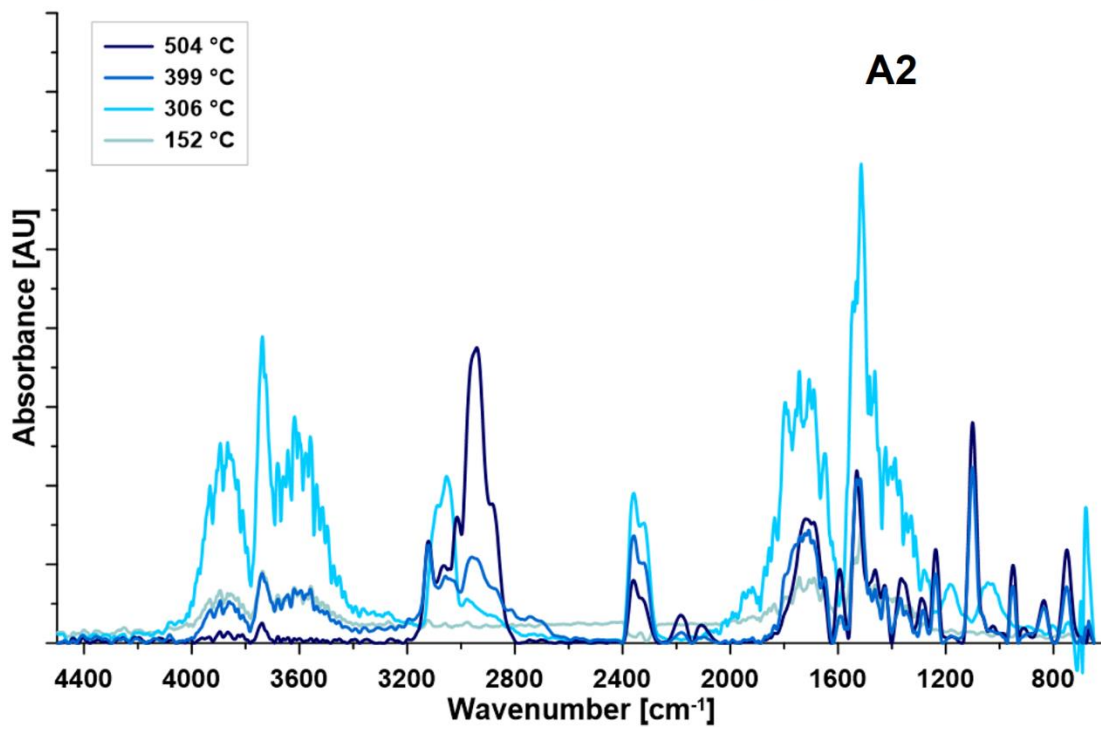
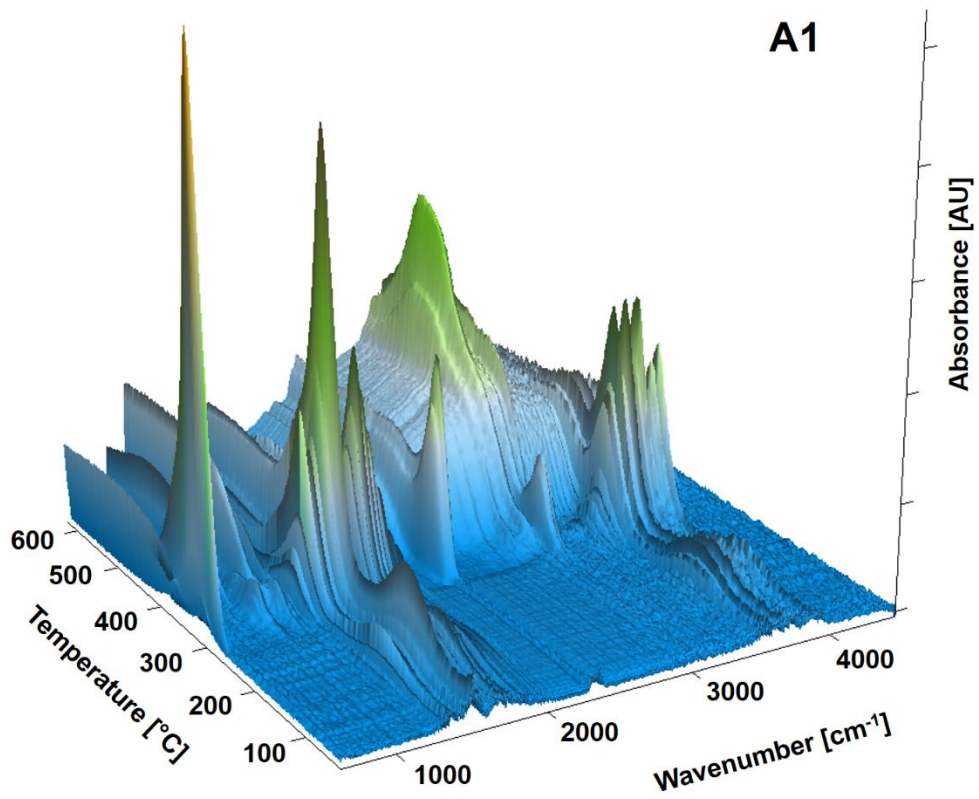


