

***Analysis of volatile short-chain fatty acids in the gas phase using
secondary electrospray ionization coupled with high-resolution
mass spectrometry***

Cedric Wüthrich¹, Zhiyuan Fan¹, Guy Vergères², Fabian Wahl², Renato Zenobi^{1,*}, Stamatios
Giannoukos^{1,*}

(1) Department of Chemistry and Applied Biosciences, ETHZ, Zurich, Switzerland

(2) Food Microbial Systems Research Division, Agroscope, Bern, Switzerland

*Correspondance: Stamatios Giannoukos (stamatios.giannoukos@org.chem.ethz.ch), Renato
Zenobi (renato.zenobi@org.chem.ethz.ch)

Short Title: Analysis of SCFA using SESI-HRMS.

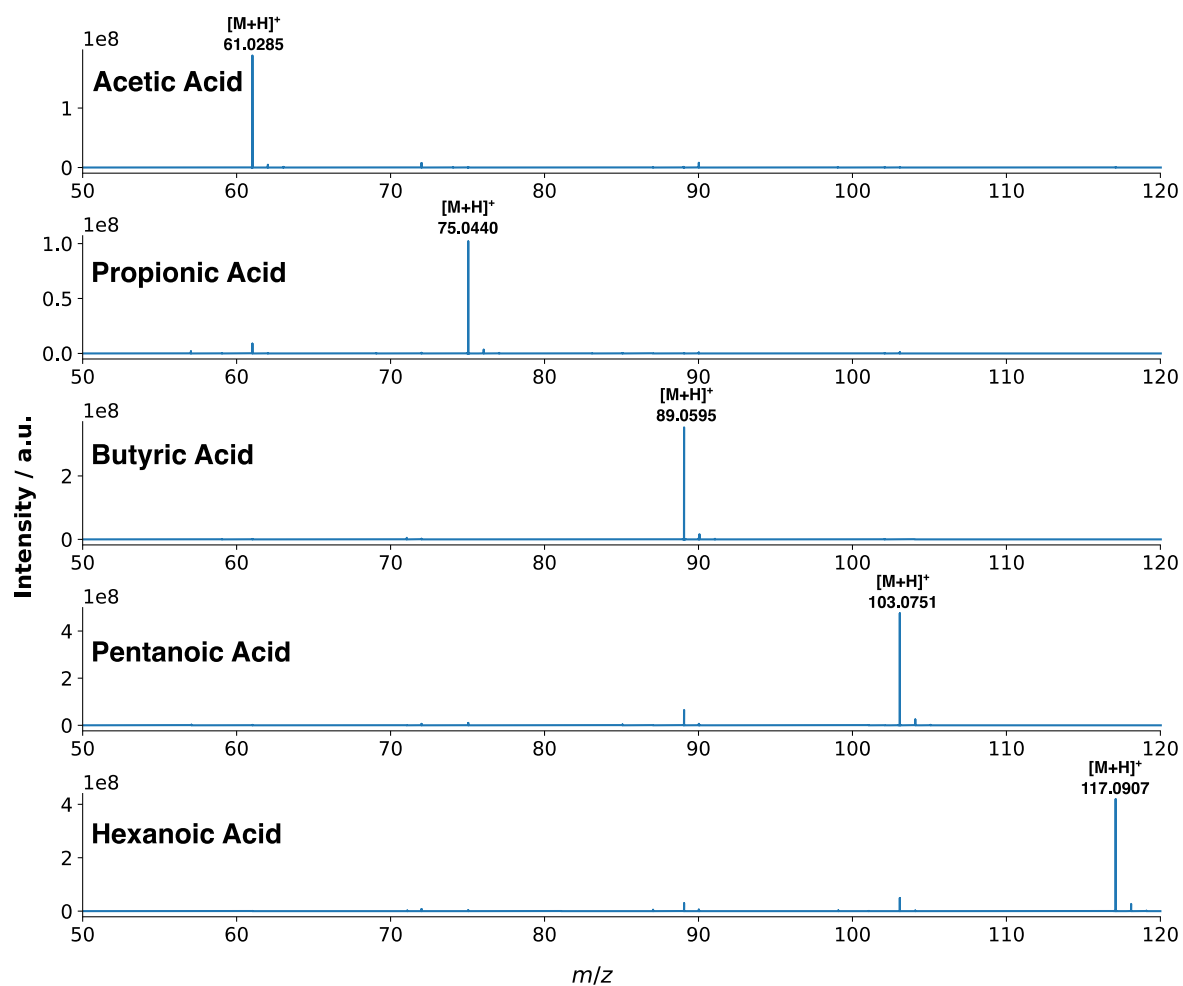


Figure S1. Experimental mass spectra for acetic, propionic, butyric, pentanoic and hexanoic acid obtained with the SESI-HR-MS system

