

Supporting Information

Triple Bond Side-Chained 2D-Conjugated Benzodithiophene based Photovoltaic Polymer

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Table of Contents

Fig. S1 ¹H NMR of 1-bromo-3,5-bis(octyloxy)phenyl (M2)

Fig. S2 ¹H NMR of 1-(trimethylsilyl)ethynyl-3,5-bis(octyloxy)phenyl (M3)

Fig. S3 ¹H NMR of 1-ethynyl-3,5-bis(octyloxy)phenyl (M4)

Fig. S4 ¹H NMR of 4,8-bis(1-ethynyl-3,5-bis(octyloxy)phenyl)-benzo[1,2-b:4,5-b']dithiophene (M5)

Fig. S5 ¹H NMR of 2,6-bis(trimethyltin-4,8-bis(1-ethynyl-3,5-bis(octyloxy)phenyl)-benzo[1,2-b:4,5-b']dithiophene (M6)

Fig. S6 ¹³C NMR of 2,6-bis(trimethyltin-4,8-bis(1-ethynyl-3,5-bis(octyloxy)phenyl)-benzo[1,2-b:4,5-b']dithiophene (M6)

Fig. S7 ¹H NMR of PBDTPA-TPD

Fig. S8 ¹H NMR of PBDTPA-TT

Fig. S9 ¹H NMR of PBDTPA-DPP(OD)

Fig. S10 *J-V* curves of OSCs based on PBDTPA-DPP(OD) and PC₆₁BM with different blend ratios (1:1, 1:1.5, 1:2 and 1:3, w/w)

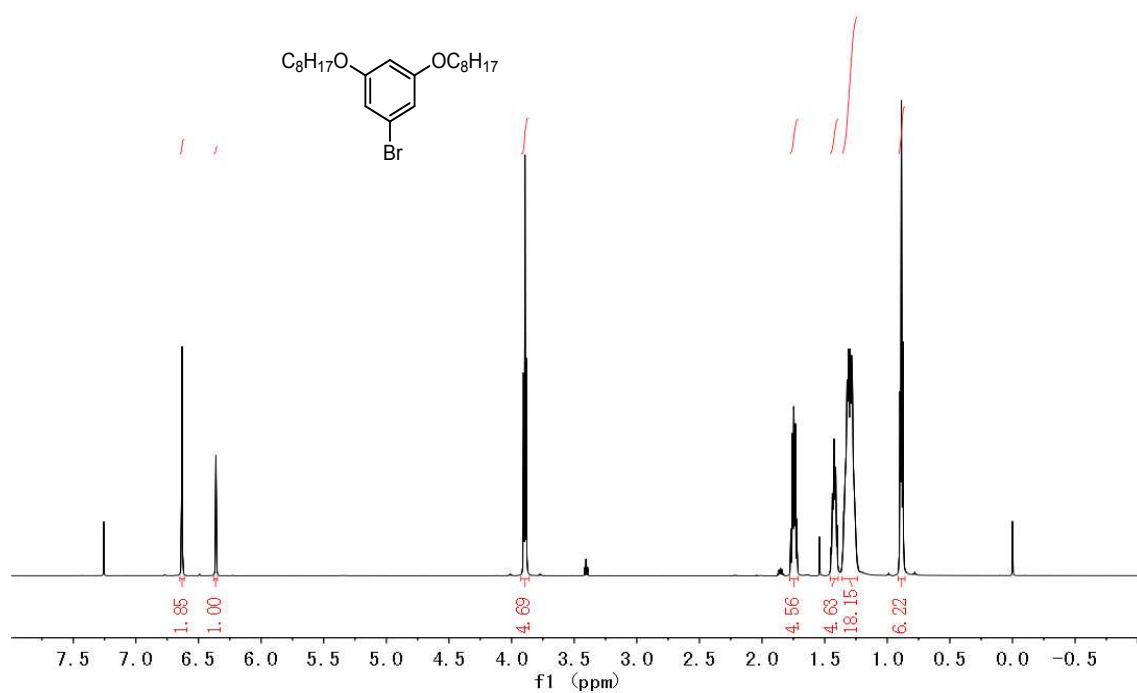


Fig. S1 ¹H NMR of 1-bromo-3,5-bis(octyloxy)phenyl (M2)

