Supporting Information for

Achieving highly efficient blue light-emitting polymers by incorporating a styrylarylene amine unit

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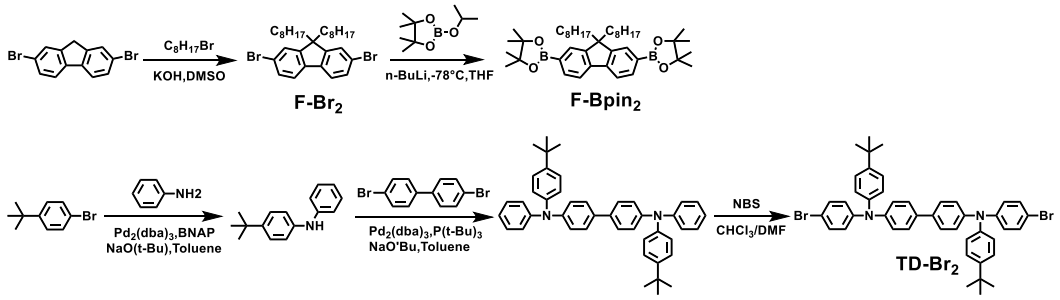

Scheme S1. Chemical structures and synthetic routes of the monomers.

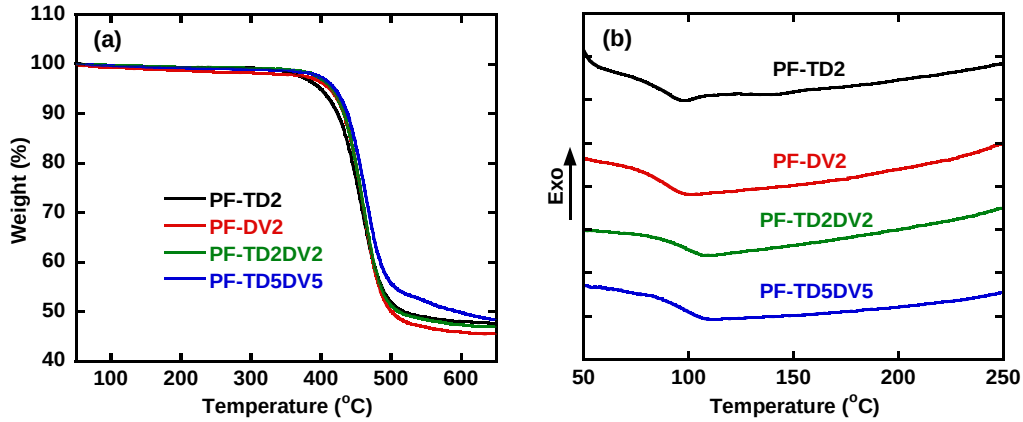

Fig. S1 TGA (a) and DSC (b) curves of the polymers.

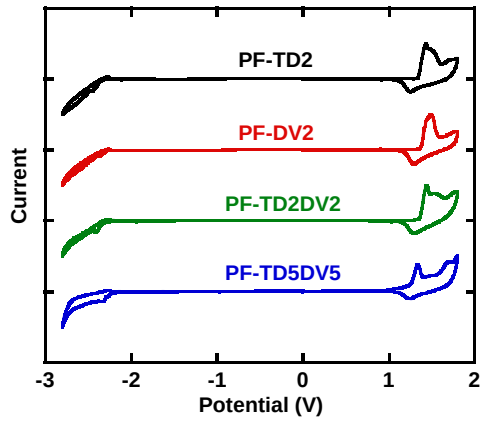

Fig. S2 Cyclic voltammetry curves of polymers (vs. SCE).

