



Supplement of

Using *in situ* GC-MS for analysis of C₂–C₇ volatile organic acids in ambient air of a boreal forest site

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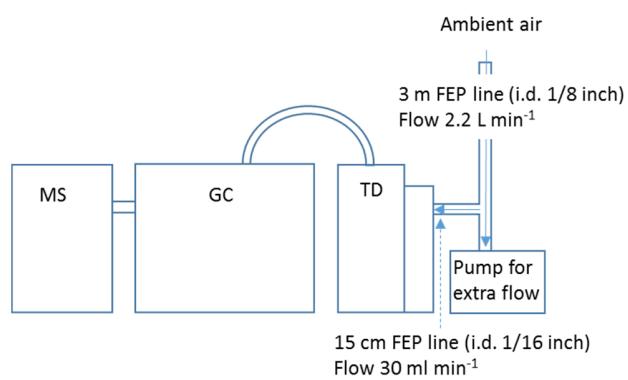
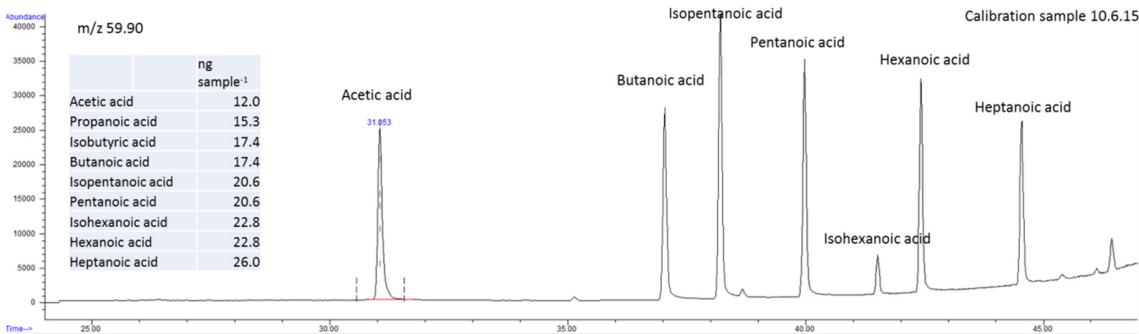
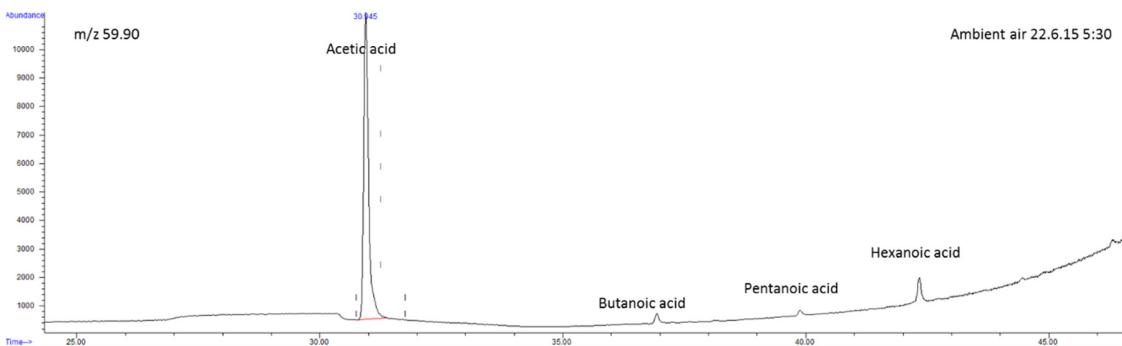


Figure S1. Schematic diagram of the sampling system.

