

Supporting Information

Low Band Gap Dithenogermolodithiophene Copolymers with Tunable Acceptors and Side-chains for Organic Solar Cells

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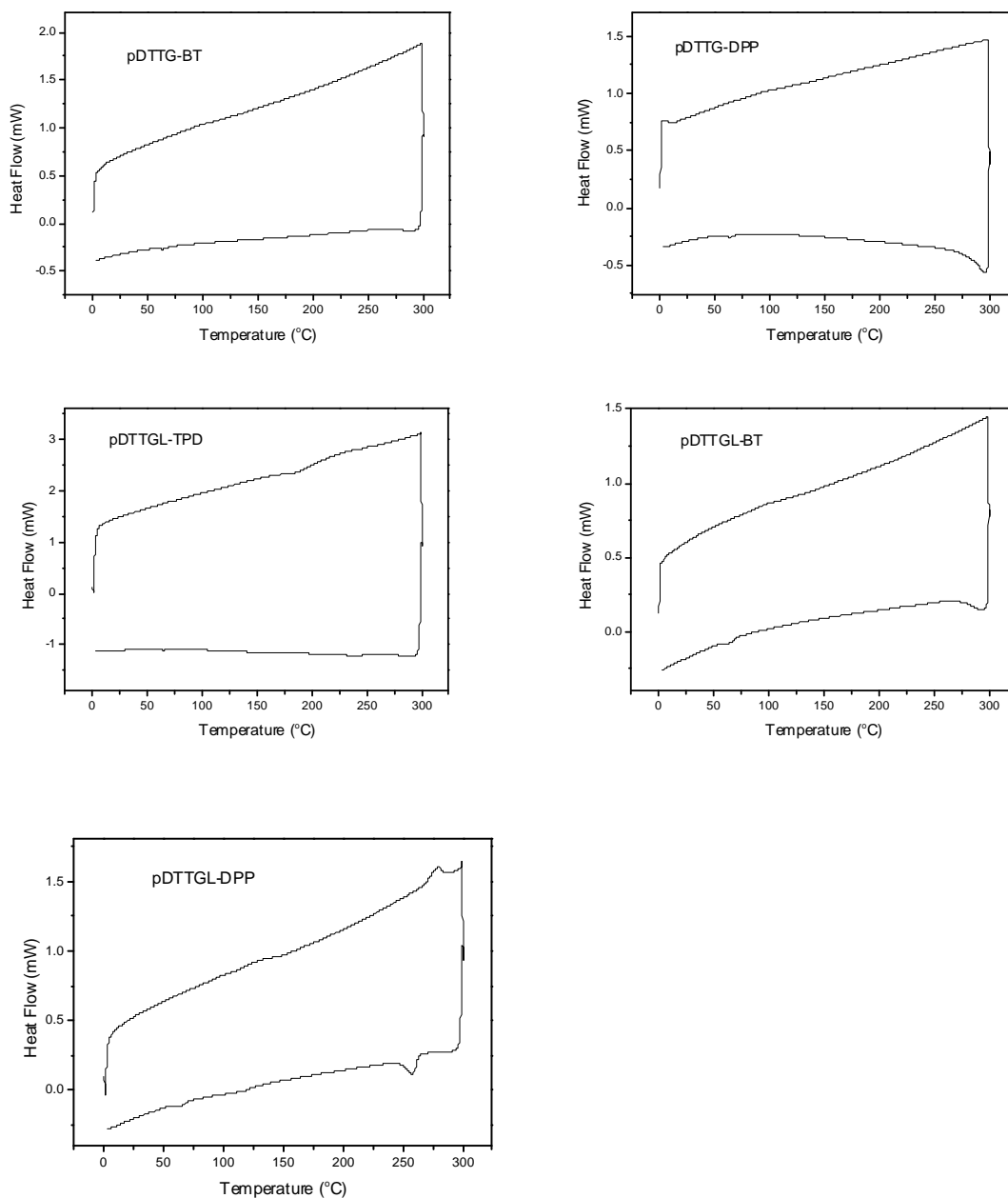


Figure S1. DSC curves of polymers.

