

## Article

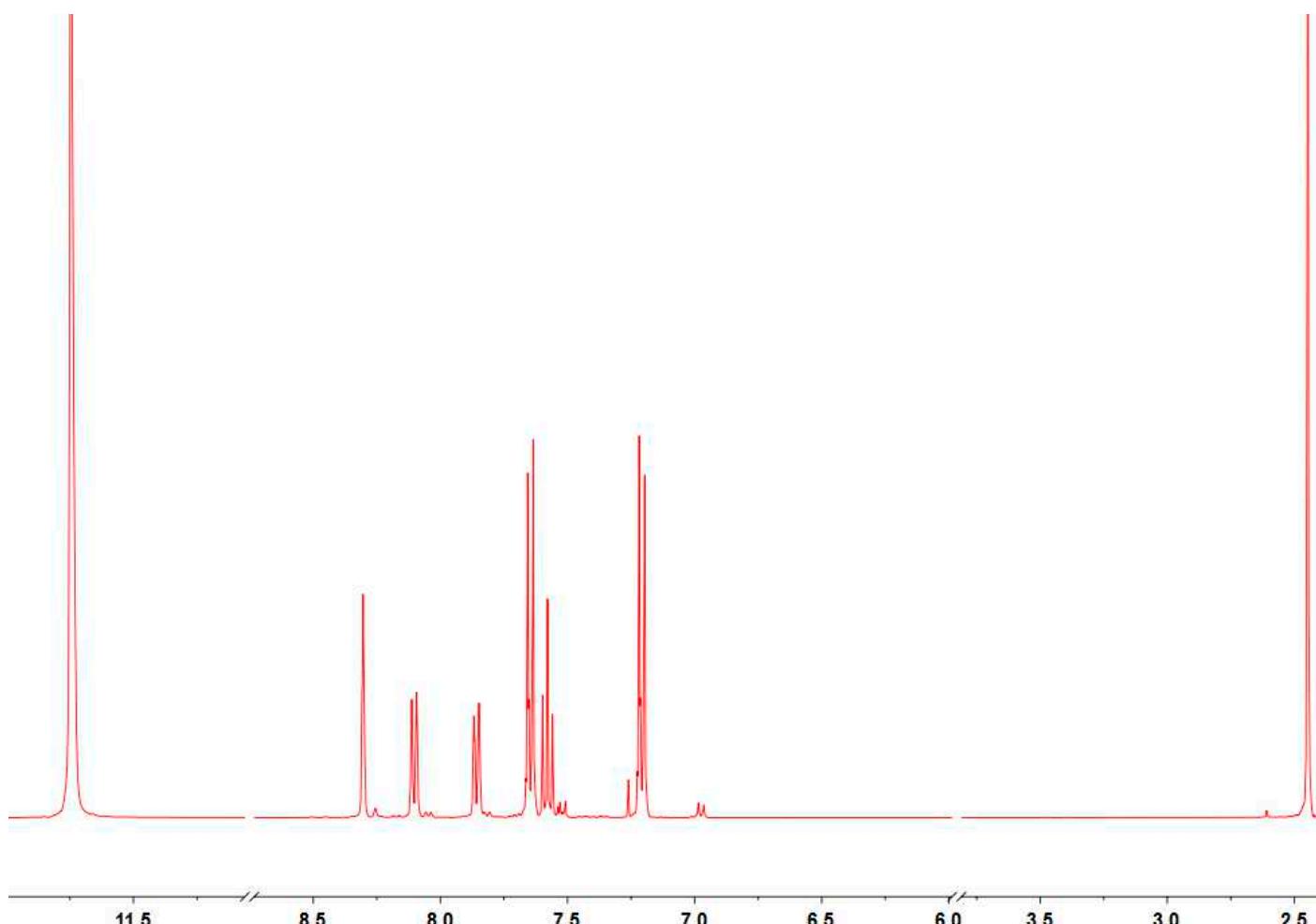
# Synthesis and Characterization of Novel Wholly Aromatic Copolyesters Based on 4'-Hydroxybiphenyl-3-carboxylic and 3-Hydroxybenzoic Acids

