Enzymatic Synthesis of Poly(alkylene succinate)s: Influence of Reaction Conditions

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Supporting Information

1 GC/MS spectra of the gas phase product evolved in the enzymatic polycondensation of divinyladipate with 1,4-butanediol

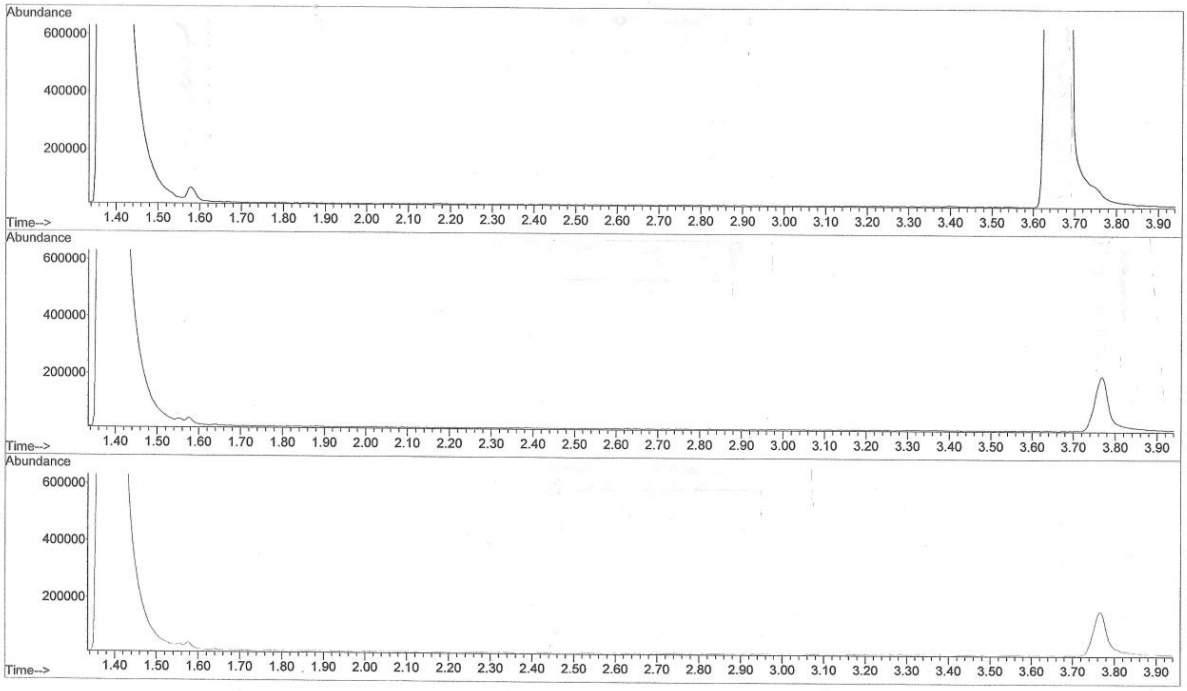
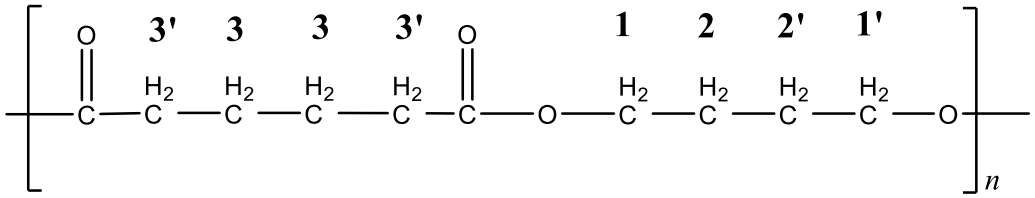


Figure S1. Headspace GC/MS spectra of products found in the gas phase during polycondensation of divinyladipate with 1,4-butanediol (from top to bottom): 1) gas phase product (t = 1.58 s , cetaldehyde; t = 3.68 s, toluene); 2) empty vial before measurement; 3) empty vial after measurement.