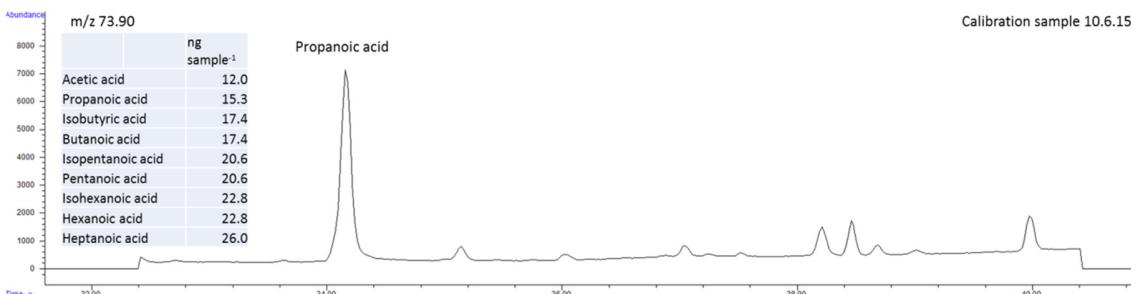
(a)



(b)



(c)



(d)

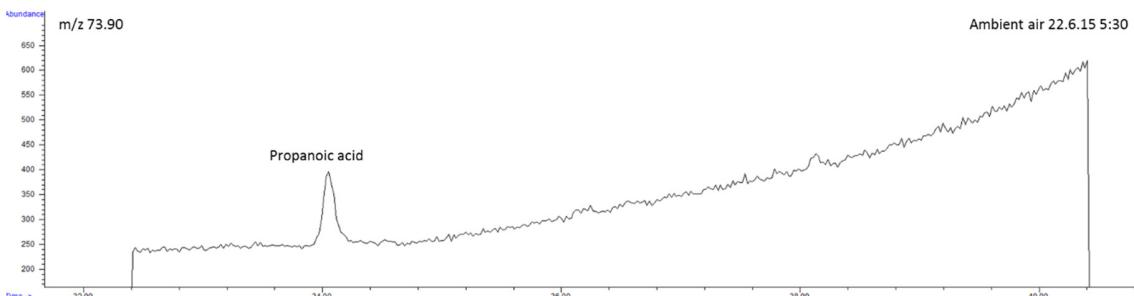


Figure S2. Selected ion chromatograms for m/z 59.90 in a) a calibration sample, b) ambient air and for m/z 73.90 in c) a calibration sample and d) ambient air

