

## *Supporting Information*

### **Iridium-based Emitters Containing Pendant Triphenylene Moieties for Blue Green OLEDs with Improved Efficiency upon Thermal Annealing**

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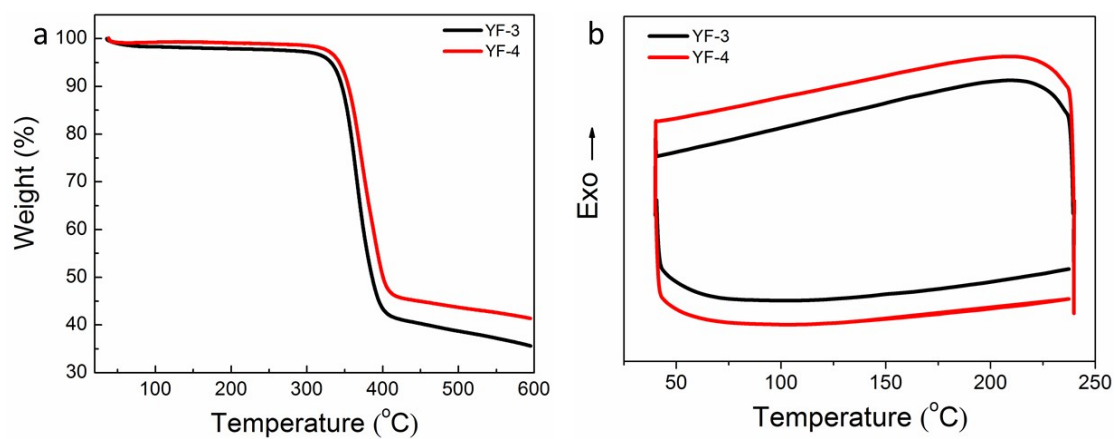
**Figure S3.** Figure PL profiles of YF-3 measured before and after annealing

**Figure S4.** CV curves of YF3 and YF4 measured in CH<sub>2</sub>Cl<sub>2</sub> with a scan rate of 100 mV/s

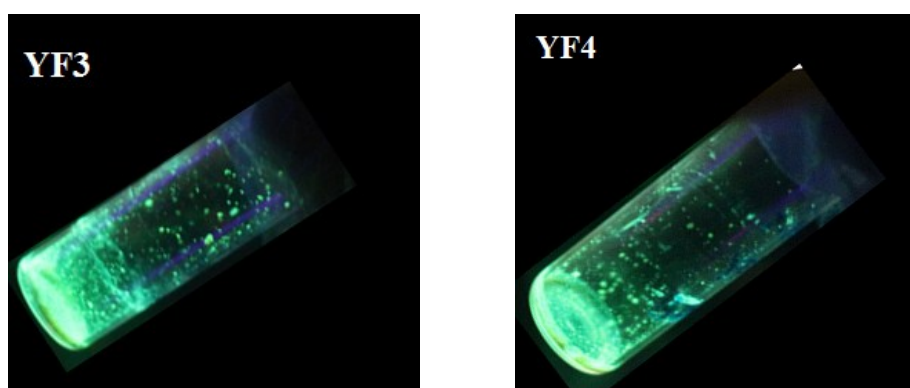
**Figure S5.** EQE-Current density curves of YF3 and YF4-based devices recorded at 10 V

