

Supplementary Information:

Transformation of CO₂ to polyureas with 3-Amino-1,2,4-triazole potassium as the solid base catalyst

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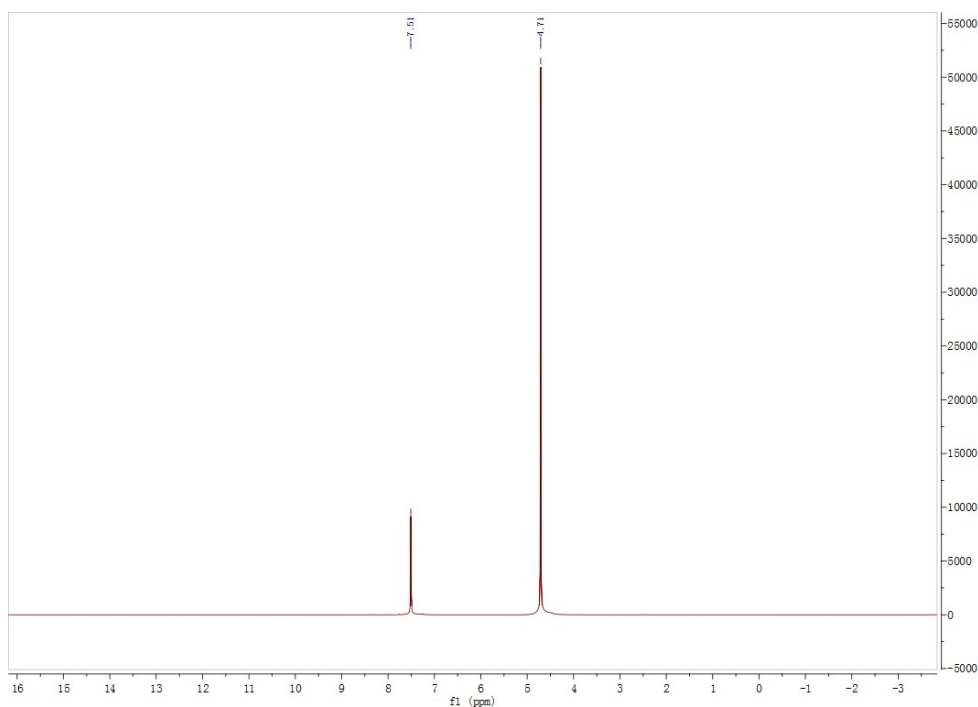


Fig. S1 ¹H NMR spectra of 3- amino-1,2,4 Triazole lithium salt.

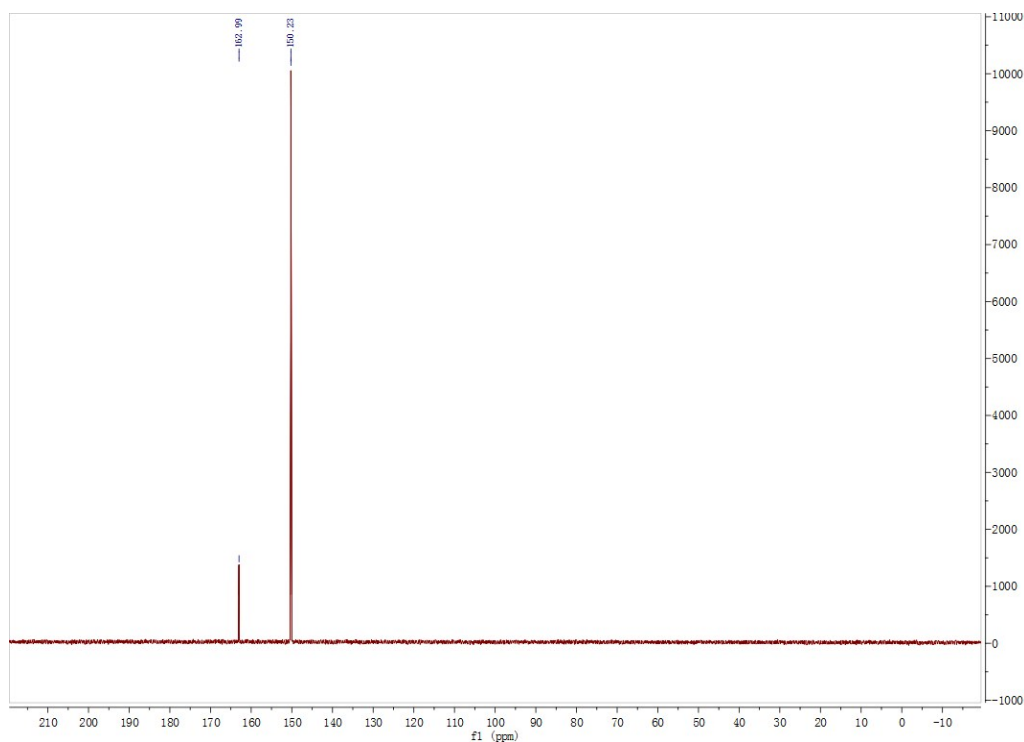


Fig. S2 ¹³C NMR spectra of 3- amino-1,2,4 Triazole lithium salt.