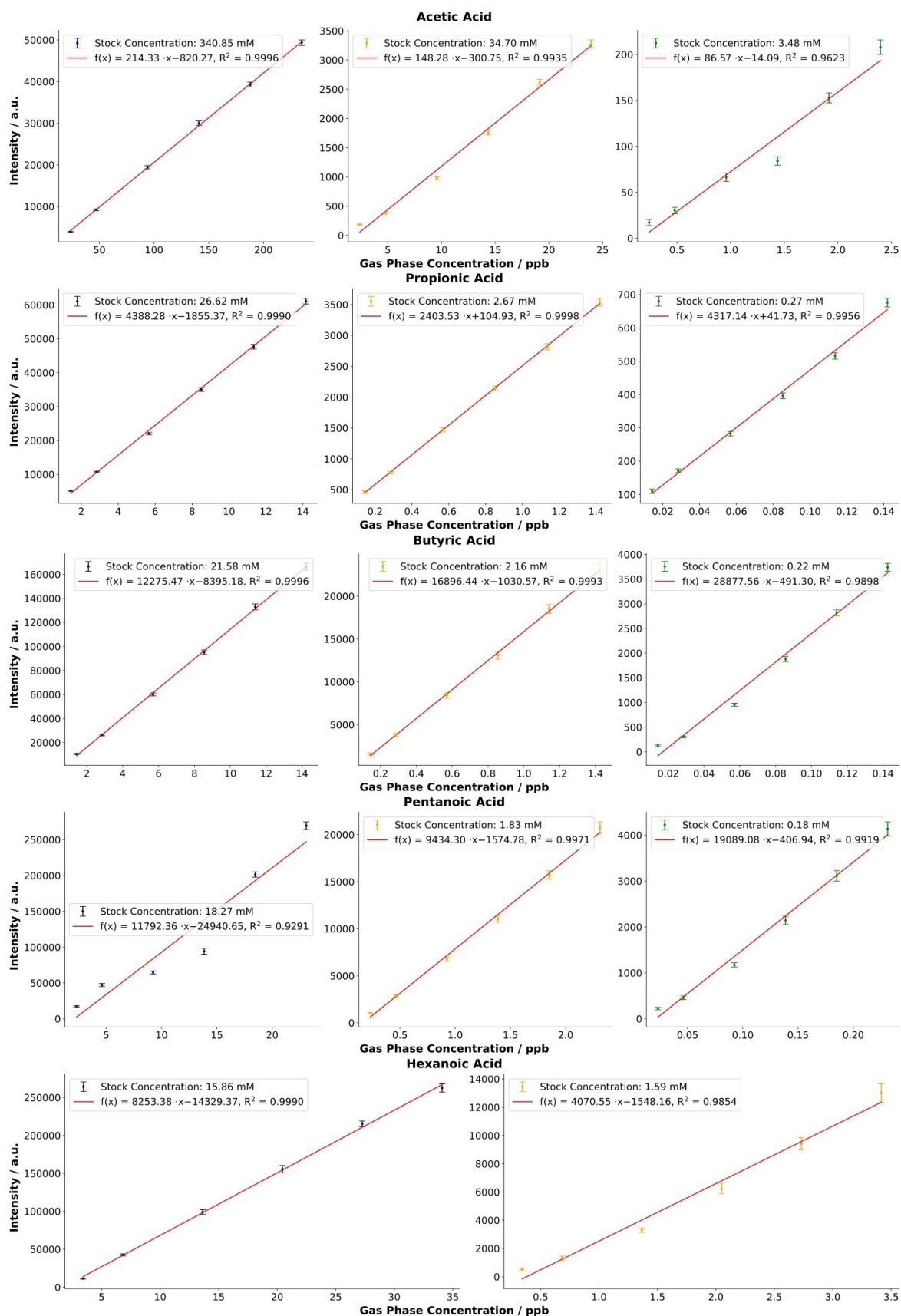


Figure S2. Calibration curves of the individual stock solutions under 0 % RH.