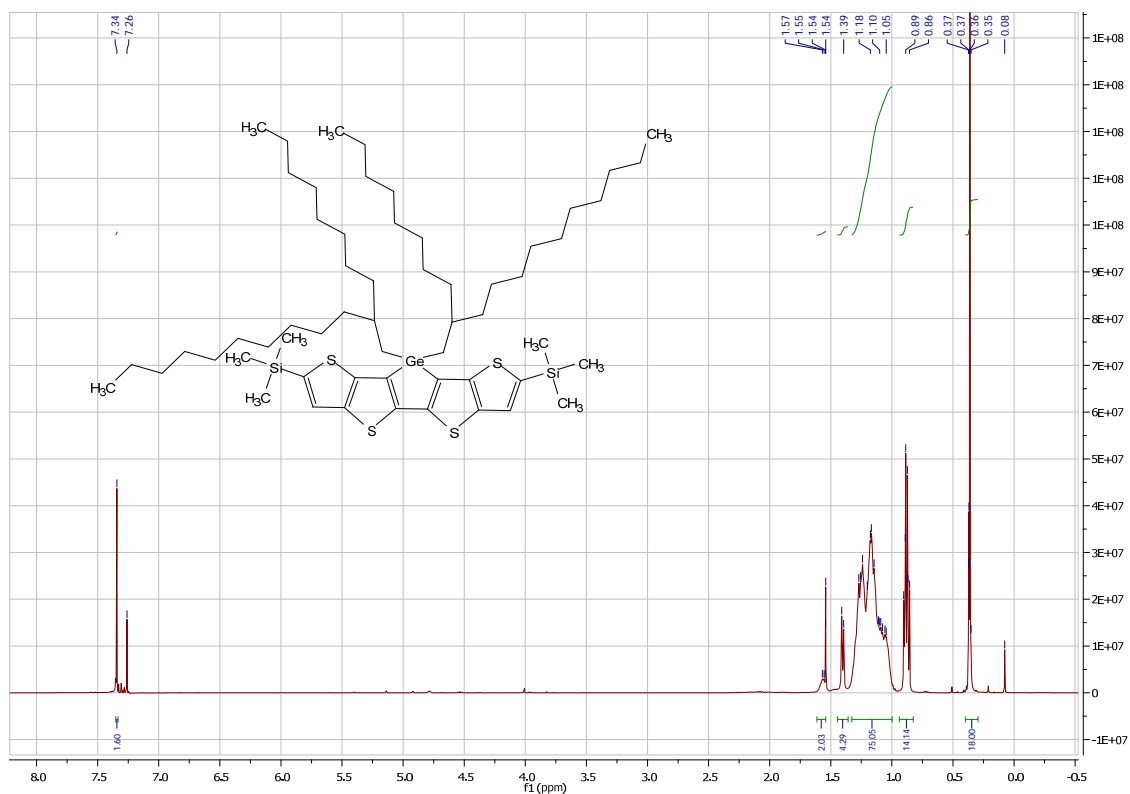


Figure S2. ^1H NMR spectrum of compound **2b** in CDCl_3 at room temperature.