2 ^{1}H NMR spectra

Assignment of signals for PBA:



δ ($CDCl_3$) (ppm): 4.08 (**1**, **1'**, m, 4H); 3.68 (t, 2H, -$C\underline{H_2}$-OH); 2.32 (**3'**, m, 4H); 1.69 (**2**, **2'**, m, 4H); 1.65 (**3**, m, 4H); 1.24 (-OCO-CH_3, t, 3H) ppm.

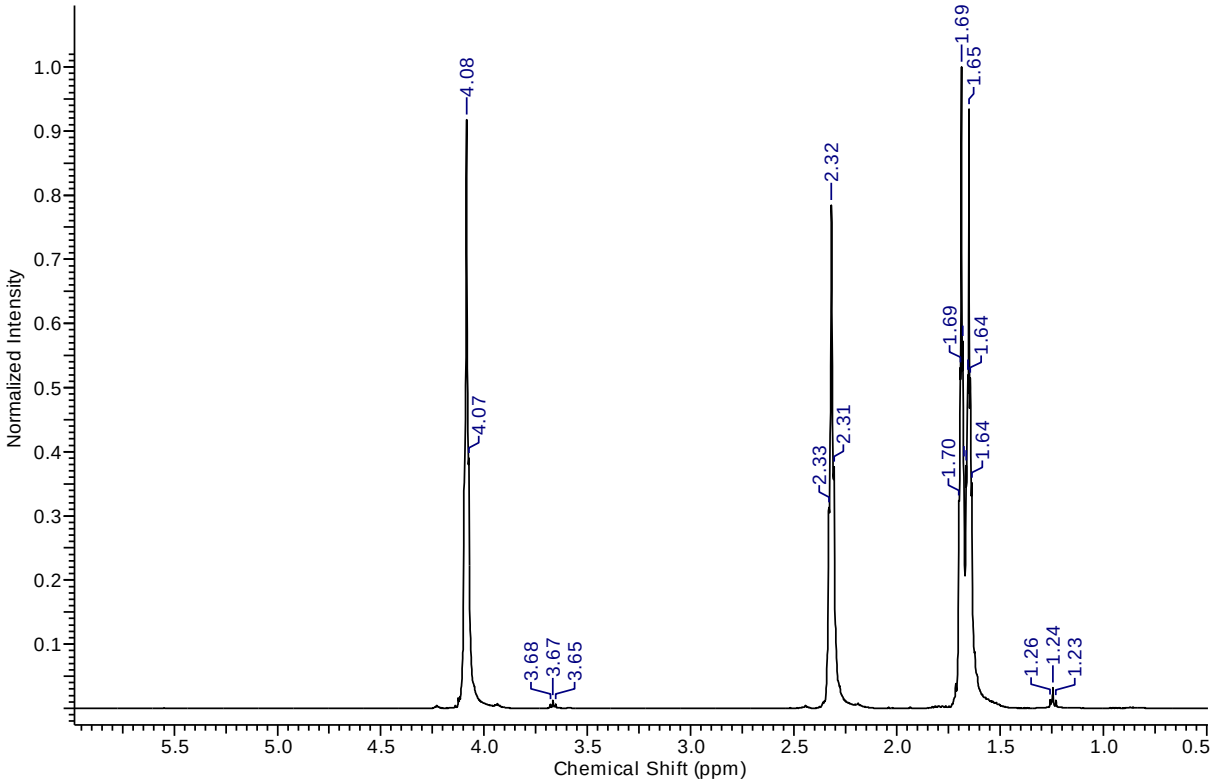


Figure S2. ^{1}H NMR spectrum of PBA4 (in $CDCl_3$).