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***NMR spectra***



**Figure S1.** TGA curves (a) and DSC curves (b) of iridium complexes



**Figure S2.** Luminescent images of YF3 and YF4 under UV light with 365 nm excitation

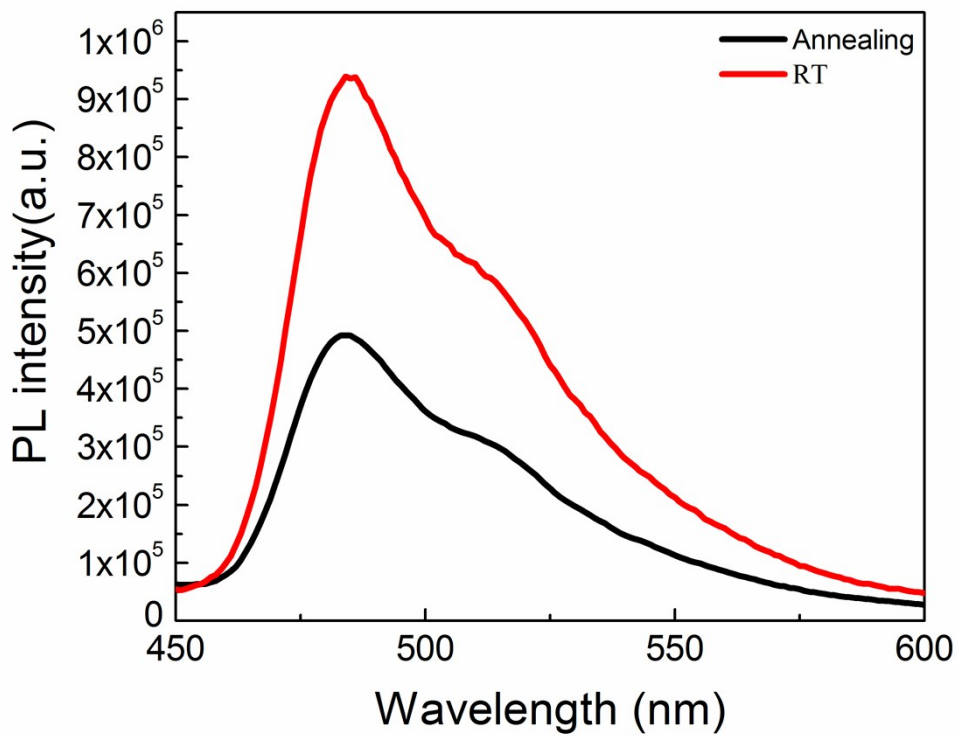
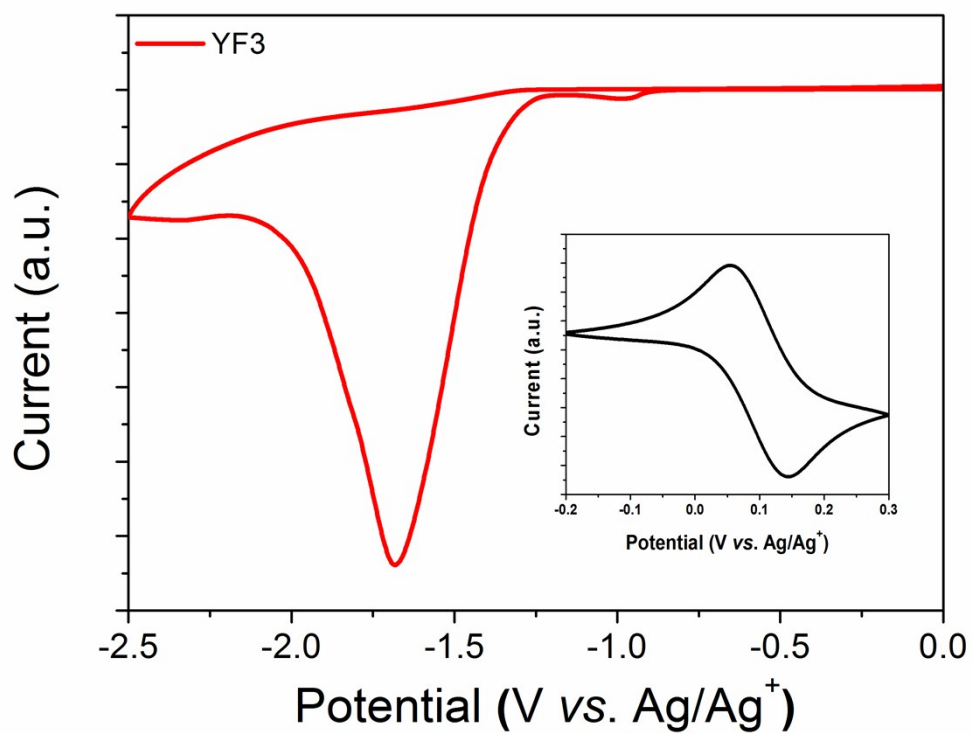
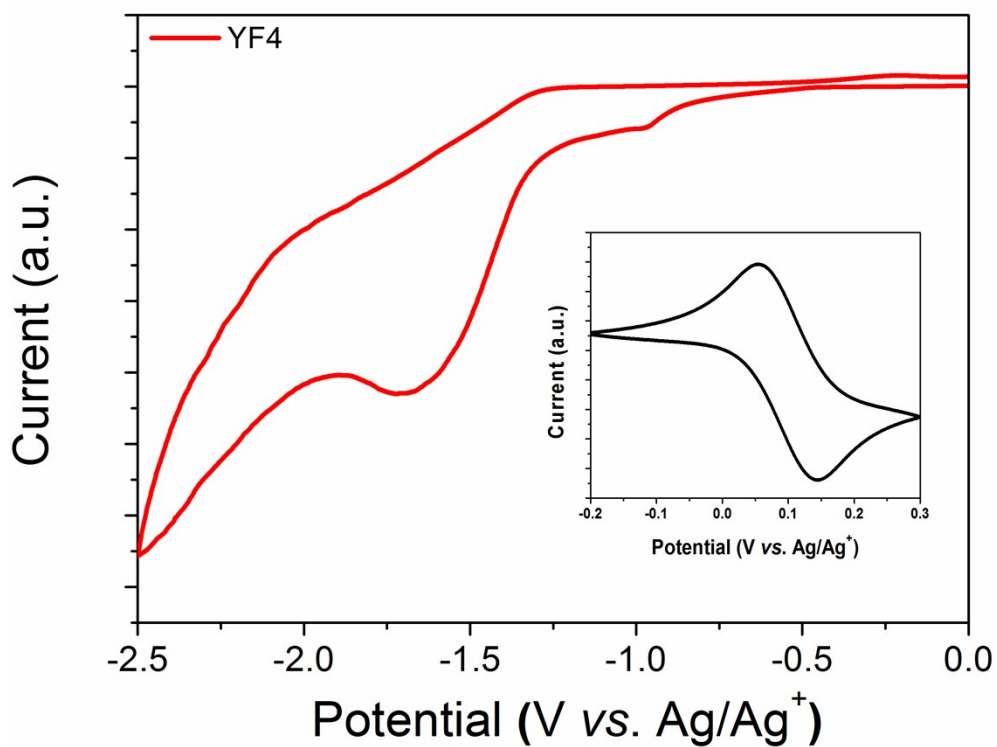
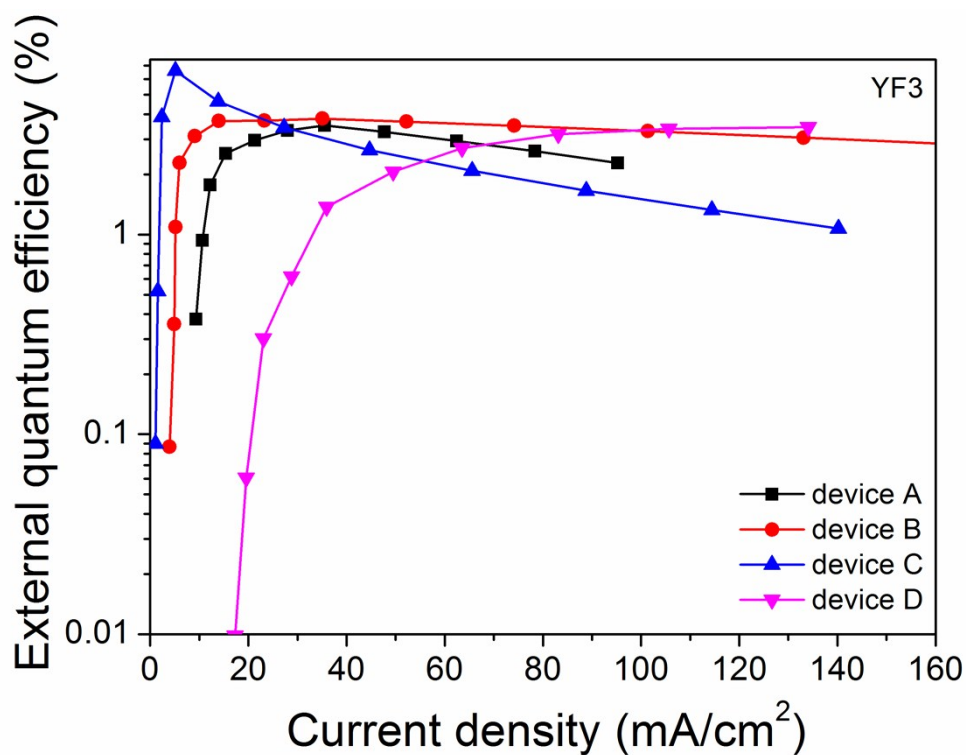