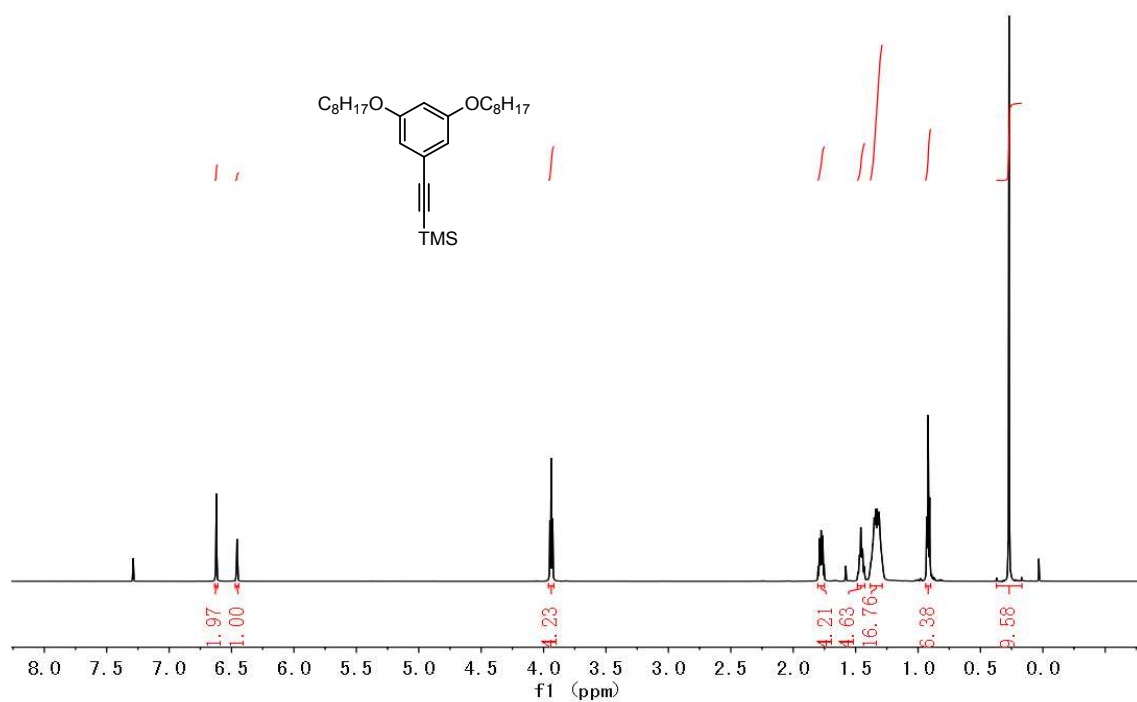


Fig. S2 ¹H NMR of 1-(trimethylsilyl)ethynyl-3,5-bis(octyloxy)phenyl (M3)