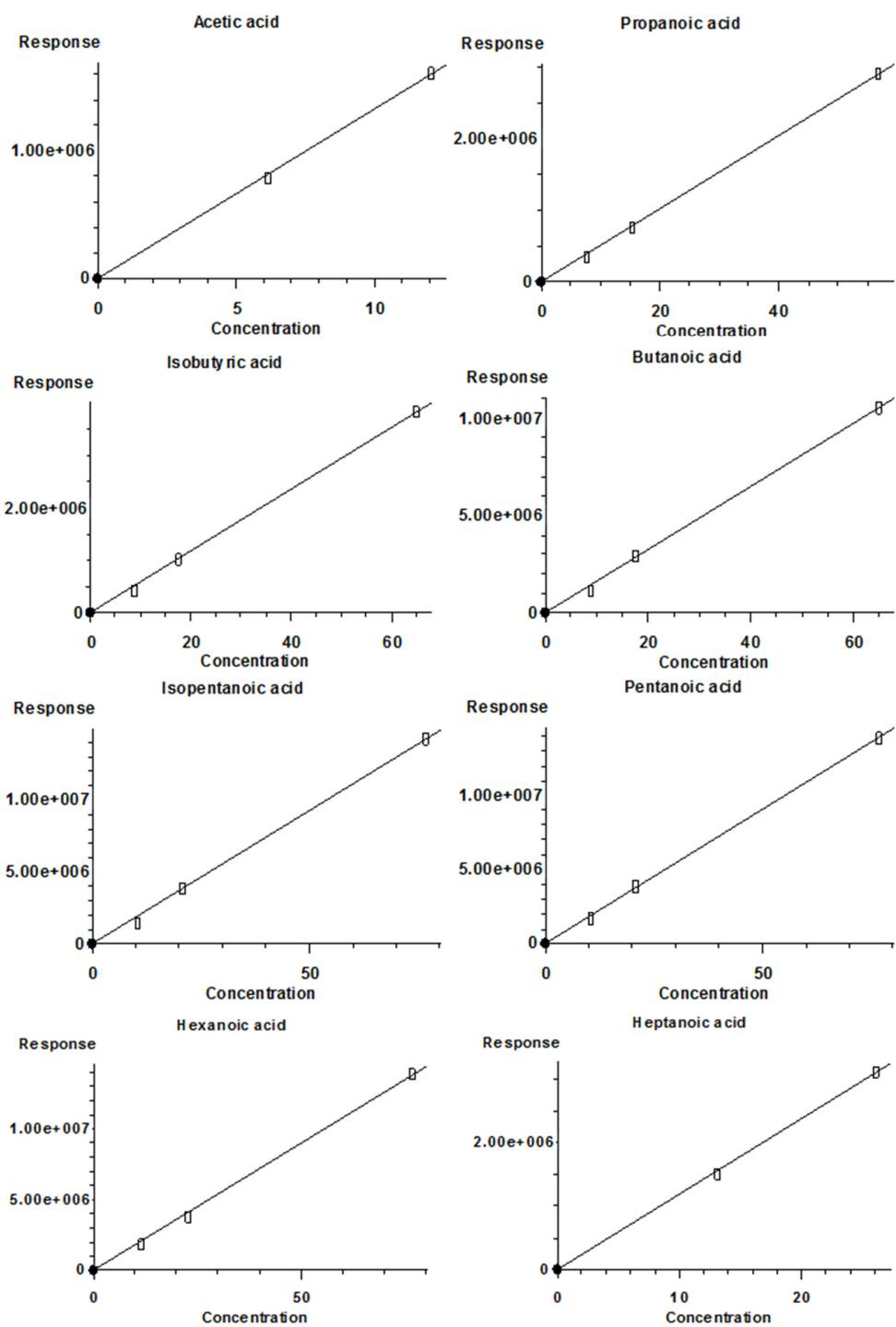


Figure S3. Calibration curves for studied VOAs. Concentration unit is ng sample⁻¹.

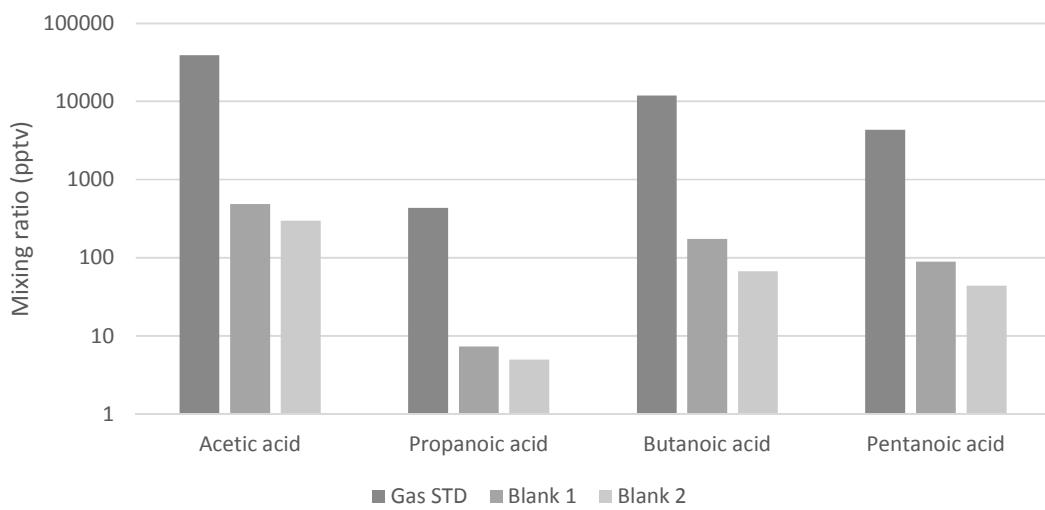


Figure S4. Mixing ratios of different VOAs in the field gas standard (Gas STD) and in the blanks (Blank 1 and 2) run immediately after the field gas standard. Blanks were clean nitrogen (HiQ N₂ 6.0 >99.9999%) measured using the same method as for the samples.