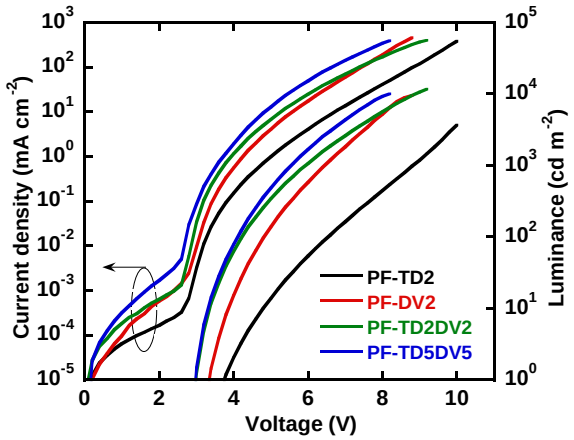

Fig. S3 *J–V–L* curves of single-layer devices.

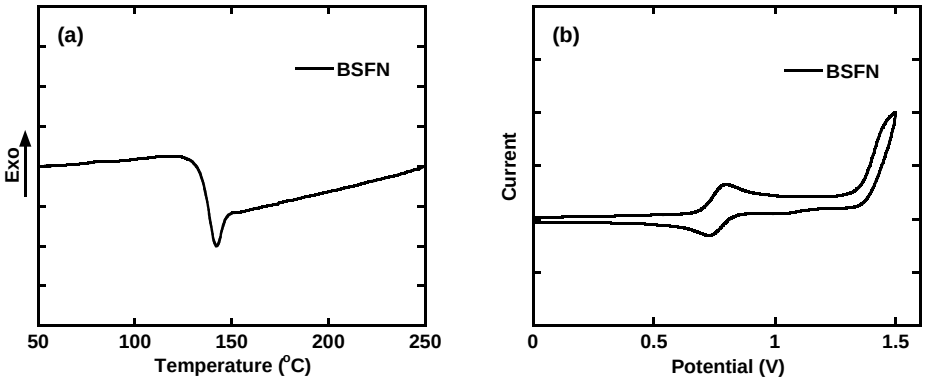

Fig. S4 DSC (a) and CV curves (vs. SCE) (b) of BSFN.

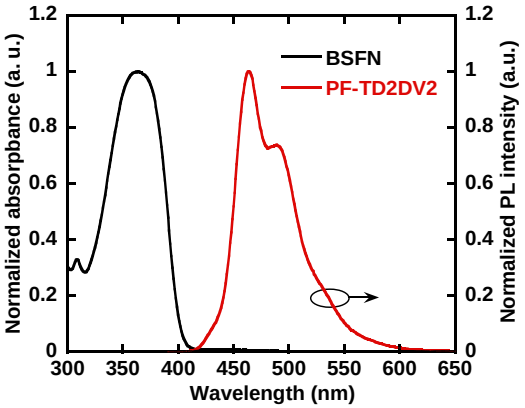

Fig. S5 Overlap between UV-vis absorption spectrum of BSFN and PL spectrum of PF-TD2DV2 in film.

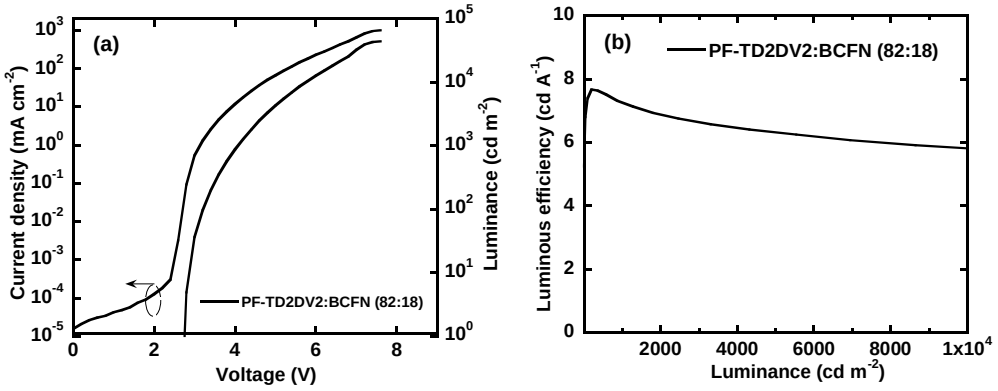

Fig. S6 *J–V–L* curve (a) and *LE–L* curve (b) of PF-TD2DV2:BCFN (82:18) based double-layer device.