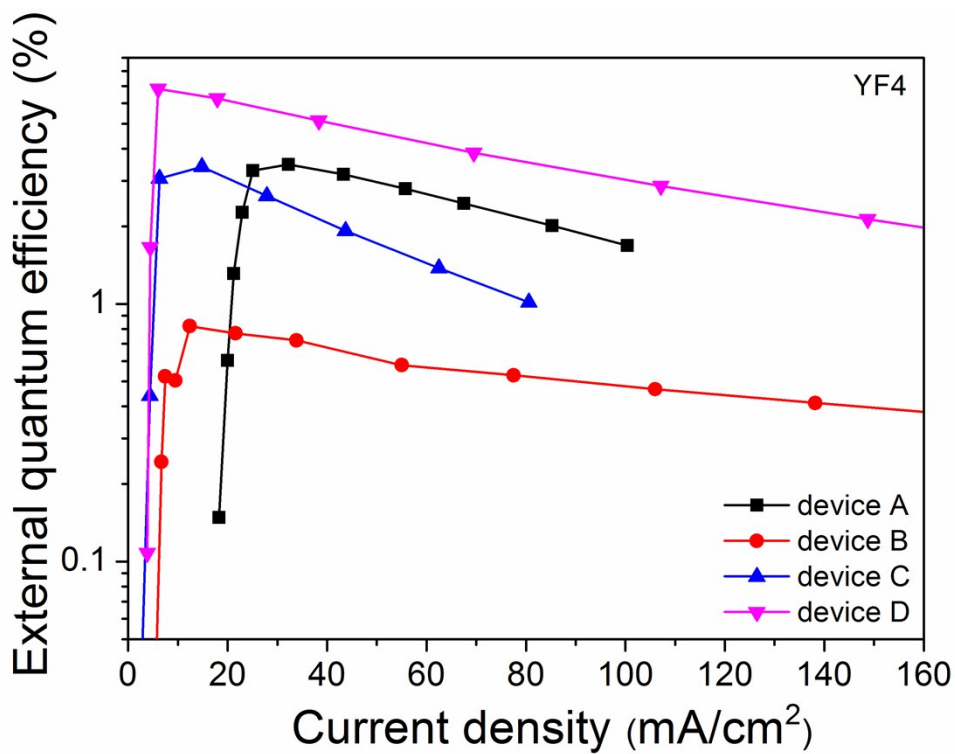
Figure S3. Figure PL profiles of YF-3 measured before and after annealing