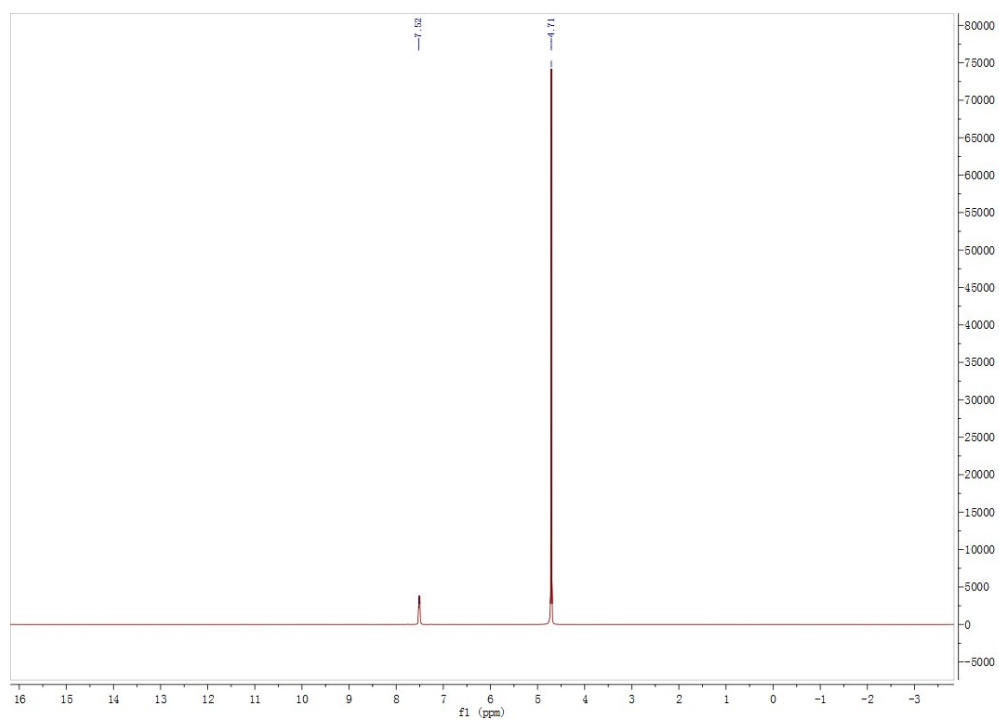


Fig. S3 ^1H NMR spectra of 3- amino-1,2,4 Triazole sodium salt.

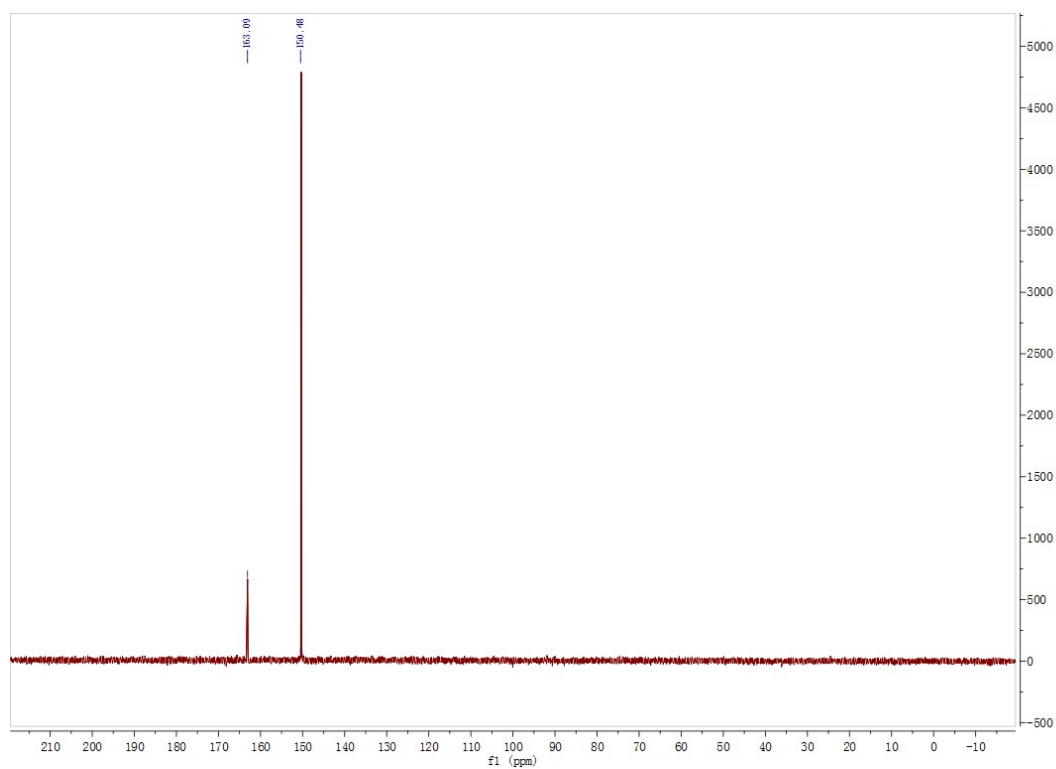


Fig. S4 ^{13}C NMR spectra of 3- amino-1,2,4 Triazole sodium salt.