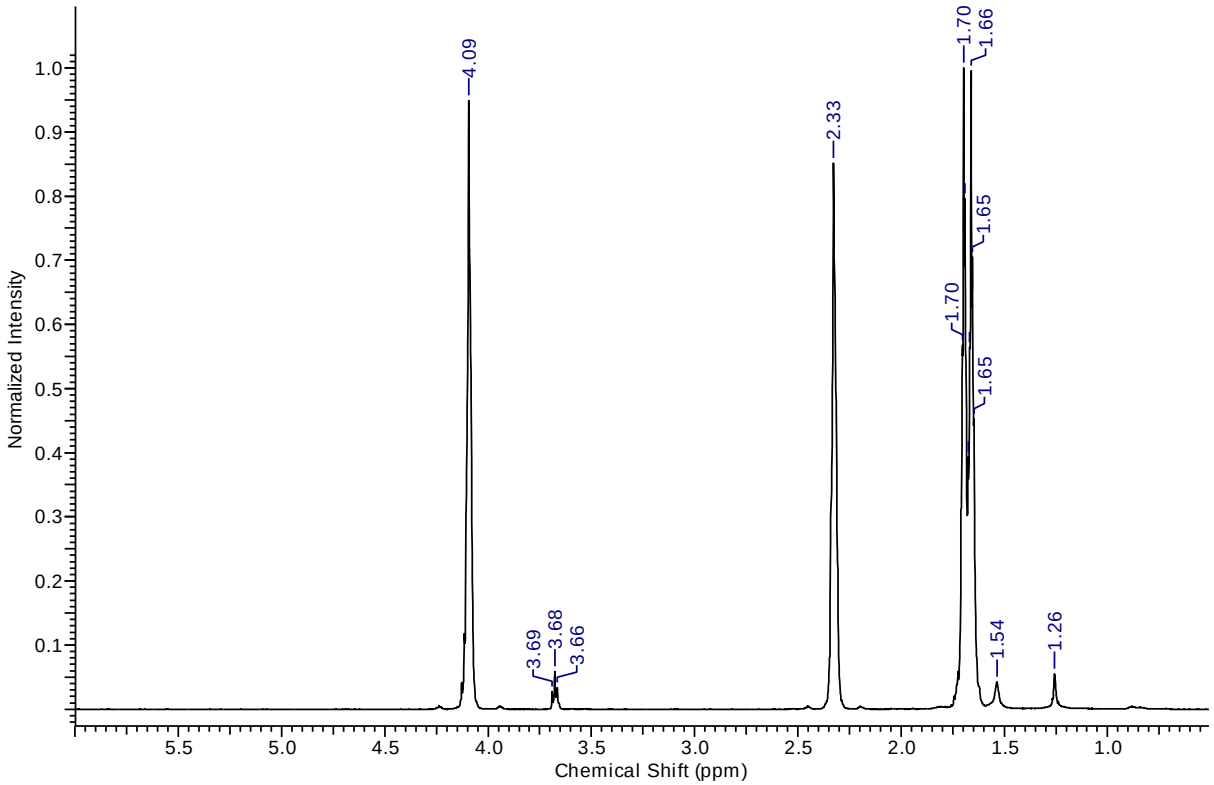


Figure S3. ^{1}H NMR spectrum of PBA5-1 (in $CDCl_3$).

