Supplementary material

Optimal estimation retrieval of tropospheric ammonia from the Geostationary Interferometric Infrared Sounder onboard FengYun-4B

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Figure S1. Histograms of (a) the reduced $\chi^2$ and (b) RMSE of the fitting residual for micro-window #1 (920-940 cm⁻¹) and micro-window #2 (955-975 cm⁻¹), respectively.
Figure S2. Spatial maps of TC averaged for July (summer), October (autumn), and December (winter), respectively, using 2-3h, 8-9h, 14-15h, and 20-21h in Beijing Time (BJT) to represent mid-night, early morning, afternoon, and early evening, respectively. Retrieval results using micro-window #2 (955-975 cm$^{-1}$) are used.