

Supplementary Material

for the article

Relative Cation-Anion Diffusion in Alkyltriethylammonium-based Ionic Liquids

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Examples of ¹⁹F magnetisation versus time for a series of ionic liquids: [TEA-C8][TFSI], [TEA-C10][TFSI], [TEA-C12][TFSI], [TEA-C14][TFSI] and [TEA-C16][TFSI], respectively.

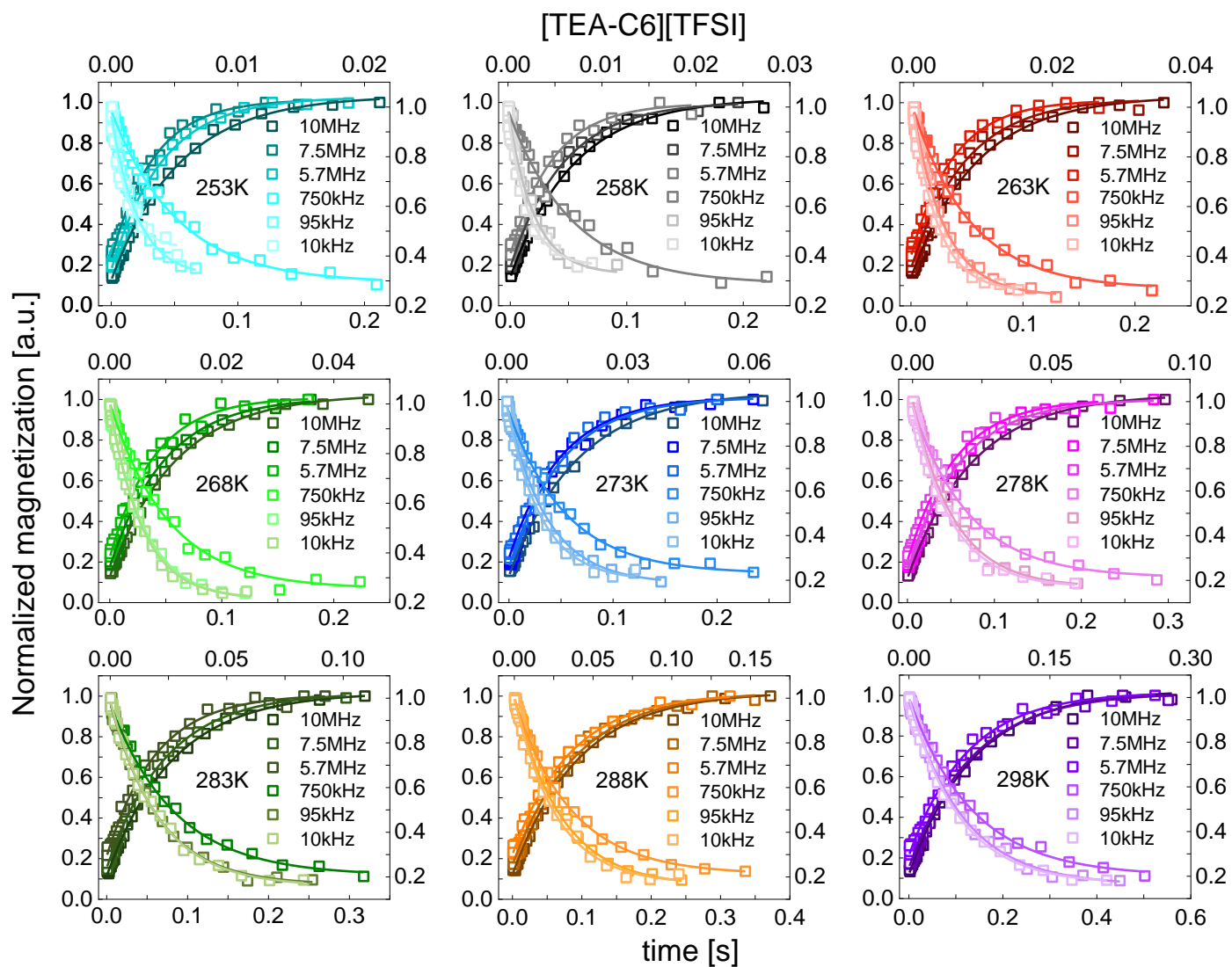


Figure S1. ^{19}F magnetization curves for [TEA-C6][TFSI]. Solid lines denote single exponential fits. Bottom x and left y – 10MHz, 7.5MHz, 5.7MHz top x right y -750kHz, 95kHz, 10kHz.