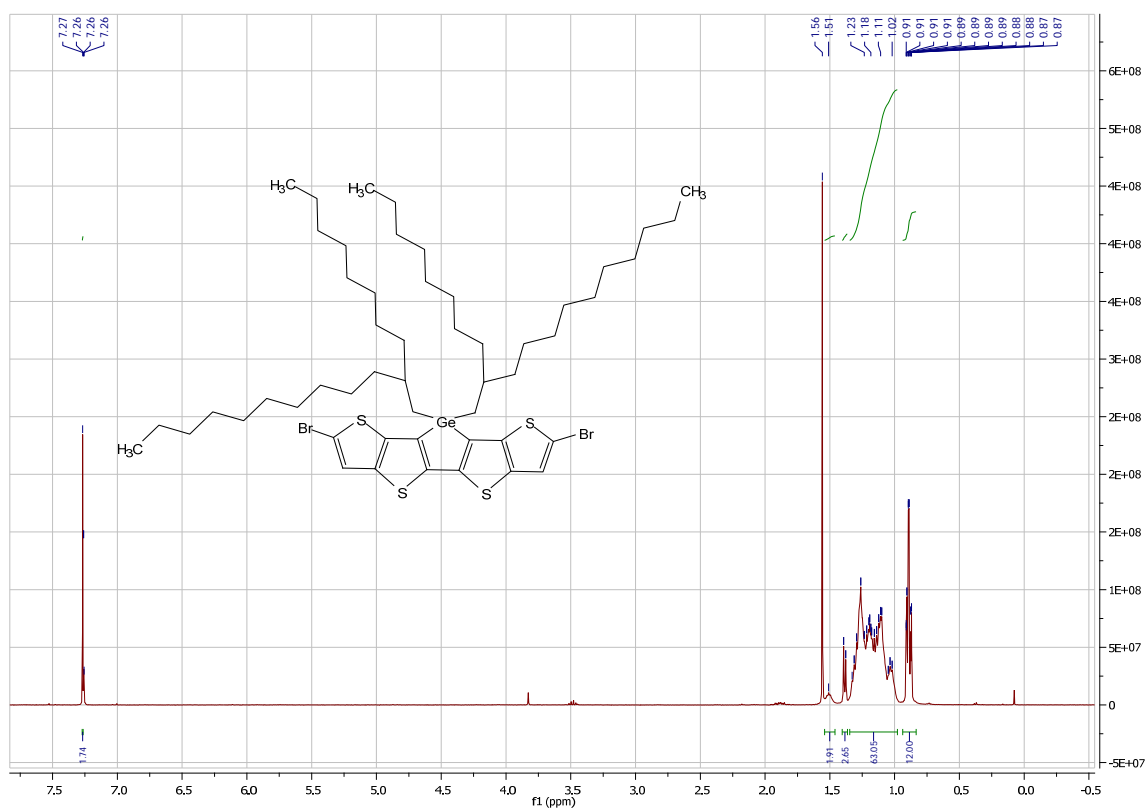


Figure S3. ^1H NMR spectrum of compound **3b** in CDCl_3 at room temperature.

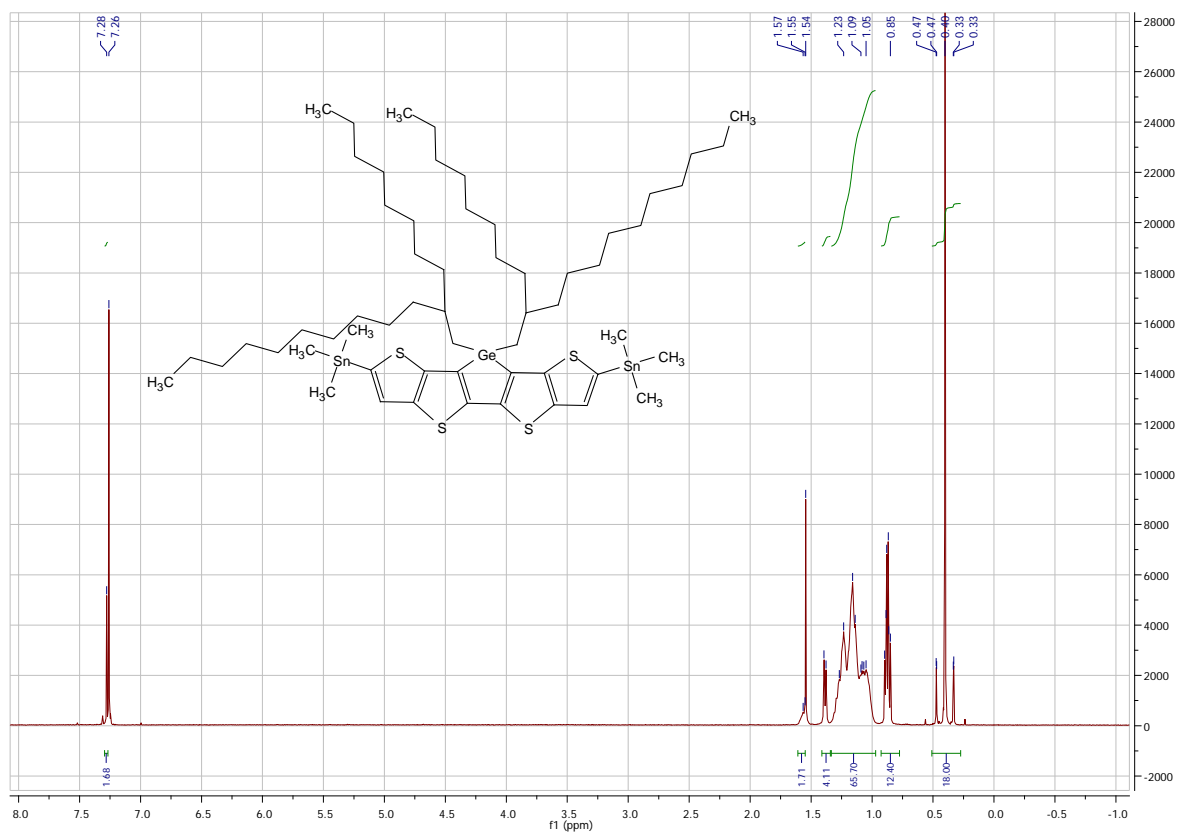


Figure S4. ^1H NMR spectrum of compound **4b** in CDCl_3 at room temperature.

