

## ***Interactive comment on “Quality assurance of the Brewer UV measurements in Finland” by K. Lakkala et al.***

**K. Lakkala et al.**

Received and published: 9 May 2008

Response to Referee #2

We thank the Referee for her/his comment. We have accordingly modified the manuscript, and the spelling in the manuscript has also been revised. As suggested by Referee #1, more discussion with respect to similar studies presented in other papers has been included in Sections 3.3, 4, 5.3 and 5.4. Please find here below the answers to each Referee #2 comment. The authors' answer start with "A:".

1. The measurements are performed at temperatures below 15 C?

A: Yes, the temperature inside the Brewer can fall below 8 C, but is kept positive. No measurements could be performed at temperatures below 15 C during the temperature characterization, as we couldn't manage to cool the Brewers any further. For temper-

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atures below 15 C, the correction procedure assumes the temperature dependence to be linear (equation 2). As explained in Section 5.3. each scan is normalized to the reference temperature by computing  $I(\lambda)$  on the basis of equation 2.

The following text was added to Section 3.3: "Unfortunately, the available equipment did not allow cooling the system to any lower temperatures."

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Interactive comment on Atmos. Chem. Phys. Discuss., 8, 1415, 2008.

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