

Figure S1. COSY spectrum of ThBr monomer

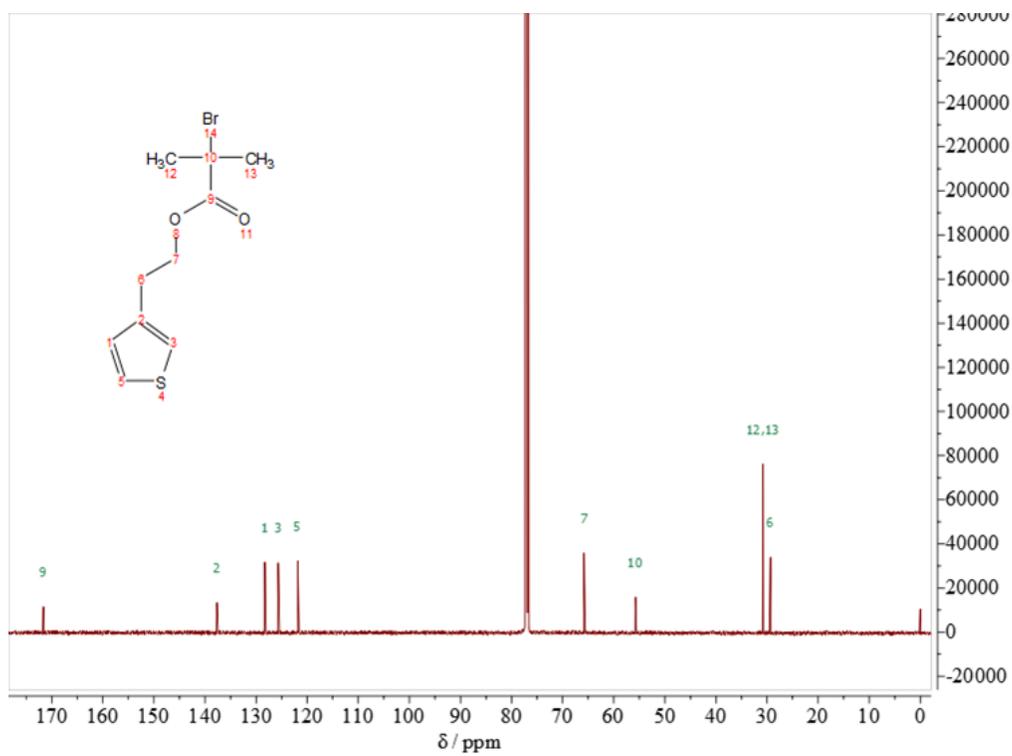


Figure S2.  $^{13}\text{C}$  spectrum of ThBr monomer

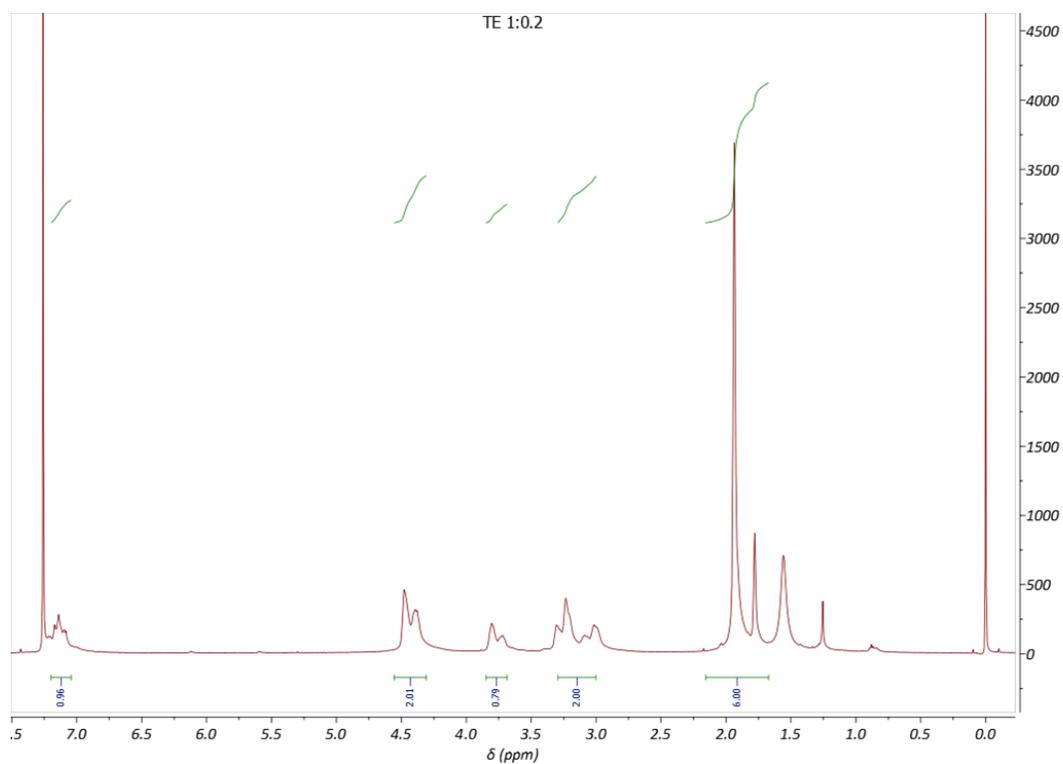


