

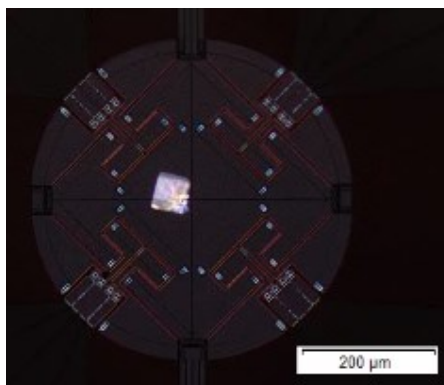
## *Supporting Information*

# Solid-state polymerization of a novel cyanate ester based on 4-*tert*-butylcalix[6]arene

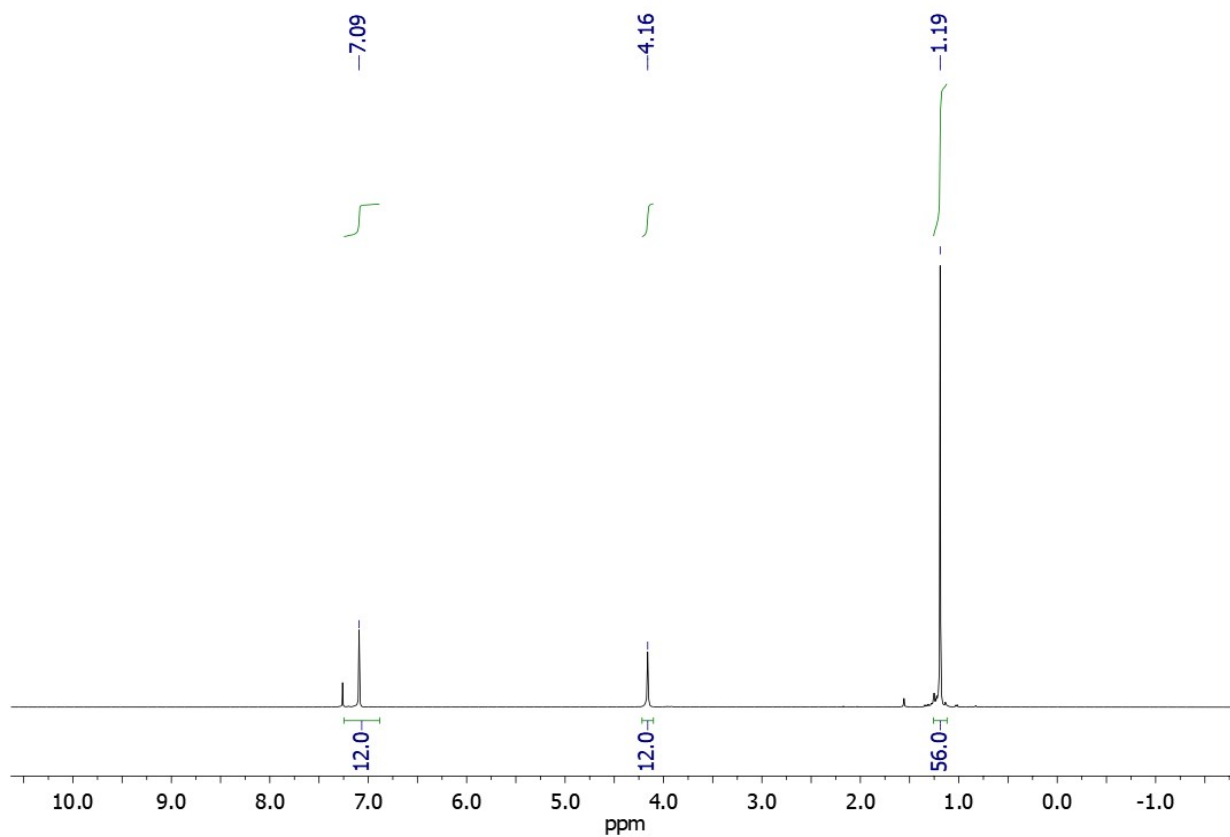
*Andrey Galukhin,<sup>1\*</sup> Ilya Nikolaev,<sup>1</sup> Roman Nosov,<sup>1</sup> Sergey Vyazovkin<sup>1,2\*</sup>*