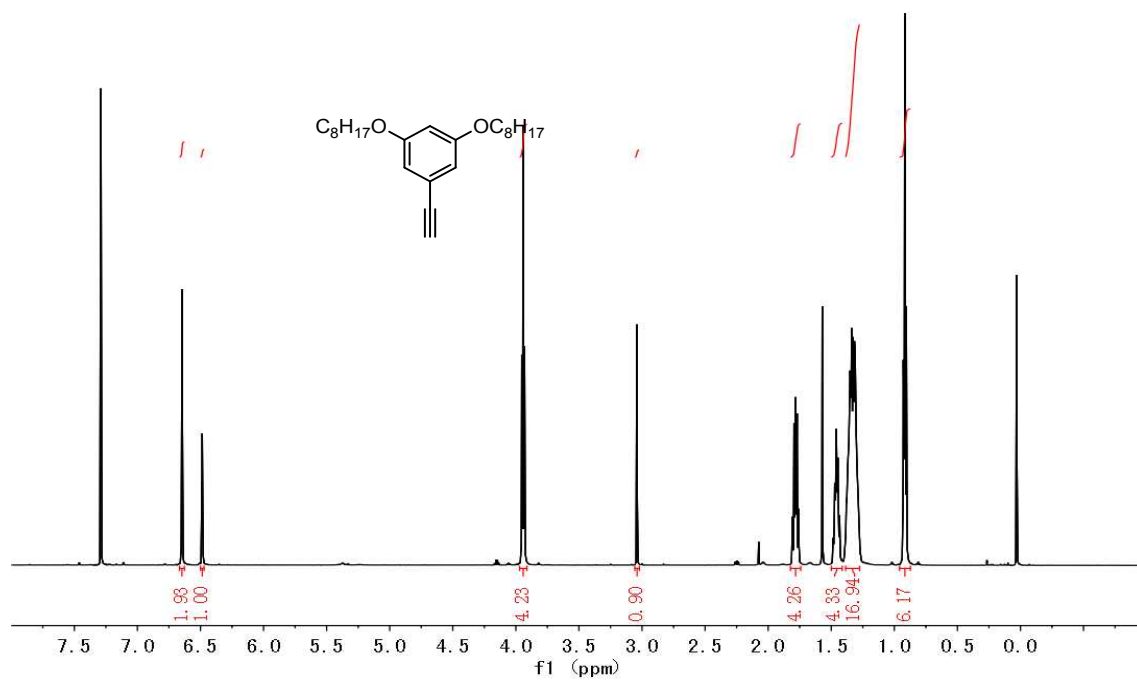


Fig. S3 ¹H NMR of 1-ethynyl-3,5-bis(octyloxy)phenyl (M4)