Figure S3.  $^1\text{H}$  NMR spectrum of product TE-1:0.2

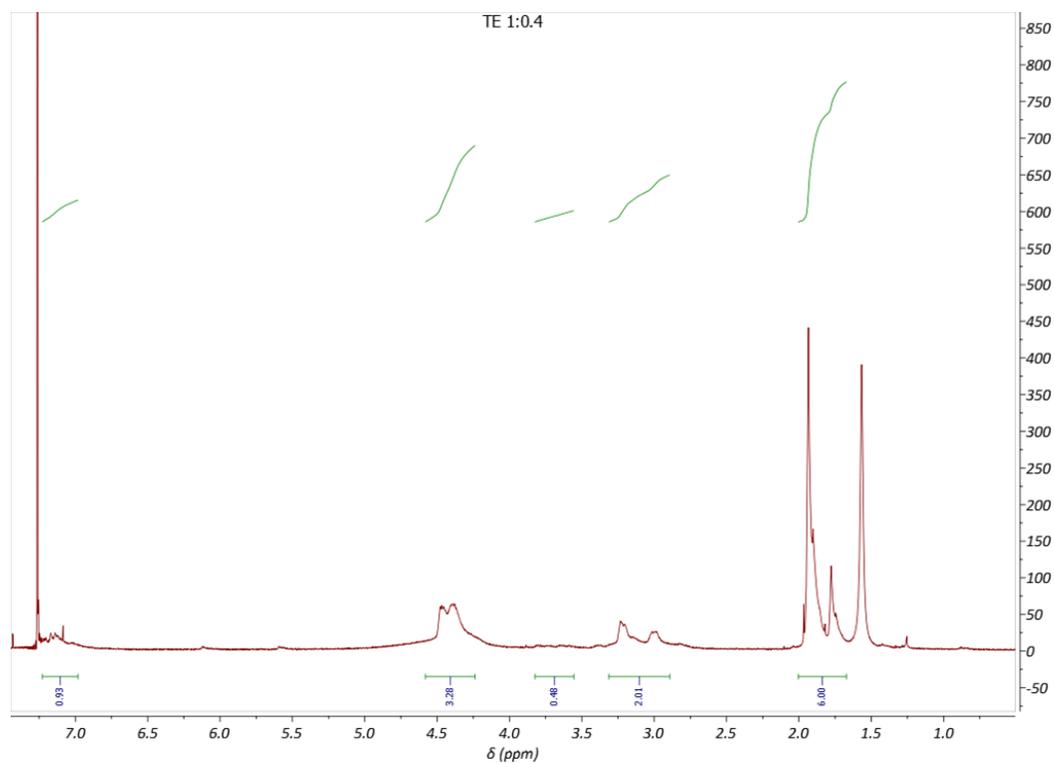


Figure S4.  $^1\text{H}$  NMR spectrum of product TE 1:0.4

