

Interactive comment on “Development of parallel sampling and analysis for the elucidation of gas/particle partitioning of oxygenated semi-volatile organics: a limonene ozonolysis study” by S. Rossignol et al.

Anonymous Referee #2

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The manuscript shows a partial validation of an interesting method which could be used in studies of atmospheric oxygenated organic compounds. By the method it would be possible to get information of more compounds with higher time resolution. However, text was often hard to follow and unclear at some parts. Therefore I recommend that authors should clarify and try to compress the text. It should also be corrected by a native English speaker. In addition to this my major concern was the lack of information on blank values and desorption efficiencies.

Major comments: You evaluated detection limits from calibration curves and got very

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low limits for most of the compounds. I was wondering, how high concentrations you had in your derivatized blank samples (laboratory or field blanks), since for this low values, blanks can be important. Did you subtract the blanks? Please, give blank values in the text or add them into some table. If you did not have any blank level, mention also this in the text. You did not mention anything about desorption efficiencies. These derivatized compounds have quite high molecular masses and I am not sure if they are totally desorpted from the Tenax TA tubes. Please, give some results of desorption efficiencies.

Minor comments: There were lots of small corrections to the text, but I am not listing them here, since they were already mentioned by the other reviewer. However, I recommend you to go through carefully whole text and try to correct, clarify and compress it.

Interactive comment on Atmos. Meas. Tech. Discuss., 5, 1153, 2012.