

Supplementary Materials

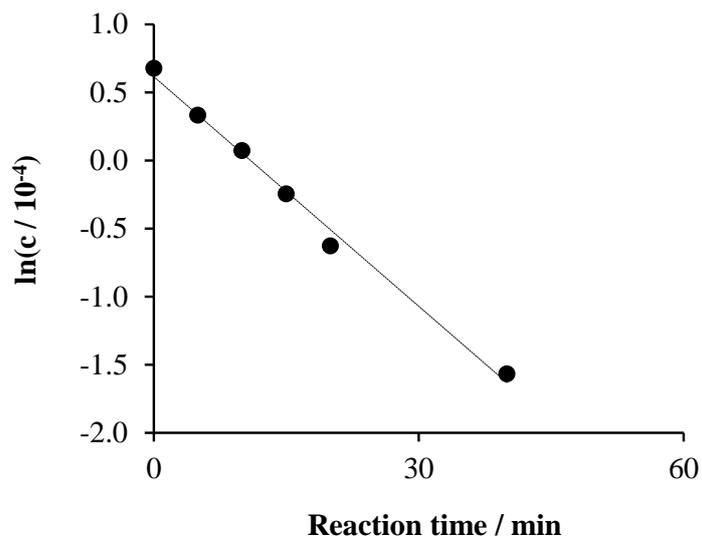


Figure S1. $\ln(c)$ vs. time plot for the starting tensid during the photocatalysis in the aerated system containing $2 \times 10^{-4} \text{ mol dm}^{-3}$ Triton X-100 and 1 g dm^{-3} catalyst ($l = 1 \text{ cm}$).

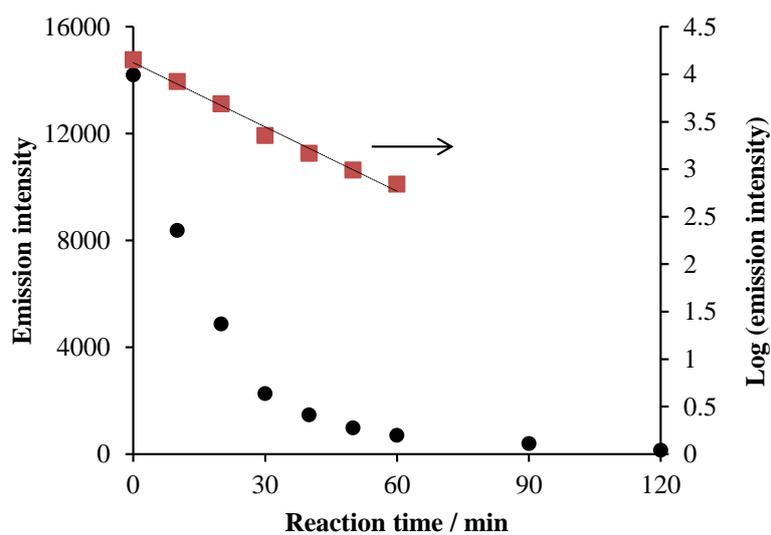


Figure S2. The change of the emission intensity (after removal of the suspended TiO_2) during the photocatalysis in the aerated system containing $2 \times 10^{-4} \text{ mol dm}^{-3}$ Triton X-100 and 1 g dm^{-3} catalyst ($l = 1 \text{ cm}$, $\lambda_{\text{ex}} = 277 \text{ nm}$, $\lambda_{\text{em}} = 302 \text{ nm}$).

