

***Interactive comment on “Performance of a new co-axial ion-molecule reaction region for low-pressure chemical ionization mass spectrometry with reduced instrument wall interactions” by Brett B. Palm et al.***

**Anonymous Referee #2**

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CIMS has been widely used to measure trace gases. One of the most important artifacts for measuring low volatile gases is the inlet wall effects. The present work designed a low pressure IMR (I- as reagent ion) to reduce the wall impact. Also this study introduces a conceptual framework for considering instrument wall interactions and a measurement protocol to accurately capture the time-dependence of target compound concentrations. The manuscript is well written. I suggest acceptance of this manuscript on AMT.

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