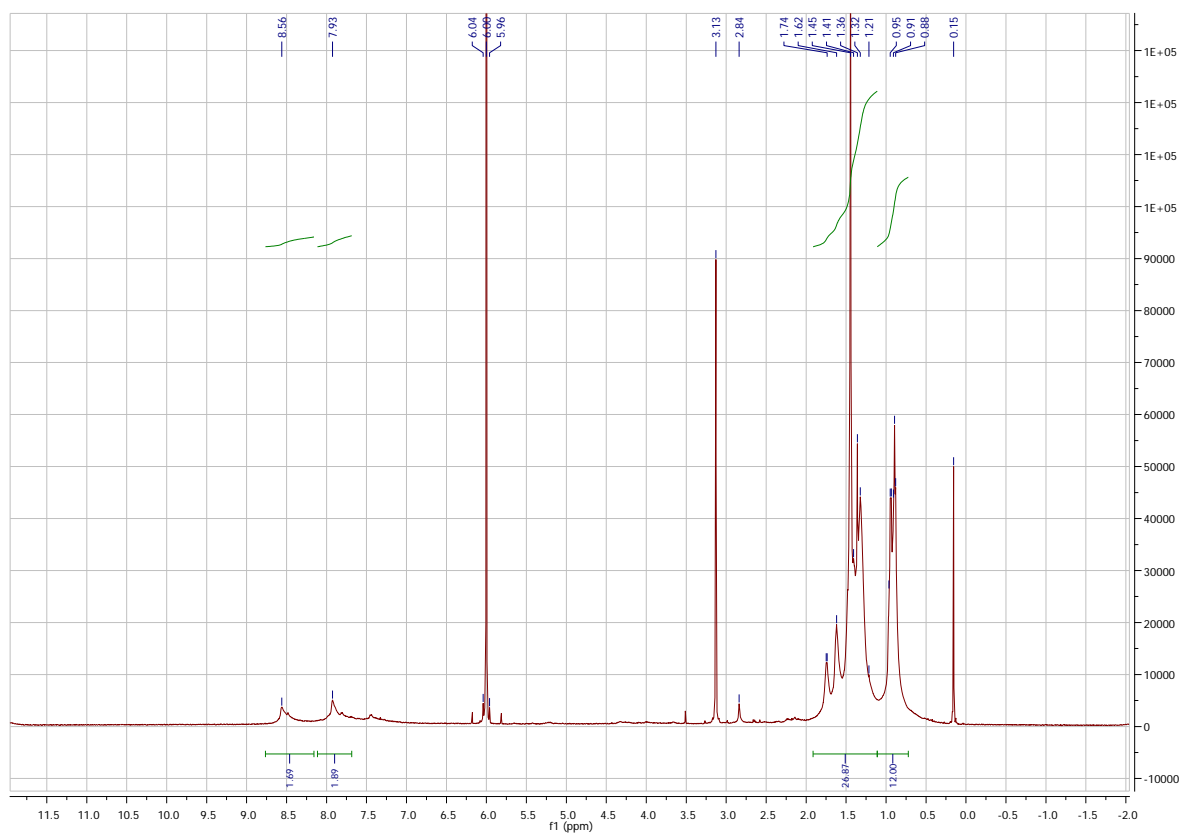


Figure S5. ^1H NMR spectrum of **pDTTG-BT** in d_4 -tetrachloroethane at $130\text{ }^\circ\text{C}$.

