

Supplementary Information

Effects of Dilution Systems in Olfactometry on the Recovery of Typical Livestock Odorants Determined by PTR-MSD

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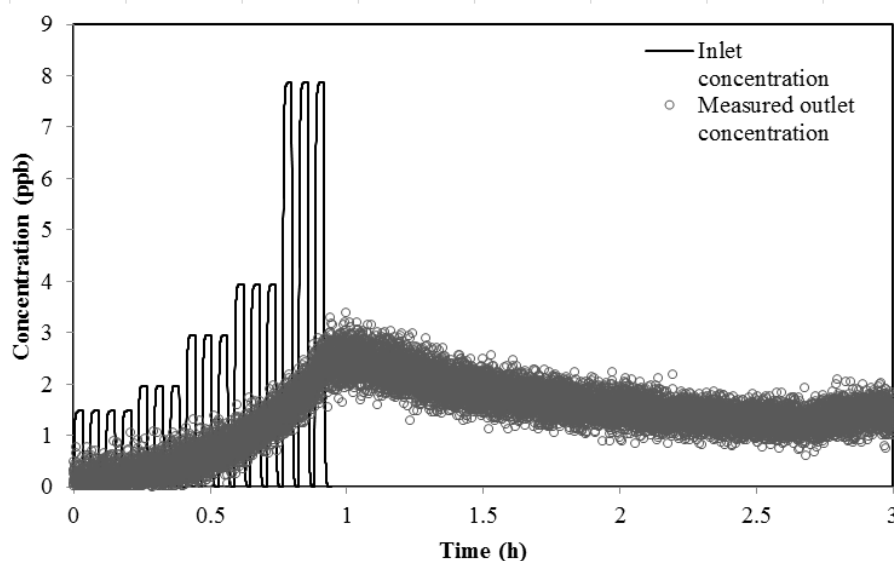
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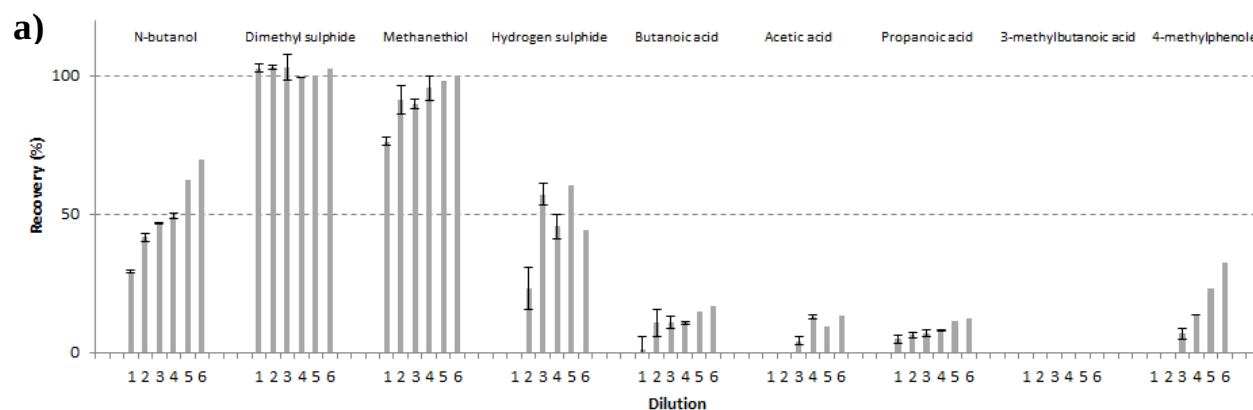