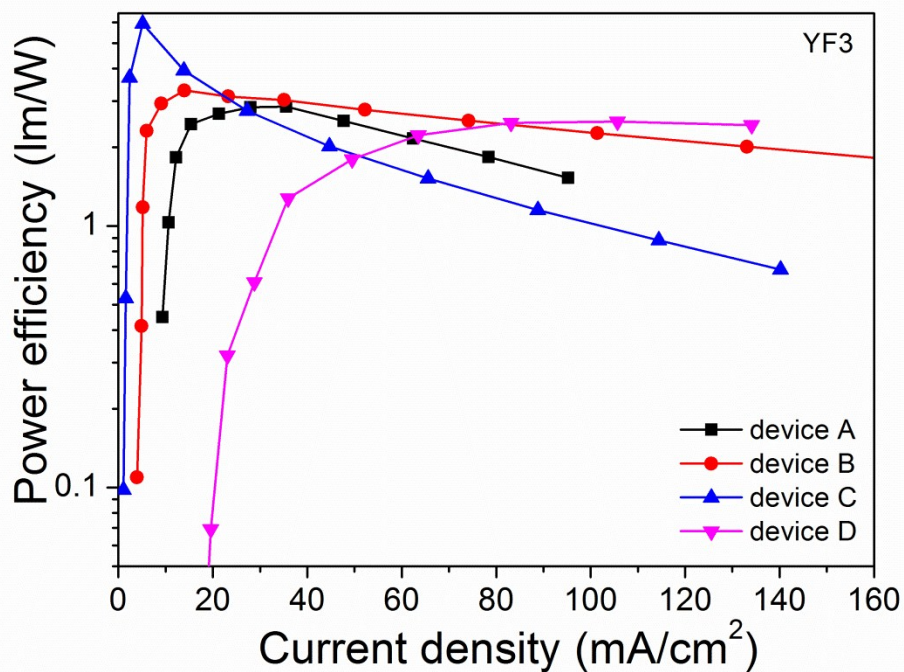


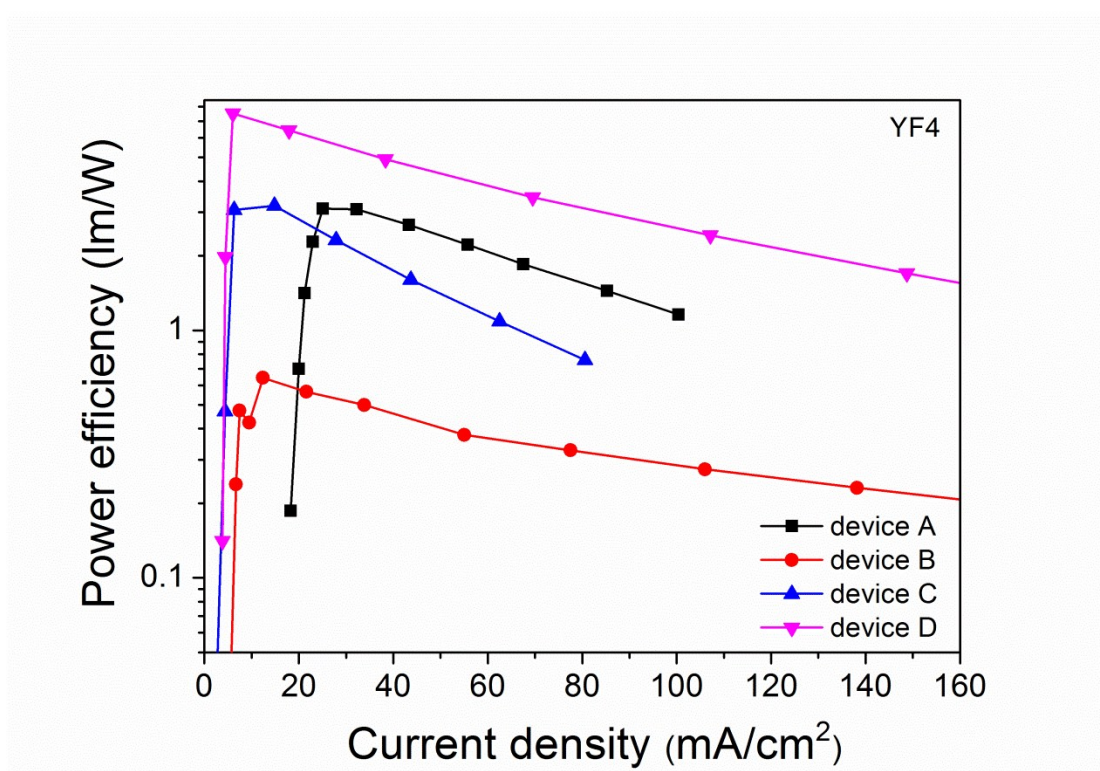
**Figure S4.** CV curves of YF3 and YF4 measured in  $\text{CH}_2\text{Cl}_2$  with a scan rate of 100 mV/s (inset: Fc/Fc<sup>+</sup> curve)





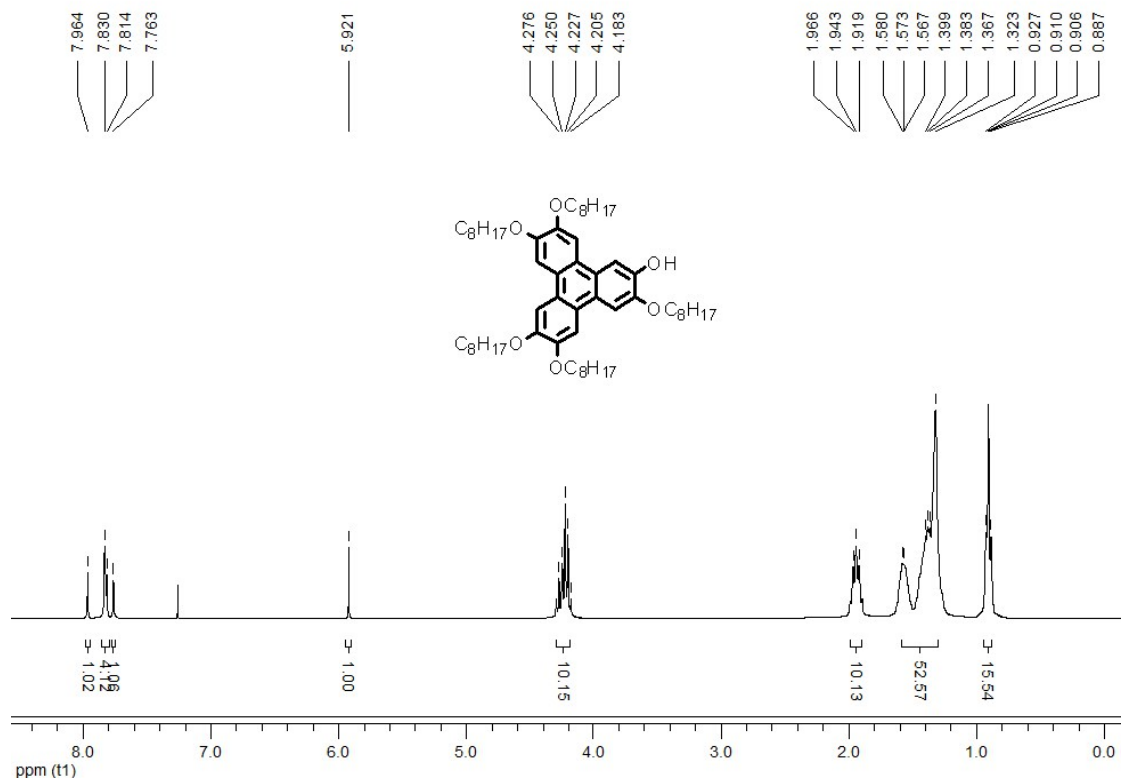
**Figure S5.** EQE-Current density curves of YF3 and YF4-based devices recorded at 10 V



