Electronic Supplementary Information (ESI)

Piezofluorochromism and Morphology of A New Aggregation-Induced Emission Compound Derived from Tetraphenylethylene and Carbazole

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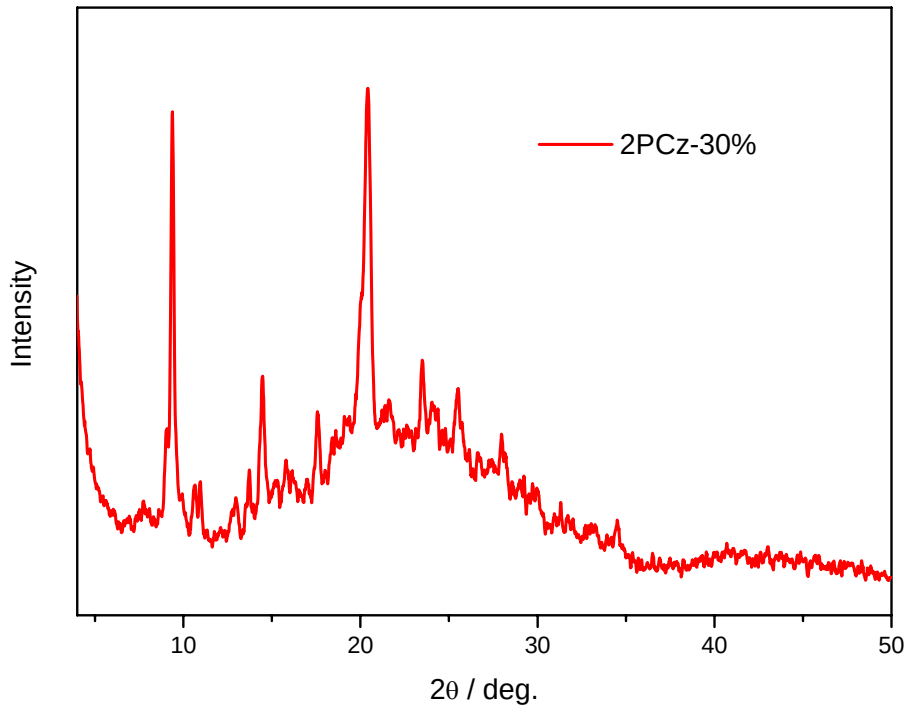

Fig. S1. WAXD pattern of the powder sample obtained from 30% water fraction mixture.

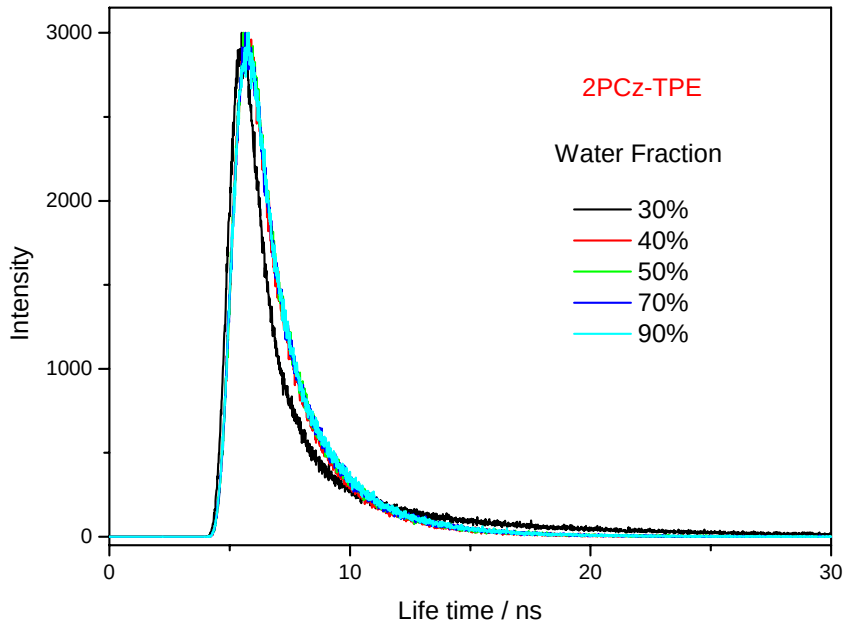

Fig. S2. Time-resolved emission decay curves of 2PCz-TPE in DMF/H_2O with different volume fractions of water.