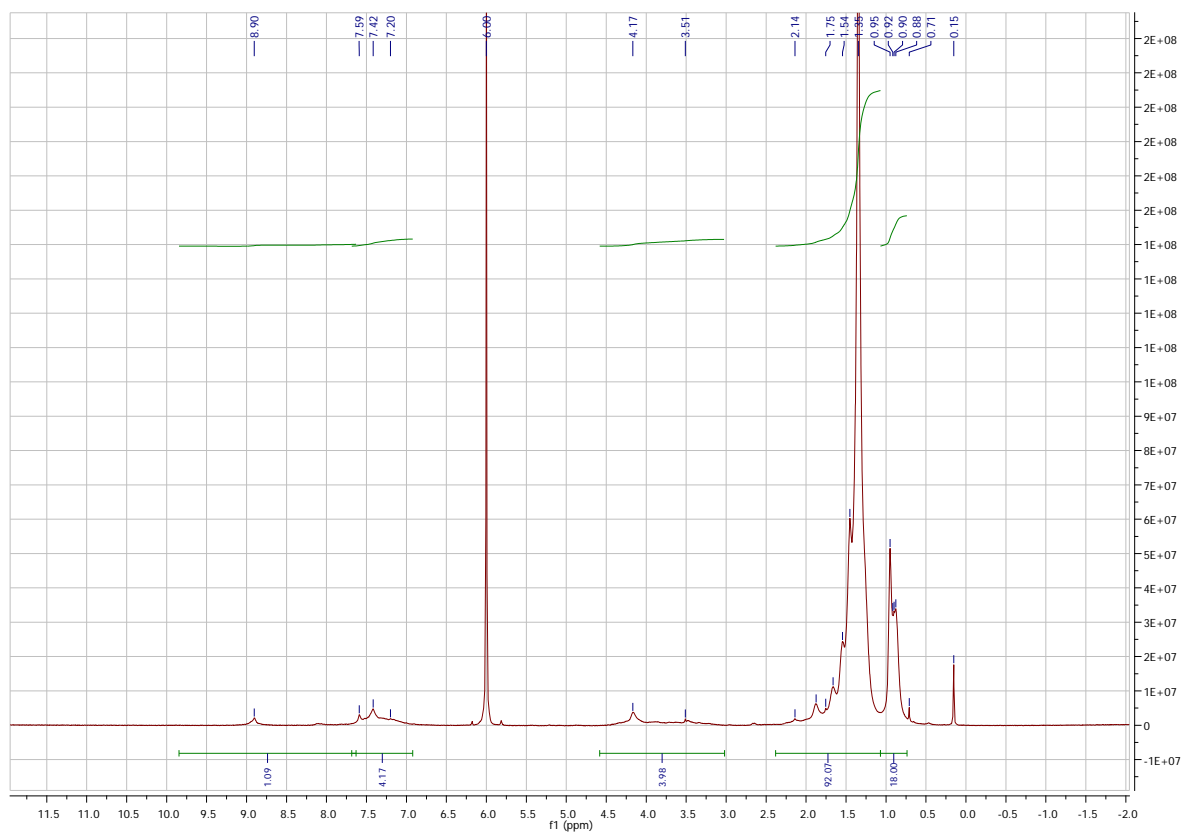


Figure S6. ^1H NMR spectrum of pDTTG-DPP in d_4 -tetrachloroethane at 130 °C.