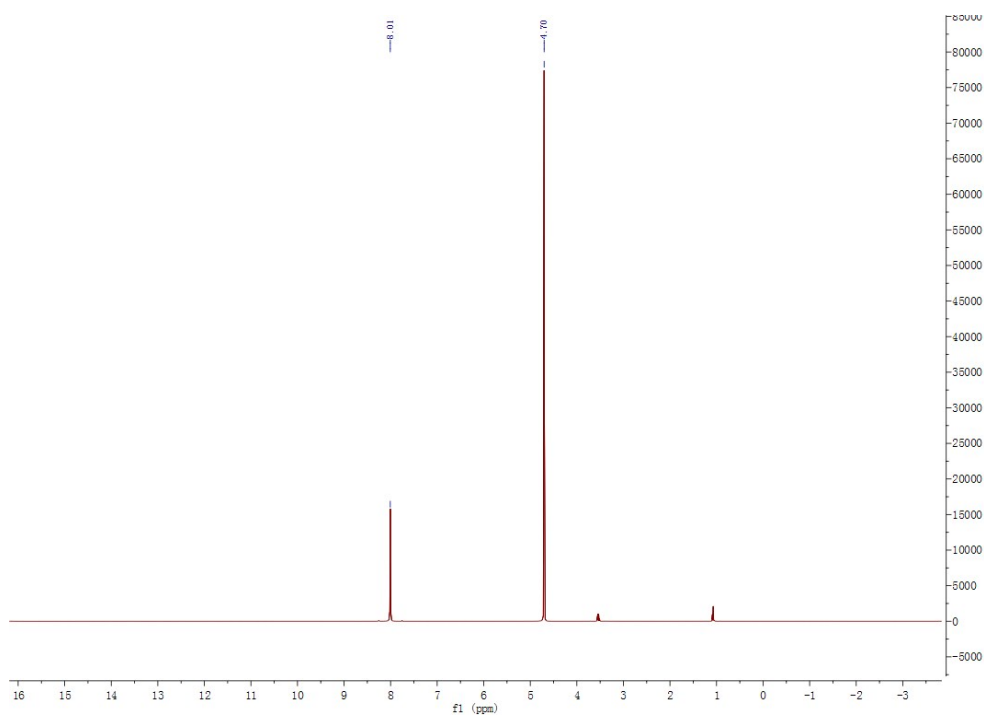


Fig. S5 ¹H NMR spectra of 3- amino-1,2,4-Triazole potassium salt.

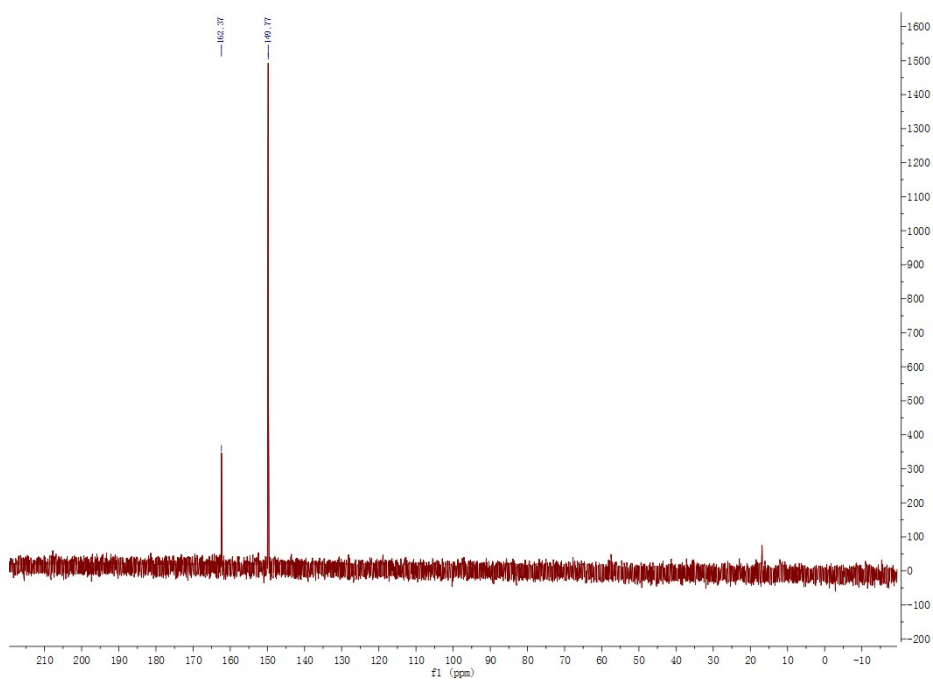


Fig. S6 ¹³C NMR spectra of 3- amino-1,2,4 Triazole potassium salt.