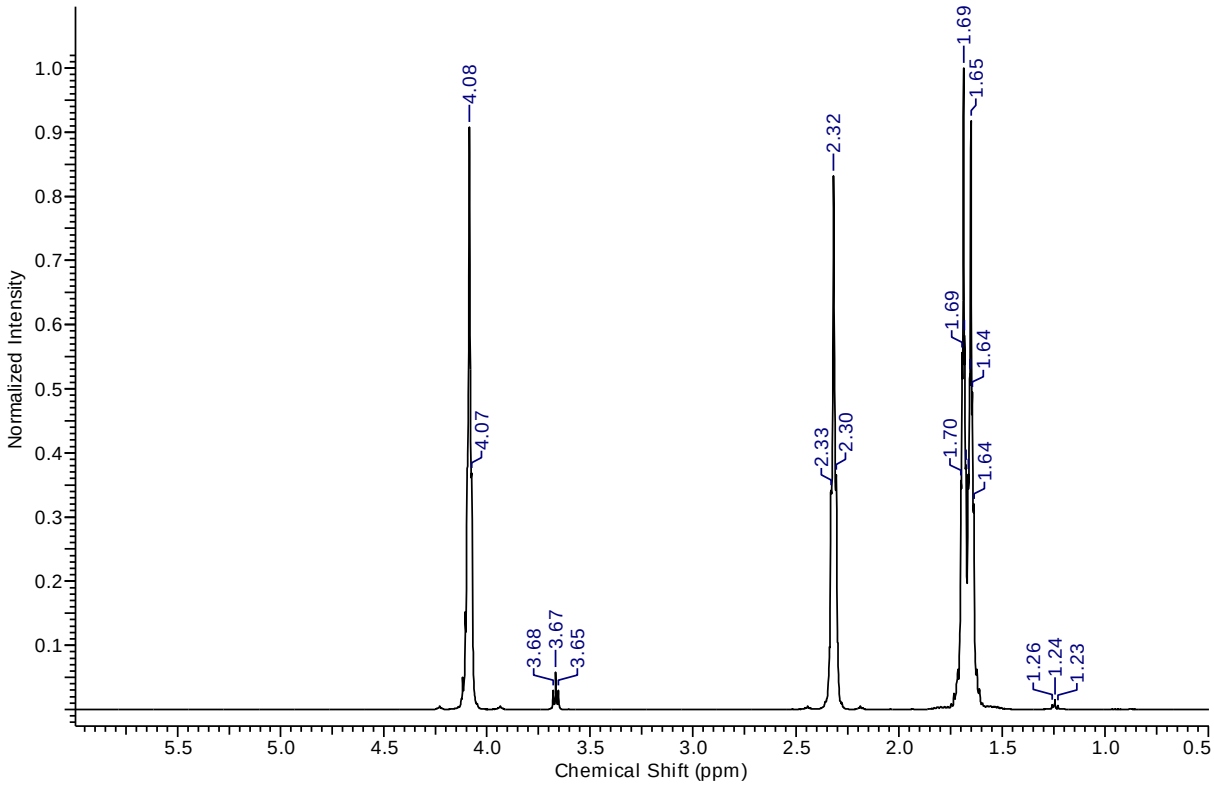


Figure S4. ^{1}H NMR spectrum of PBA6 (in $CDCl_3$).