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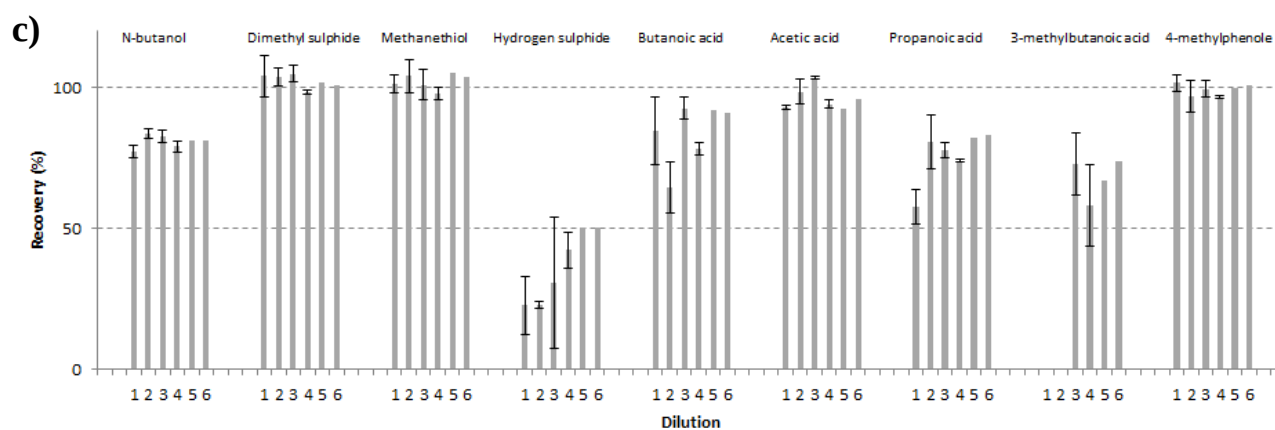
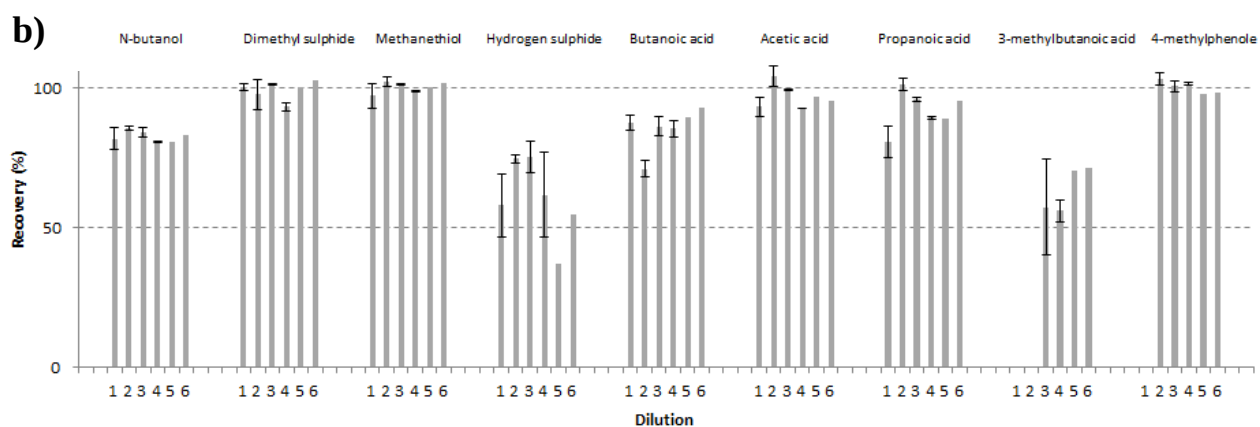
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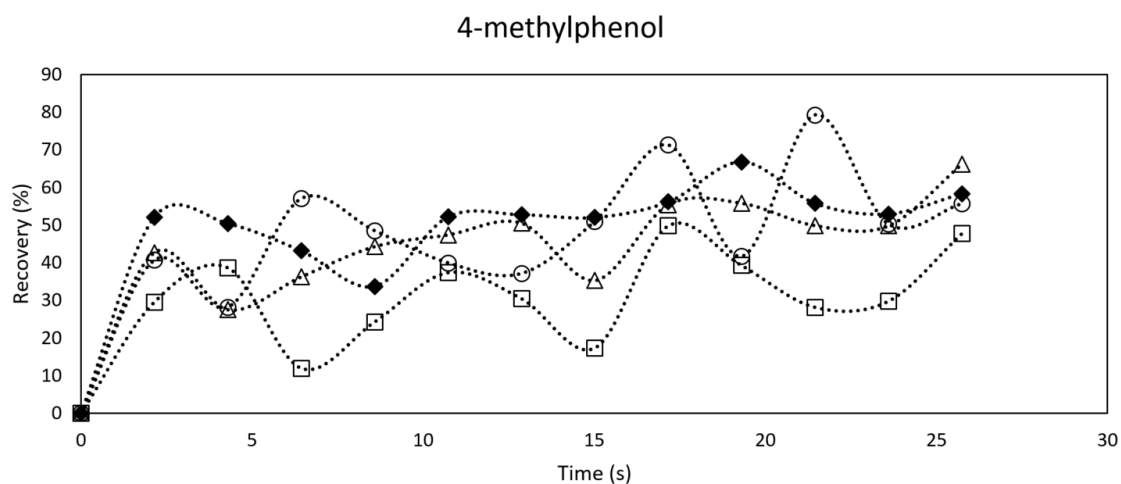


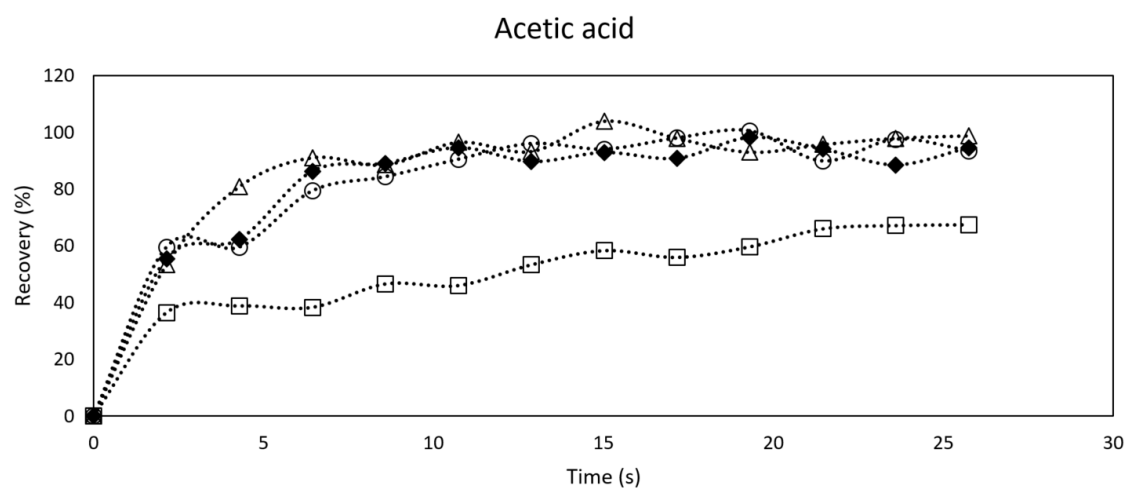