<sup>1</sup>Alexander Butlerov Institute of Chemistry, Kazan Federal University, 18 Kremlevskaya Street,  
Kazan 420008, Russian Federation

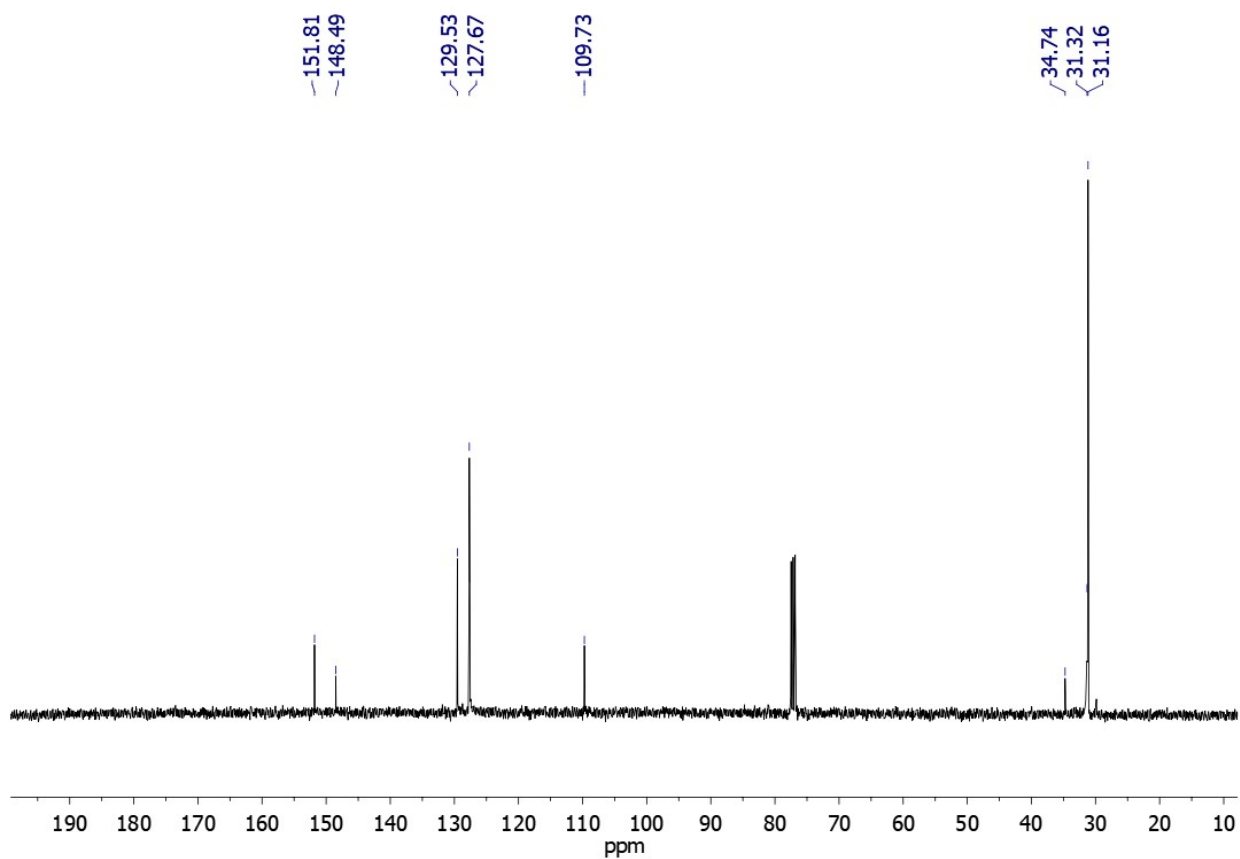
<sup>2</sup>Department of Chemistry, University of Alabama at Birmingham, 901 S. 14th Street,  
Birmingham, AL 35294