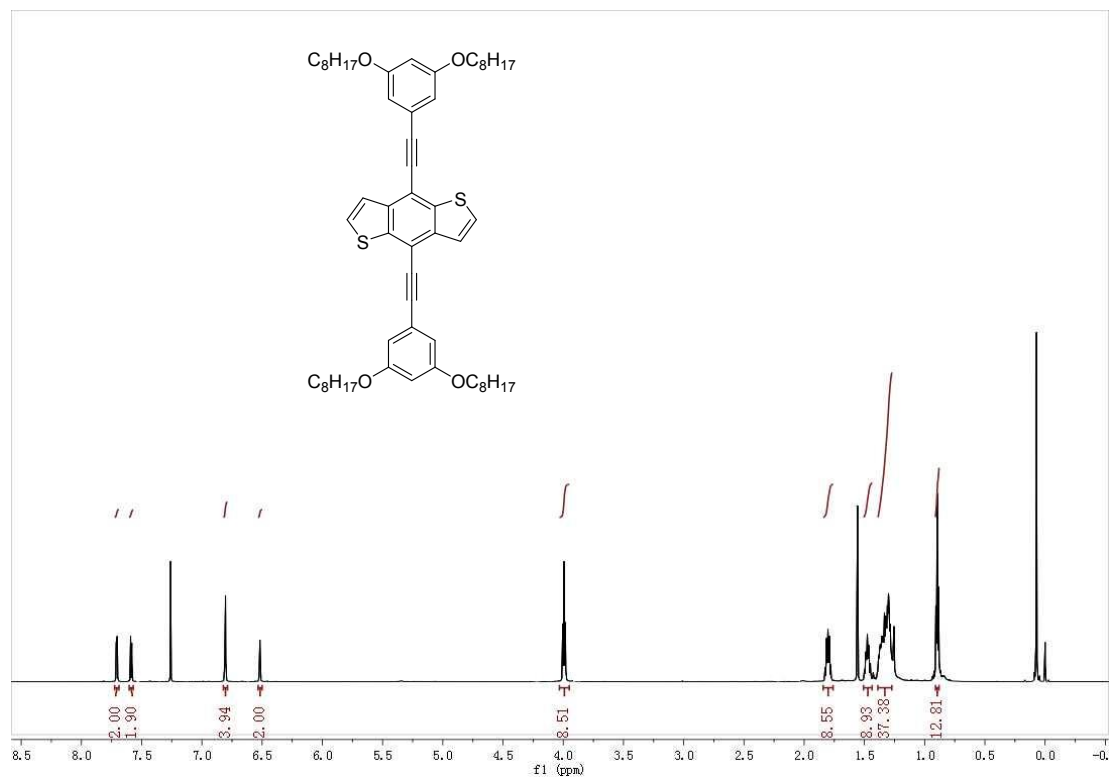


Fig. S4 ¹H NMR of 4,8-bis(1-ethynyl-3,5-bis(octyloxy)phenyl)-benzo[1,2-b:4,5-b']dithiophene (M5)

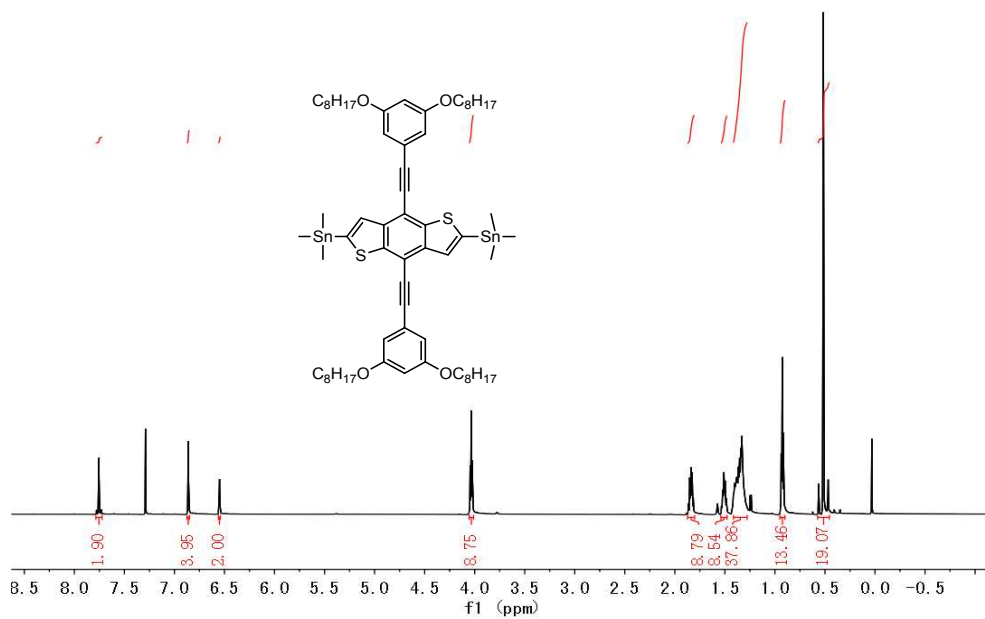


Fig. S5 ¹H NMR of 2,6-bis(trimethyltin-4,8-bis(1-ethynyl-3,5-bis(octyloxy)phenyl)-benzo[1,2-b:4,5-b']dithiophene (M6)

