Supplementary Information

Quantitative analysis of direct oral anticoagulant rivaroxaban by terahertz spectroscopy

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**Acronyms list**

TD: thrombosis disease  
LC-MS/MS: liquid chromatography-tandem mass spectrometry  
THz: terahertz  
DFT: density functional theory  
HDPE: high-density polyethylene powder  
DMSO: dimethyl sulfoxide  
FTIR: Fourier transform infrared spectrophotometer  
w: wagging  
r: rocking  
tw: twisting  
Ph: benzene ring (phenyl group)  
LoD: lowest detection limit  
PT: prothrombin time  
INR: international normalized ratio

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**Fig. S1.** Molecular motion of rivaroxaban, corresponding to the experimental THz peak at 2.17 THz