

Supplement of Atmos. Chem. Phys., 20, 14103–14122, 2020
<https://doi.org/10.5194/acp-20-14103-2020-supplement>
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Supplement of

**Hygroscopic behavior of aerosols generated from solutions of
3-methyl-1,2,3-butanetricarboxylic acid, its sodium salts,
and its mixtures with NaCl**

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Figure S1. (a) The levitation experimental set up showing the coupling between the levitation cell and the Raman microspectrometer – The levitation cell was mounted on the XY stage and connected to the inlet and outlet for controlling RH – (b) A levitated particle exposed to green radiation (green point) through the objective with the collection of Raman backscattering signal using the same objective.

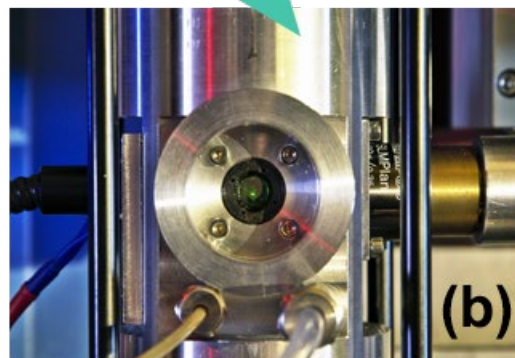
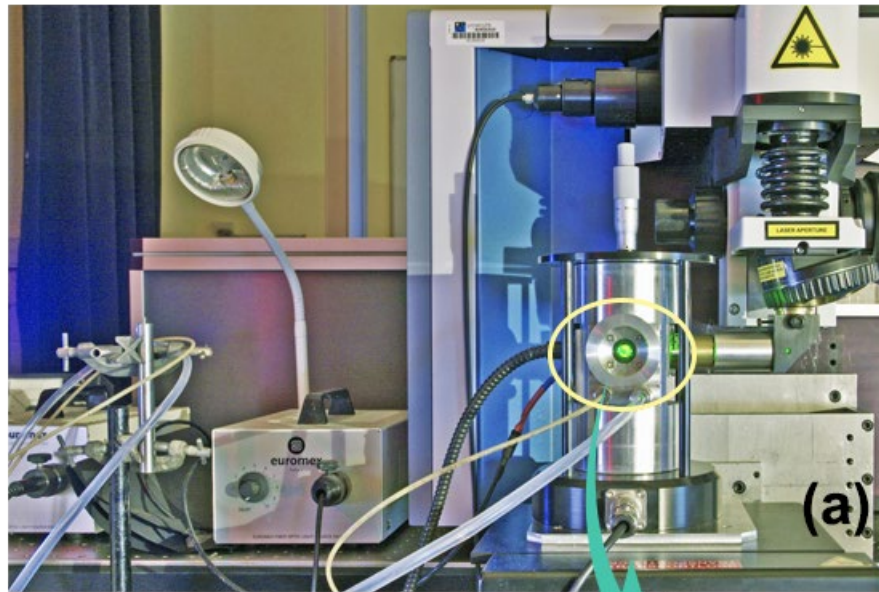


Figure S2. Hygroscopic curve of a pure NaCl particle. The transition RHs recorded during humidification and dehydration processes are marked with arrows in the hygroscopic curve.

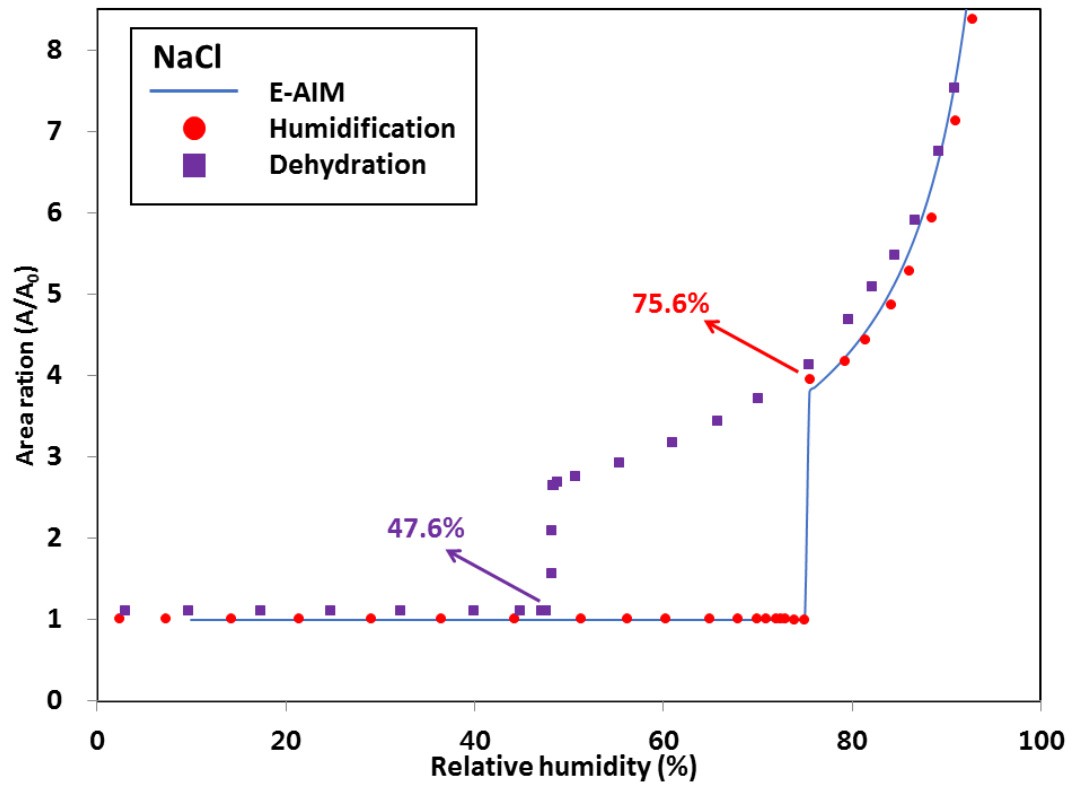


Figure S3. Comparison of Raman spectra of an exemplar particle (MBTCA:NaCl = 1:3) obtained at the center and edge of the particle before and after normalization to the CH peak at 1460 cm^{-1} during humidification (H) process at RH = 5.9% (end of dehydration) and RH = 73.8% (just before deliquescence).