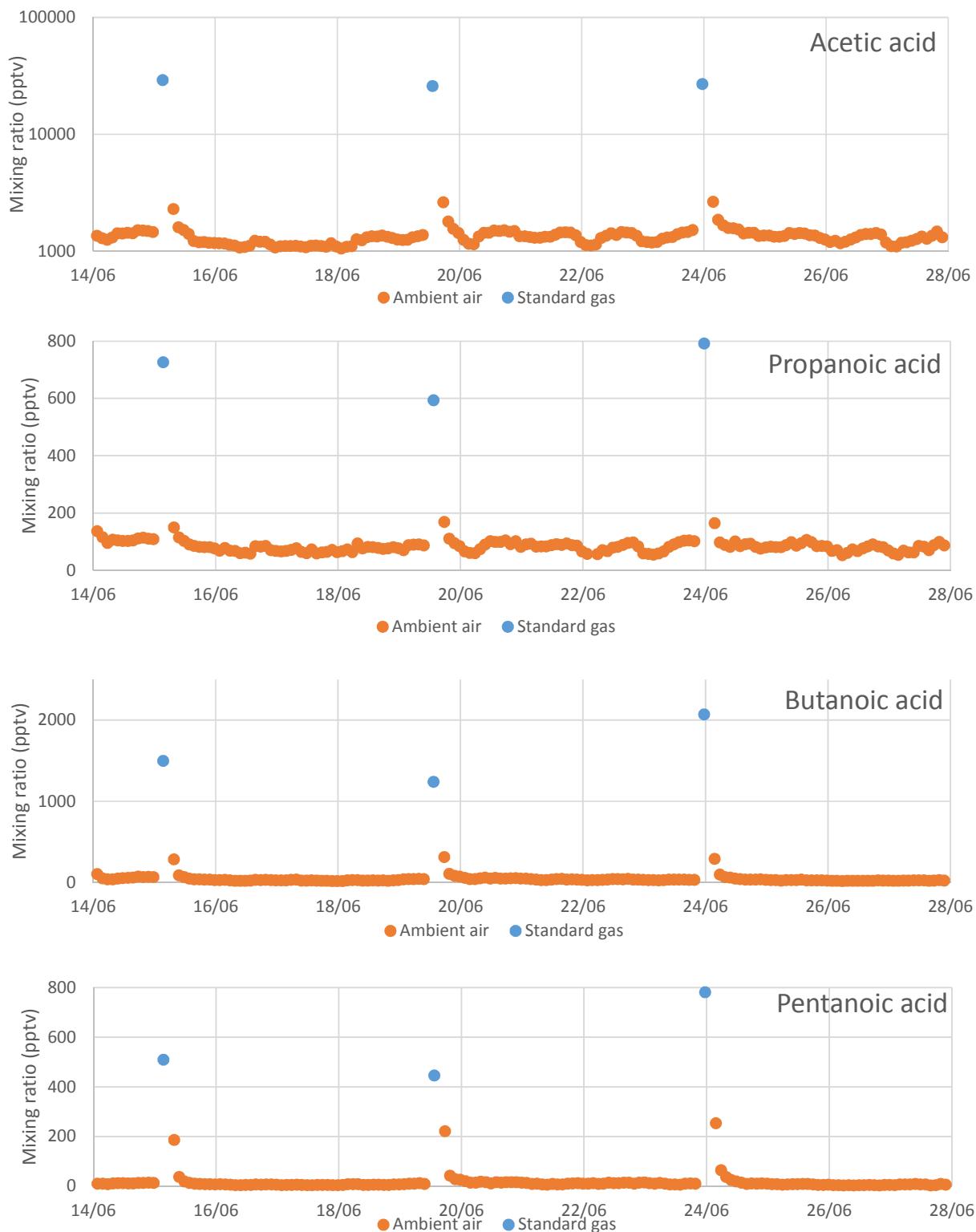


Figure S5. Standard gas measurements (blue dots) in between ambient air measurements (orange dots) showing the memory effect from calibration checks.