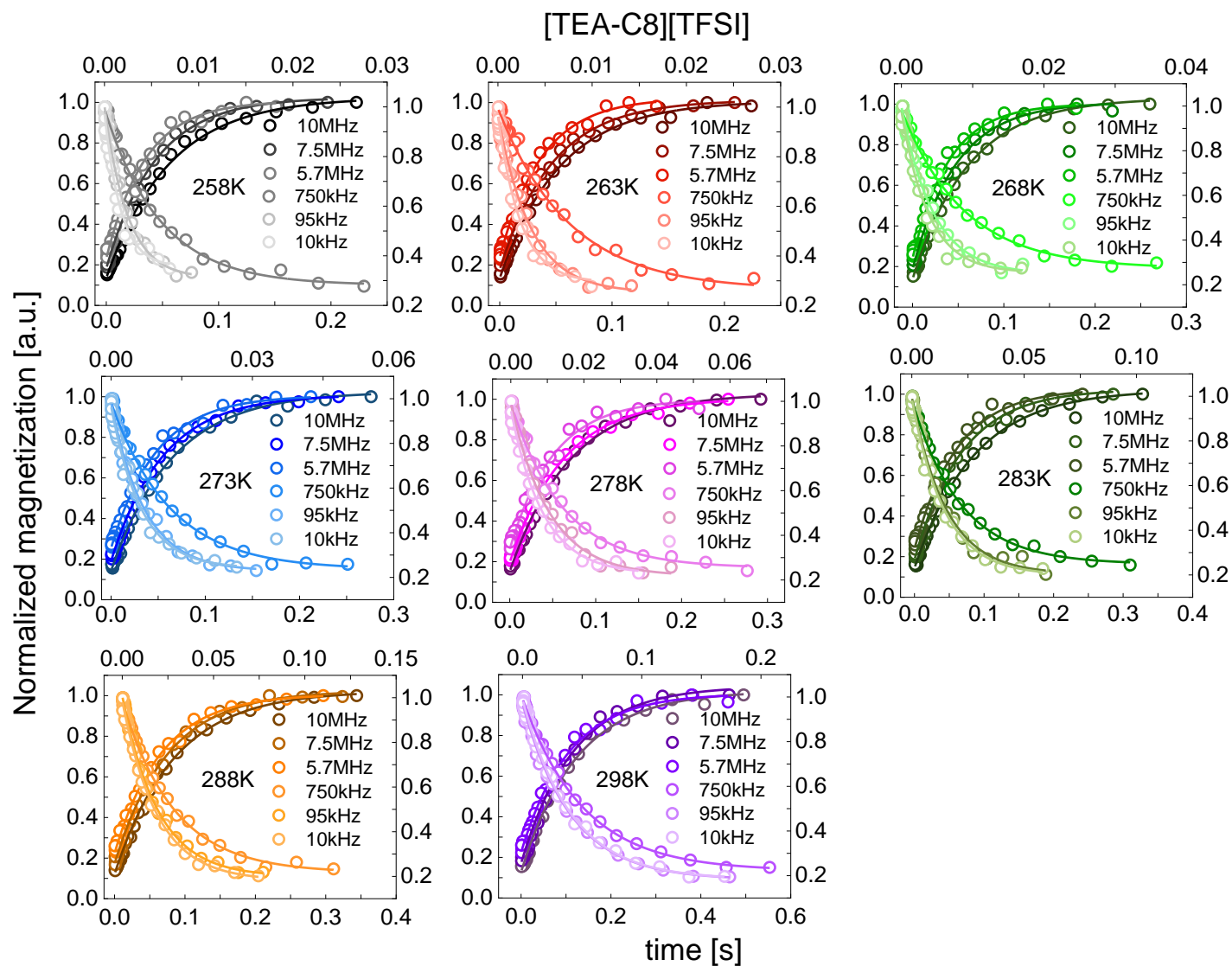


Figure S2. ^{19}F magnetization curves for [TEA-C8] [TFSI]. Solid lines denote single exponential fits. Bottom x and left y – 10MHz, 7.5MHz, 5.7MHz top x right y -750kHz, 95kHz, 10kHz.

