

Supplementary information: Quantification of the
impact of cooking processes on indoor
concentrations of volatile organic species and
primary and secondary organic aerosols

Felix Klein ^{*1}, Urs Baltensperger¹, André S.H. Prévôt¹, and Imad
El Haddad ^{†1}

¹Laboratory of Atmospheric Chemistry, Paul Scherrer Institute,
Villigen, 5232, Switzerland

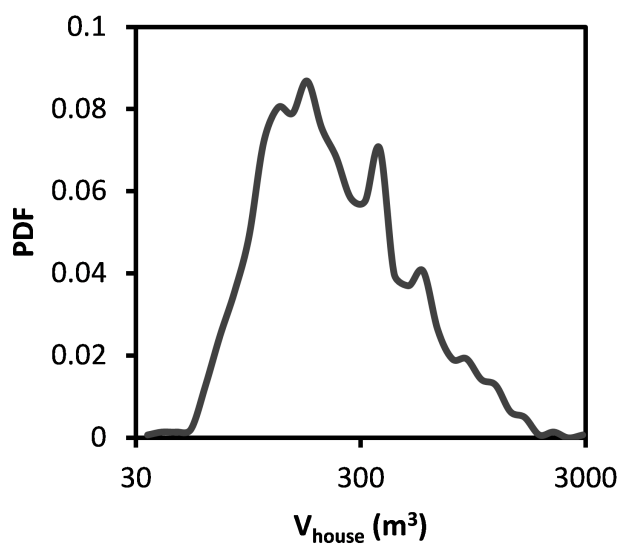


Figure S.1: House volume variation in the model. Different peaks correspond to successive room additions to the house.

^{*}now at: Meteorologisches Observatorium Hohenpeissenberg, Deutscher Wetterdienst (DWD), Hohenpeissenberg, 82383, Germany

[†]imad.el-haddad@psi.ch

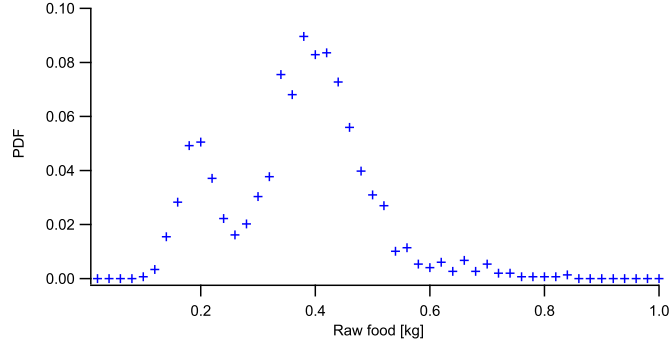


Figure S.2: Probability density function of amount of raw food cooked.

Table S.1: Variance-covariance matrix of the lognormal adsorption rates and coefficients used as input to generate multivariate normal distributions for these parameters.

		$\log(K_{e,i})$					$\log(k_{a,i})$				
		ACR	C1	C2	C3	Terp	ACR	C1	C2	C3	Terp
$\log(K_{e,i})$	ACR	0.88	0.89	0.85	0.86	0.87	0.22	0.22	0.21	0.21	0.22
	C1	0.89	0.93	0.86	0.86	0.87	0.22	0.23	0.21	0.21	0.22
	C2	0.85	0.86	0.89	0.83	0.84	0.21	0.21	0.22	0.21	0.21
	C3	0.86	0.86	0.83	0.93	0.85	0.21	0.21	0.21	0.23	0.21
	Terp	0.87	0.87	0.84	0.85	0.91	0.22	0.22	0.21	0.21	0.23
$\log(k_{a,i})$	ACR	0.22	0.22	0.21	0.21	0.22	0.31	0.31	0.31	0.31	0.31
	C1	0.22	0.23	0.21	0.21	0.22	0.31	0.31	0.31	0.31	0.31
	C2	0.21	0.21	0.22	0.21	0.21	0.31	0.31	0.31	0.3	0.3
	C3	0.21	0.21	0.21	0.23	0.21	0.31	0.31	0.3	0.31	0.3
	Terp	0.22	0.22	0.21	0.21	0.23	0.31	0.31	0.3	0.3	0.31