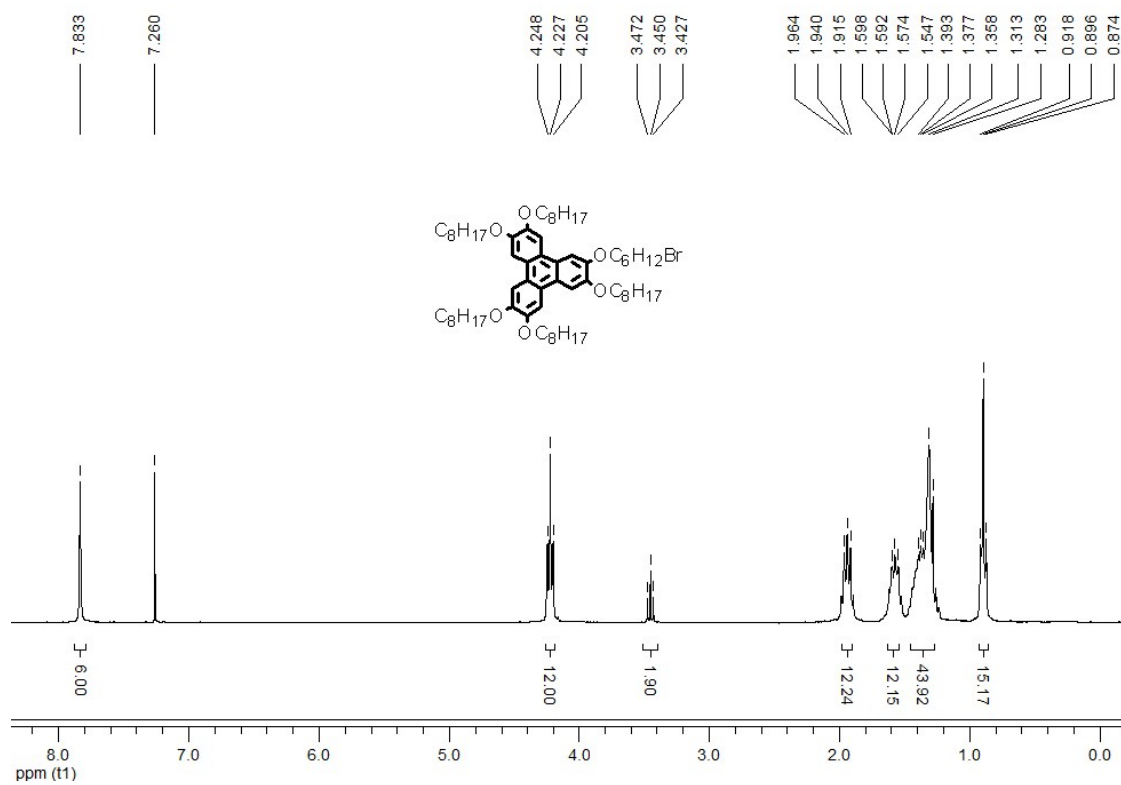


**Figure S6.** Power efficiency-Current density curves of YF3 and YF4-based devices recorded at 10 V

## NMR spectra

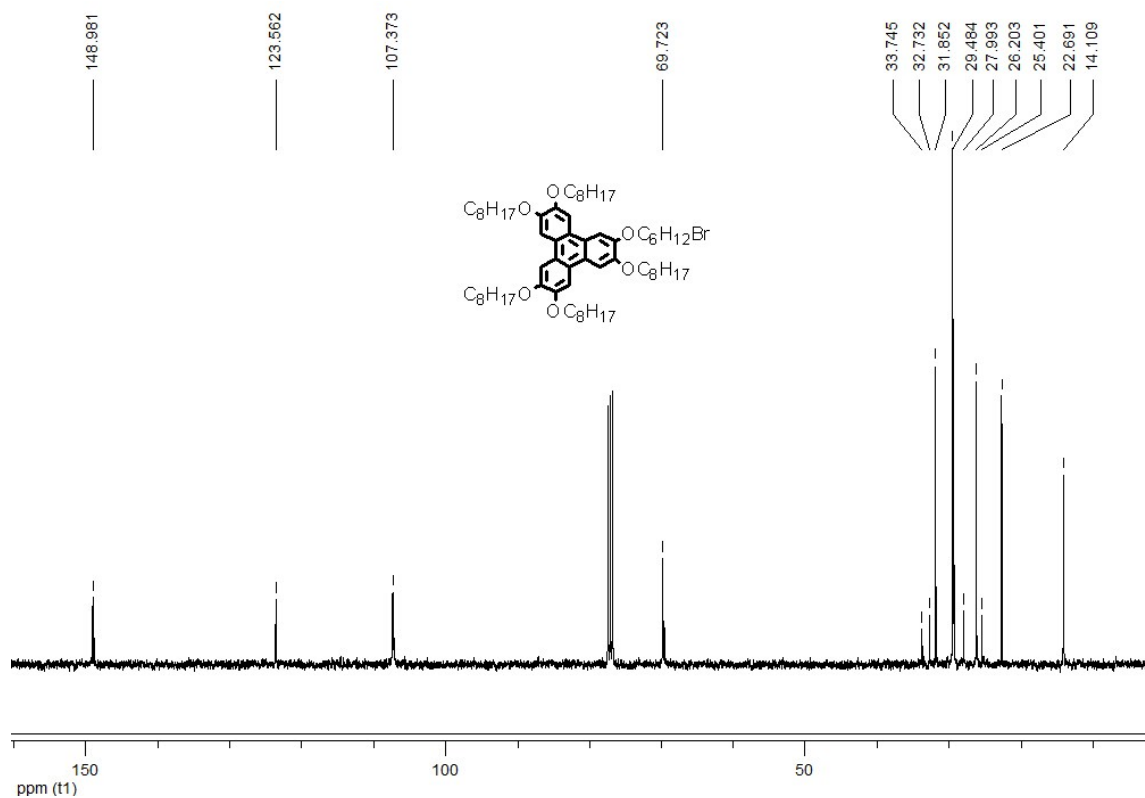