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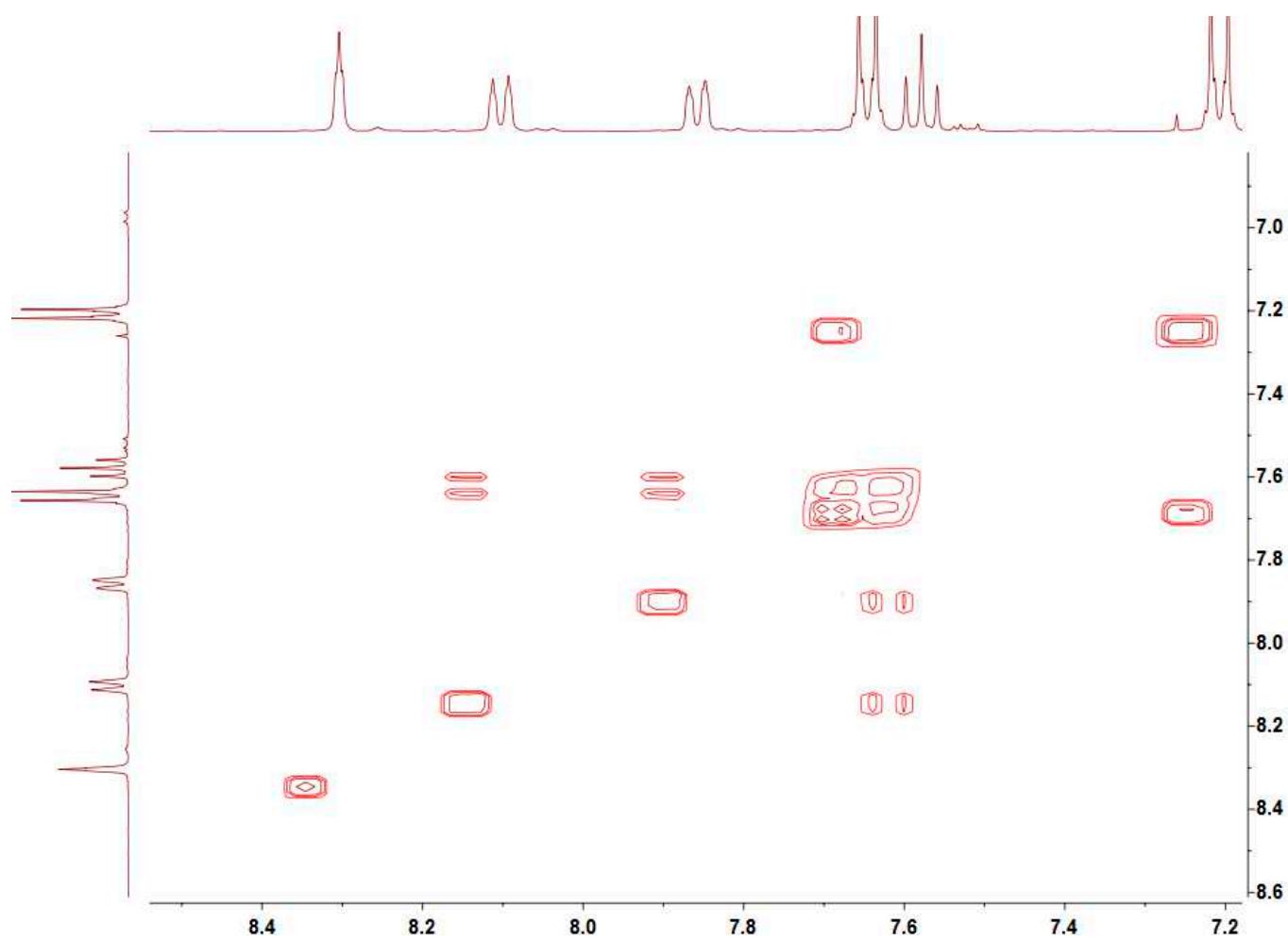
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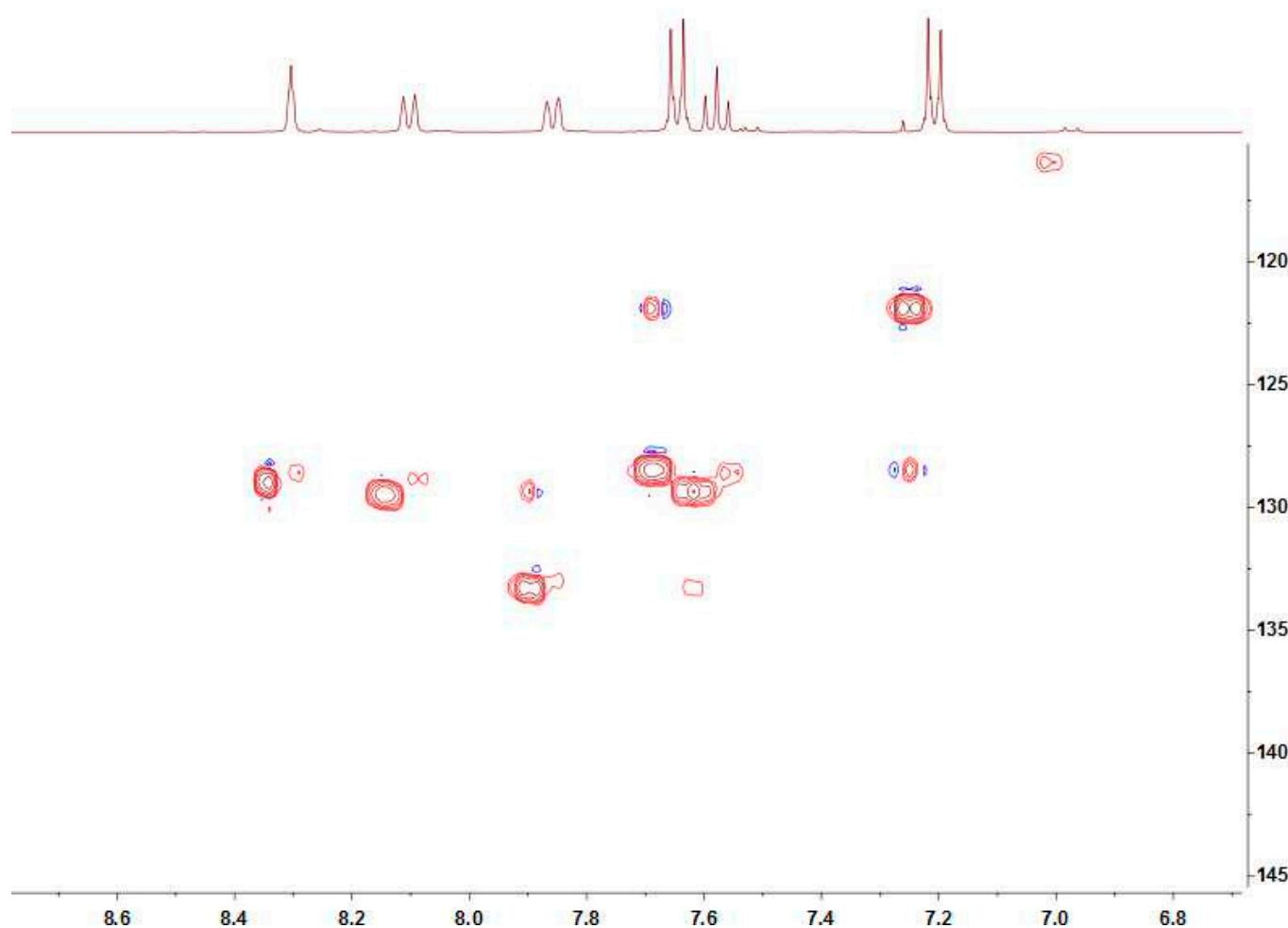
## Supplementary materials



