

Supplementary Materials

to

TiO₂ mediated photocatalytic mineralization of a non-ionic detergent: comparison and combination with other advanced oxidation procedures

Péter Hegedűs, Erzsébet Szabó-Bárdos, Ottó Horváth *, Krisztián Horváth and Péter Hajós

Figure S1. Ln(c) vs. time plot for the starting tensid during the photocatalysis in the aerated system containing 2×10^{-4} mol dm⁻³ Triton X-100 and 1 g dm⁻³ catalyst ($l = 1$ cm).

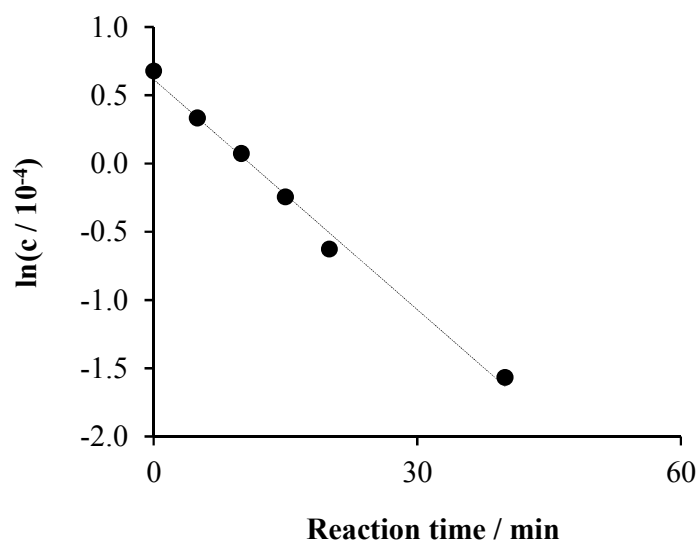


Figure S2. The change of the emission intensity (after removal of the suspended TiO₂) during the photocatalysis in the aerated system containing 2×10^{-4} mol dm⁻³ Triton X-100 and 1 g dm⁻³ catalyst ($l = 1$ cm, $\lambda_{\text{ex}} = 277$ nm, $\lambda_{\text{em}} = 302$ nm).

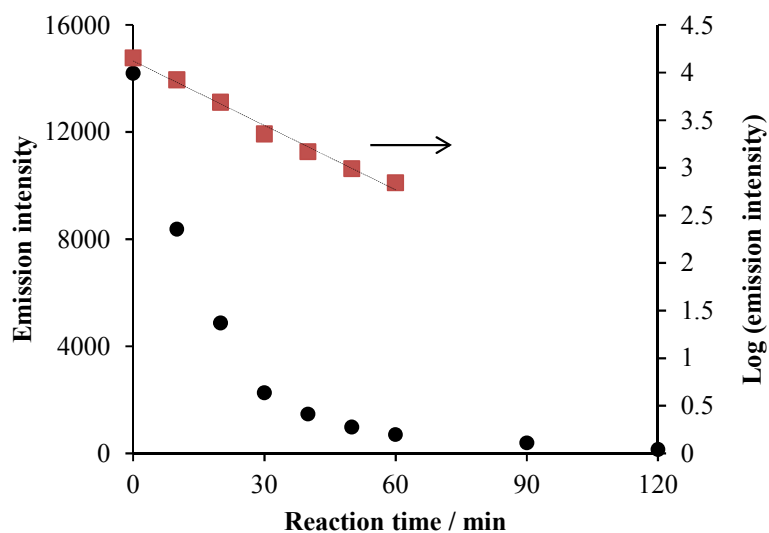
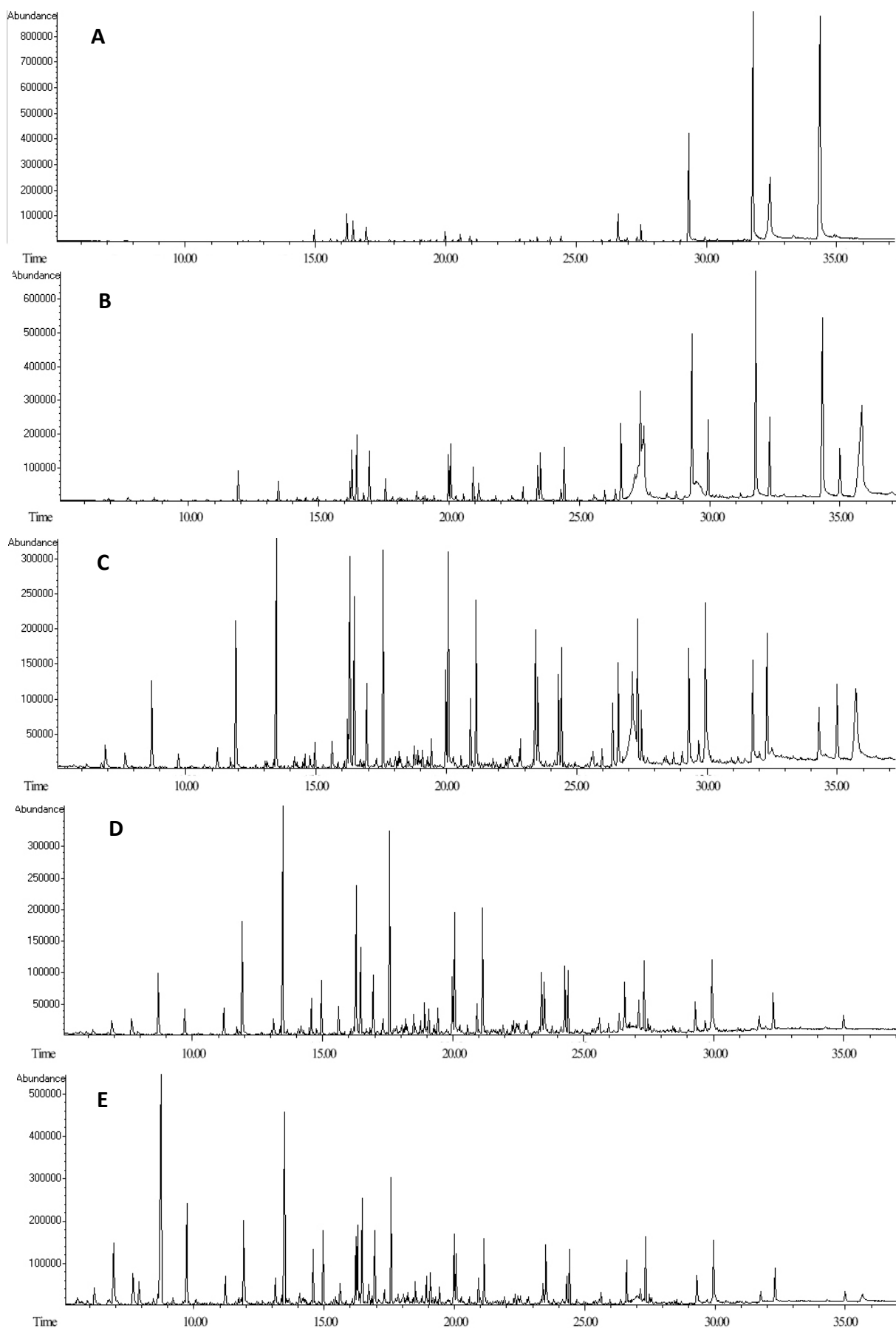