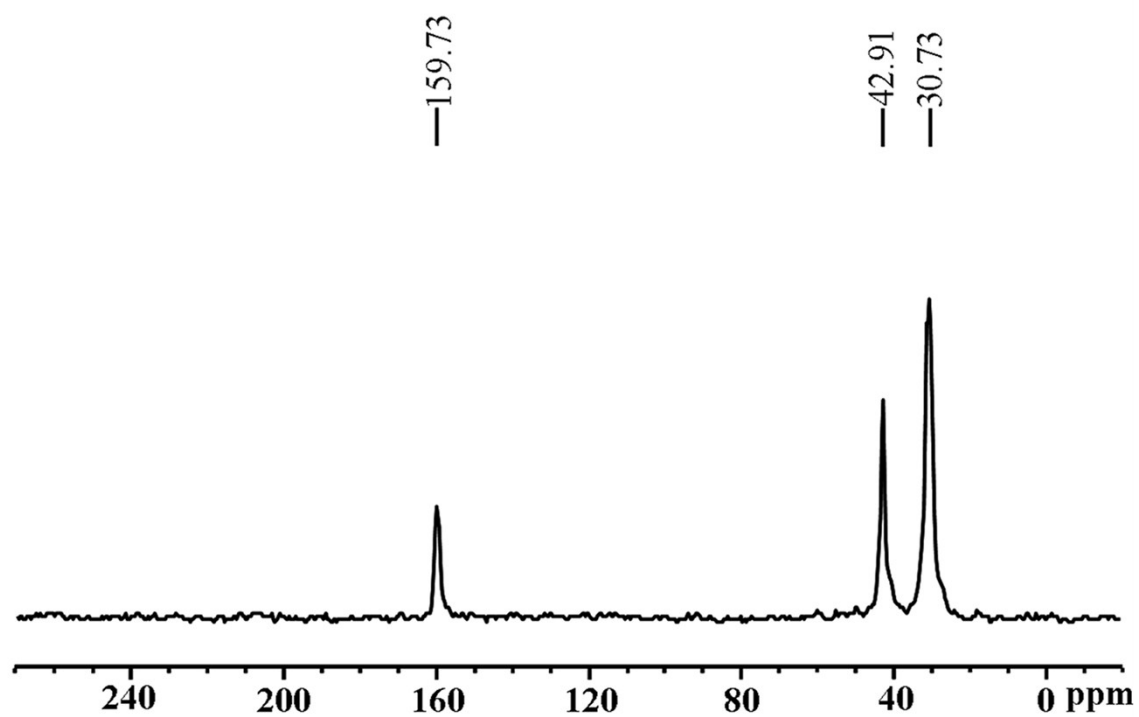