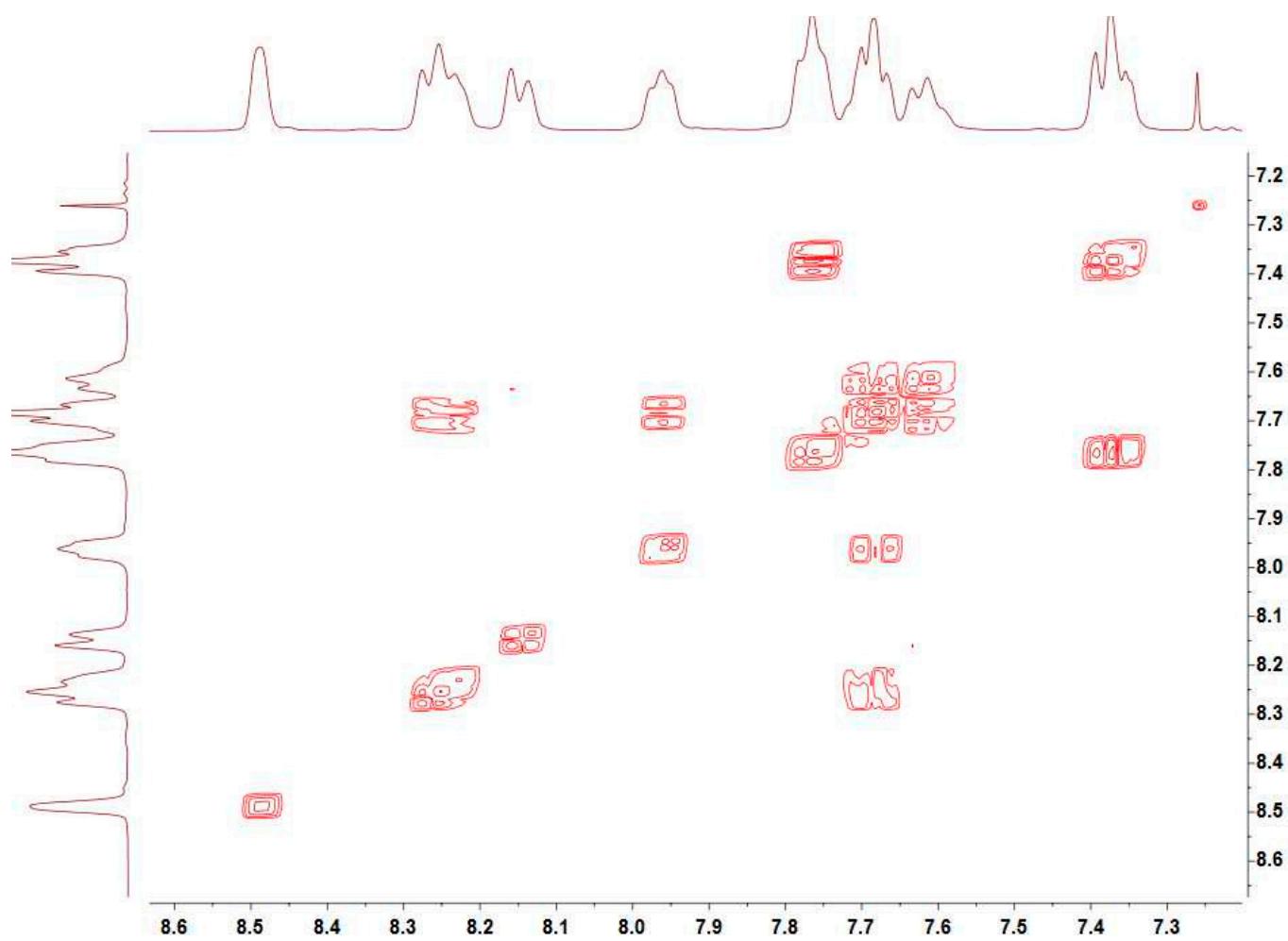
**Figure S1.** <sup>1</sup>H Spectrum of 3ABC recorded in a mixture CDCl<sub>3</sub>:CF<sub>3</sub>COOH.