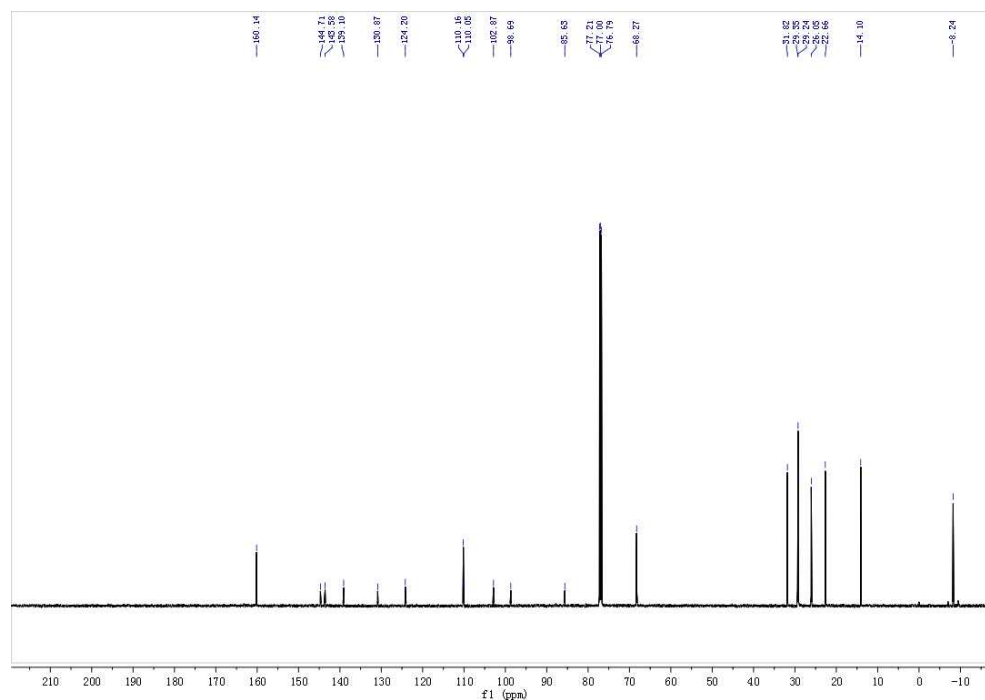


Fig. S6 ¹³C NMR of 2,6-bis(trimethyltin-4,8-bis(1-ethynyl-3,5-bis(octyloxy)phenyl)-benzo[1,2-b:4,5-b']dithiophene (M6)