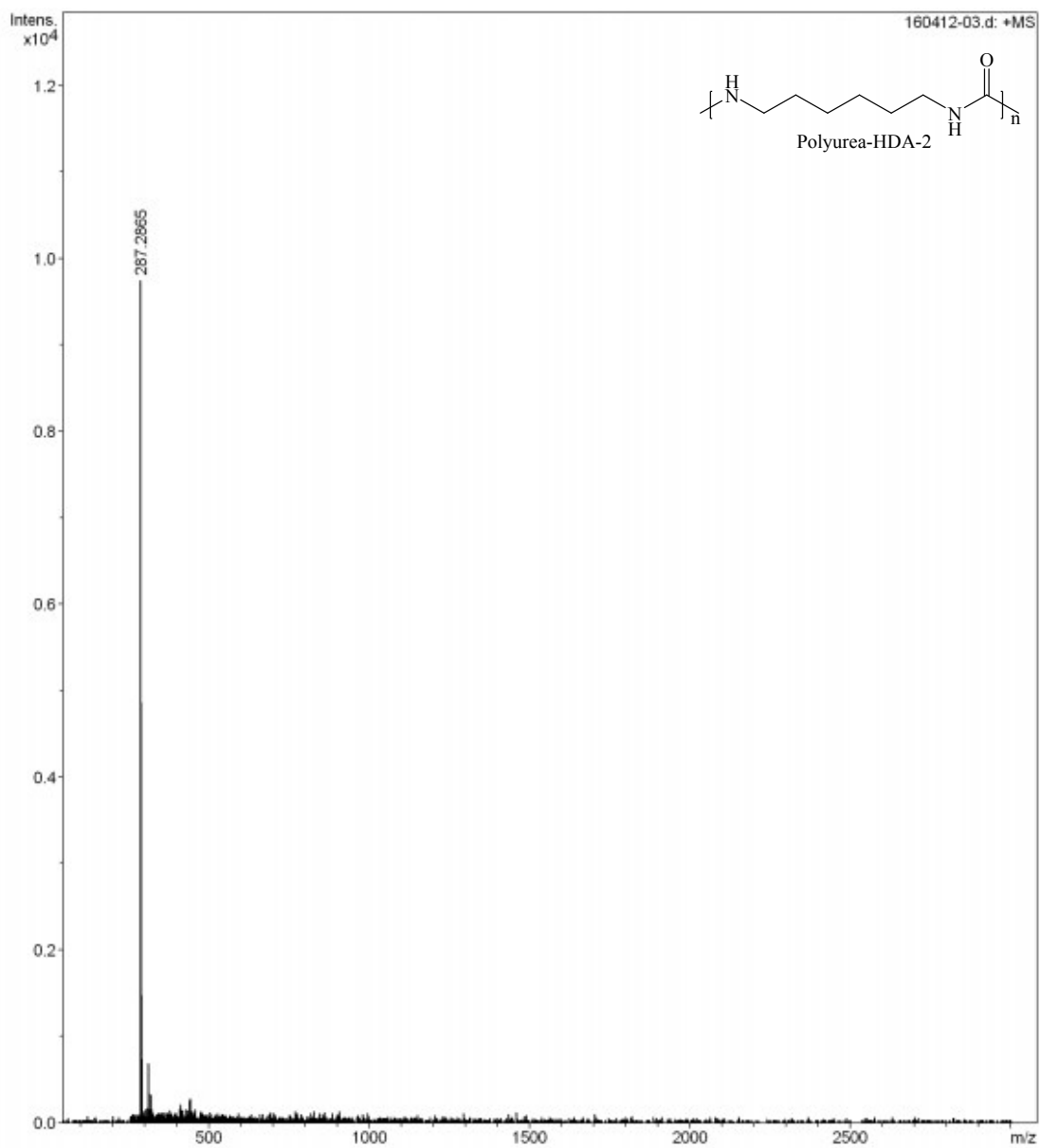
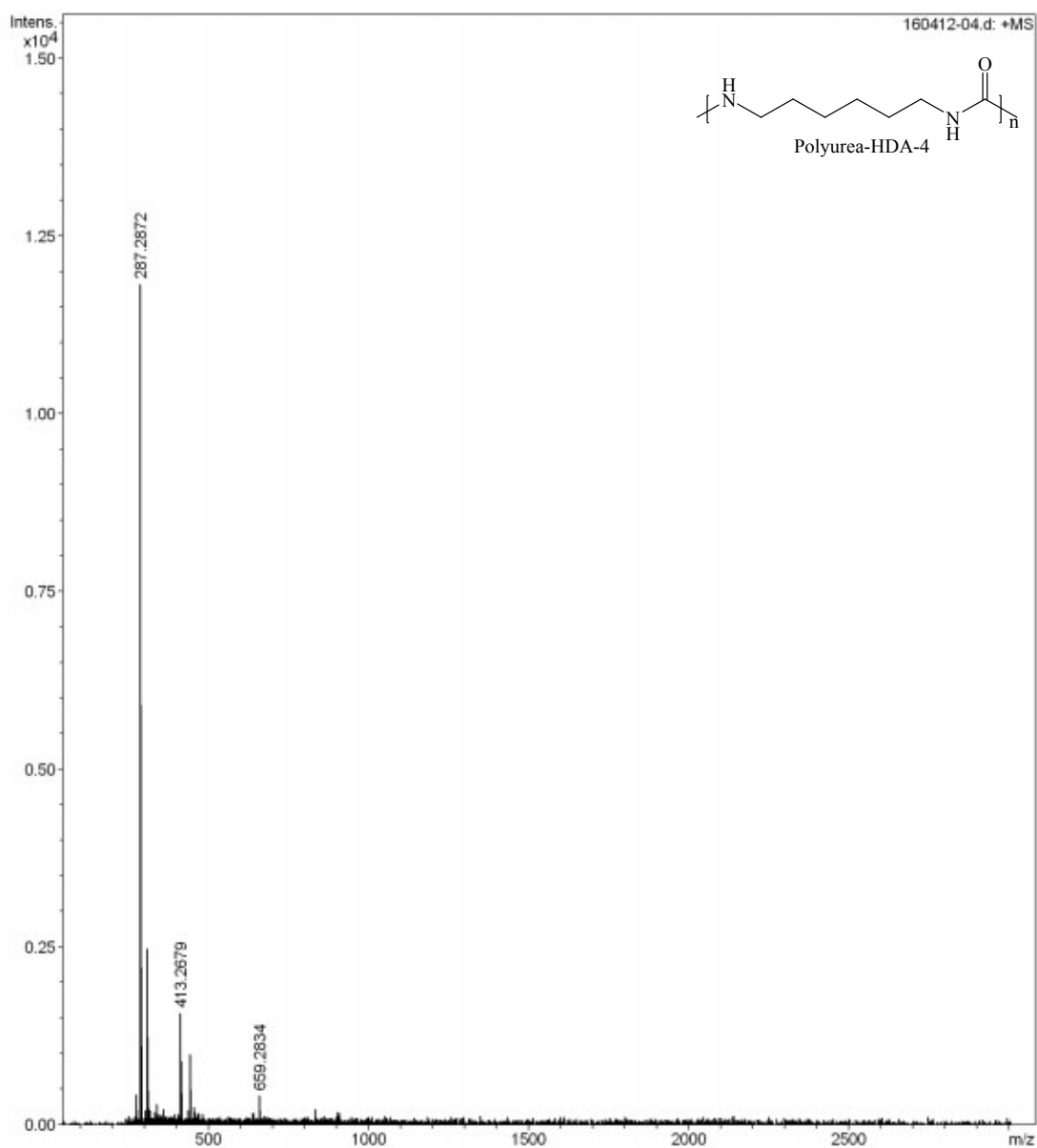