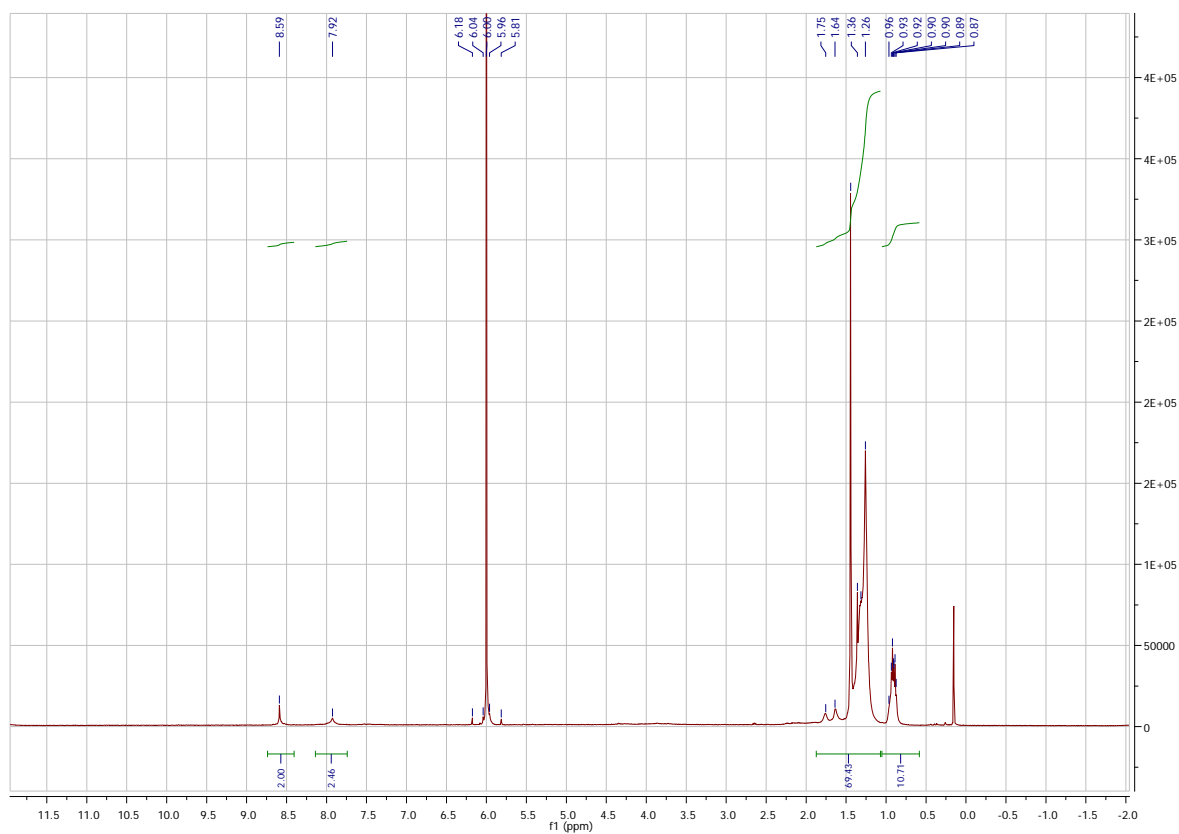


Figure S7. ^1H NMR spectrum of pDTTGL-BT in d_4 -tetrachloroethane at 130 °C.