## **Supporting information**

### **The impact of reactive ionic liquids addition on the physicochemical and sorption properties of poly(vinyl alcohol)-based films**

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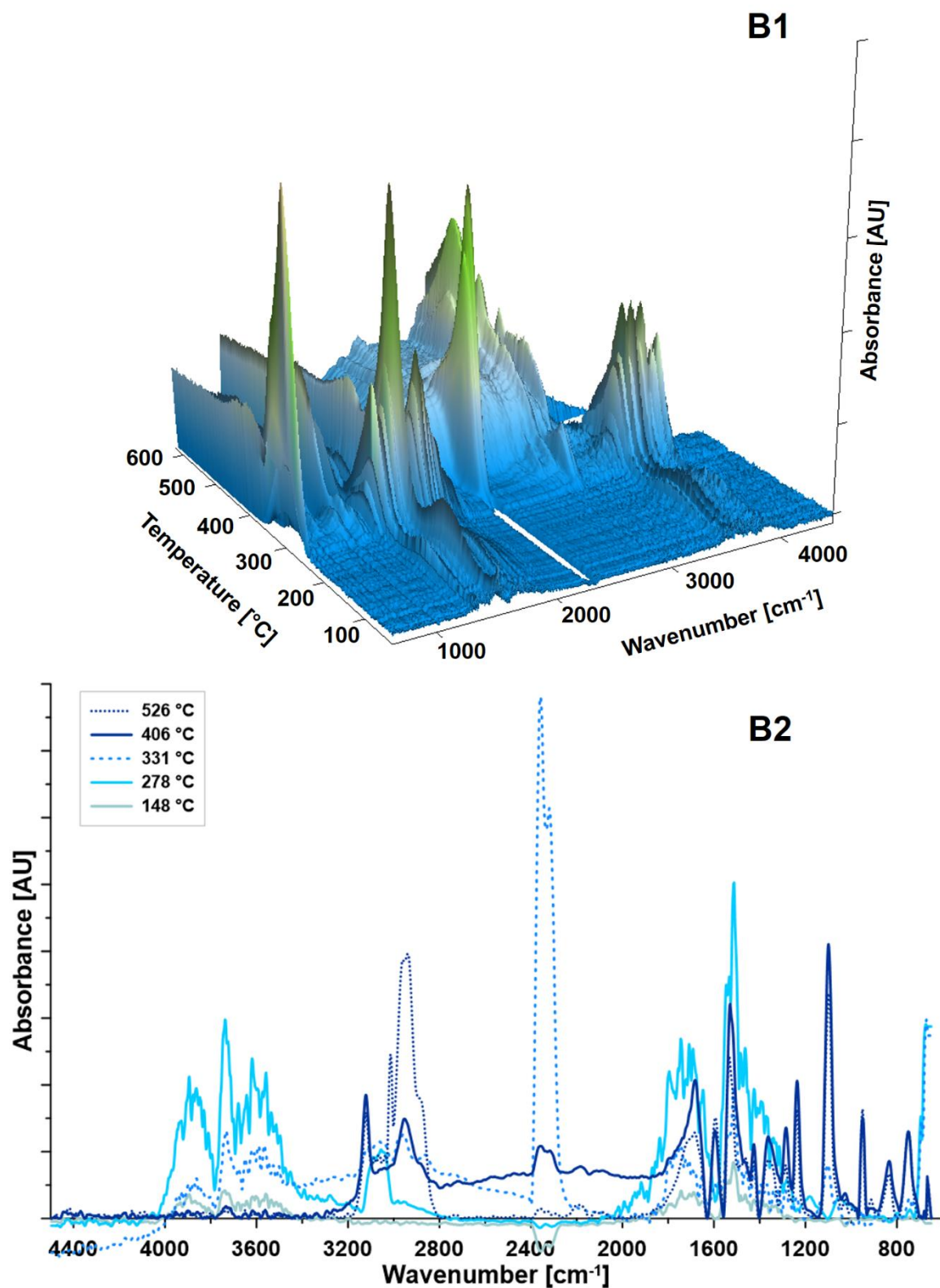


Figure S1. PVA-16.7-RIL2\_Br - A1 – 3D plot of IR spectra register during the TGA analysis, A2 – IR spectra at selected temperatures; PVA-23-RIL2\_Br - B1 – 3D plot of IR spectra register during the TGA analysis, B2 – IR spectra at selected temperatures.