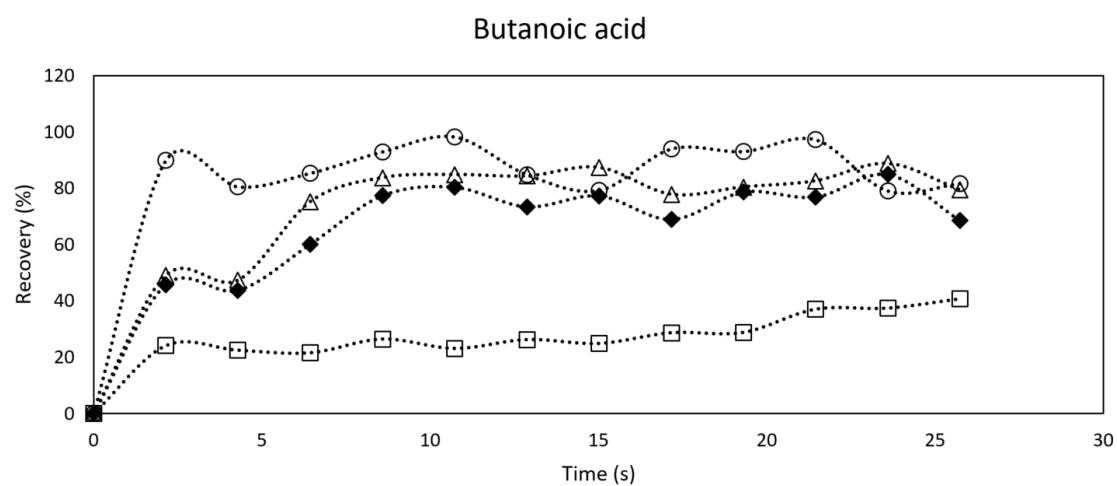
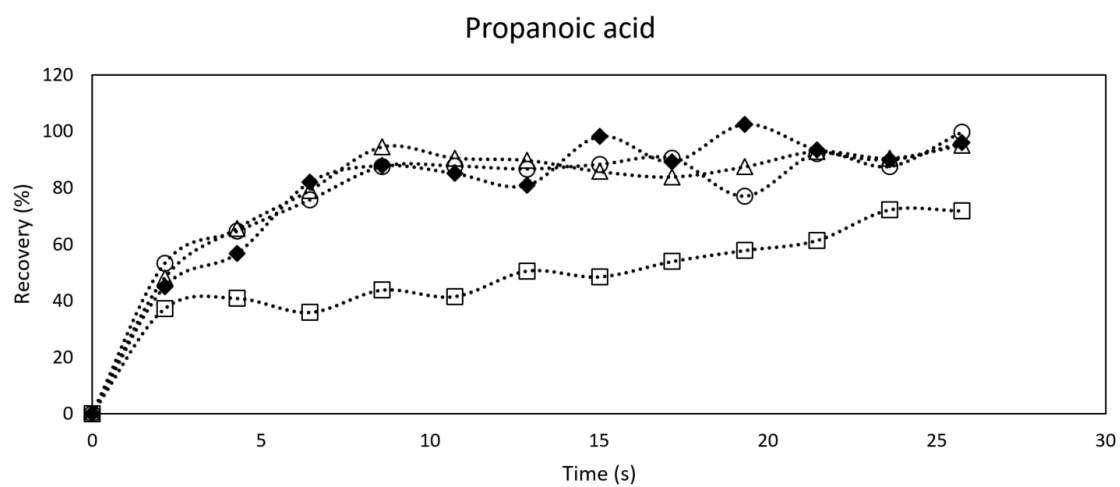
Supplemental Figure S1. Inlet and outlet concentration of trimethylamine in glass olfactometer

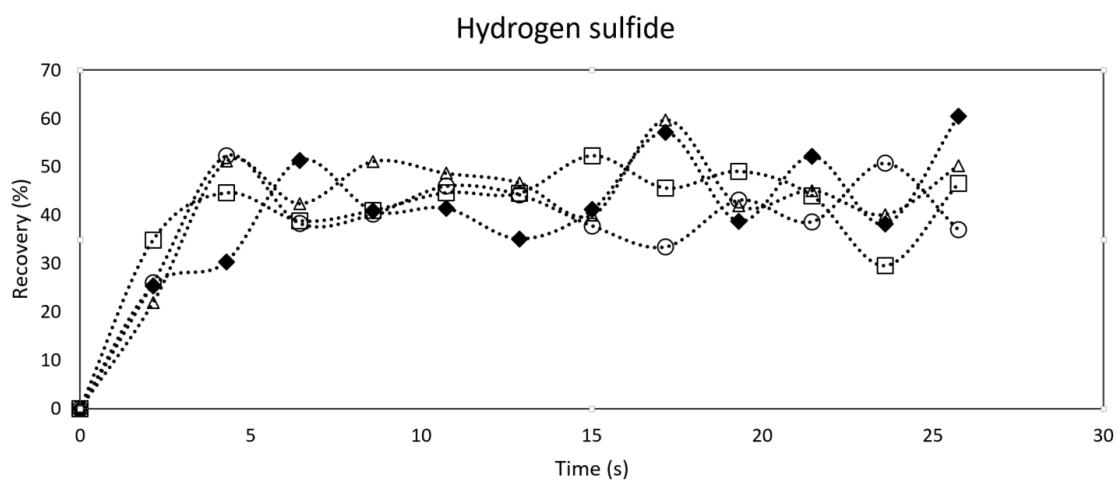
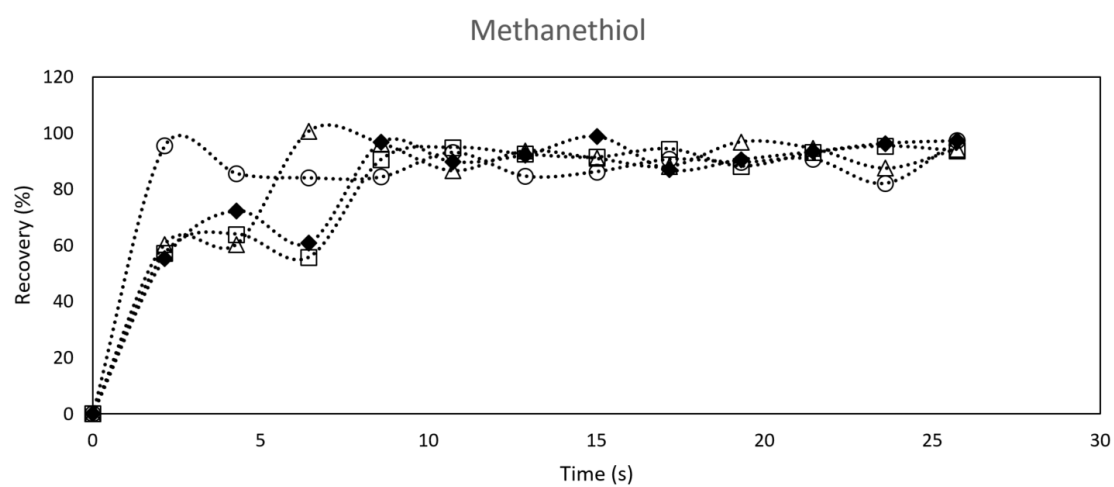
