

## ***Interactive comment on “Direct contribution of ammonia to CCN-size alpha-pinene secondary organic aerosol formation” by Liqing Hao et al.***

**Liqing Hao et al.**

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We thank the editor for the nice comments.

Comment: Could you explain how NH<sub>3</sub> was introduced into the chamber?

Reply: The NH<sub>3</sub> is present as a background gas in our chamber, and we didn't specifically add it to the chamber. We will clarify this point in the revised manuscript.

Comment: Also I'd suggest showing the temporal evolution of NO<sub>x</sub> and SO<sub>2</sub> in the supplement.

Reply: We have plotted the time series of NO<sub>x</sub> and SO<sub>2</sub> shown in the attached figure. We will add them in the supplement.

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Discussion paper



Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2020-457>, 2020.

ACPD

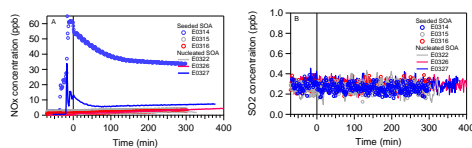
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**Figure S1.** The temporal evolution of NO<sub>x</sub> and SO<sub>2</sub> in the chamber during the nucleated and seeded SOA experiments.

Fig. 1.