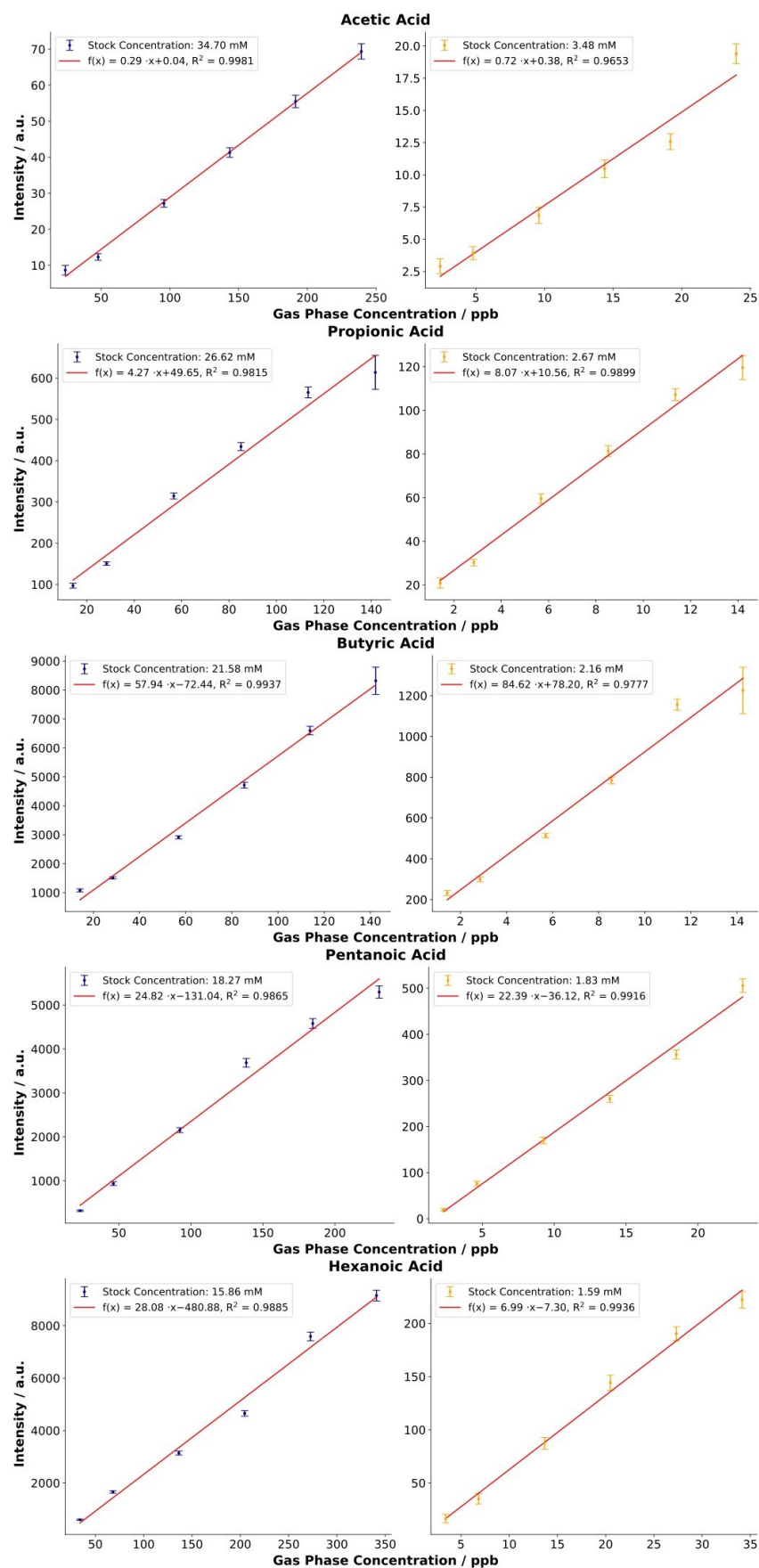


Figure S3. Calibration curves of the individual stock solutions under 95 % RH.