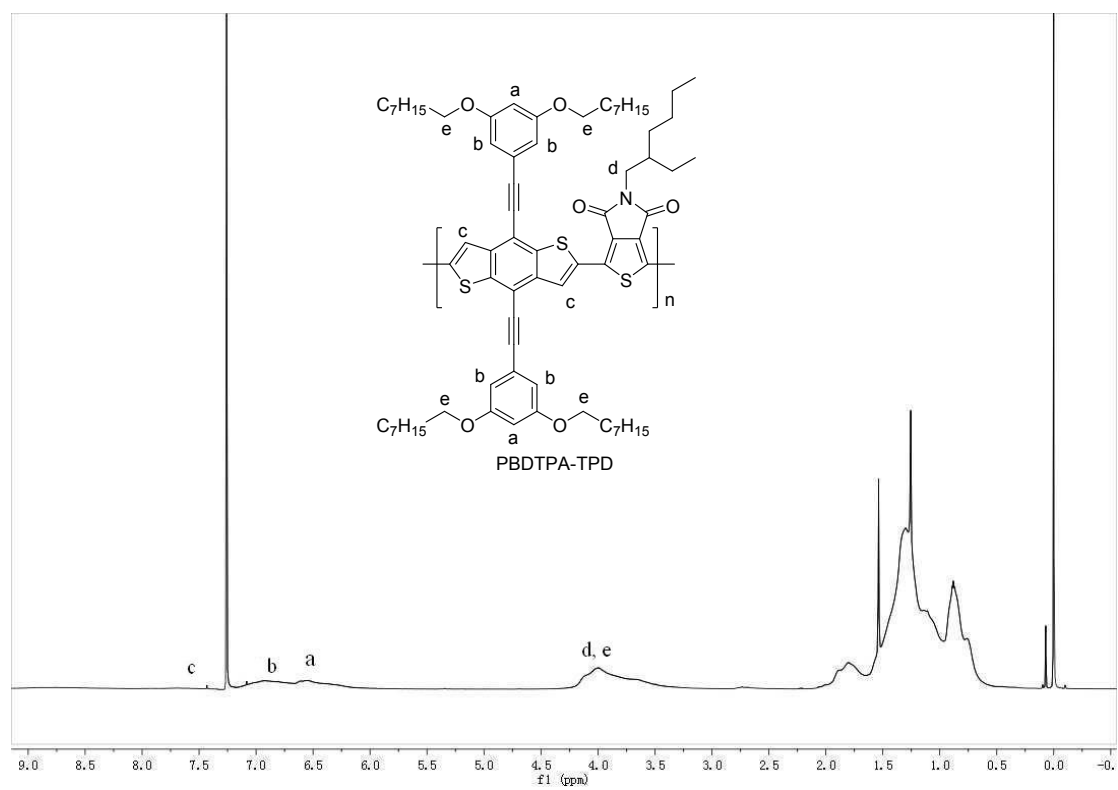


Fig. S7 ^1H NMR of PBDTPA-TPD

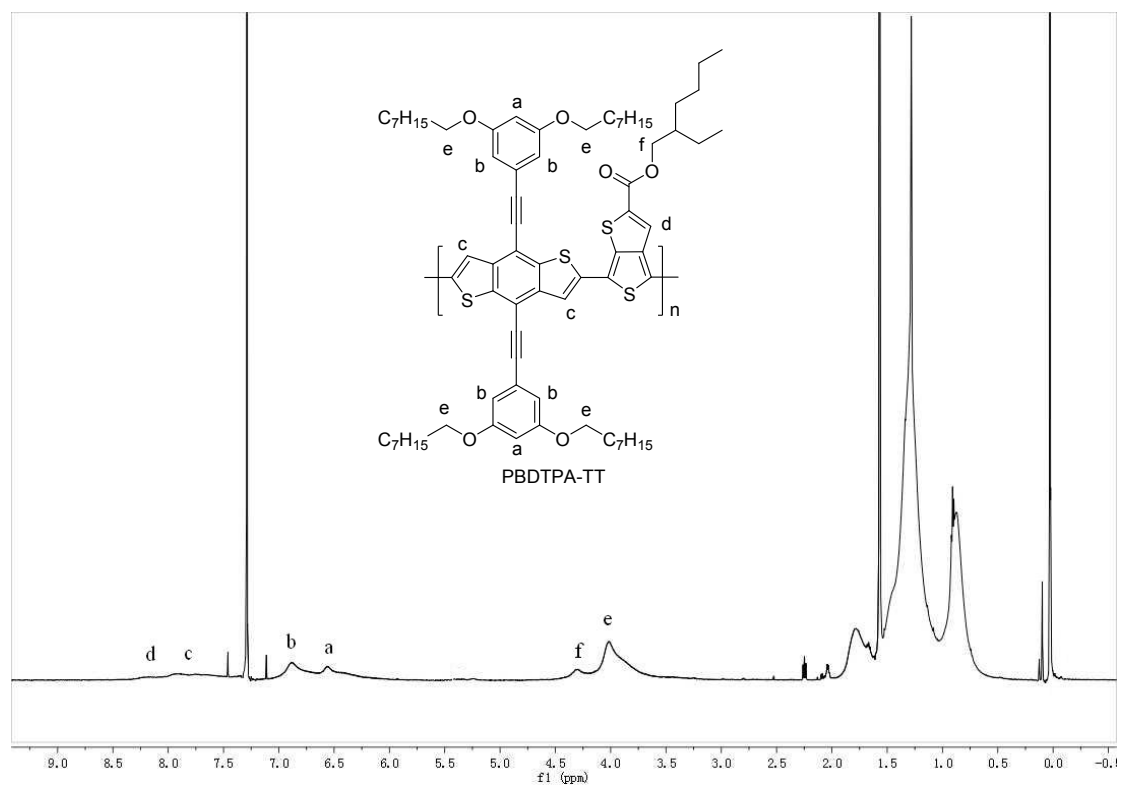


Fig. S8 ^1H NMR of PBDTPA-TT

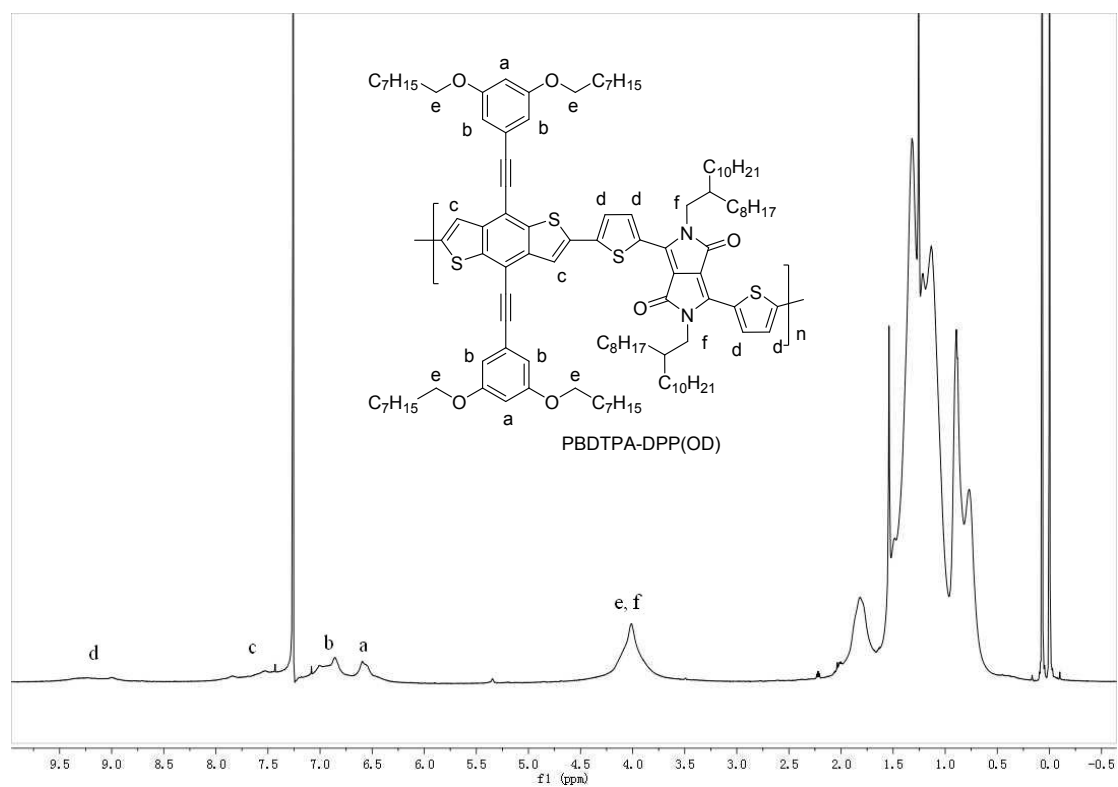