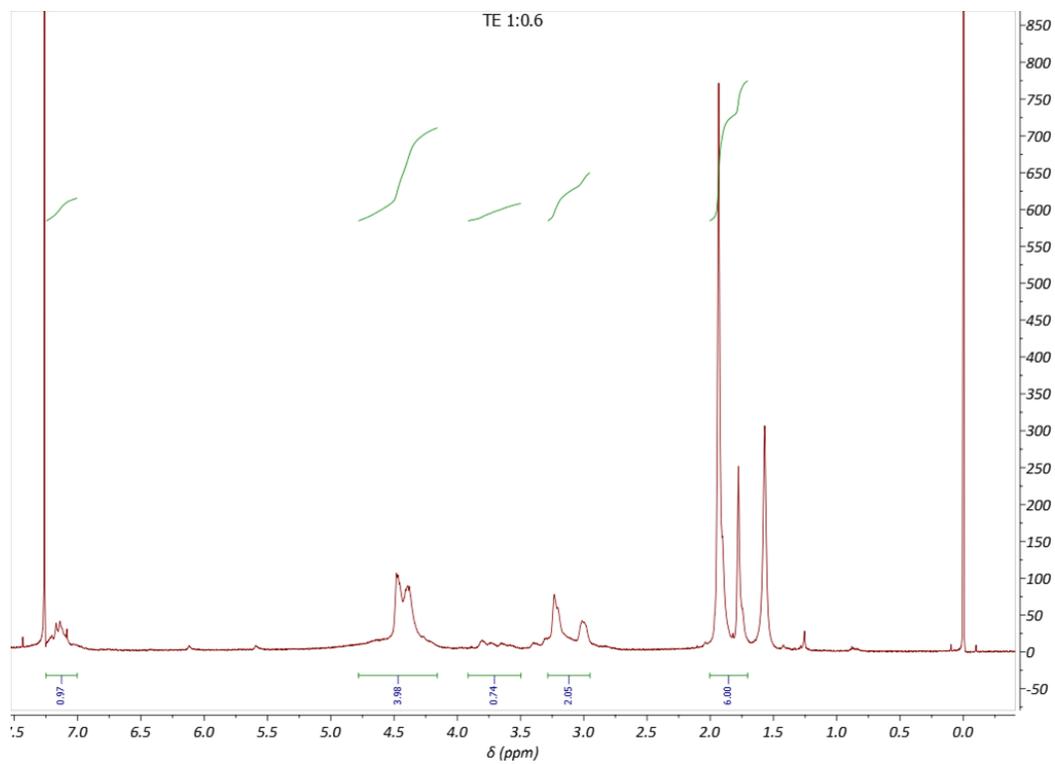


Figure S5.  $^1\text{H}$  NMR spectrum of product TE 1:0.6

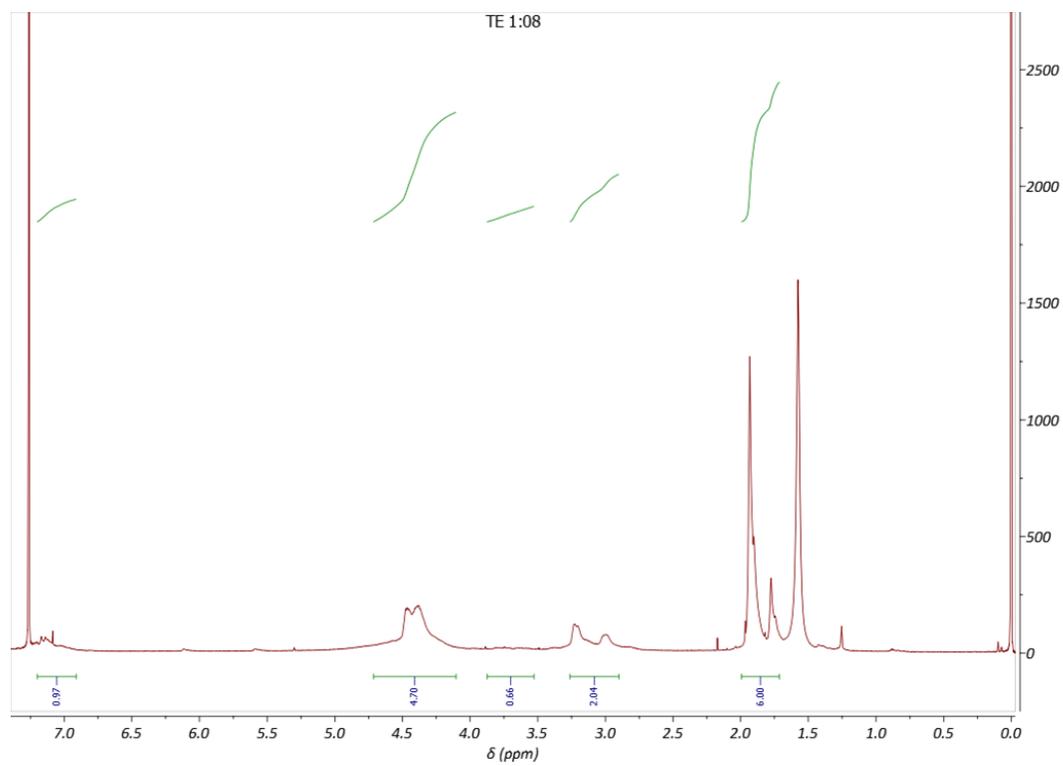


