Interactive comment on “Application of a Hygroscopicity Tandem Differential Mobility Analyzer for characterizing PM Emissions in exhaust plumes from an Aircraft Engine burning Conventional and Alternative fuels” by Max B. Trueblood et al.

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Referee #3 (Dr Robert Howard)

The authors describe well their analyzer system and pertinent application results. The aerosol hydroscopic property measurements are relevant, especially with the inclusion and comparison for alternative fuels. I highly recommend the paper for publication. I offer the following suggested edits and comments:

We thank the referee for a very thorough review of our manuscript.

–reviewer's comments (in italic typeset, blue font). –a point-by-point response (in regular typeset, black font)
RC#1 Page 1, Line 20 Replace “fuels” w “types of fuel” RESPONSE #1: We have made that replacement.

RC#2 Page 1, Line 23 “decreased” is spelled incorrectly RESPONSE #2: We have made that correction.

RC#3 Page 2, Line 3 Change “on” to “onto” RESPONSE #3: We have made that correction.

RC#4 Page 2, Line 16 Place a comma after “plume” RESPONSE #4: We have made that correction.

RC#5 Page 2, Line 31 Change “45s” to “45 s” or better, change to “45 seconds” RESPONSE #5: We have made the correction to 45 seconds.

RC#6 Page 3, Line 7 “an ice bath to dry the sample” ... is not fully unclear. Please elaborate. RESPONSE #6: We have made that clarification.

RC#7 Page 3, Line 14: Change “poly-dispersed aerosol was classified” to “poly-dispersed aerosol was classified by size” RESPONSE #7: We have made that change.

RC#8 Page 3, Line 16 Throughout the paper, the tense switches from "was" to "is". I am not sure the change is always correct. Maybe an expert in grammar should review and make suggestions. RESPONSE #8: We have made these corrections.

RC#9 Page 3, Line 17-18 The word "now" is not necessary and should not be used in this manner in a formal paper. RESPONSE #9: We have made these corrections.