

## Supplementary Materials

# Facile Synthesis of Triphenylamine Based Hyperbranched Polymer for Organic Field Effect Transistors

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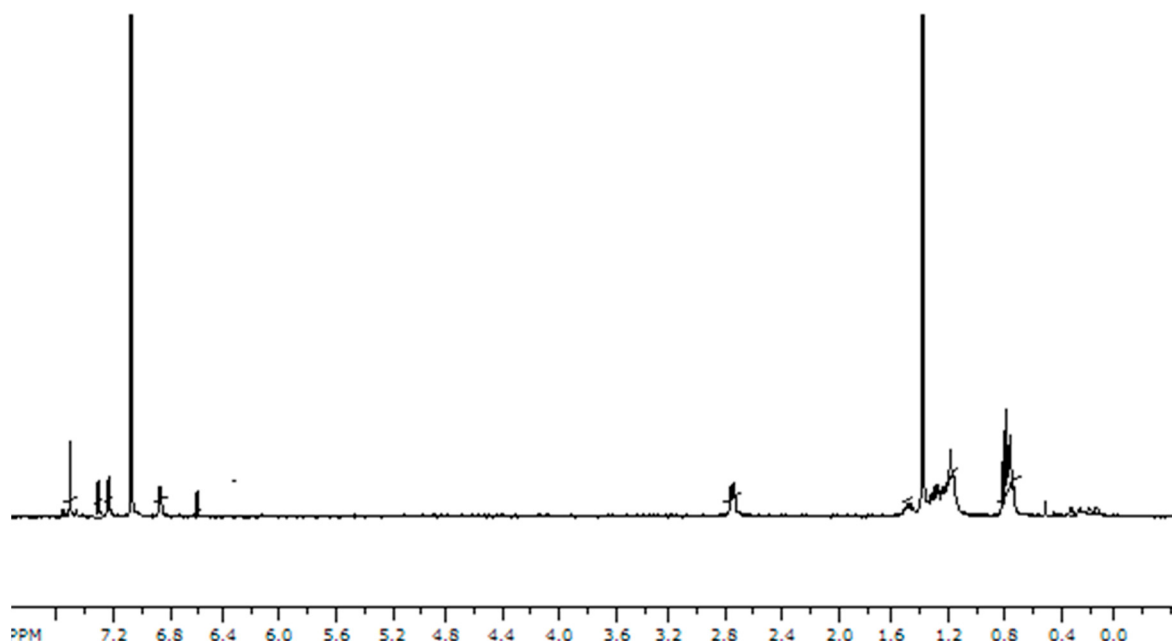


Figure S1. <sup>1</sup>H NMR of the polymer.

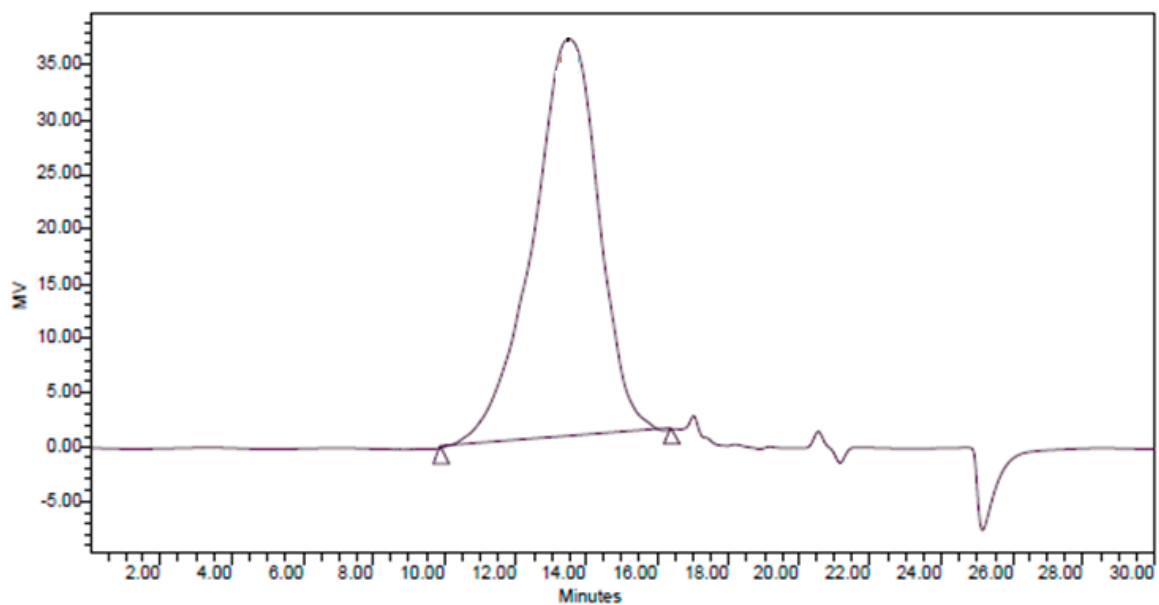


Figure S2. GPC analysis of the polymer.