Figure S6.  $^1\text{H}$  NMR spectrum of product TE 1:0.8

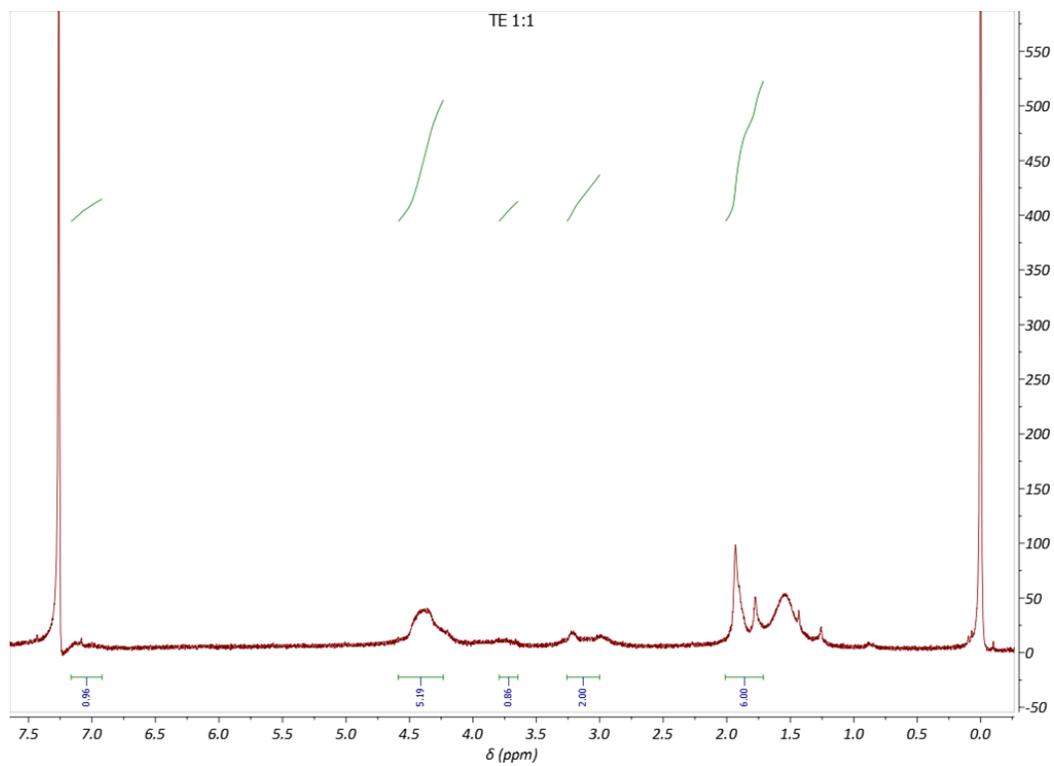


Figure S7.  $^1\text{H}$  NMR spectrum of product TE 1:1