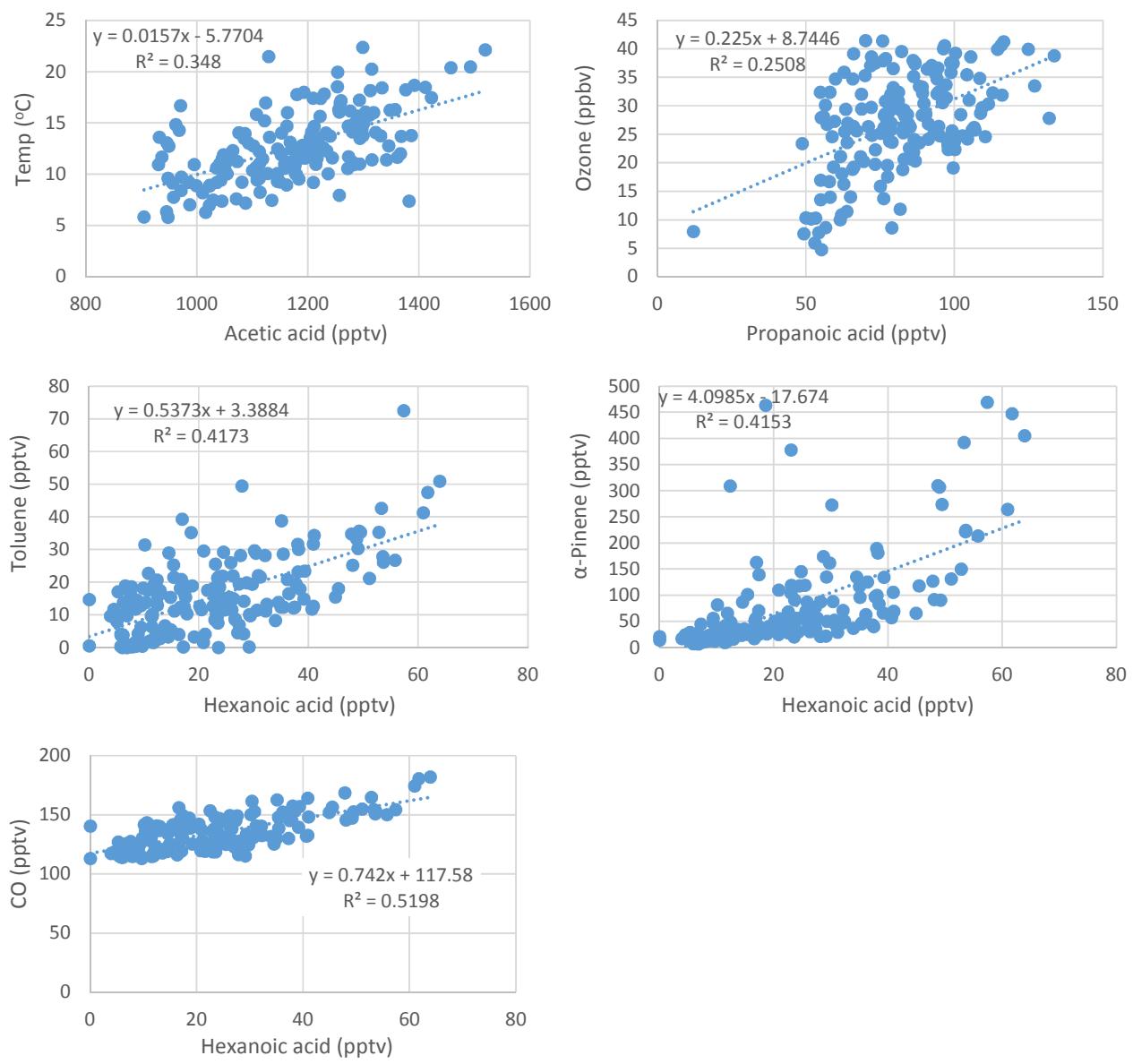


Figure S6. Correlation plots of VOAs vs. other trace gases and meteorological parameters.