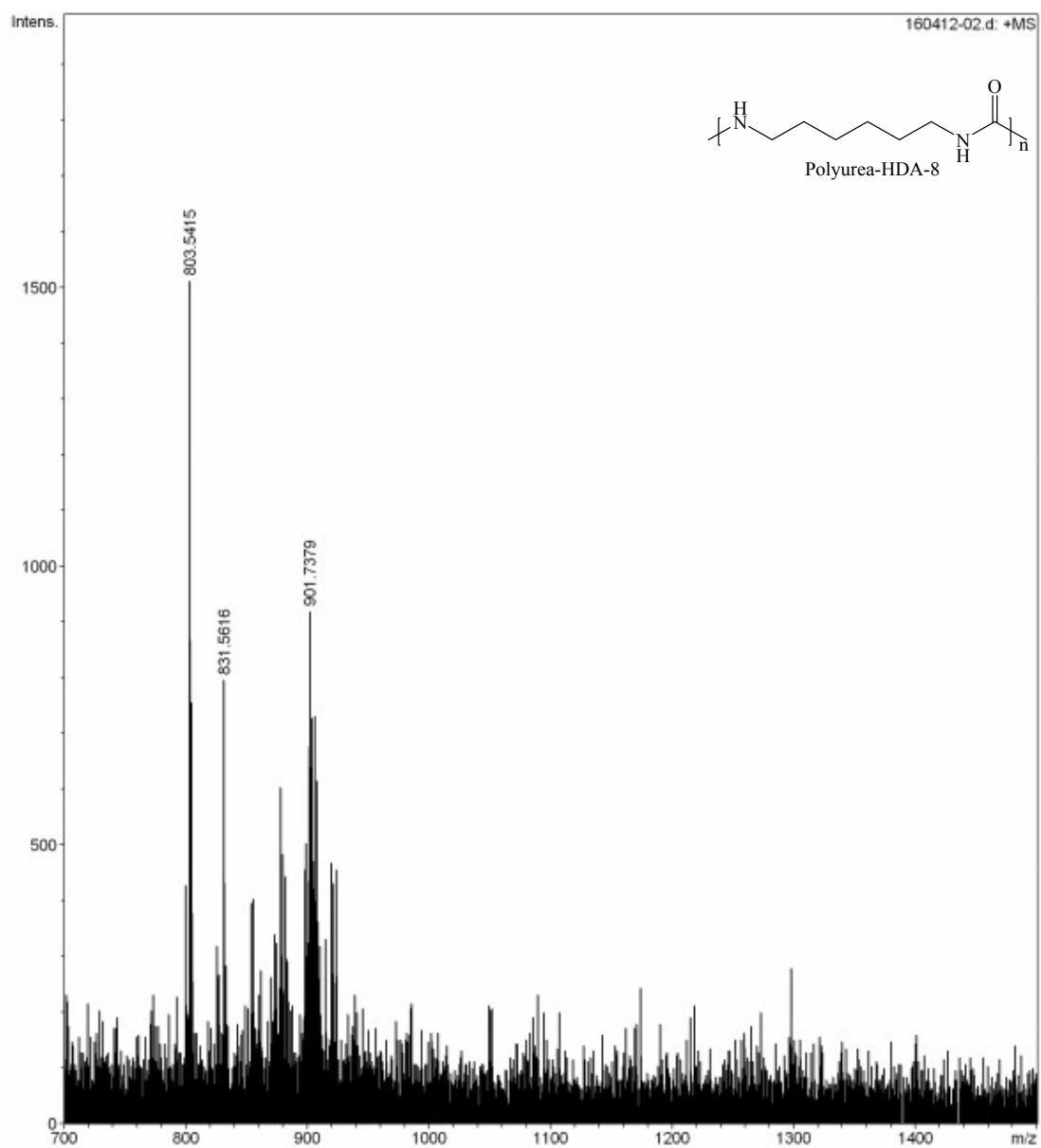