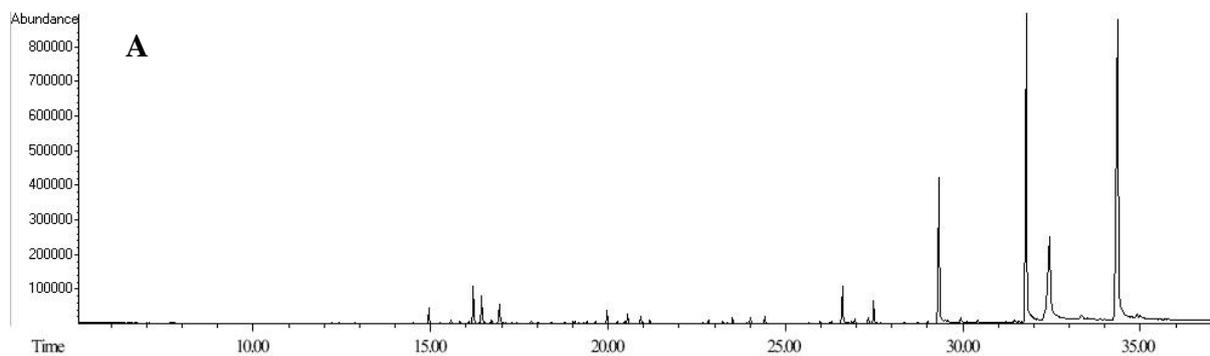


Figure S3. *Cont.*

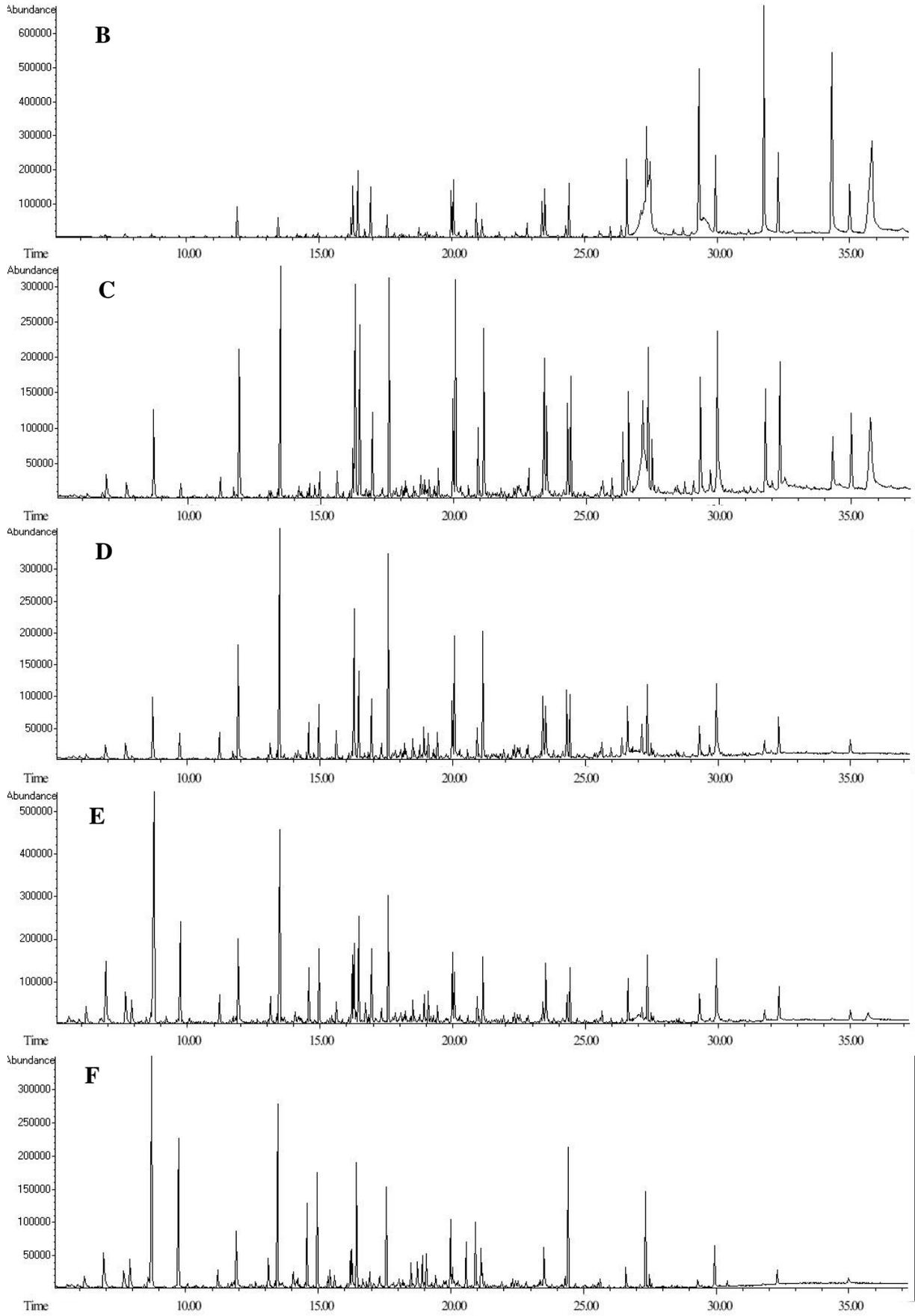


Figure S3. Cont.