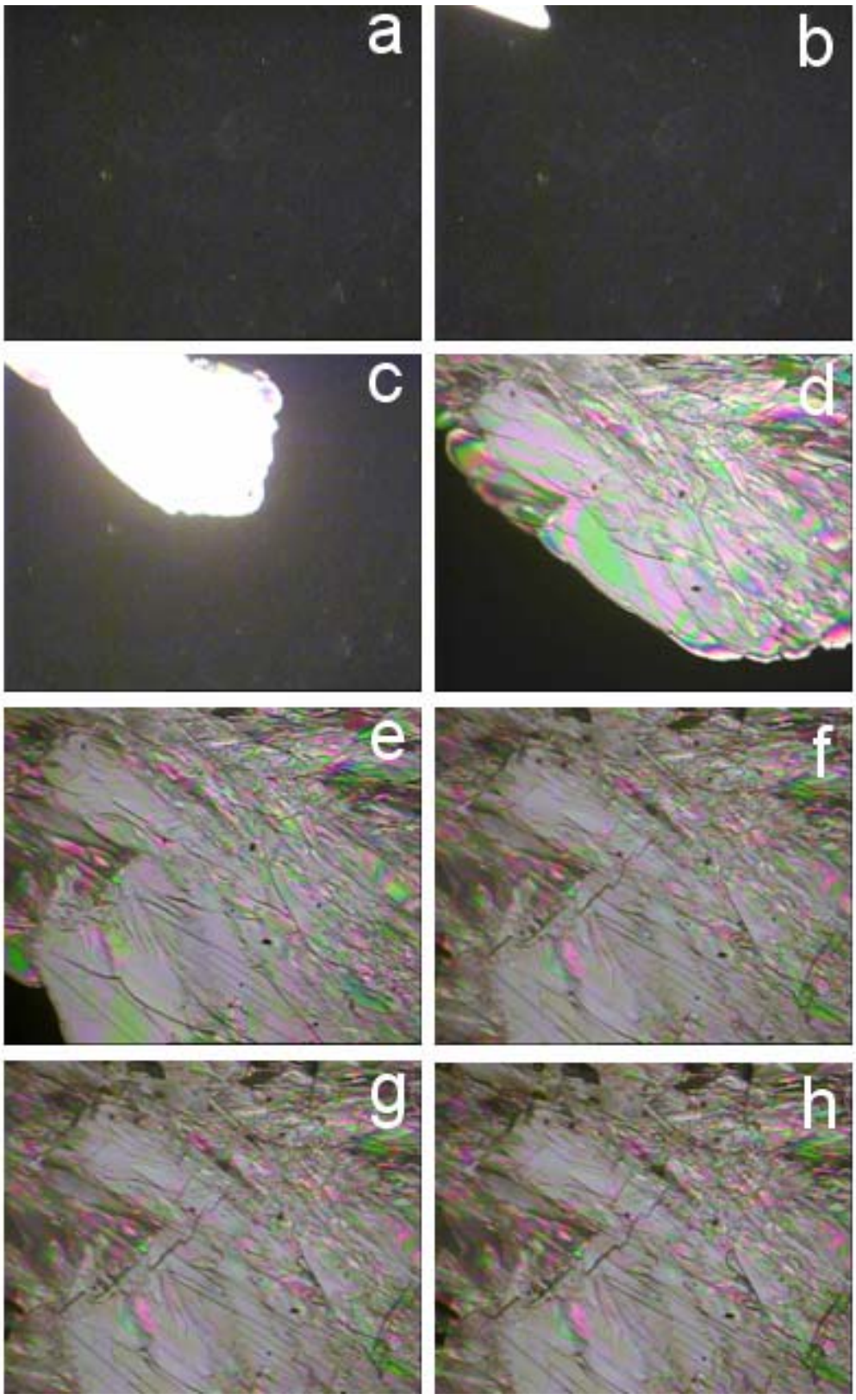

Fig. S3. Cooling the compound melt under a polarized light microscopy with hot-stage: a) 350 ^{o}C; b) 334 ^{o}C; c) 333 ^{o}C; d) 332 ^{o}C; e) 329 ^{o}C; f) 260 ^{o}C; g) 250 ^{o}C; a) 240 ^{o}C.