Figure S3. Total ion chromatogram of the components extracted from the reaction mixture after 0 min (A), 10 min (B), 30 min (C), 60 min (D), 90 min (E), 120 min (F), and 180 min (G) irradiation.



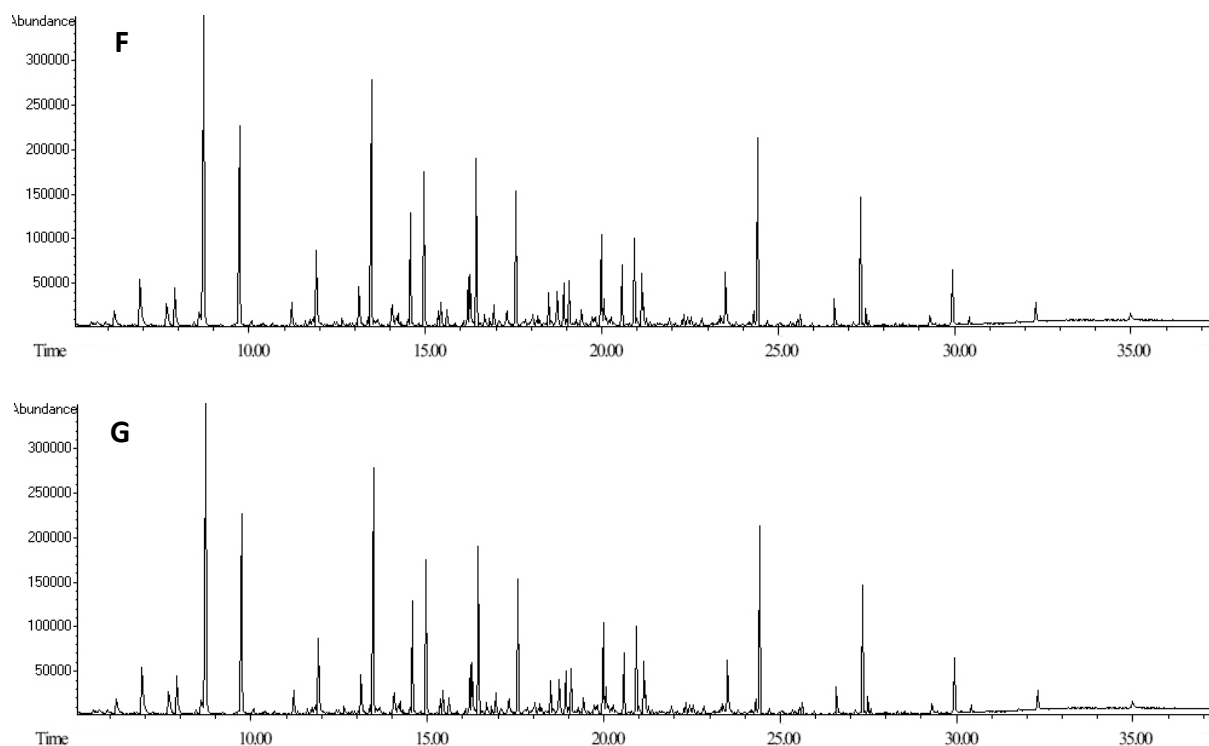


Figure S4. Mass spectra of the typical components extracted from the reaction mixture. The corresponding retention times: 34.36 min (A), 31.78 min (B), 29.32 min (C), 26.60 min (D), 23.51 min (E), 16.46 min (F), 11.92 min (G), 9.73 min (H).

