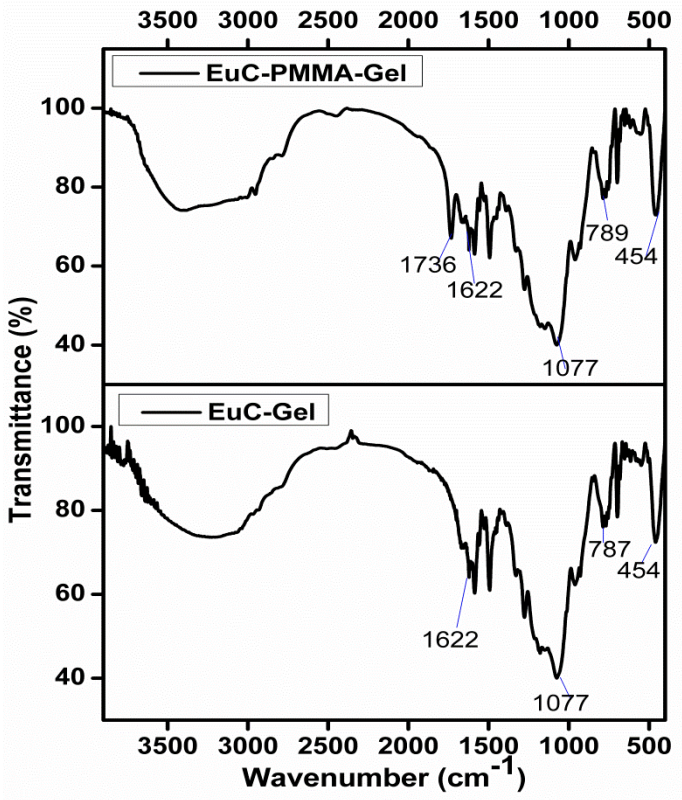

Fig. S11 FT-IR spectra of the EuC-Gel and EuC-PMMA-Gel.

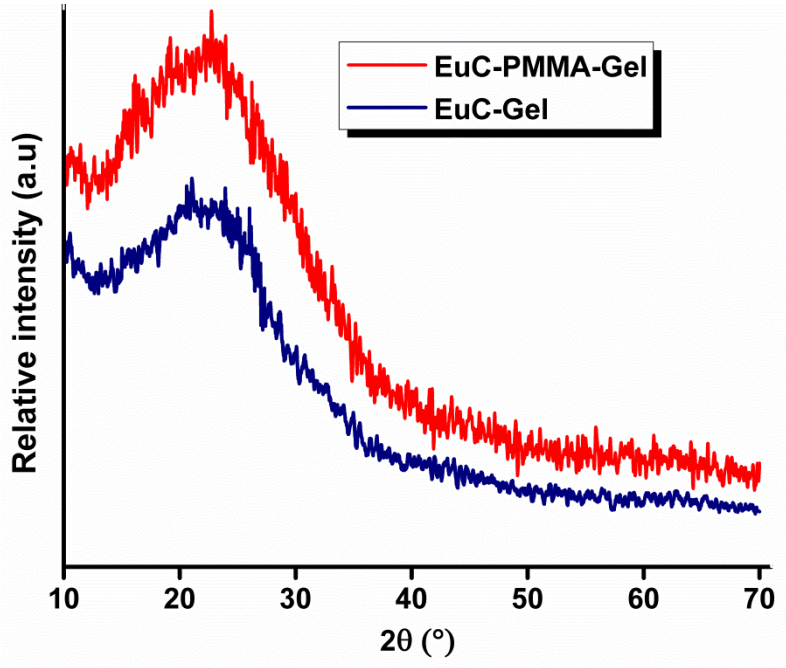

Fig. S12 XRD patterns of the EuC-Gel and EuC-PMMA-Gel.