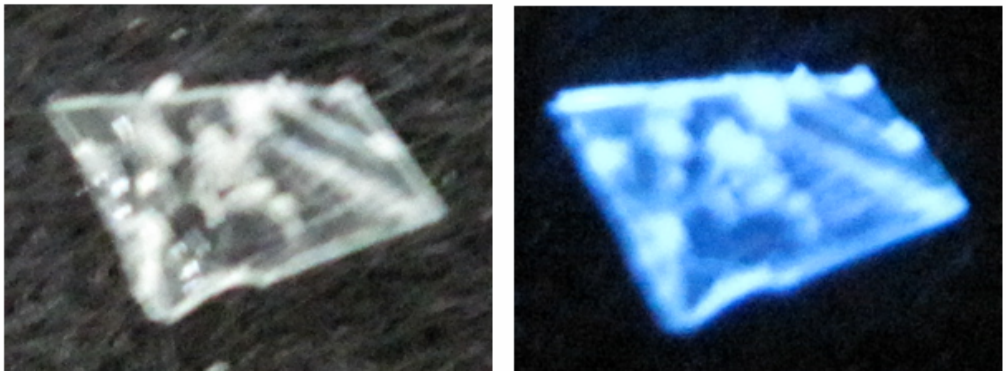

Fig. S4. Photograph of the single crystal under ambient light (left) and UV lamp (right).

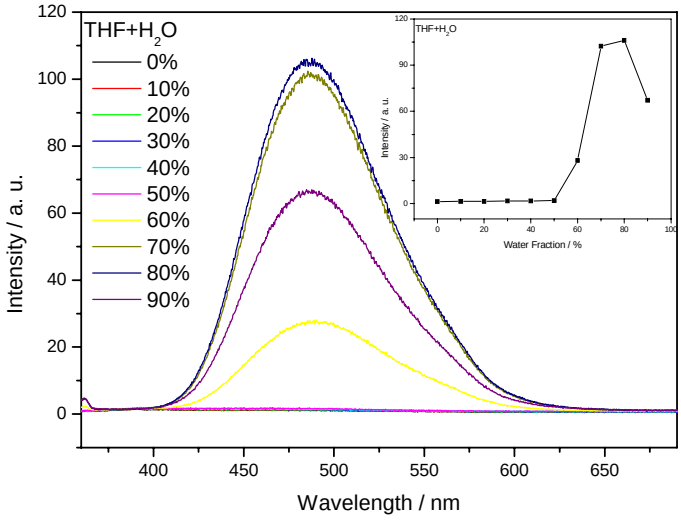

Fig. S5. PL spectra of the dilute solutions of 2PCz-TPE in water/THF mixtures with different volume fractions of water (concentration: 10 μM; excitation wavelength: 365 nm). The inset shows the changes in PL peak intensity (up).