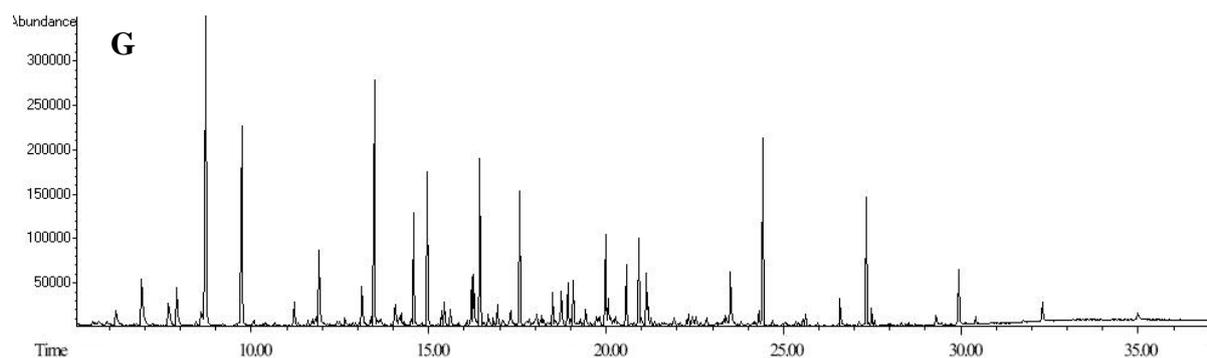


Figure S3. Total ion chromatogram of the components extracted from the reaction mixture after 0 min (**A**); 10 min (**B**); 30 min (**C**); 60 min (**D**); 90 min (**E**); 120 min (**F**); and 180 min; (**G**) irradiation.

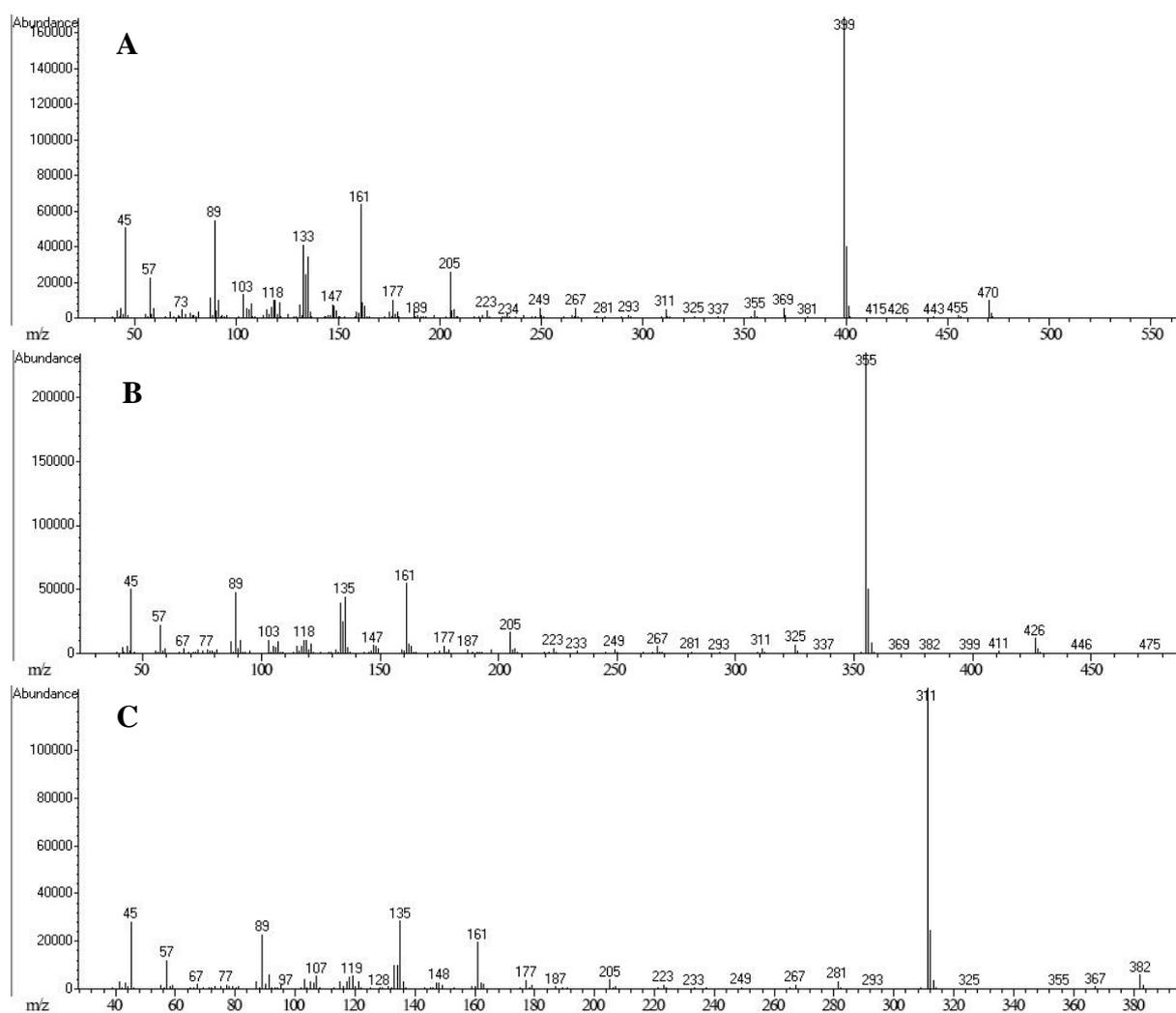


Figure S4. Cont.