Fig. S9 ¹H NMR of PBDTPA-DPP(OD)

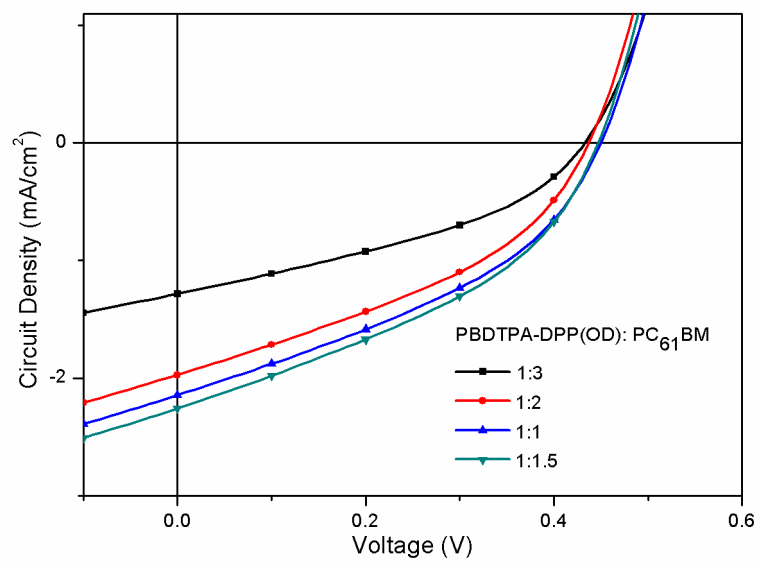


Fig. S10 J-V curves of OSCs based on PBDTPA-DPP(OD) and PC₆₁BM with different blend ratios (1:1, 1:1.5, 1:2 and 1:3, w/w)