

Atmos. Meas. Tech. Discuss., author comment AC1
<https://doi.org/10.5194/amt-2020-481-AC1>, 2021
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Reply on CC1

Nobuyuki Aoki et al.

Author comment on "Intercomparison of O₂/N₂ ratio scales among AIST, NIES, TU, and SIO based on a round-robin exercise using gravimetric standard mixtures" by Nobuyuki Aoki et al., Atmos. Meas. Tech. Discuss., <https://doi.org/10.5194/amt-2020-481-AC1>, 2021

We wish to express our appreciation for your significant and useful comments. We have revised the manuscript, considering your comments.

CC1: 'Comment on amt-2020-481', Nobuhiro Matsumoto, 26 Feb 2021

I'd like to have a request on addition of the following two papers.

Matsumoto, N., Watanabe T., Maruyama, M., Horimoto Y., T. Maeda, T., Kato, K. :
Development of mass measurement equipment using an electronic mass-comparator for
the gravimetric preparation of reference gas mixtures, *Metrologia*, 41, 178-188,
<https://doi.org/10.1088/0026-1394/41/3/011>, 2004.

Matsumoto, N., Shimosaka, T., Watanabe, T., Kato, K. : Evaluation of error sources in a
gravimetric technique for preparation of a reference gas mixture (carbon dioxide in
synthetic air), *Anal. Bioanal. Chem.*, 391, 2061-2069,
<https://doi.org/10.1007/s00216-008-2107-8>, 2008.

The preparation of gravimetric standard mixtures in this preprint used the revised
equipment of home-made equipment described in the above references.

Response: we cited the two papers according to your comment