Table S1. GPC analysis data of the polymer.

| Polymer | Mn    | Mw    | PDI  |
|---------|-------|-------|------|
| PTPABDT | 11805 | 22732 | 1.92 |

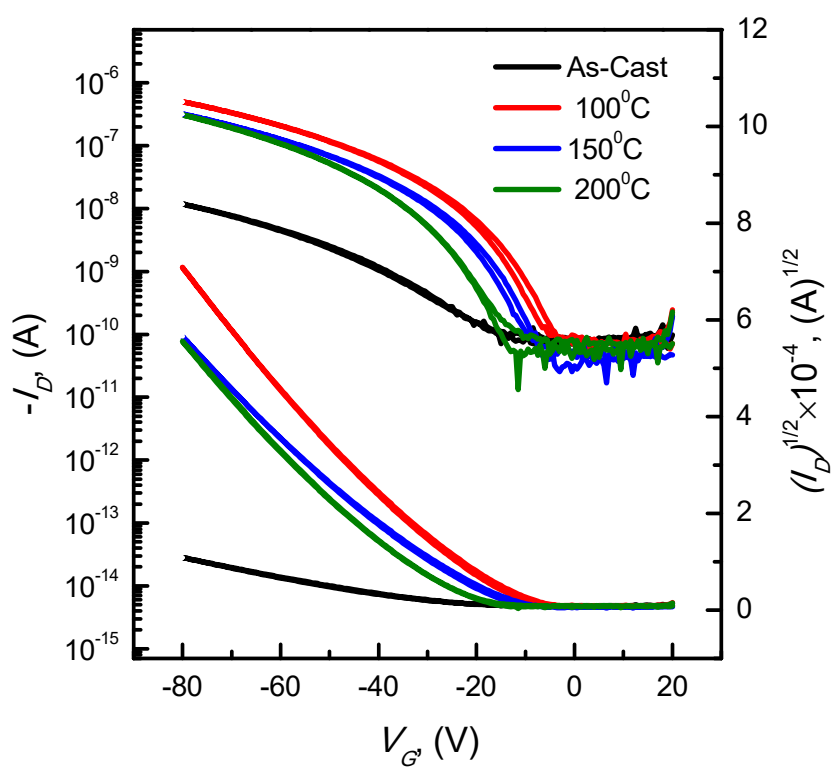
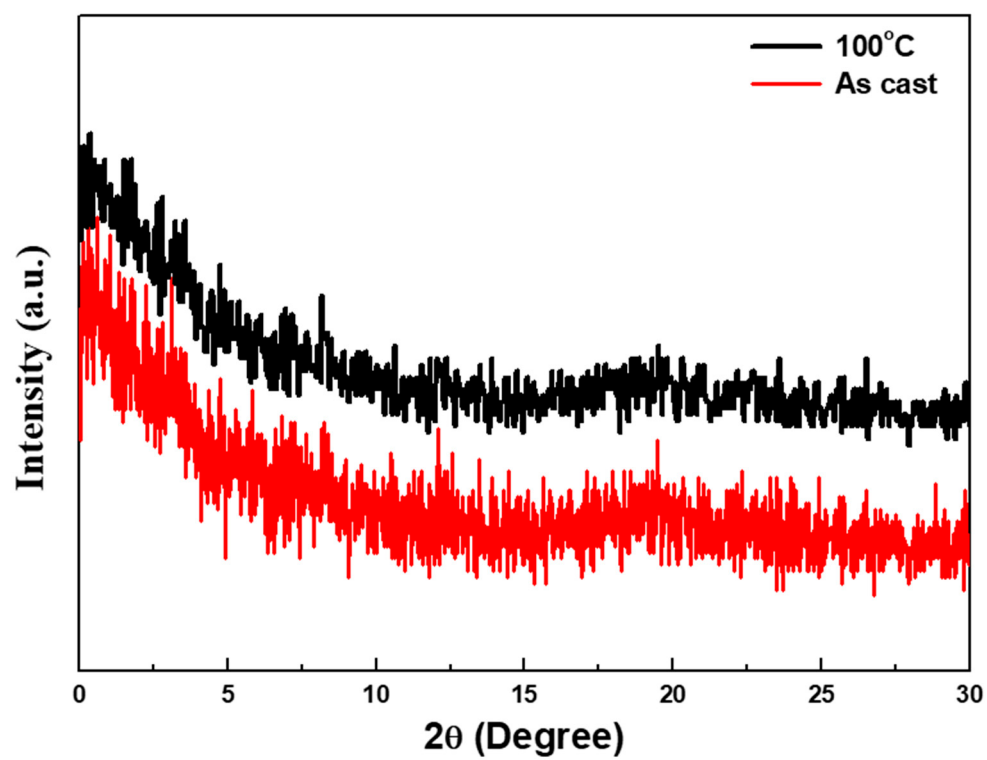


Figure S3. Transfer output characteristics of PTPABDT based OFETs with different annealing temperatures during device fabrication.



**Figure S4.** X-ray diffraction pattern at various annealing temperatures.