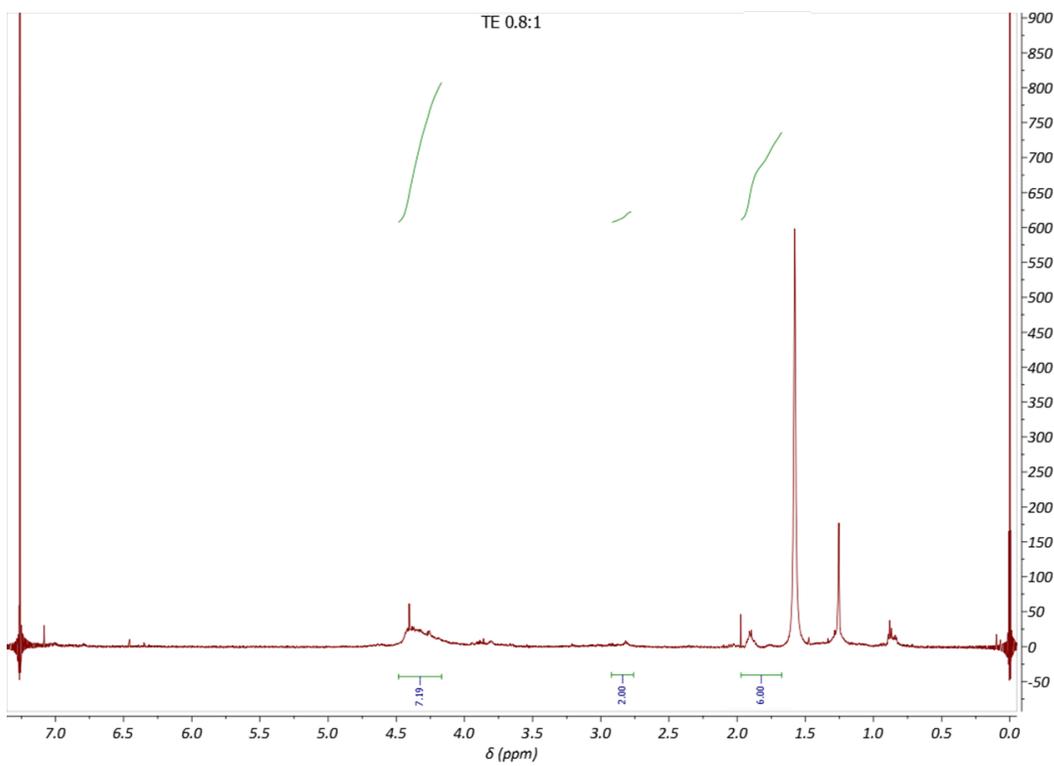


Figure S8.  $^1\text{H}$  NMR spectrum of product TE 0.8:1

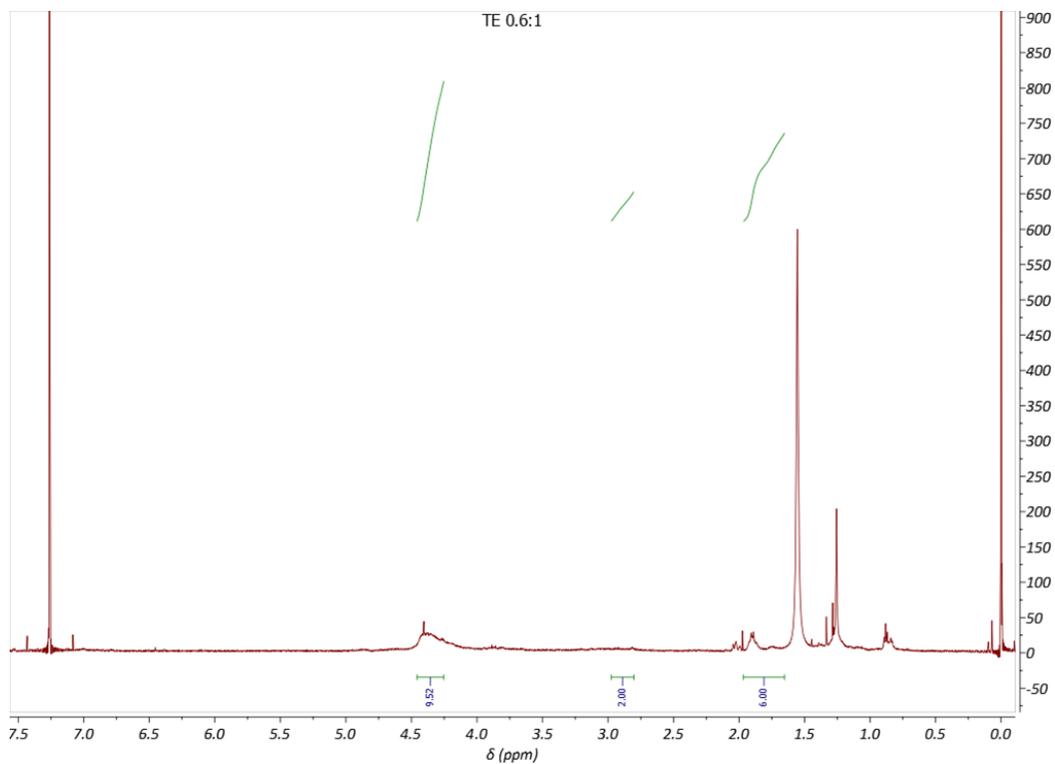


Figure S9.  $^1\text{H}$  NMR spectrum of product TE 0.6:1

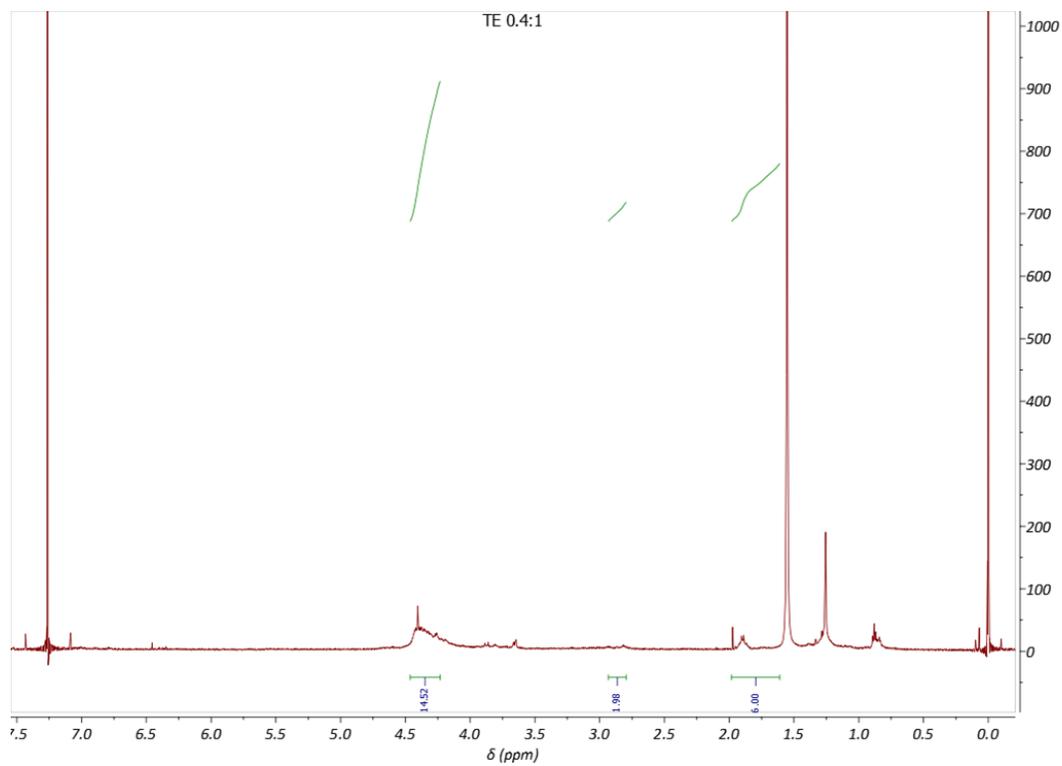


Figure S10.  $^1\text{H}$  NMR spectrum of product TE 0.4:1

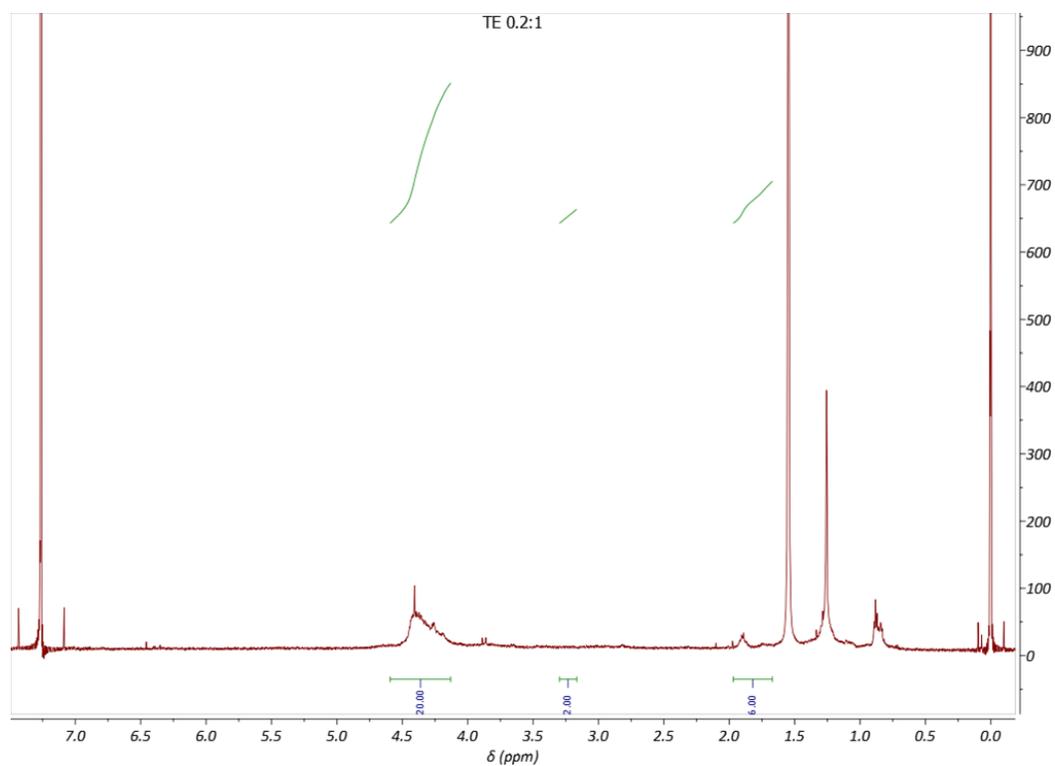