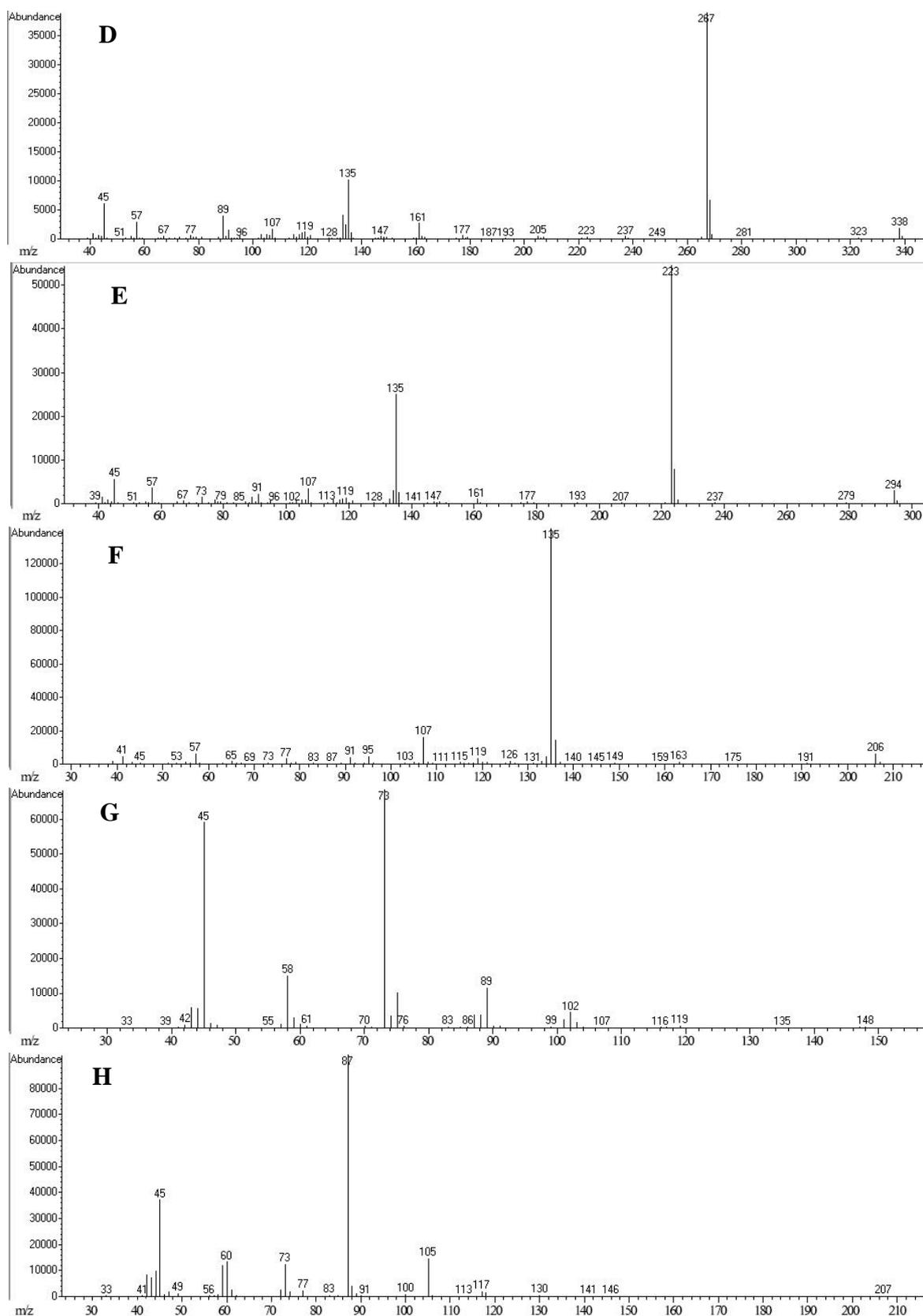


Figure S4. Mass spectra of the typical components extracted from the reaction mixture. The corresponding retention times: 34.36 min (A); 31.78 min (B); 29.32 min (C); 26.60 min (D); 23.51 min (E); 16.46 min (F); 11.92 min (G); 9.73 min (H).