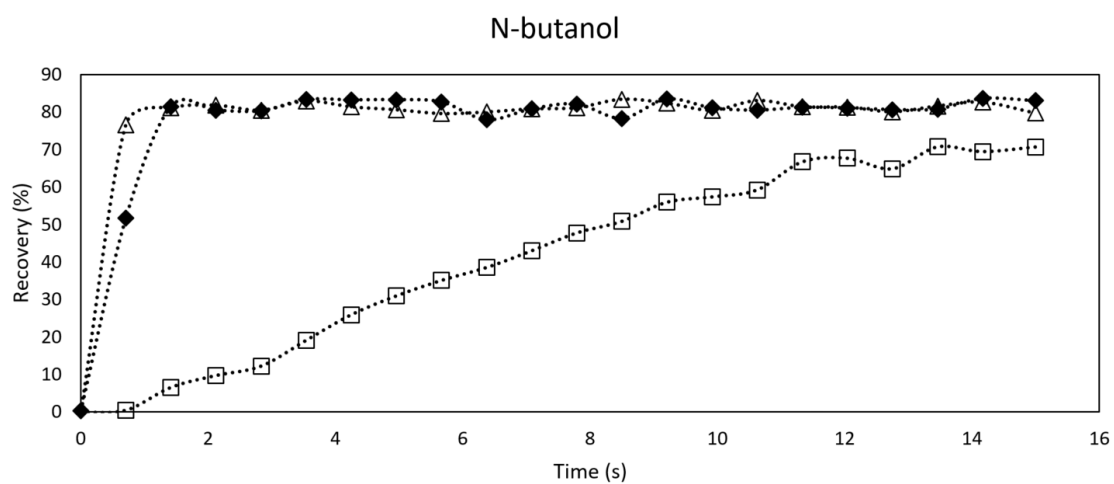




Supplemental Figure S2. Average recovery of odorants after 15 s. when flushed through the TO8 and a tube of a) stainless steel, b) PTFE, c) PFA. Numbers indicate dilution factor (1: 3571, 2:1958, 3:970, 4:483, 5:236, 6:125)







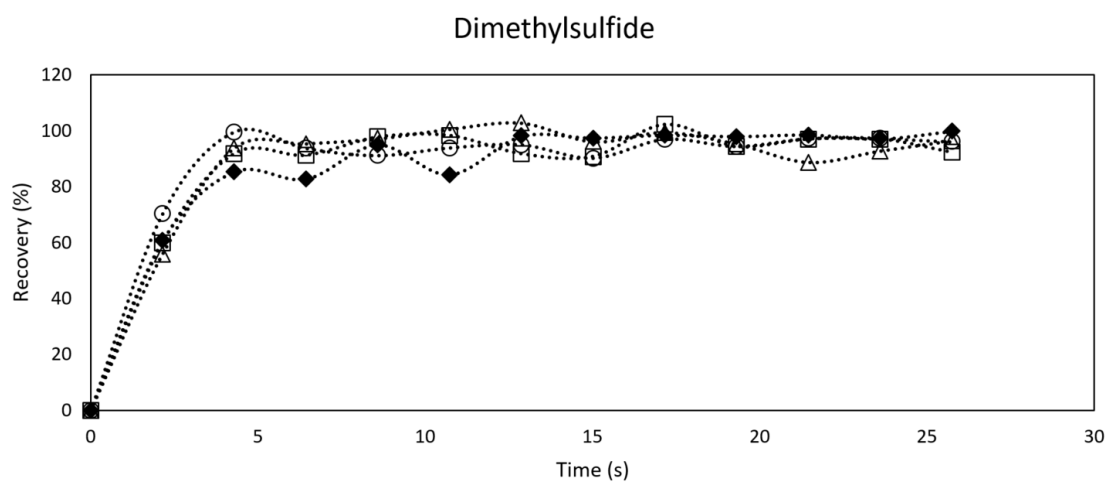