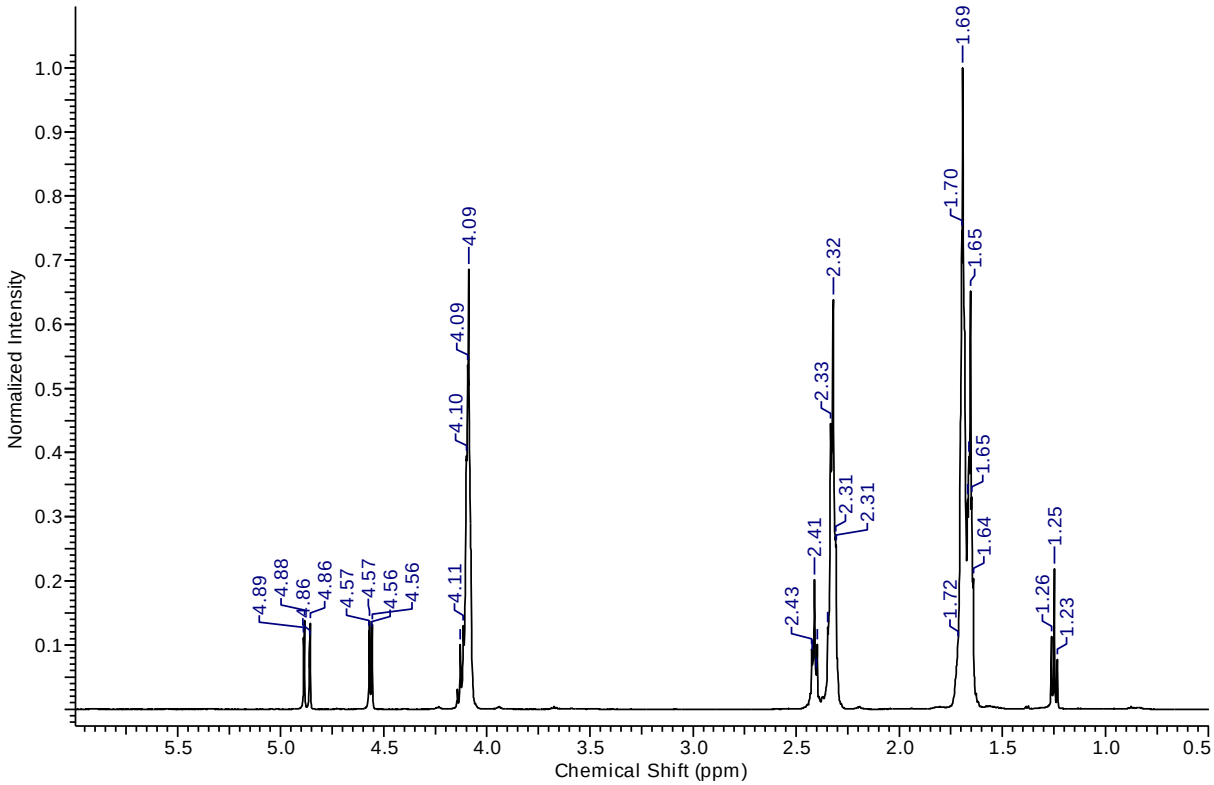
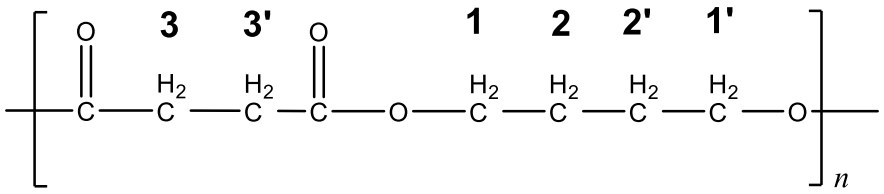


Figure S5. ^{1}H NMR spectrum of PBA2 (in $CDCl_3$).

Assignment of signals for PBS:



δ ($CDCl_3$) (ppm): 4.10 (**1**, **1'**, m, 4H); 3.67 (t, 2H, -C<u>H_2</u>-OH); 2.60 (**3**, **3'**, m, 4H); 1.69 (**2**, **2'**, m, 4H) ppm.