**<sup>1</sup>H NMR spectrum of compound 2**

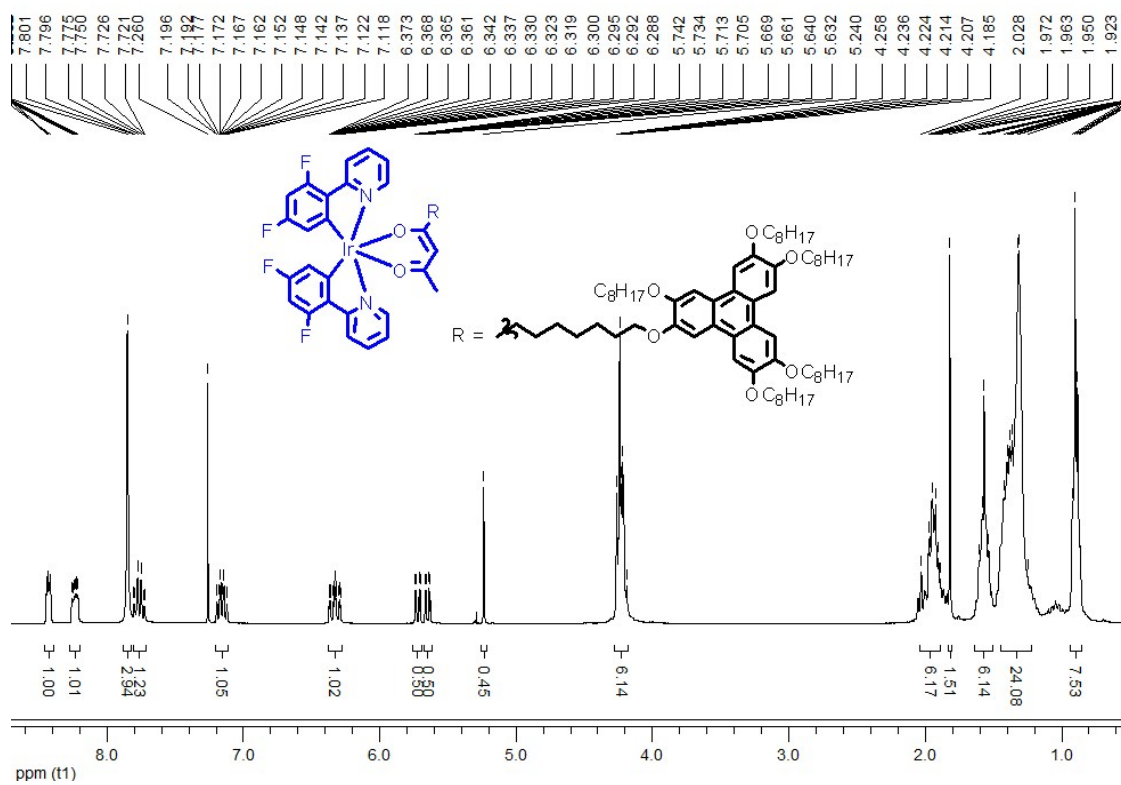


**<sup>1</sup>H NMR spectrum of compound 3**