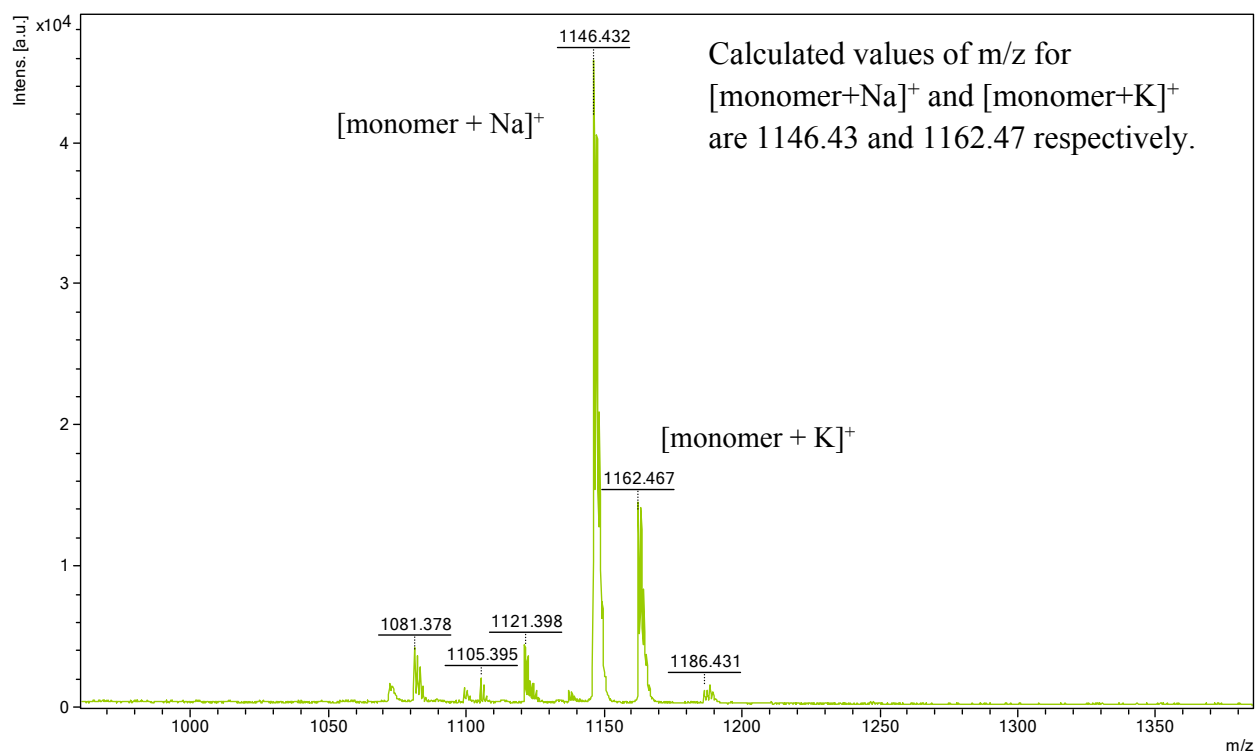
**Figure S1.** Single crystal of cyanate ester monomer placed on surface of MultiSTAR UFS 1 MEMS chip sensor in polarized light.



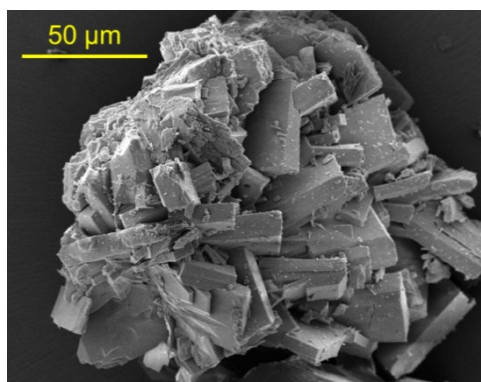
**Figure S2.** NMR <sup>1</sup>H spectrum of cyanate ester monomer.