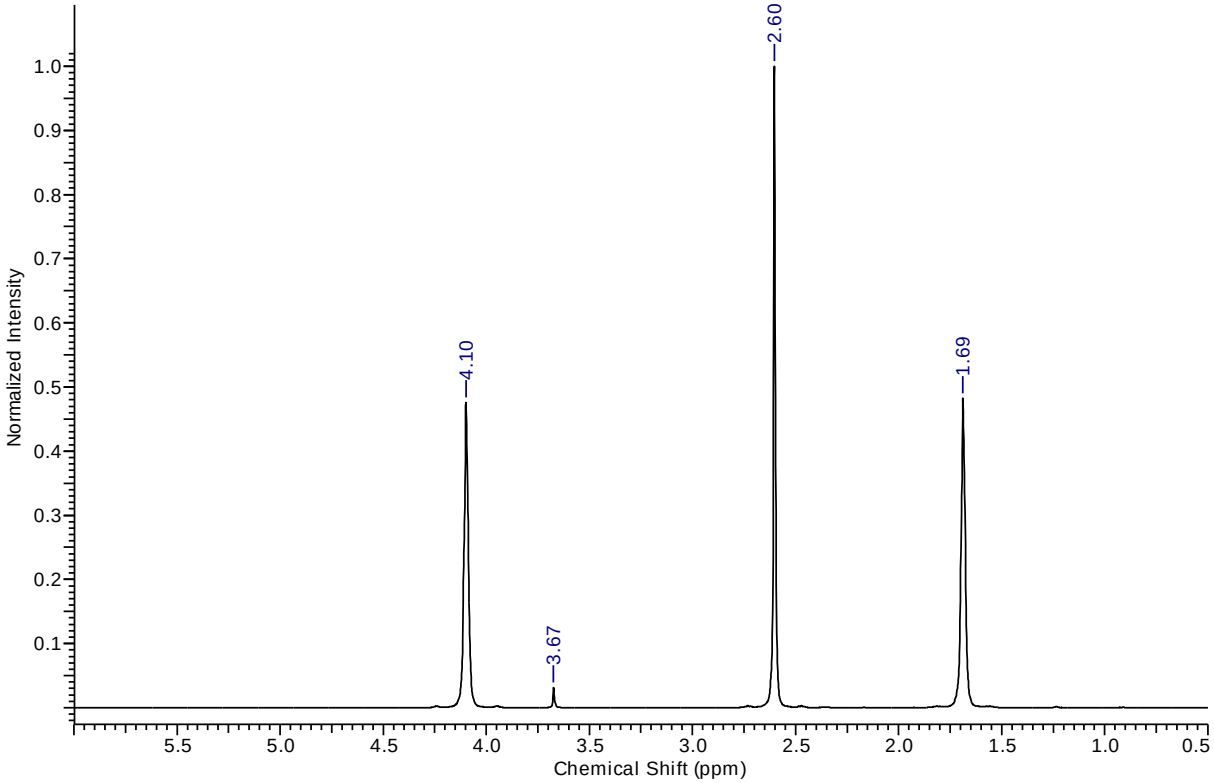


Figure S6. ^{1}H NMR spectrum of PBS1-2 (in $CDCl_3$).