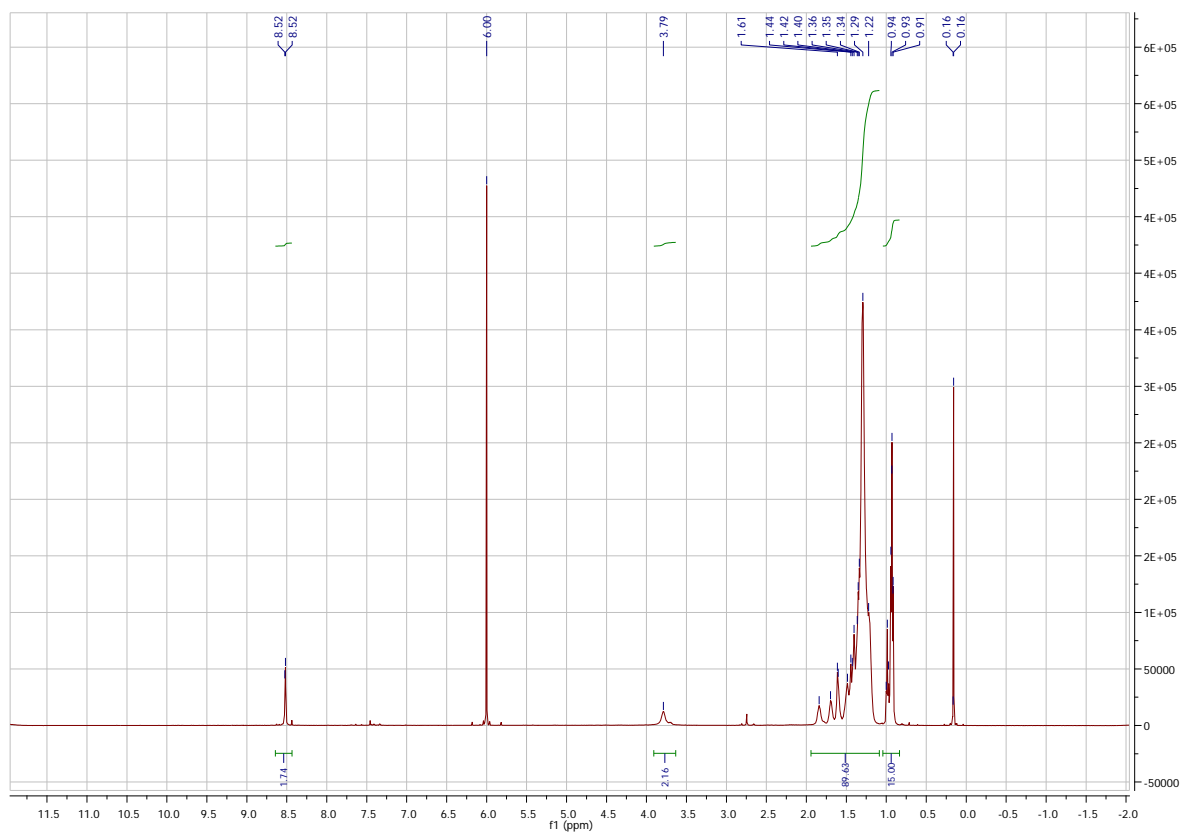


Figure S8. ¹H NMR spectrum of pDTTGL-TPD in d₄-tetrachloroethane at 130 °C.

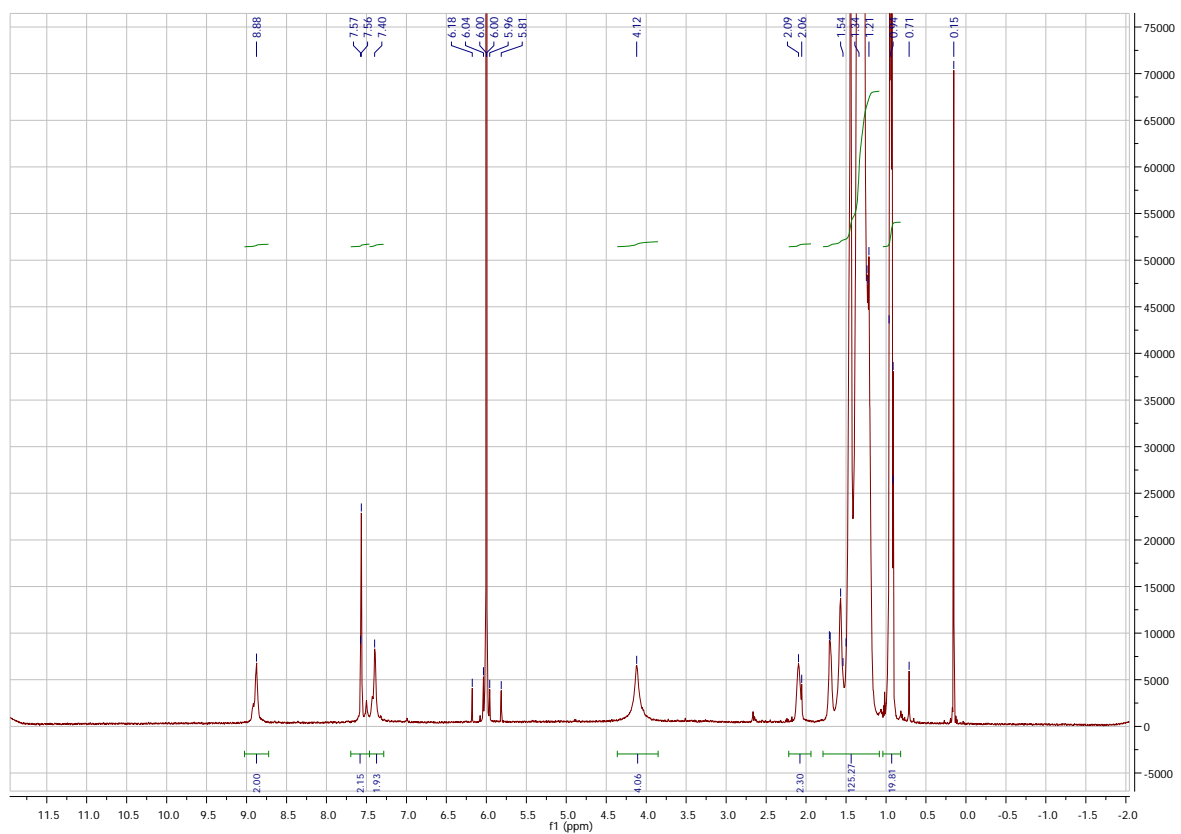


Figure S9. ¹H NMR spectrum of pDTTGL-DPP in d₄-tetrachloroethane at 130 °C.