

Thank you for reviewing our manuscript and for the comments and suggestions. Responses to the comments are provided below:

- 1) Residual plots have been left out from this manuscript since they are provided in related calibration papers in preparation by Tabandeh and Hieta.
- 2) In general, the calibration measurements were performed both in increasing and decreasing humidity. It can be seen in the capacitance plots that there are some differences between the measurements at the same humidity, but differences are not consistent and might be due to changing test environment (temperature or pressure drifting). If hysteresis were present, it would be smaller than the other uncertainties involved in the measurements.
- 3) Calibrating the sensors in a representative operating environment, accounting for all factors affecting their performance, is crucial and has now been demonstrated to be feasible. A ground reference model can be used to transfer calibration information to the flight model, provided the test campaign is carefully planned and the models are sufficiently identical, and it has also been demonstrated that this approach is effective.