

**Table S7:** Mean concentrations of gases during the background, break and THS 2.2 sessions under the simulated Residential category III environment (0.5 h<sup>-1</sup>)

Compound <sup>1</sup>	BKG	Break	THS	% decrease (Break vs BKG)	% decrease (Break vs THS)	% decrease (THS vs BKG)	Comment
CO (ppb)	289	160	287	-45	-44	-0.7	No impact of THS use on CO levels
CO <sub>2</sub> (ppm)	1318	746	1477	-43	-49	12.0	Slight increase of CO <sub>2</sub> level during THS use, probably due to intensified breathing
NH <sub>3</sub> (ppb)	23.6	38.2	38.1	62	0	61.4	Increase of NH <sub>3</sub> levels probably due to “pumping” NH <sub>3</sub> from outside
NO (ppb)	12.9	6.1	11.7	-53	-48	-9.5	No impact of THS use on NO levels
NO <sub>x</sub> (ppb)	17.8	10.5	15.8	-41	-34	-10.9	No impact of THS use on NO <sub>x</sub> levels
O <sub>3</sub> (µg/m <sup>3</sup> ) <sup>2</sup>	<LOD	<LOD	<LOD	na	na	na	na

<sup>1</sup>BKG, Background, na, not applicable, THS, Tobacco Heating System 2.2; <sup>2</sup>Below LOD of 4 µg/m<sup>3</sup>.

**Table S8:** Mean concentrations of gases during the background, break and THS 2.2 sessions under the simulated Store environment (2.4 h<sup>-1</sup>)

Compound <sup>1,2</sup>	BKG	Break	THS	% decrease (Break vs BKG)	% decrease (Break vs THS)	% decrease (THS vs BKG)	Comment
CO (ppb)	235	170	230	-28	-26	-2.4	No impact of THS use on CO levels
CO <sub>2</sub> (ppm)	770	536	821	-30	-35	6.6	Slight increase of CO <sub>2</sub> level during THS use, probably due to intensified breathing
NH <sub>3</sub> (ppb)	20.4	16.1	19.4	-21	-17	-4.8	No impact of THS use on NH <sub>3</sub> levels
NO (ppb)	2.65	2.16	2.57	-18	-16	-3.0	No impact of THS use on NO levels
NO <sub>x</sub> (ppb)	5.53	4.34	5.18	-21	-16	-6.3	No impact of THS use on NO <sub>x</sub> levels
O <sub>3</sub> (µg/m <sup>3</sup> ) <sup>3</sup>	<LOD	6.50	<LOD	na	na	na	na

<sup>1</sup>BKG, Background, na, not applicable, THS, Tobacco Heating System 2.2; <sup>2</sup>Mean concentrations for day II-IV. The measurements on day I were conducted with different design and were excluded from the processing for consistency reasons; <sup>3</sup>Below LOD of 4 µg/m<sup>3</sup> except for session Break.

**Table S9.** Mean concentrations of gases during the background, break and THS 2.2 sessions under the simulated Restaurant environment (4.3 h<sup>-1</sup>)

Compound <sup>1</sup>	BKG	Break	THS	% decrease (Break vs BKG)	% decrease (Break vs P1)	% decrease (THS vs BKG)	Comment
CO (ppb)	177	146	172	-18	-15	-2.7	No impact of THS use on CO levels
CO <sub>2</sub> (ppm)	634	541	678	-15	-20	6.8	Slight increase of CO <sub>2</sub> level during THS use, probably due to intensified breathing
NH <sub>3</sub> (ppb)	18.2	13.8	20.0	-24	-31	10.1	Low impact of THS on NH <sub>3</sub> levels
NO (ppb)	5.1	3.9	4.9	-25	-21	-4.7	No impact of THS use on NO levels
NO <sub>x</sub> (ppb)	7.7	6.6	7.4	-14	-11	-4.0	No impact of THS use on NO <sub>x</sub> levels
O <sub>3</sub> (µg/m <sup>3</sup> ) <sup>2</sup>	<LOD	<LOD	<LOD	na	na	na	na

<sup>1</sup>BKG, Background, na, not applicable, THS, Tobacco Heating System 2.2; <sup>2</sup>Below LOD of 4 µg/m<sup>3</sup>.