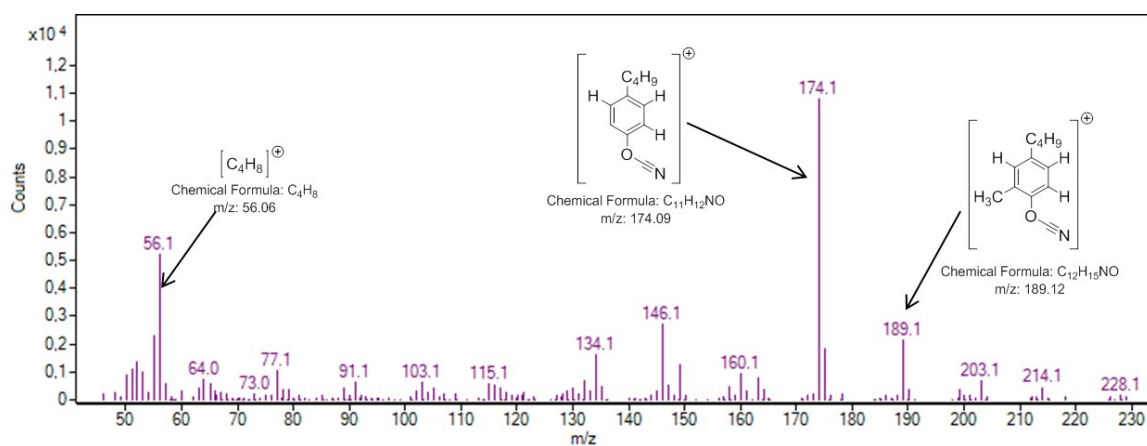
**Figure S3.** NMR  $^{13}\text{C}$  spectrum of cyanate ester monomer.



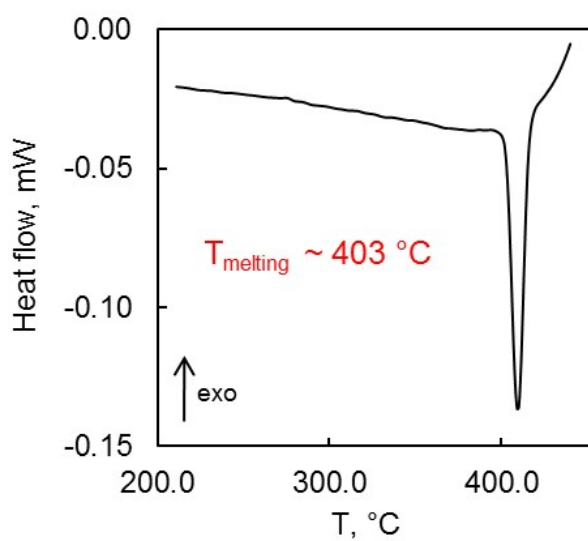
**Figure S4.** MALDI mass spectrum of cyanate ester monomer.



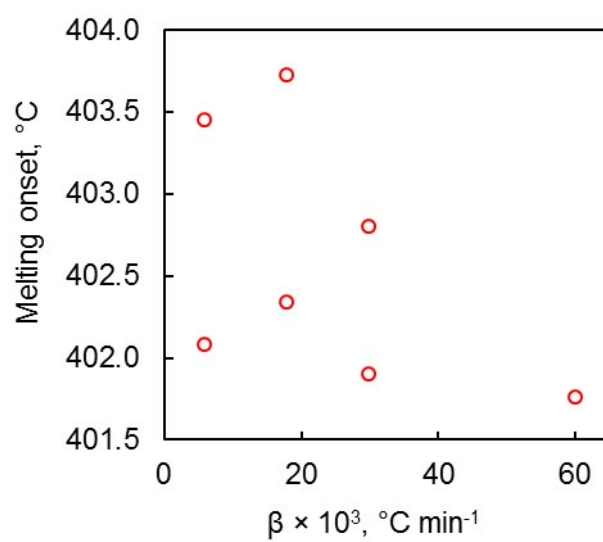
**Figure S5.** SEM image of cyanate ester monomer aggregated crystals.



**Figure S6.** Mass-spectrum of gas mixture evolved during polymerization of cyanate ester monomer.



**Figure S7.** FSC curve of the cyanate ester monomer melting obtained at  $6\,000^{\circ}C\,min^{-1}$ .



**Figure S8.** Variation of melting onset temperatures of cyanate ester monomer with heating rates.