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ACPD 13, C9304–C9305, 2013

> Interactive Comment

Interactive comment on "An assessment of the performance of the Monitor for AeRosols and GAses in ambient air (MARGA): a semi-continuous method for soluble compounds" by I. C. Rumsey et al.

I. C. Rumsey et al.

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Response: Thank you for your comment. We have now referenced the Phillips et al. (2013) paper and have added a discussion on the influence of the N2O5 artifact on the comparison between the sampling techniques and also on measured concentration levels. The discussion added to the manuscript is provided below:

"It is acknowledged that both the Na2CO3 denuder and the WRD are sensitive to measuring N2O5 as NO3- during the nighttime (Phillips et al., 2013). However, since both



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sampling techniques are likely influenced in a similar way, it will not affect the comparison between the Na2CO3 denuder and the WRD. This artifact may influence measured concentration levels. However, the influence of N2O5 on measured HNO3 is likely to be small as N2O5 concentration levels are expected to be low due to high NO and biogenic VOC concentrations and warm air temperatures, which decrease N2O5 concentrations."

Interactive comment on Atmos. Chem. Phys. Discuss., 13, 25067, 2013.



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