

Atmos. Meas. Tech. Discuss., 3, C1597–C1598, 2010

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AMTD

3, C1597–C1598, 2010

Interactive
Comment

Interactive comment on “Dynamic Solution Injection: a new method for preparing pptv-ppbv standard atmospheres of volatile organic compounds” by K. J. Jardine et al.

K. J. Jardine et al.

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Response to JP Greenberg

Thank you very much for this helpful reference which we now include in the introduction of our paper.

Comment

This method seems to be an improvement on the system described by Hanson et al., Int. J. Mass Spec., 282, 1-2,5 April 2009, 28-31. The previous paper should,

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nonetheless, be cited.

Response

We now include the following sentence in our manuscript:

“More recently, a PTR-MS was calibrated by manually injecting 1 μL of a dilute VOC solution in dodecane into a 400 mL glass vial continuously flushed with clean air (Hanson et al., 2009). Calibration factors for the PTR-MS were determined using the air flow rate through the chamber and the integrated signal peaks corresponding to the evaporation of each VOC. However, due to the rapid injection of a single volume of VOC solution, this method is unable to produce constant VOC concentrations that can be dynamically changed.”

Interactive comment on Atmos. Meas. Tech. Discuss., 3, 3047, 2010.

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