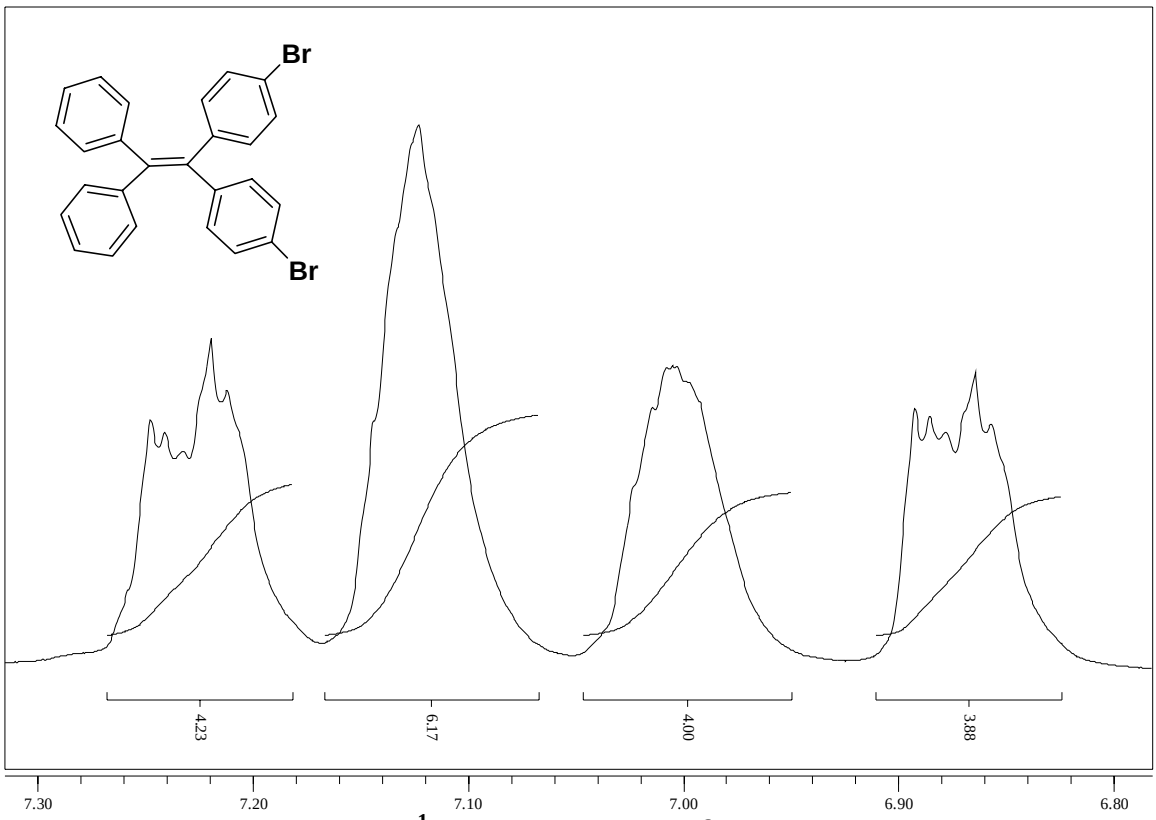

Fig. S6. ^{1}H-NMR spectrum of 2Br-TPE.

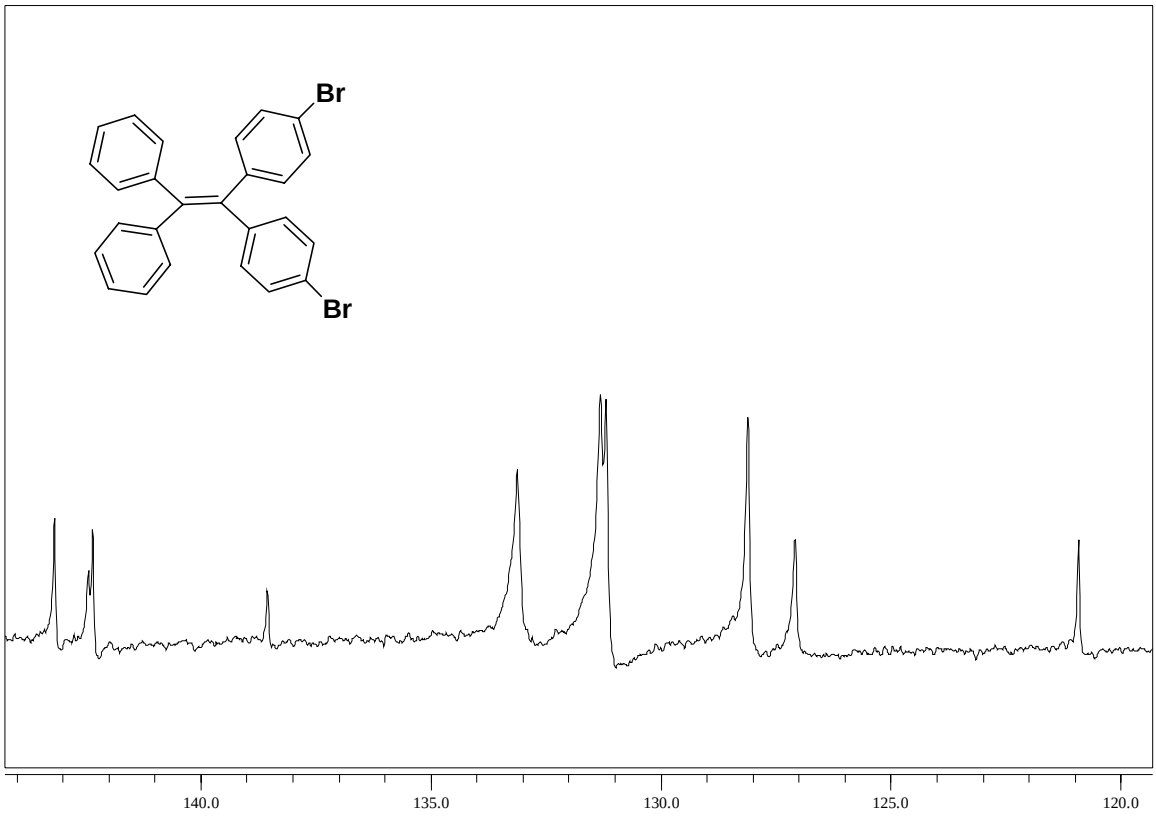

Fig. S7. ^{13}C-NMR spectrum of 2Br-TPE.

