

3.3. Fluorescence emission–excitation matrices (EEMS) of the secondary and photocatalytically treated wastewaters were measured using a Fluoromax+ (Horiba) luminescence spectrometer, by means of scanning the emission wavelengths (Em) from 260 to 600 nm at 1 nm–increments and stepping through the excitation wavelengths (Ex) from 240 to 550 nm at 5 nm intervals. Inorganic ions were determined using an ion chromatograph (Shimadzu CDD–6A) equipped with a column (Shimadzu Shim–pack IC–A3 150 x 4.00 mm, 5 μ m), a column oven (CTO–10A VP) and a conductivity detector (Shimadzu CBM–20A). Determination of Physicochemical Parameters Five–day biochemical oxygen demand (BOD₅) was measured by means of a WTW OxiTop OC 110 system and a WTW TS 606–G/2–i thermostat cabinet (WTW, Weilheim, Germany). Absorbance at 254 nm was determined using a UV–Vis spectrophotometer (Jasco–V630, Tokyo, Japan) in order to indirectly evaluate the aromatic compound content.