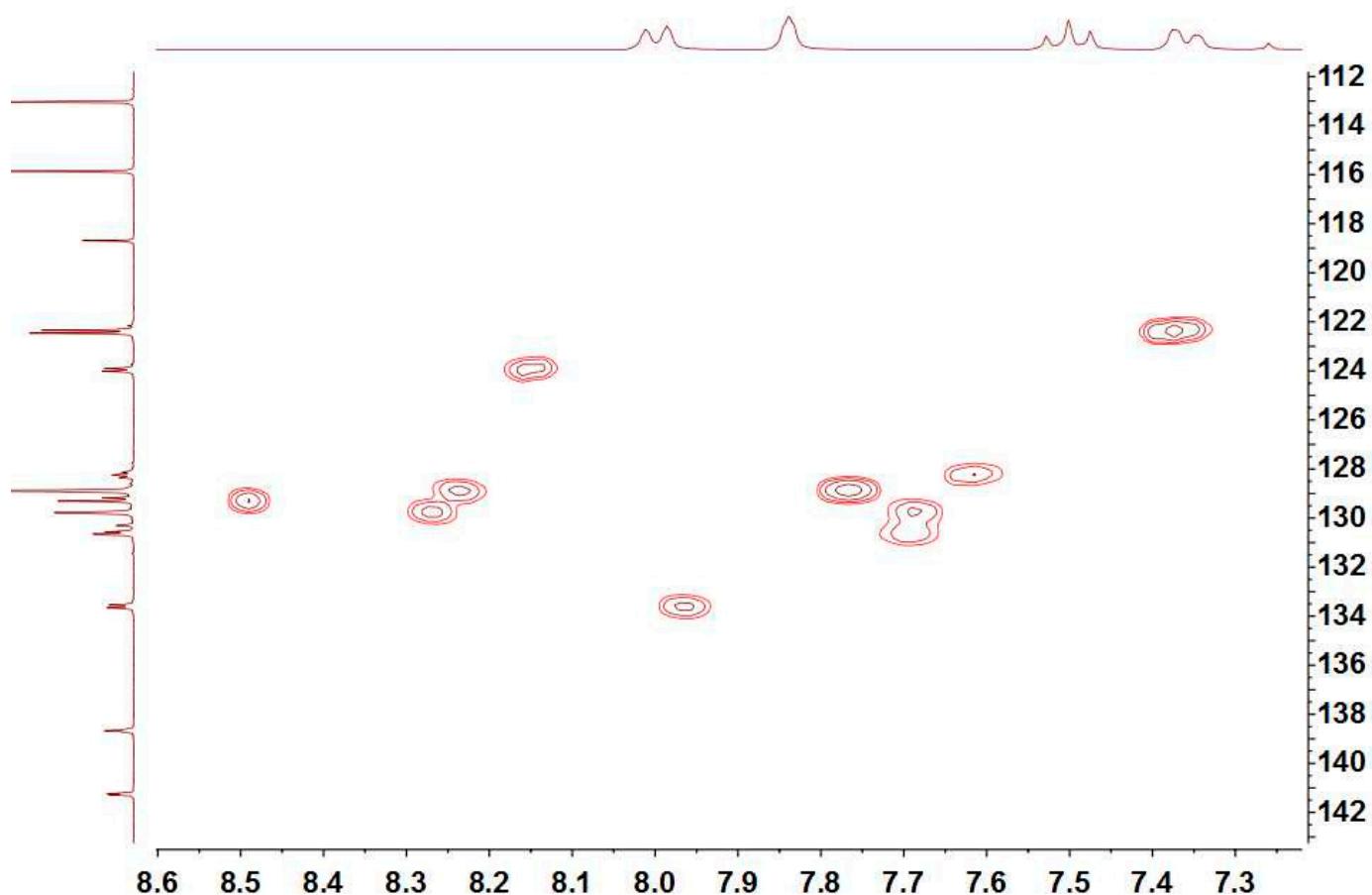
**Figure S2.** COSY 2D  $^1\text{H}$ - $^1\text{H}$  spectrum of 3ABCA recorded in a mixture  $\text{CDCl}_3:\text{CF}_3\text{COOH}$ .