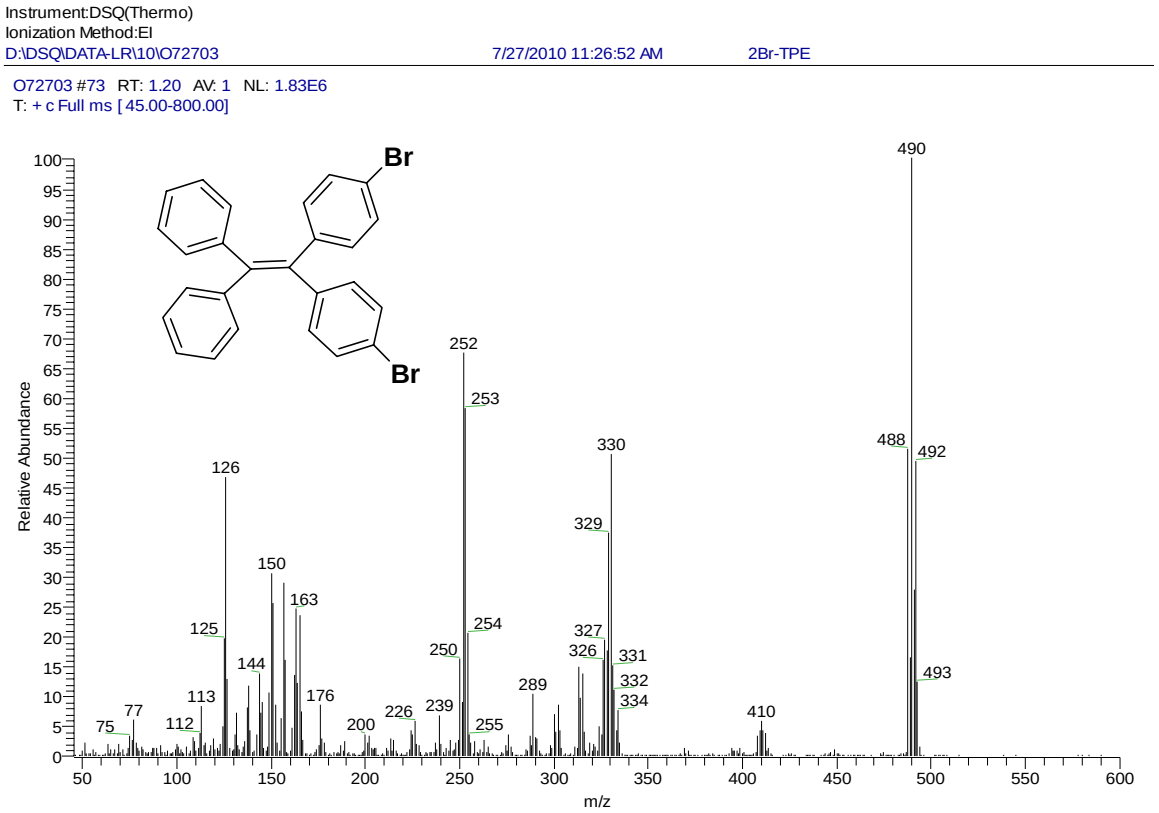

Fig. S8. MS spectrum of 2Br-TPE.

