Atmospheric Chemistry and Physics Discussions

Atmos. Chem. Phys. Discuss., referee comment RC1
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Comment on acp-2022-676

Anonymous Referee #1

Referee comment on "Technical note: Chemical composition and source identification of fluorescent components in atmospheric water-soluble brown carbon by excitation–emission matrix spectroscopy with parallel factor analysis – potential limitations and applications" by Tao Cao et al., Atmos. Chem. Phys. Discuss., https://doi.org/10.5194/acp-2022-676-RC1, 2022

This manuscript investigated the EEM spectra of different types of strong light-absorbing organic compounds and water-soluble organic matter in different aerosol samples. The motivation is to broaden the application of the EEM-PARAFAC method to study atmospheric BrC. This manuscript is thoughtful and well-written. Below are some issues and comments for the authors to consider.

- Introduction: some more description of WSOC should be involved in the introduction.
- Line 83: In the water environment, we usually call WSOC as DOM.