

***Interactive comment on “Influence of aerosol acidity on the chemical composition of Secondary Organic Aerosol from  $\beta$ -caryophyllene” by M. N. Chan et al.***

**Anonymous Referee #1**

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The manuscript presents new and important data on formation of SOA from oxidation of the sesquiterpene beta-caryophyllene. The manuscript is very well written and results are presented in a clear and concise way with relevant references to some of the related work.

The main problem with the manuscript is that the tables and schemes are almost unreadable, even in the online version. Some of them had to be viewed with 200% zoom. The text font in tables and schemes should be larger and the schemes improved in collaboration with the publishers. Otherwise I congratulate the authors with a very nice and interesting paper.

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Specific comments: Page 29251 Line 18: "identified" is a strong word - "suggested" is more appropriate P29252 L2: toward -> towards P29254 L2: The filter sampling should be described. Please add information on filter type, sampling volume and other relevant information. P29254 L3: Is it important whether the distilled water was also deionized? P29255 L11-13: The sentence is not clear. P29256 L29-next page: This is not clear - does the SCIs react with carbonyls or form carbonyls?

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Interactive comment on Atmos. Chem. Phys. Discuss., 10, 29249, 2010.

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