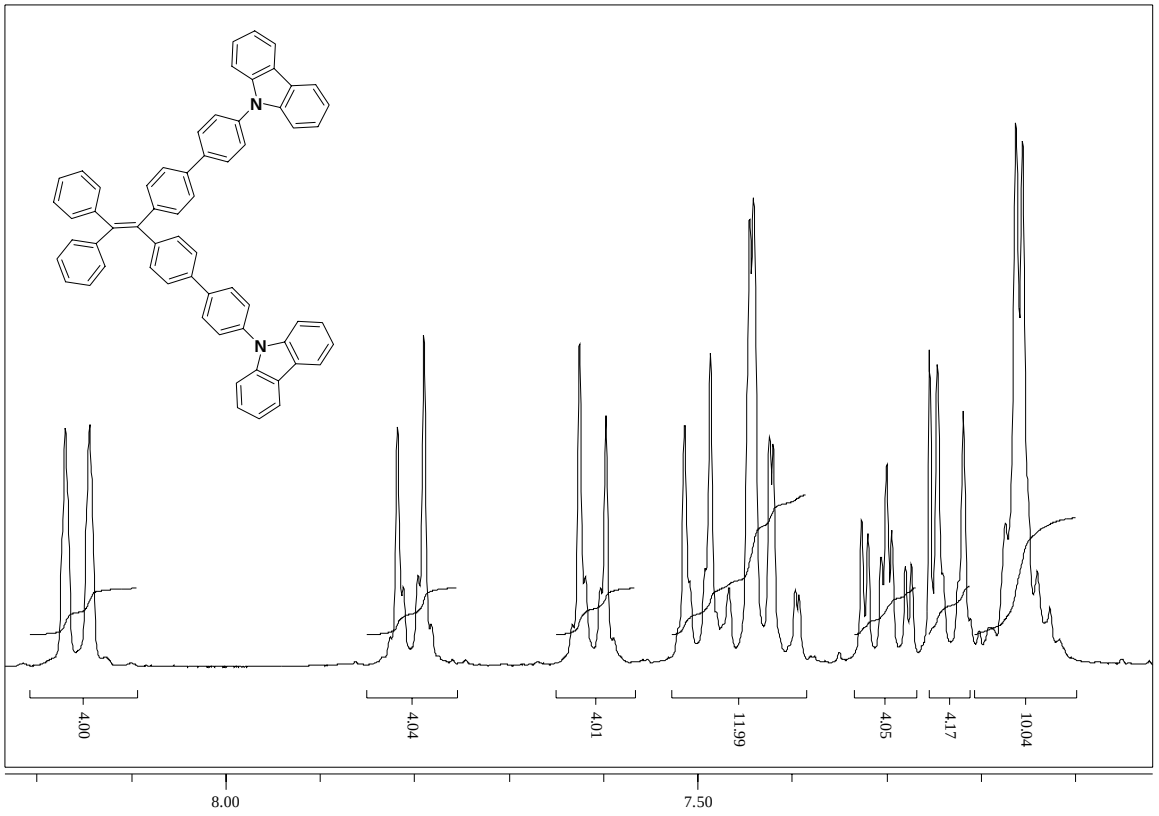

Fig. S9. ^{1}H-NMR spectrum of 2PCz-TPE.