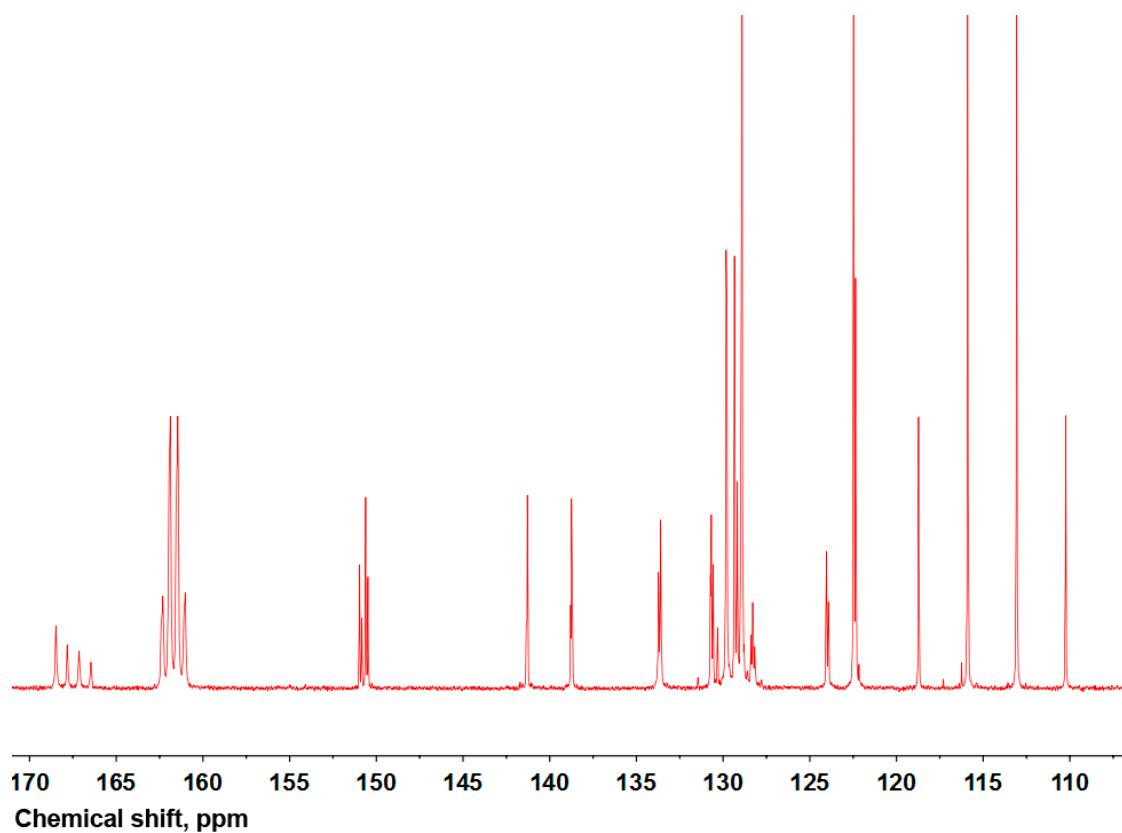
**Figure S3.** HSQC 2D  $^1\text{H}$ - $^{13}\text{C}$  spectrum of 3ABCA recorded in a mixture  $\text{CDCl}_3:\text{CF}_3\text{COOH}$ .