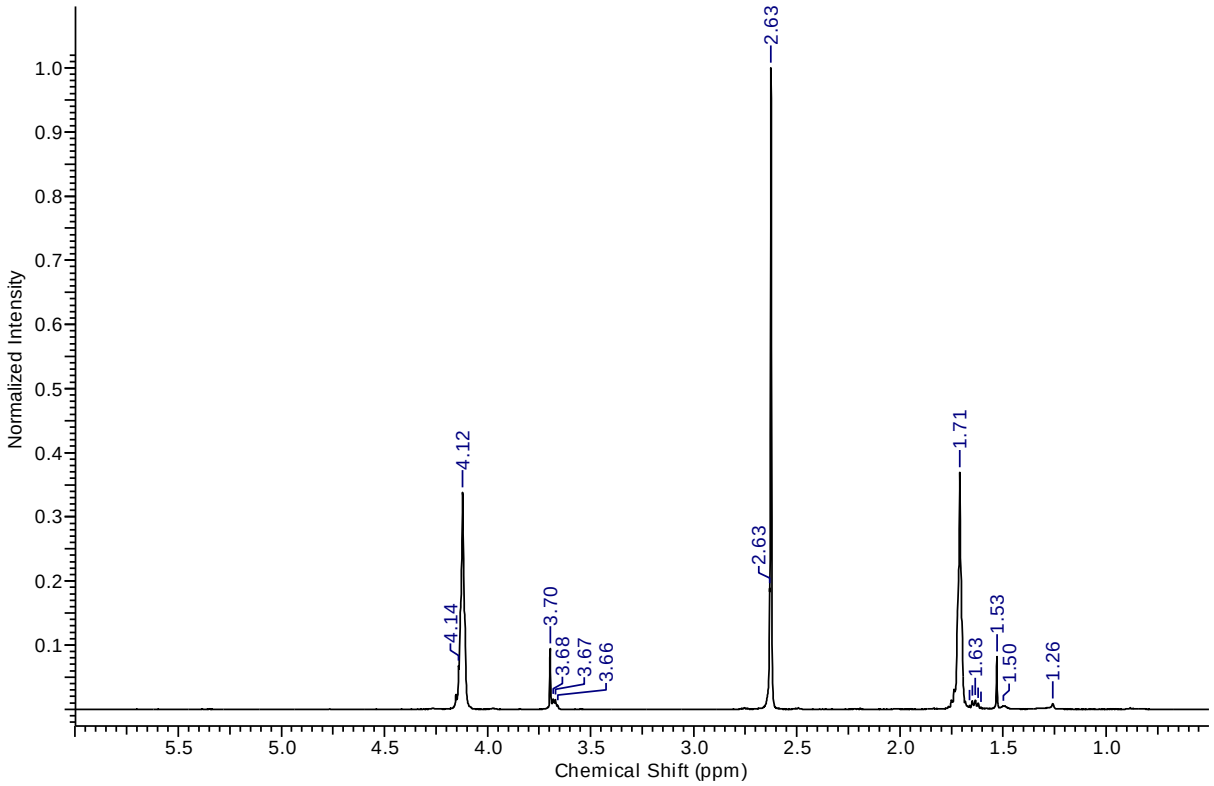


Figure S7. ^{1}H NMR spectrum of PBS7 (in $CDCl_3$).

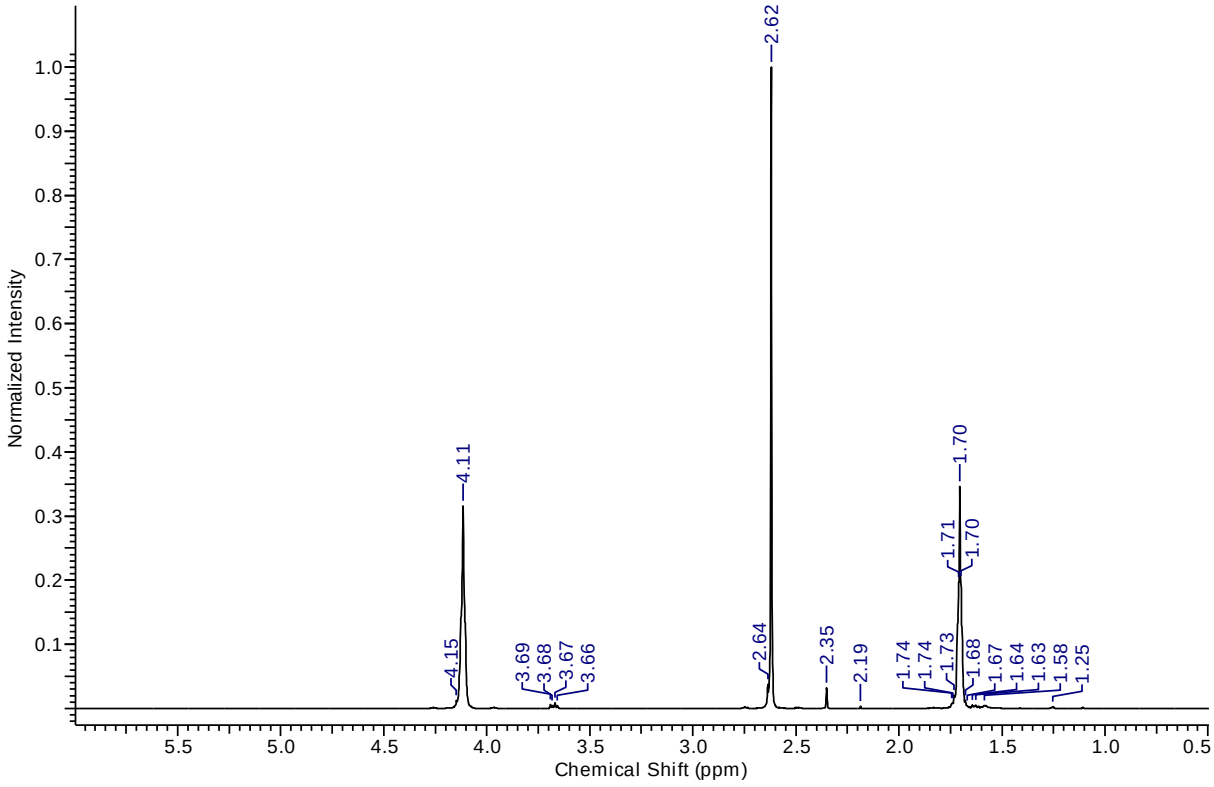


Figure S8. ^{1}H NMR spectrum of PBS5 (in $CDCl_3$).