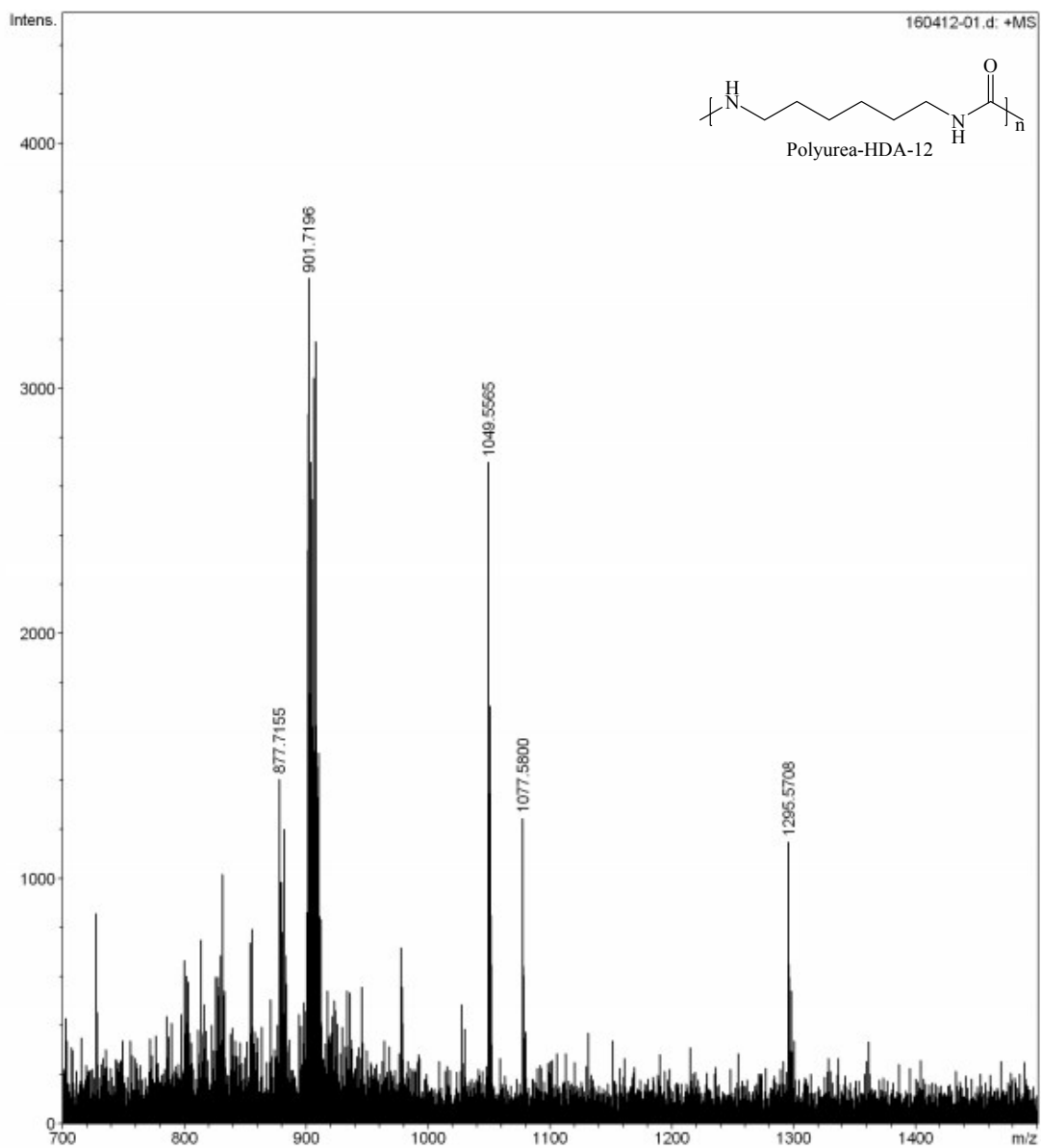


