

## Supplementary Information

### Heterogeneous Translational Dynamics of Succinonitrile in the Plastic Crystalline Phase

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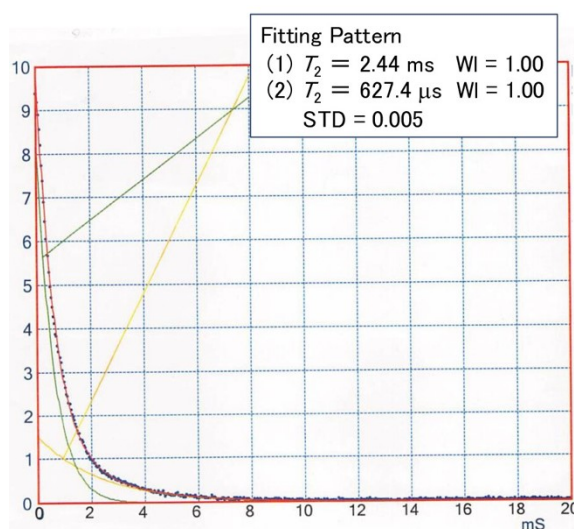
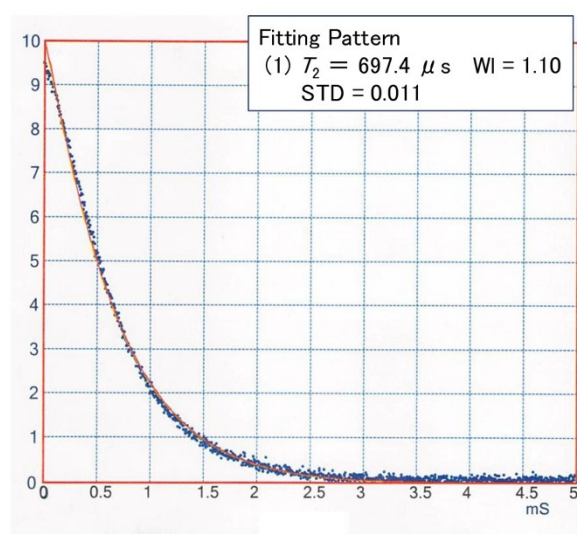
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**Figure SI-1** The free induction decay (FID) signal of <sup>1</sup>H-NMR for succinonitrile.

(a) Experimental data (blue dots) at 290 K and simulated curve (red curve) obtained under the 1-component assumption. (b) Experimental data (blue dots) at 320 K and simulated curves (green and dark yellow) obtained under 2-component assumption. The sum of these two curves is shown in red. The green and dark yellow curves correspond to the hard and soft components, respectively.

(a)



(b)