**Figure S4.** COSY 2D  $^1\text{H}$ - $^1\text{H}$  spectrum of BP50 recorded in a mixture  $\text{CDCl}_3:\text{CF}_3\text{COOH}$ .



**Figure S5.** HSQC 2D <sup>1</sup>H-<sup>13</sup>C spectrum of BP50 recorded in a mixture CDCl<sub>3</sub>:CF<sub>3</sub>COOH.



**Figure S6.**  $^{13}\text{C}$  spectrum of BP60 recorded in a mixture  $\text{CDCl}_3:\text{CF}_3\text{COOH}$ .

**Table S1.** Signals in  $^{13}\text{C}$  spectra of BP50 and BP60 copolymers and their assignment.

BP50	BP60	Assignment	Position	
Chemical shift	Chemical shift			
168.31	168.42	4'3HBCA carbonyl	4'3HBCA-4'3HBCA dyad	
167.65	167.82	4'3HBCA carbonyl	4'3HBCA-3HBA dyad	
166.99	167.15	3HBA carbonyl	3HBA-4'3-HBCA dyad	
166.30	166.46	3HBA carbonyl	3HBA-3HBA dyad	
150.94	150.97	O-Ar (4'3HBCA - 4' and 3HBA -3)		
150.81	150.83			
150.60	150.62			
150.47	150.48			
141.29	141.34	Quaternary atoms		
141.24	141.28			
138.72	138.80			
138.67	138.74			
138.62	138.69			
133.66	133.72	4'3HBCA	4	
133.54	133.60	4'3HBCA	4	
130.68	130.73	3HBA	6	
130.64	130.68	3HBA	6	
130.56	130.58	3HBA	6	
130.30	130.32	3HBA	6	
129.80	129.83	4'3HBCA	2',6'	
129.76	129.79			
129.31	129.34			
129.18	129.18	3HBA - 2; 4'3HBCA -2',6'		
128.93	128.92			
128.35	128.40	3HBA	5	
128.24	128.29	3HBA	5	
128.13	128.18	3HBA	5	
124.02	124.04	3HBA	4	
123.90	123.92	3HBA	4	
122.47	122.48	4'3HBCA	3',5'	
122.35	122.36	4'3HBCA	3',5'	
118.70	118.72	Quaternary atoms		
115.87	115.90			
113.04	113.07			
110.21	110.24			