Atmos. Meas. Tech. Discuss.,
doi:10.5194/amt-2018-332-RC1, 2019

Atmospheric Measurement Techniques Discussions

Interactive comment on "An open platform for Aerosol InfraRed Spectroscopy analysis – AIRSpec" *by* Matteo Reggente et al.

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Received and published: 2 January 2019

This paper outlines a new platform to study, develop and share chemometric analysis of functional groups for characterization of atmospheric aerosols from measured FTIR spectra. Three chemometric packages available in the software platform have been listed and detailed. Input and output formats have been listed. Examples of calibration and data analysis has been included in the paper. Overall, this paper describes a software platform where baseline correction of FTIR spectra involving aerosol in measurement path can be made, and functional groups of the particulate matter can be identified. More chemometric analysis can be incorporated by the user. The software package and analysis method followed have been well established and such a comprehensive platform is much desired. The article fits well for publication in AMT

considering the intended audience. It is recommended that the article be accepted for publication. Editorial comments: The article is very well written. Although a couple of typographical errors were noticed. For example: In Section 4. Summary and future development: line 1 "for" is not necessary. "FTIR spectroscopy for is a useful tool for obtaining chemical composition of atmospheric PM"

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2018-332, 2018.