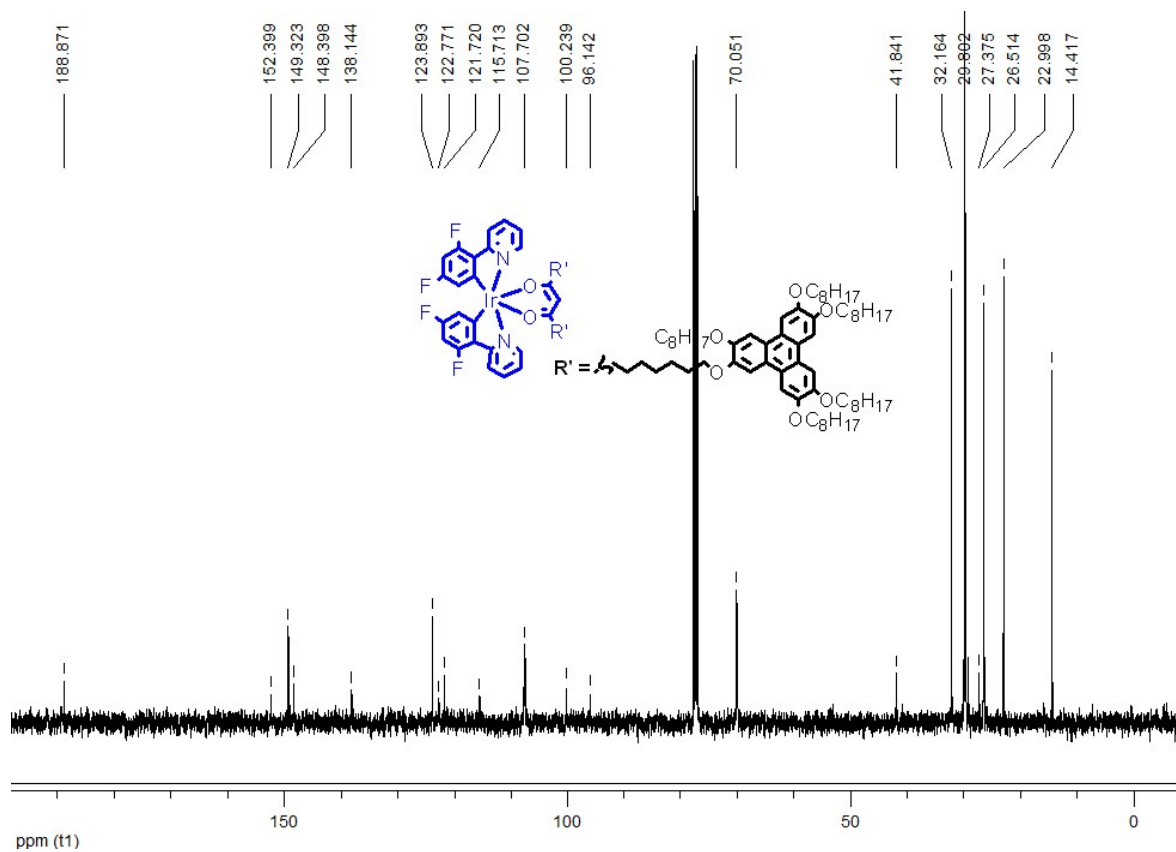


<sup>13</sup>C NMR spectrum of compound **3**



<sup>1</sup>H NMR spectrum of compound **YF3**





<sup>13</sup>C NMR spectrum of compound **IrYF4**