

Interactive comment on “Measurement of HONO, HNCO, and other inorganic acids by negative-ion proton-transfer chemical-ionization mass spectrometry (NI-PT-CIMS): application to biomass burning emissions” by J. M. Roberts et al.

Anonymous Referee #2

Received and published: 24 March 2010

The manuscript reports a new instrument, called NI-PT-CIMS, for measurement of several inorganic acids. In this paper the authors greatly focus on its application to biomass burning experiments under laboratory condition. The authors have carefully characterized this new technique for all of these acids by extensive laboratory experiments. It seems to me that this method is apparently a great step forward in atmospheric measurement technique. The submitted paper will provide the scientific community (especially measurement community using mass spectrometry) with insightful technical details for measuring these atmospherically important compounds. The work obvi-

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ously fits to the scope of Atmos. Meas. Technol., and the manuscript is generally well organized and written. In my opinion, the paper is nearly acceptable for publication in its present form. I have only a few technical comments.

Technical comments: Page 306, Line 6-7: acetic anhydride (approx. 4 ppmv) in nitrogen ... - how is this produced? By gas cylinder or permeation tube?

Page 317, Line 22: "in press" is a typo.

Interactive comment on Atmos. Meas. Tech. Discuss., 3, 301, 2010.

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