Figure S11. <sup>1</sup>H NMR spectrum of product TE 0.2:1

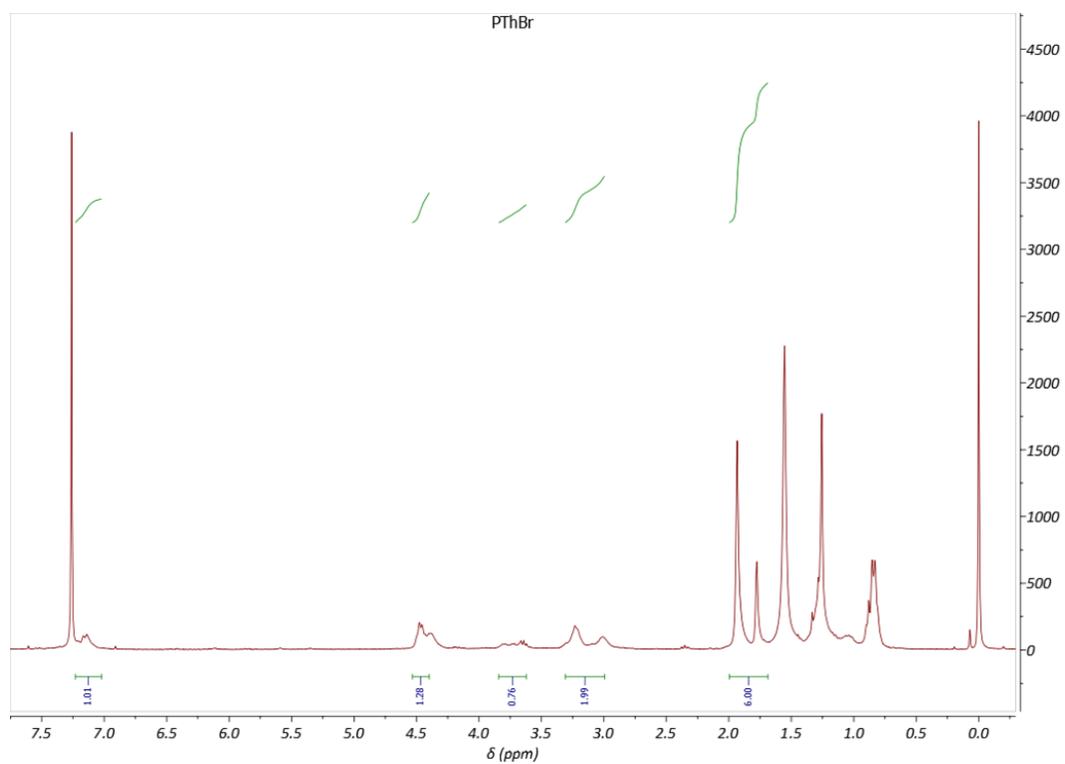


Figure S12. <sup>1</sup>H NMR spectrum of PThBr