

Interactive comment on “Photoacoustic optical properties at UV, VIS, and near IR wavelengths for laboratory generated and winter time ambient urban aerosols” by M. Gyawali et al.

M. Gyawali

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Reply to Ajtai T. (Atmos. Chem. Phys. Discuss., 11, C10807–C10808, 2011 www.atmos-chem-phys-discuss.net/11/C10807/2011/)

We would like to thank Ajtai, T. for his comments on this paper.

Reviewer comments are given in bold typeface. Our replies are given in plain text.

The authors said that "We present the first laboratory and ambient photoacoustic (PA)measurement of aerosol light absorption coefficients at ultraviolet (UV) wavelength (i.e.355 nm) and compare with measurements at 405, 532, 870, and 1047 nm" but the first photoacoustic aerosol light absorption measurement in the UV region under laboratory

Reply:

We agree with these comments and have revised the manuscript to address this issue. The following sentence has been added to the revised manuscript: ‘Ajtai et al., (2010) and Ajtai et al., (2011) have previously demonstrated the use of a four-wavelength (including 266 and 355 nm) photoacoustic instrument measuring aerosol light absorption coefficients for laboratory-generated and ambient aerosols’

References:

Ajtai, T., Filep, Á., Schnaiter, M., Linke, C., Vragel, M., Bozóki, Z., Szabó, G., and Leisner, T.: A novel multi-wavelength photoacoustic spectrometer for the measurement of the UV-vis-NIR spectral absorption coefficient of atmospheric aerosols, *Journal of Aerosol Science*, 41, 1020-1029, 2010.

Ajtai, T., Filep, Á., Utry, N., Schnaiter, M., Linke, C., Bozóki, Z., Szabó, G., and Leisner, T.: Inter-comparison of optical absorption coefficients of atmospheric aerosols determined by a multi-wavelength photoacoustic spectrometer and an Aethalometer under sub-urban wintry conditions, *Journal of Aerosol Science*, 42, 859-866, 2011.