Line-by-line response letter to Referee #1: M. Scase, K. Baldwin, R. Hill

*Manuscript Summary:*

Correct and complete

No response required.

*Major Concerns:*

Interesting experimental technique giving a room to control "the specific weights" of fluids. Clear visualization of the flow structure.

No response required.

*Minor Concerns:*

 No response required.

*Additional Comments to Authors:*

How the stability of interface in state of solid state rotation was controlled? Often different kind of waves propagate along interface in rotating fluids.

No further explicit control is required provided the rotation axis is vertical and the motor provides a constant rate of rotation. The stratification is stable, and the spin-up time sufficiently long that the only waves on the interface are extremely low-amplitude and on the scale of the tank diameter — these modes do not influence the formation of the Rayleigh-Taylor instability.