Interactive comment on “A miniature Portable Emissions Measurement System (PEMS) for real-driving monitoring of motorcycles” by Michal Vojtisek-Lom et al.

Anonymous Referee #3

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The manuscript is fit for AMT but is quite long and at times reads a little bit like a report rather than an easy to read manuscript. Some parts discuss observations rather than having a focus on measurement techniques, the interesting part of lab vs on road PEMS for motorcycles gets a little bit too much in the background and could stand out more.

I have mainly minor comments below and suggest may be refocusing the manuscript by putting some of the technical tables that convey only information but no results in the SI (you are starting results with table 4). I would also put some of the figures in SI such as the road trips (Figs 3 and 9). This will help shorten the manuscript and make
it more readable.

Details

Please tighten experimental section as some things are repetitive (e.g. twice the size cut of your TSI CPC).

Formulas page 7 and 8 appear in a poor resolution.

Figure 5: data in bright green is hardly visible except in a few places

Figure 7: This figure should be substantially improved. Please homogenize the panels. Do not use frames for the panels. Please align the axis between panels, make sure the legend and the axis units do not overlay etc. Also please use subscripts on chemical formulas. Please add error bars to his figure, indicating measurement uncertainties, or at least indicate them on one point.

Figure 8: same as figure 7 with attention to detail and quality. Please put legends in similar spots, align axis, get rid of frames, add error bars,

Figure 10: please add units to axis rather than in the title. Also this bright neon green is not well visible. Again error bars should be provided, this is an analytical journal.