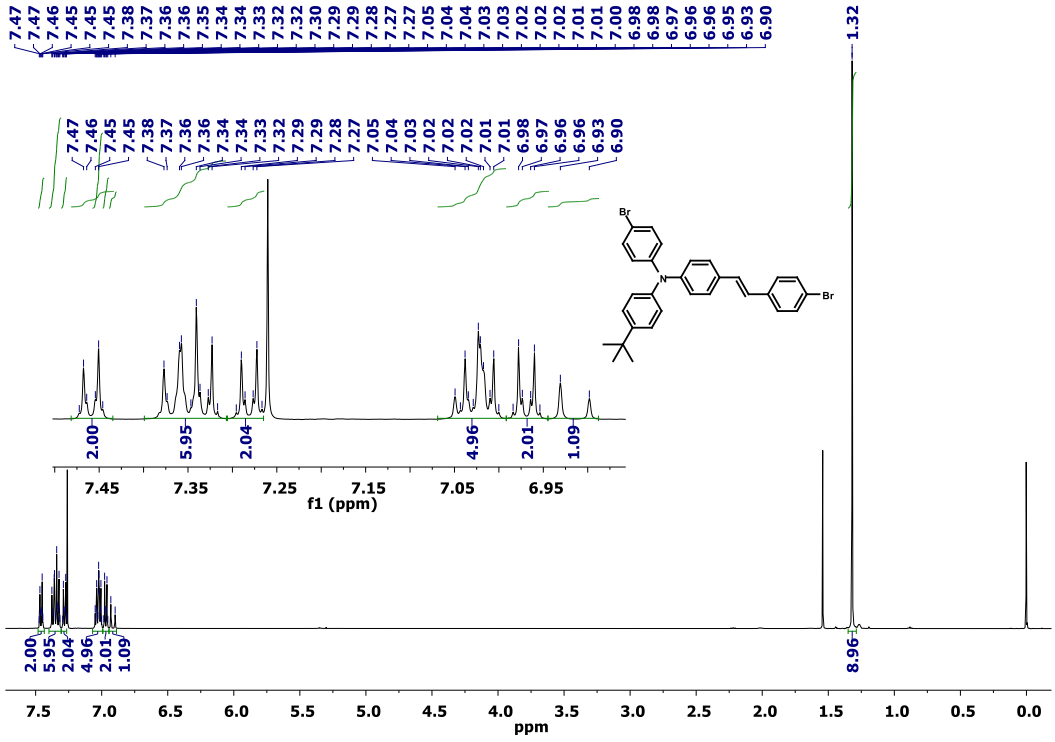

Fig. S7 ^{1}H NMR spectrum of DV-Br.