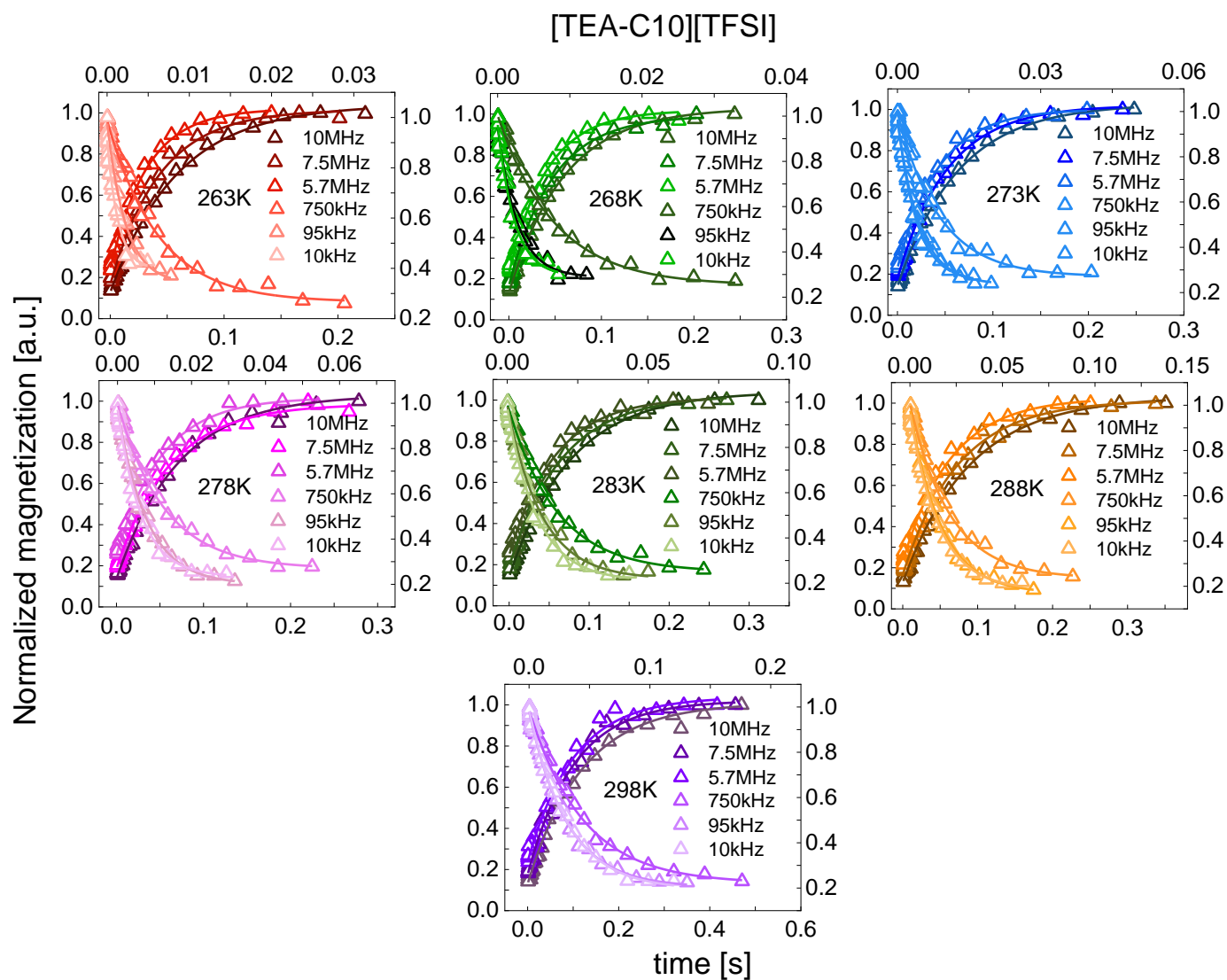


Figure S3.¹⁹F magnetization curves for [TEA-C10] [TFSI]. Solid lines denote single exponential fits. Bottom x and left y – 10MHz, 7.5MHz, 5.7MHz top x right y -750kHz, 95kHz, 10kHz.