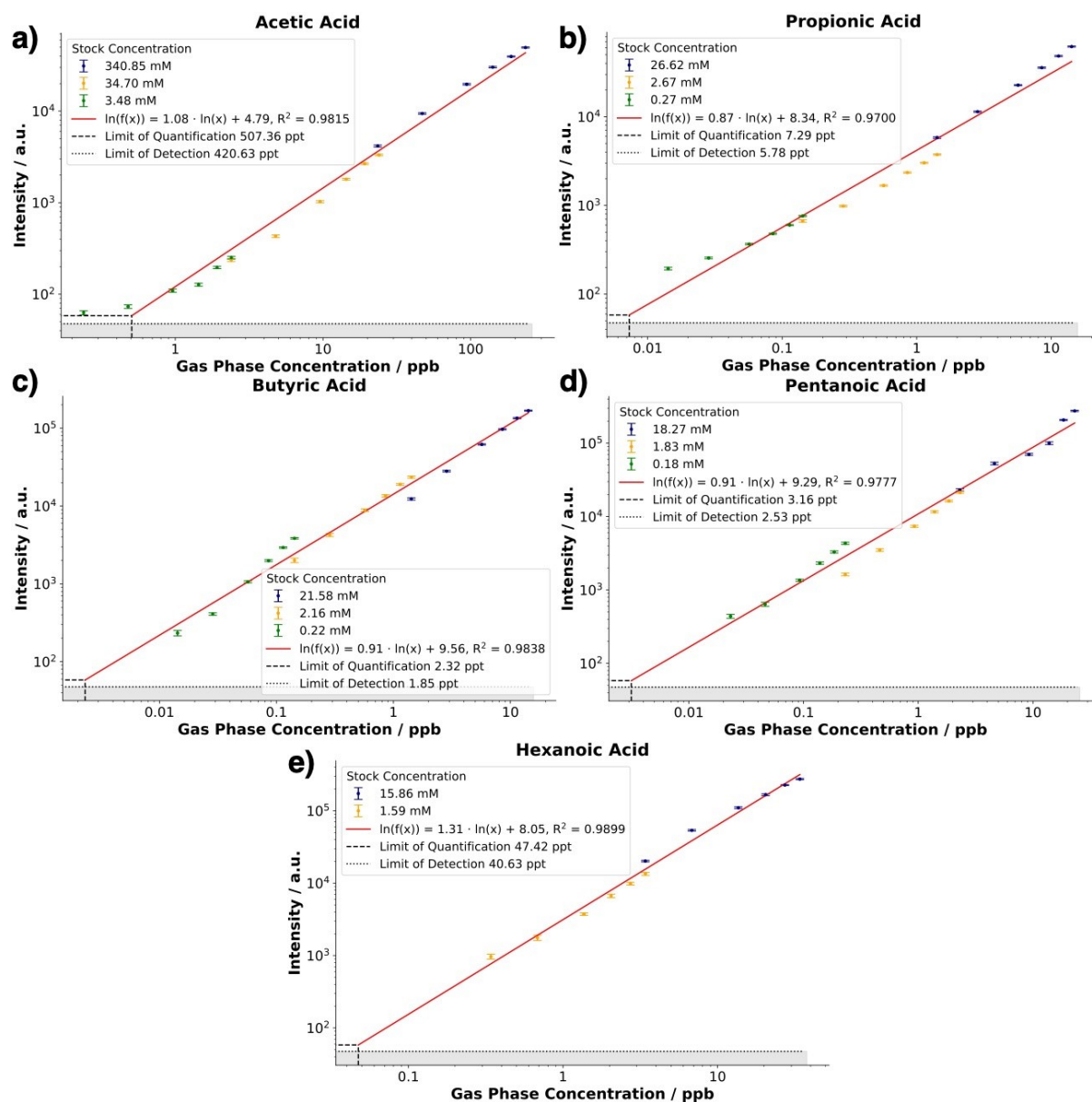


Figure S4. Calibration curves for the dry conditions with the individual limits of detection and limits of quantification for each SCFA tested.