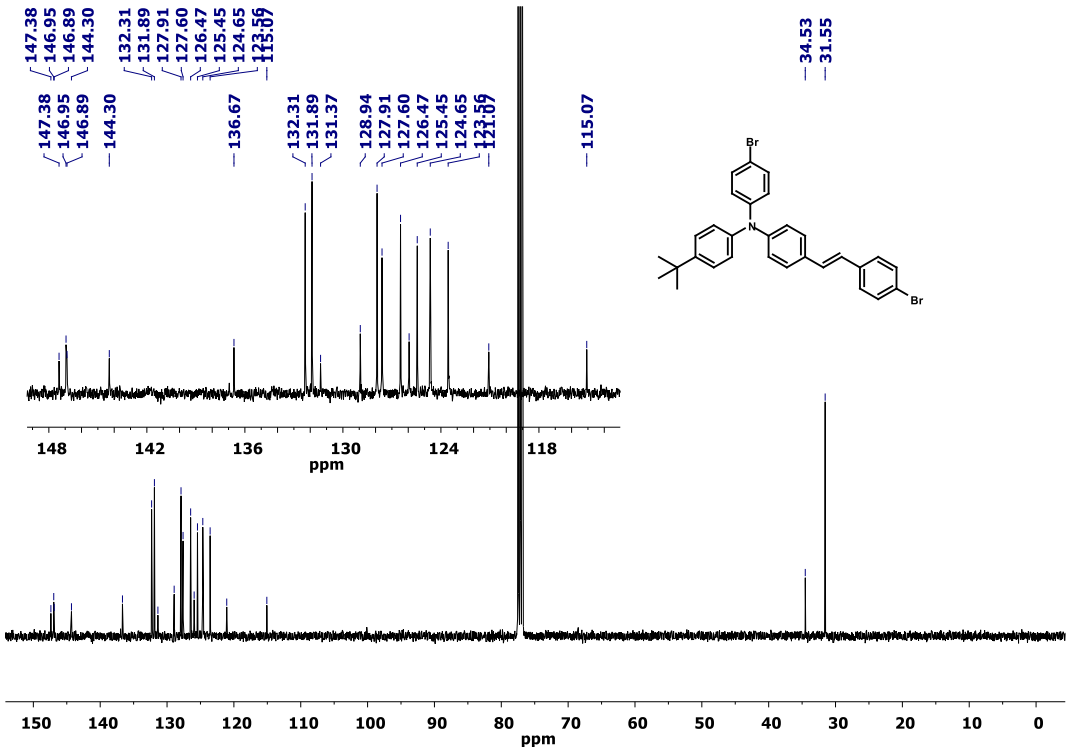

Fig. S8 ^{13}C NMR spectrum of DV-Br.

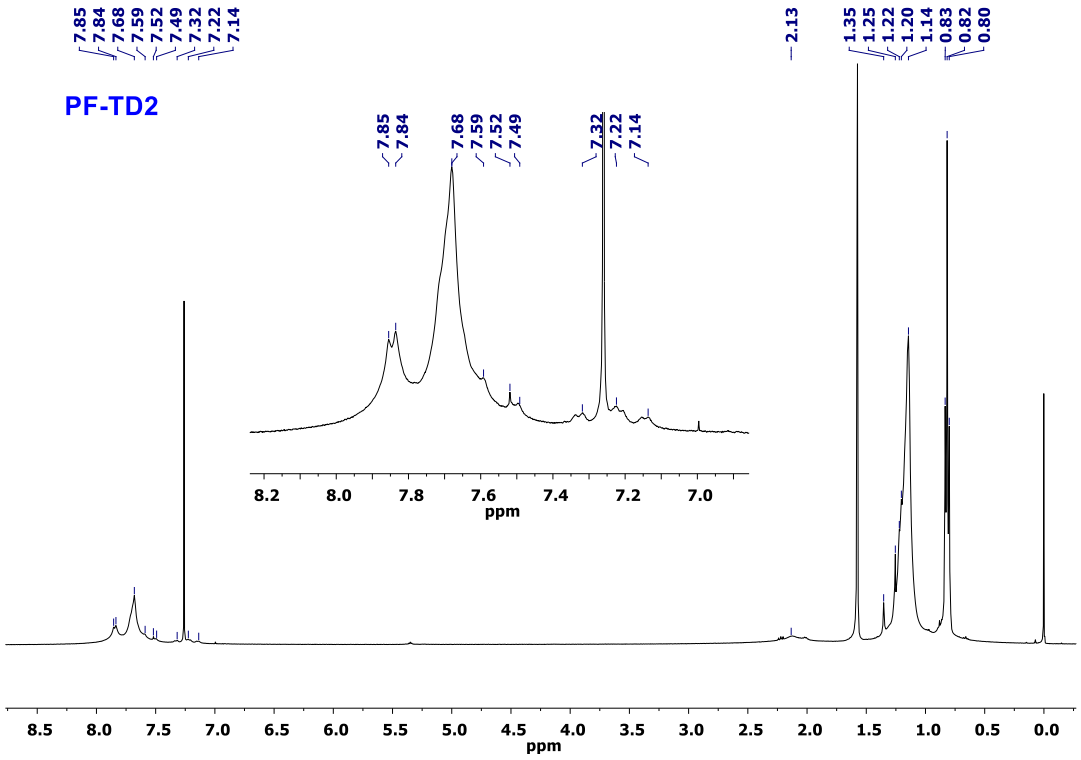

Fig. S9 ^{1}H NMR spectrum of PF-TD2.