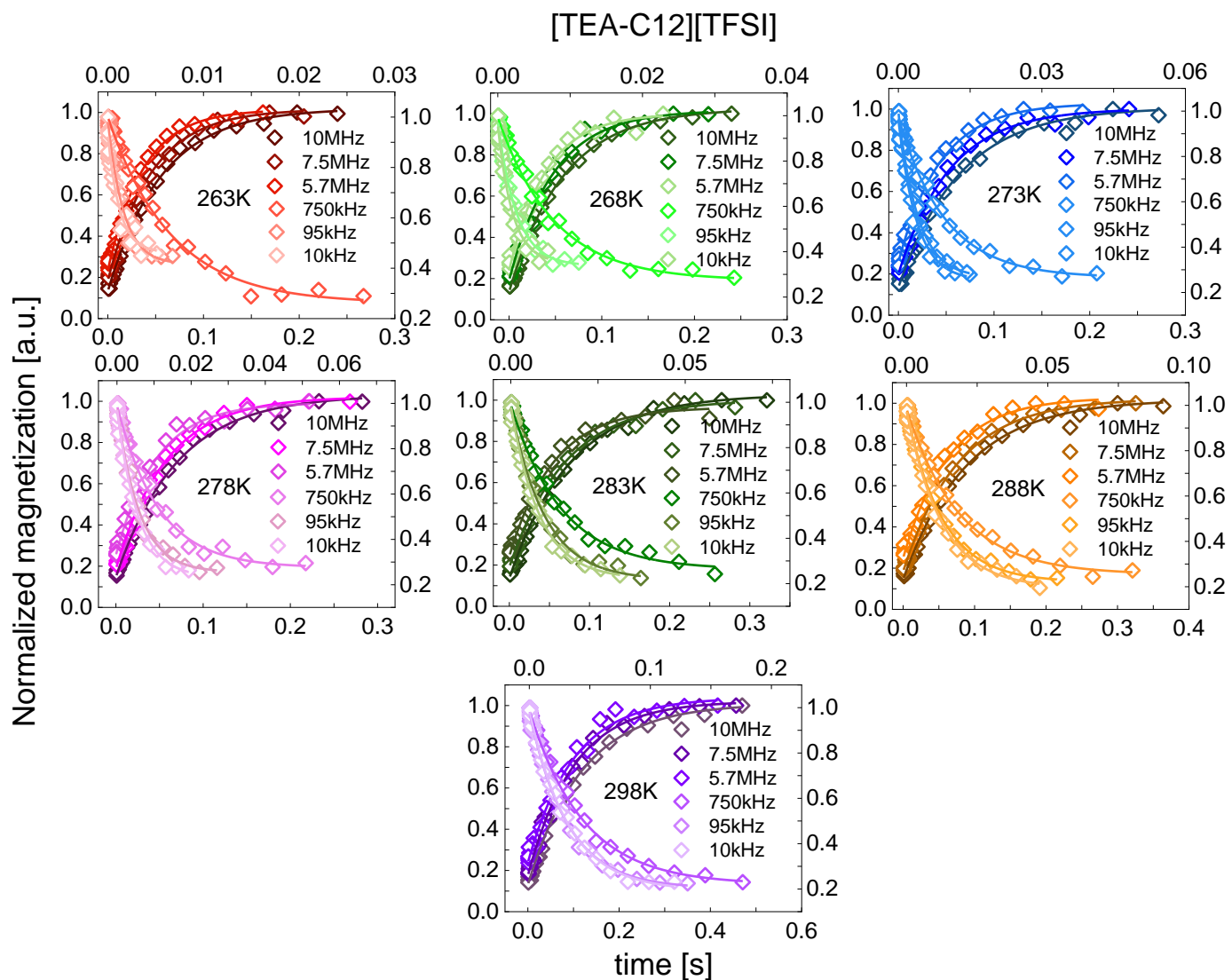


Figure S4. ^{19}F magnetization curves for [TEA-C12] [TFSI]. Solid lines denote single exponential fits. Bottom x and left y – 10MHz, 7.5MHz, 5.7MHz top x right y -750kHz, 95kHz, 10kHz.