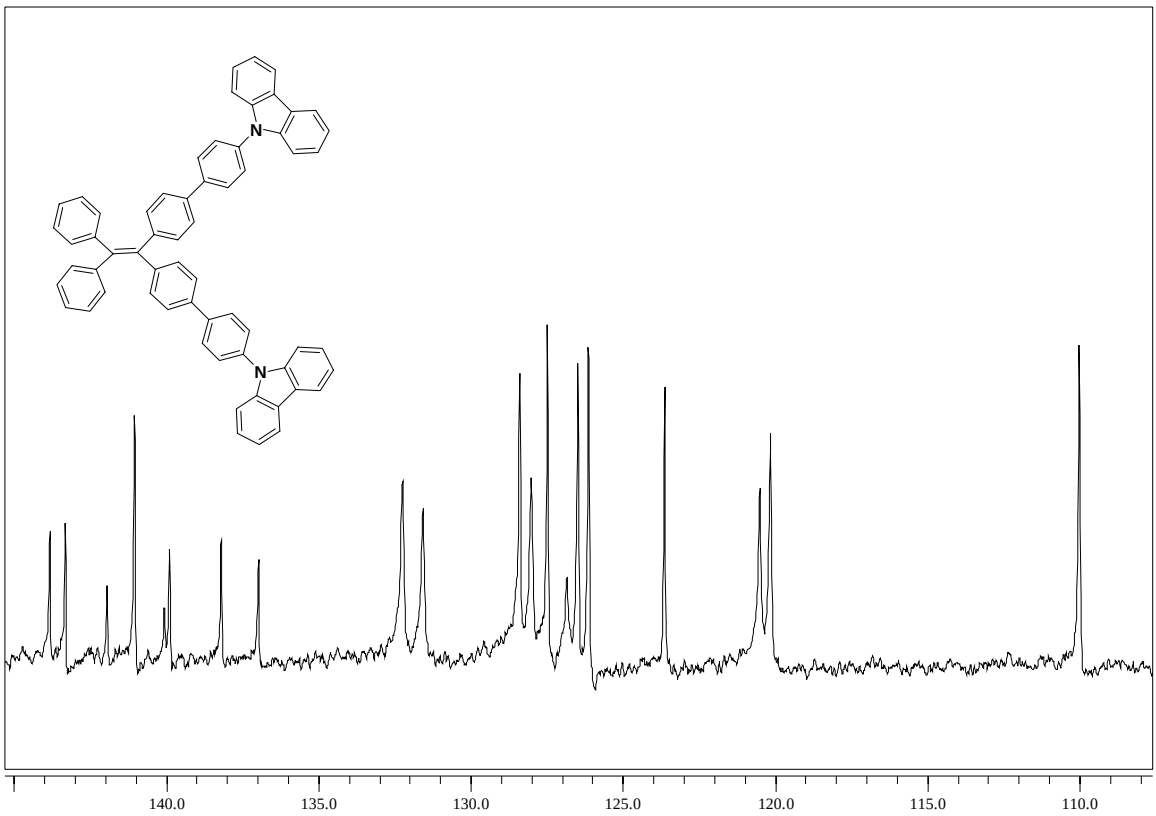

Fig. S10. ^{13}C-NMR spectrum of 2PCz-TPE.

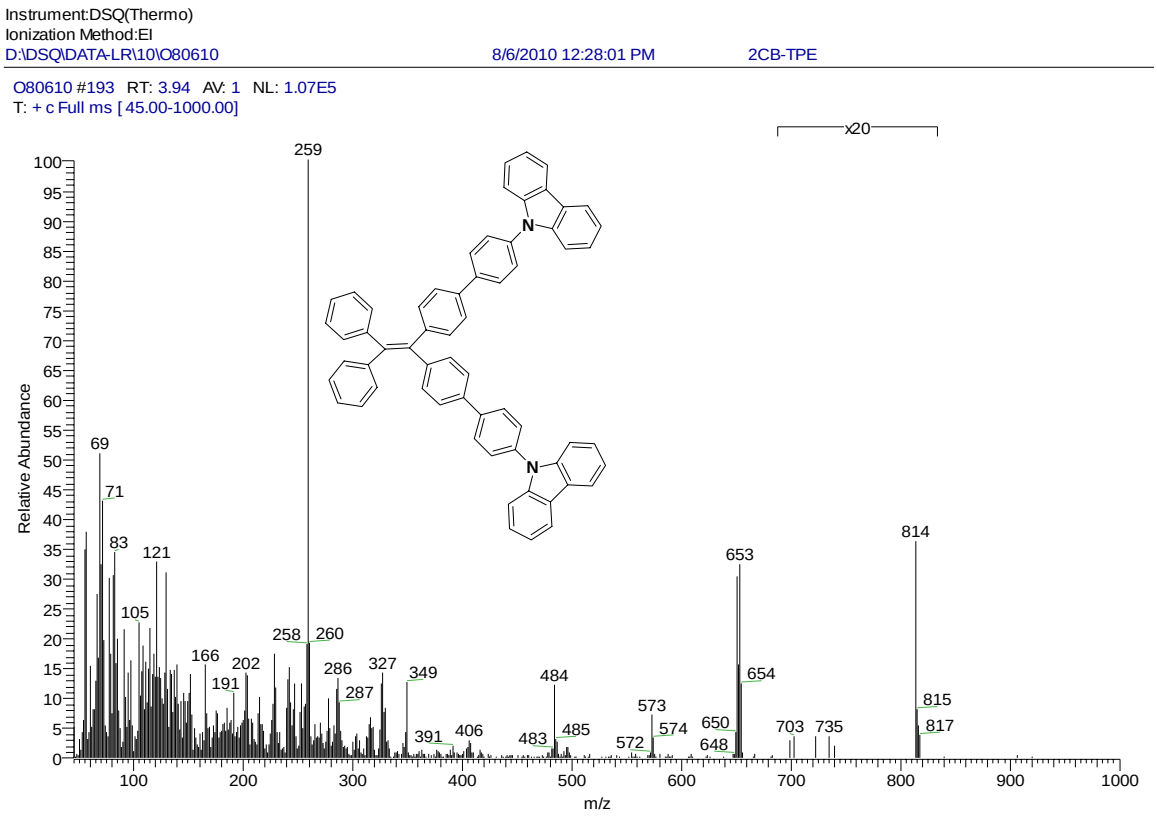

Fig. S11. MS spectrum of 2PCz-TPE.