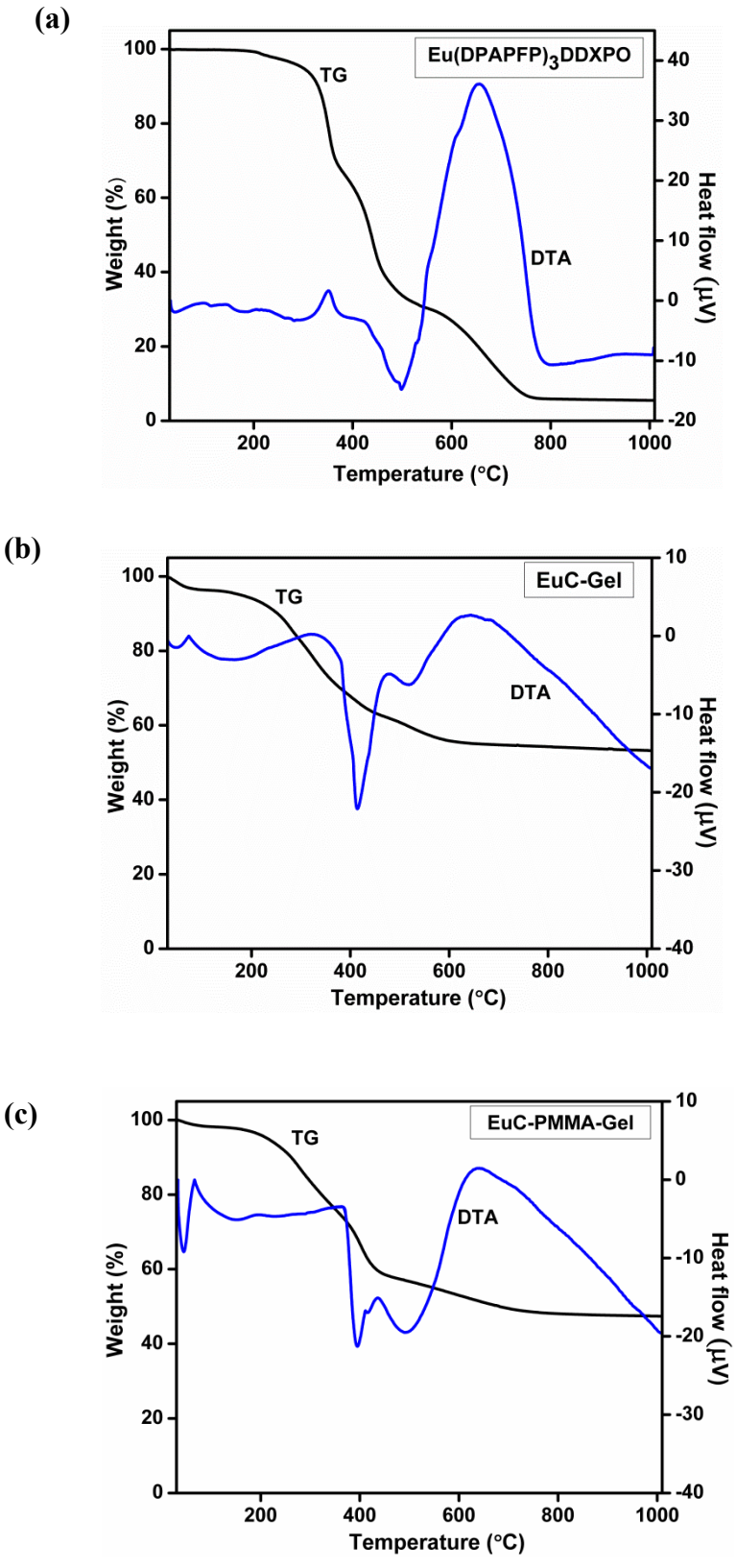

Fig. S13 TG/DTA curves for (a) $Eu(DPAPFP)_3DDXPO$, (b) EuC-Gel and (c) EuC-PMMA-Gel.

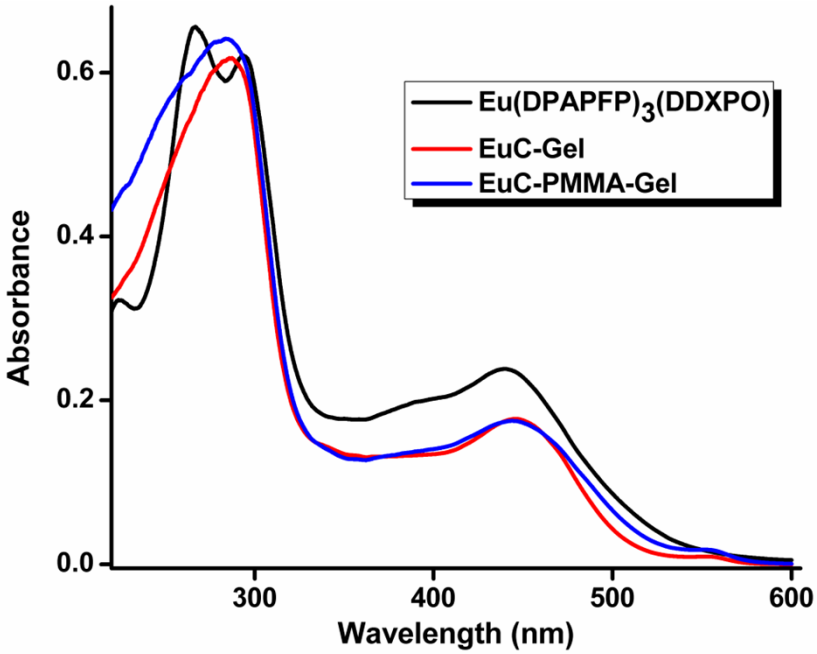

Fig. S14 UV-visible absorption spectra of the gels (solid).