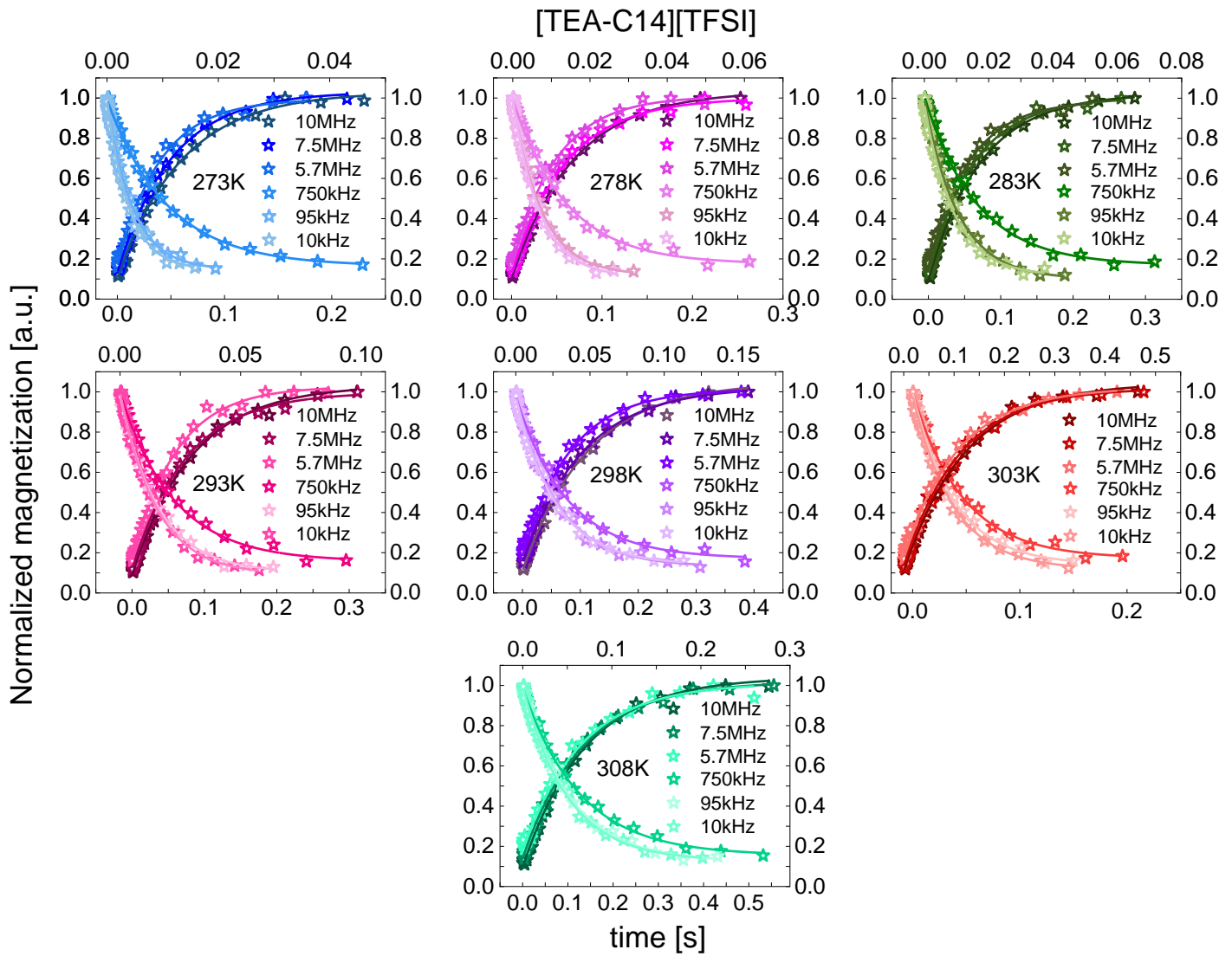


Figure S5. ^{19}F magnetization curves for [TEA-C14] [TFSI]. Solid lines denote single exponential fits. Bottom x and left y – 10MHz, 7.5MHz, 5.7MHz top x right y -750kHz, 95kHz, 10kHz.