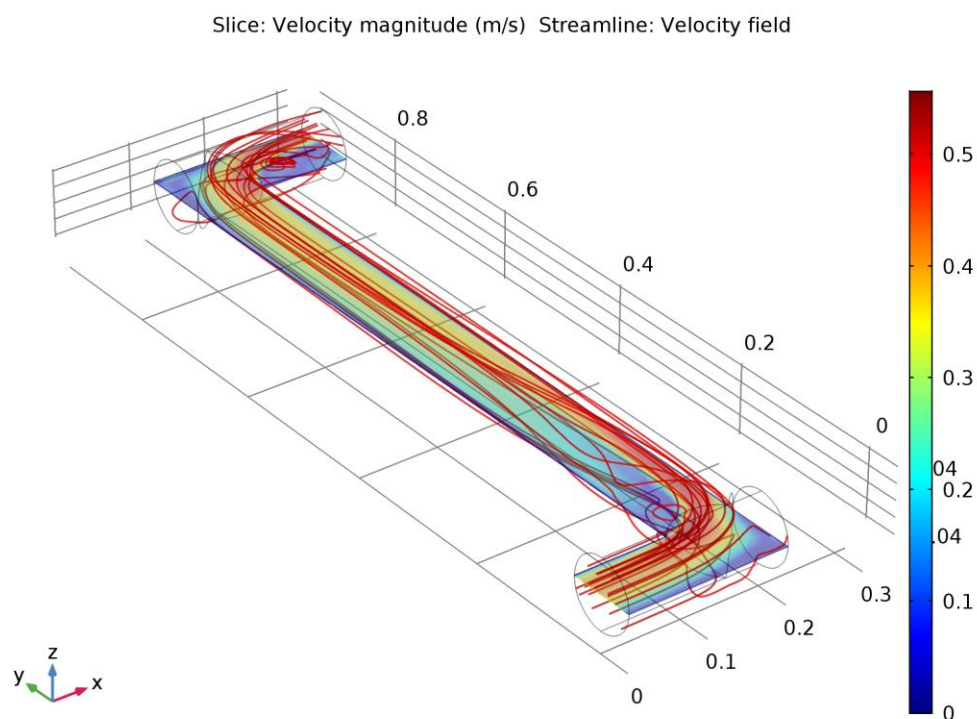


Figure S3. Recovery of odorants when flushed through tubes of different materials. Intermediate dilution (concentration levels) are presented. Dilution factor = 365. Note that, due to saturation effects) the adsorption will be increased for higher dilution factors and decreased for lower dilution factors.

---○--- SilcoTek ---□--- Stainless steel ---◆--- PTFE ---△--- PFA



Supplemental Figure S4: Cross section of the velocity magnitude (m/s) Streamline through the velocity field showing recirculation zones at the inside of bends.