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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Reactive oxidation products promote secondary organic aerosol formation from green leaf volatiles" *by* J. F. Hamilton et al.

J. F. Hamilton et al.

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Author Comments ACPD, 9, 3921, 2009

First we would like to thank the reviewer and the editor for their comments.

Referee 2 All minor revisions have been addressed. Figure 5 has been improved, with larger text on the axes. We have also included a discussion of the SOA curves.

A reference has been included for figure 1.

Editors comments The editor makes a good comment about the comparison of our results at low humidity to aqueous phase reactions. Our process is more likely to be an interaction in the gas phase, especially if these are the nucleating species. This has

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been highlighted in the text. Experiments in this chamber are generally carried out a low humidity to simplify the chemistry involved and auxiliary measurements.

Figure 5 and Table 2 have been improved for clarity.

As to the use of promote in the title, it is difficult to think of a better word. We would expect these compounds not to form SOA but due to the production of these reactive intermediates SOA formation is enhanced compared to similar compounds without the alcohol group i.e. 3-hexene has no such reactive intermediates and the SOA yield is very low in comparison. We think the title should remain as it is but are willing to change it if the editor disagrees

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