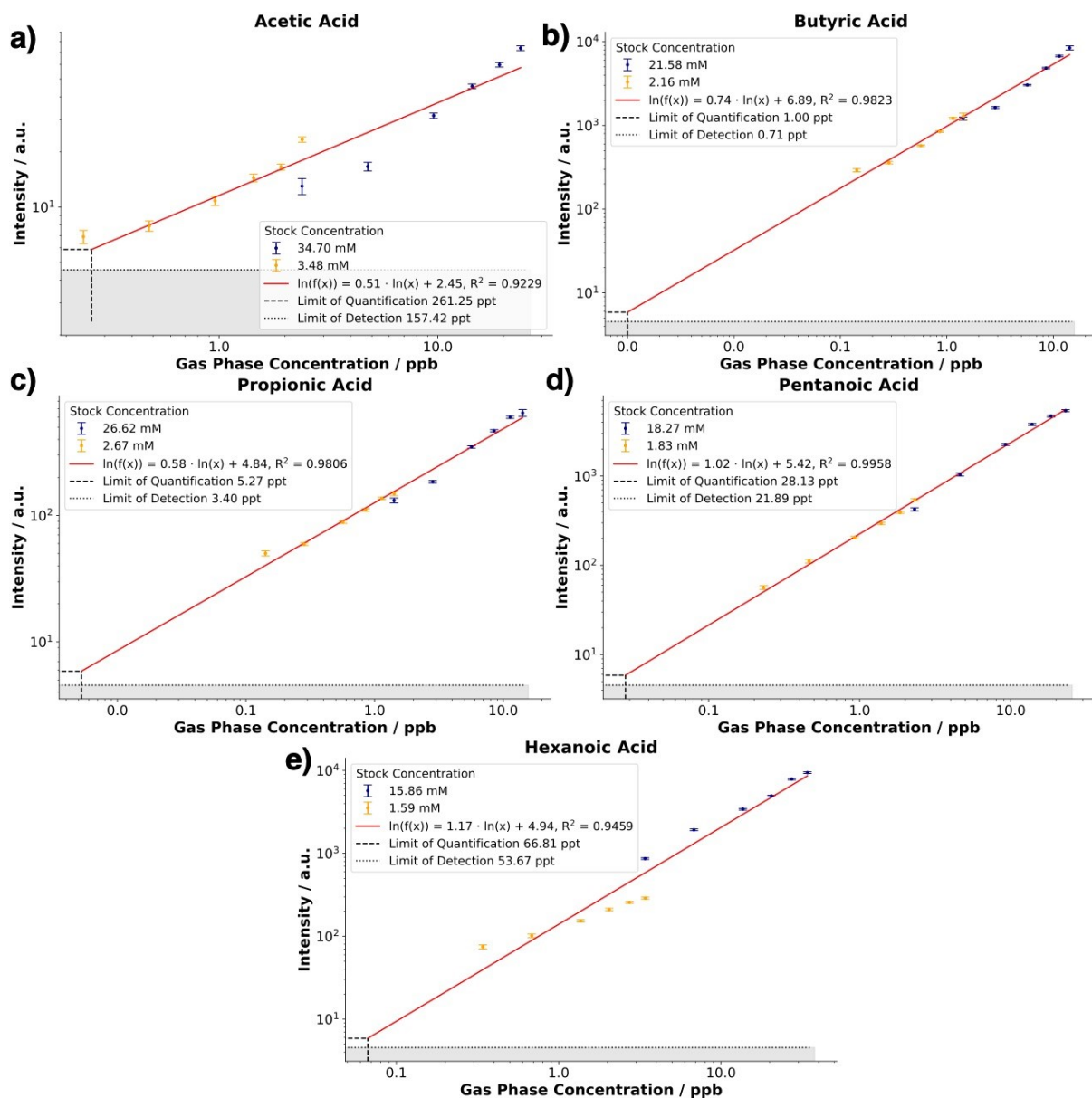


Figure S5. Calibration curves for the 95 % RH conditions with the limits of detection and quantification for each SCFA tested.