

***Interactive comment on “The impact of a future
H₂-based road transportation sector on the
composition and chemistry of the atmosphere –
Part 1: Tropospheric composition and air quality”
by D. Wang et al.***

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General response: We don't think it is reasonable to combine the two papers into one because the key questions we are concerned for the troposphere chemistry and for the stratosphere chemistry are of quite a different nature. Also, the extent of the discussion needed on these topics is just too much for one paper. We are submitting our revised papers and have tried to full address the reviewers' comments.

Request: Please specify in more detail what averaging of the lowest level(s!) (~100 m)

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mean. R: Actually we meant the figures are for averaged (over time) of the lowest level of the CMAQ model, which is about the 100m thick. We modified the captions in the revised text.

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 19371, 2012.

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