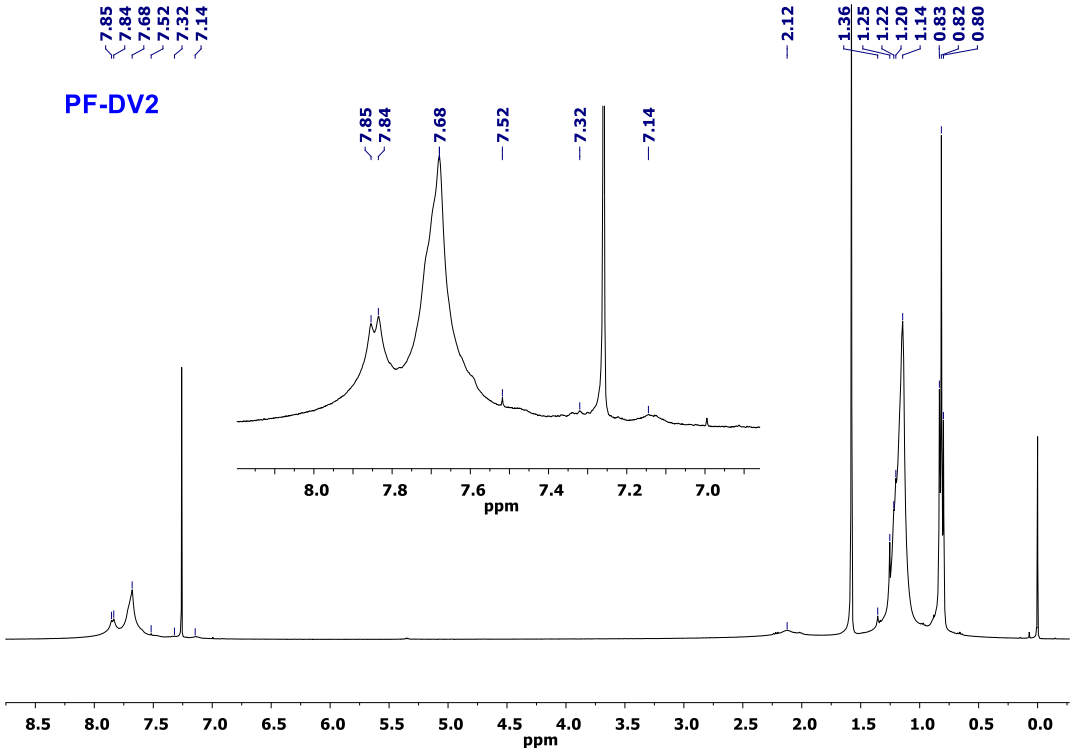

Fig. S10 ^{1}H NMR spectrum of PF-DV2.