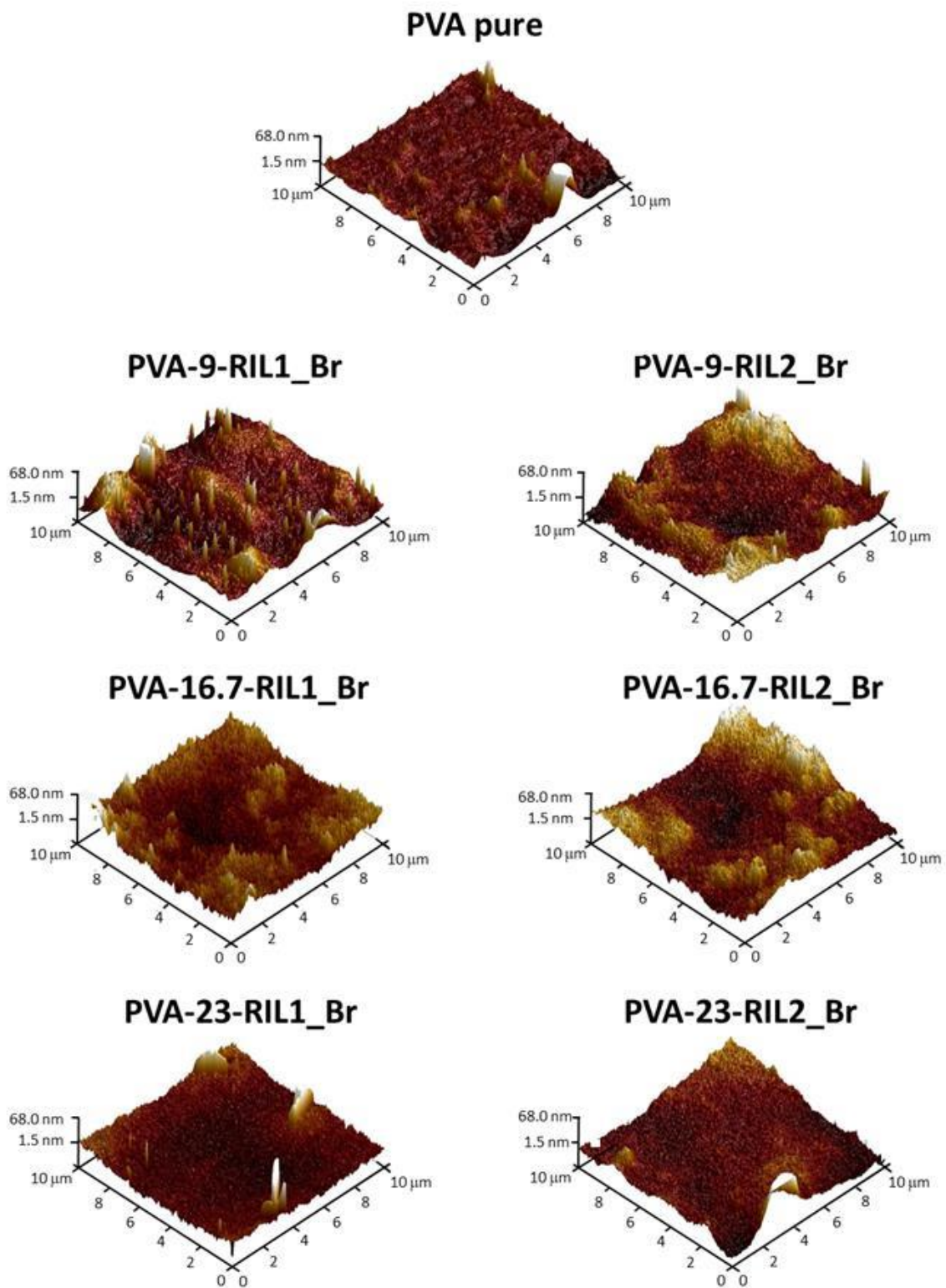


Figure S2. 3D surface profile of pristine PVA and PVA-based membranes blended with RIL1\_Br and RIL2\_Br at different concentrations.