[TEA-C16][TFSI]

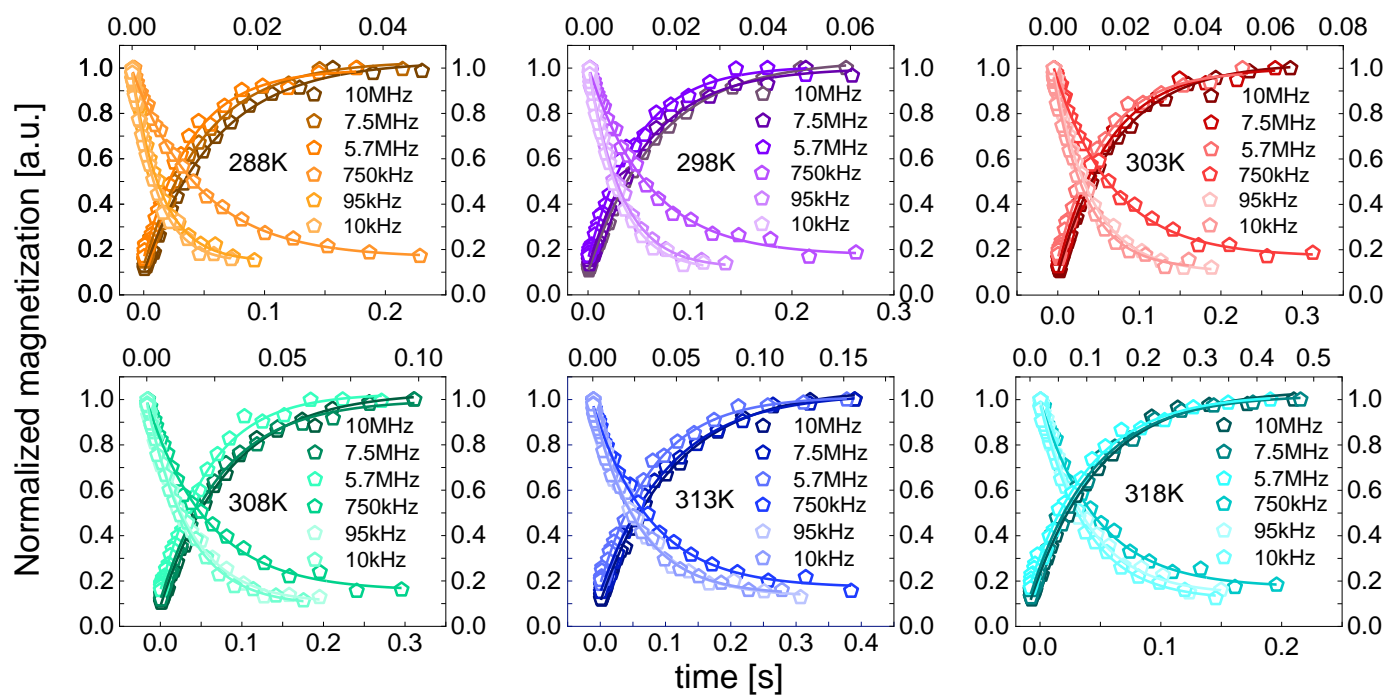


Figure S6. ^{19}F magnetization curves for [TEA-C16] [TFSI]. Solid lines denote single exponential fits. Bottom x and left y – 10MHz, 7.5MHz, 5.7MHz top x right y -750kHz, 95kHz. 10kHz.