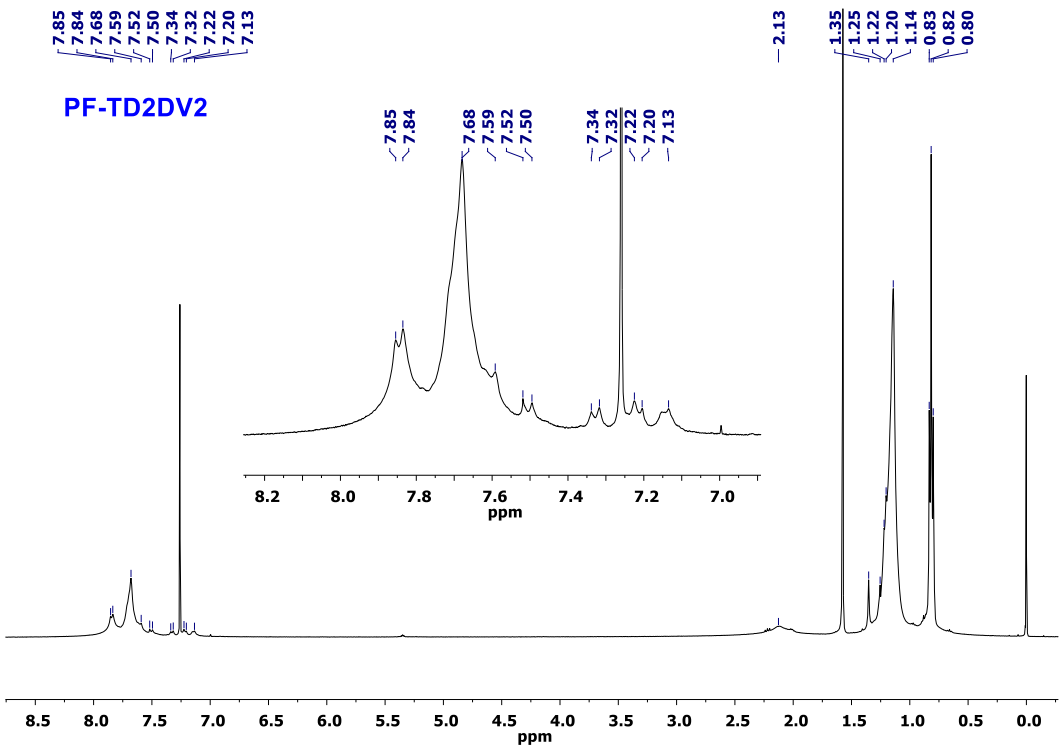

Fig. S11 ^{1}H NMR spectrum of PF-TD2DV2.

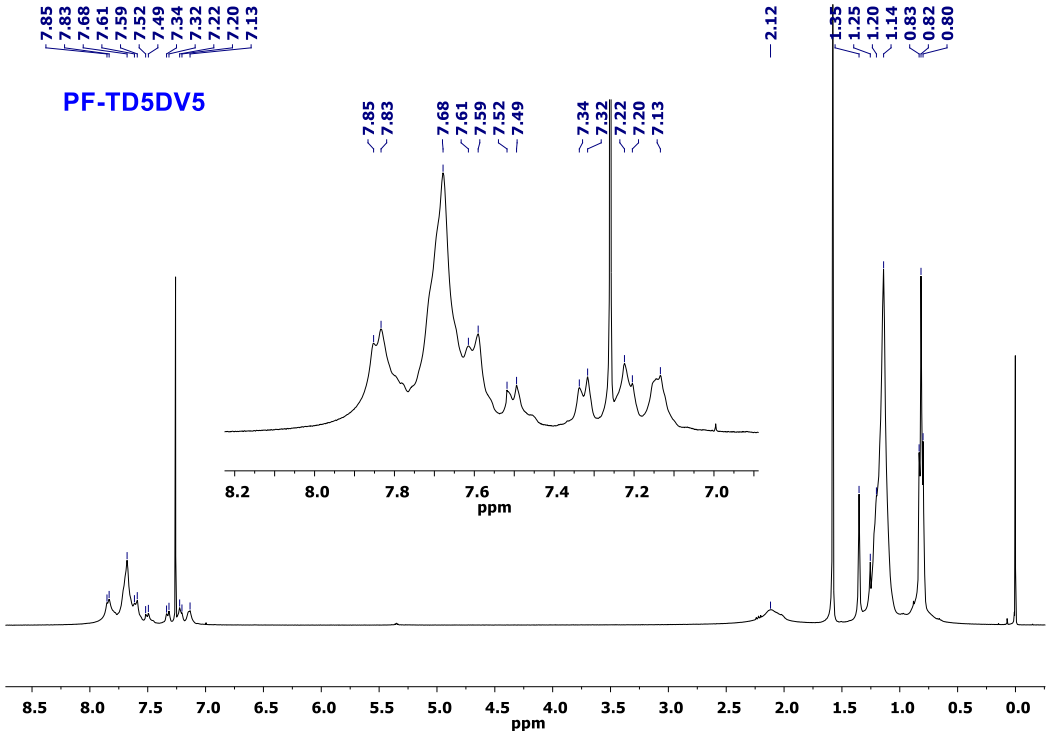

Fig. S12 ^{1}H NMR spectrum of PF-TD5DV5.