Fig. S7 CP/MAS ^{13}C NMR spectrum of the solid product of the reaction of HDA with CO_2









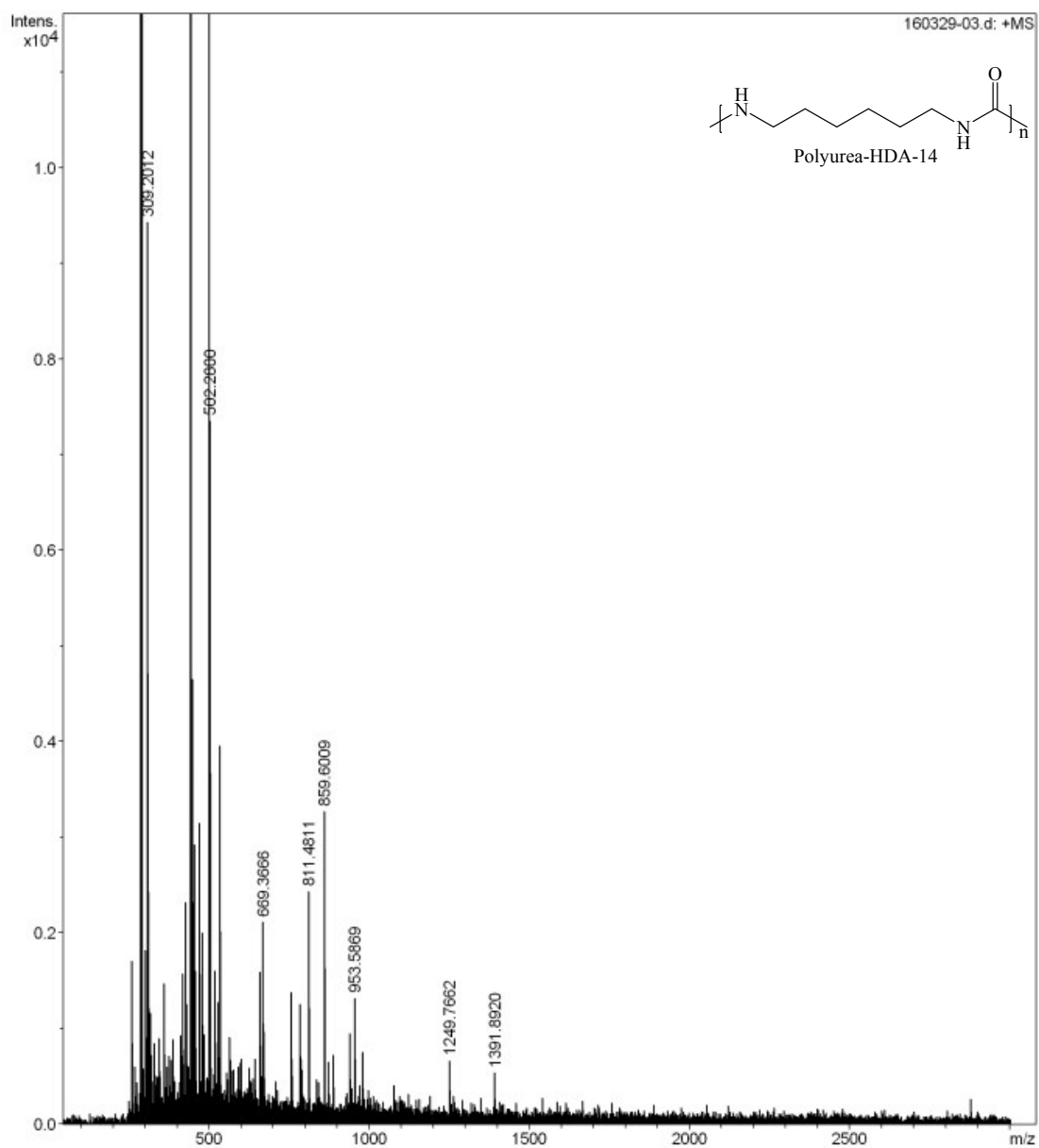


Figure S8. The HRMS spectra of polyurea-HDA-X (X = 2,4,8,12,16, which represents the reaction time of polyurea-HDA preparation) collected by a Bruker microTOF Q II

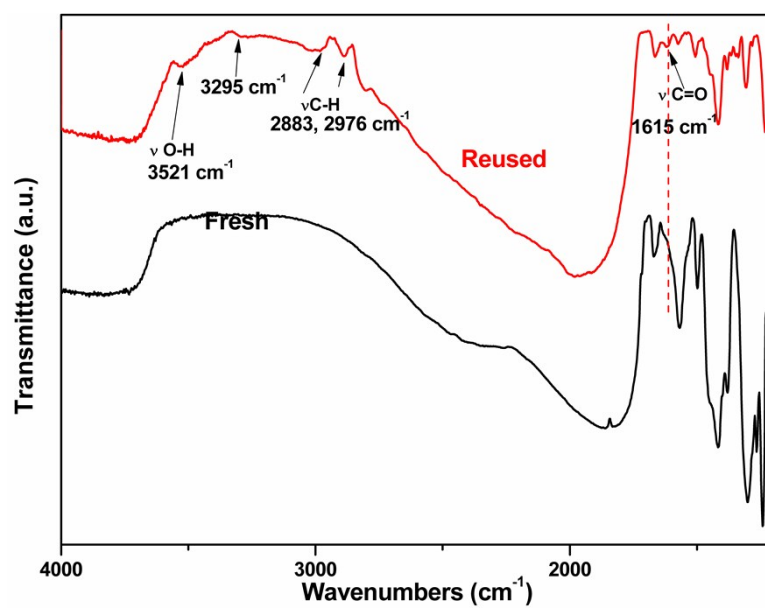


Fig. S9 IR of the KATriz salts before and after use.