



**Photodegradation of Fluoxetine Applying Different Photolytic Reactors: Evaluation of the Process Efficiency and Mechanism**

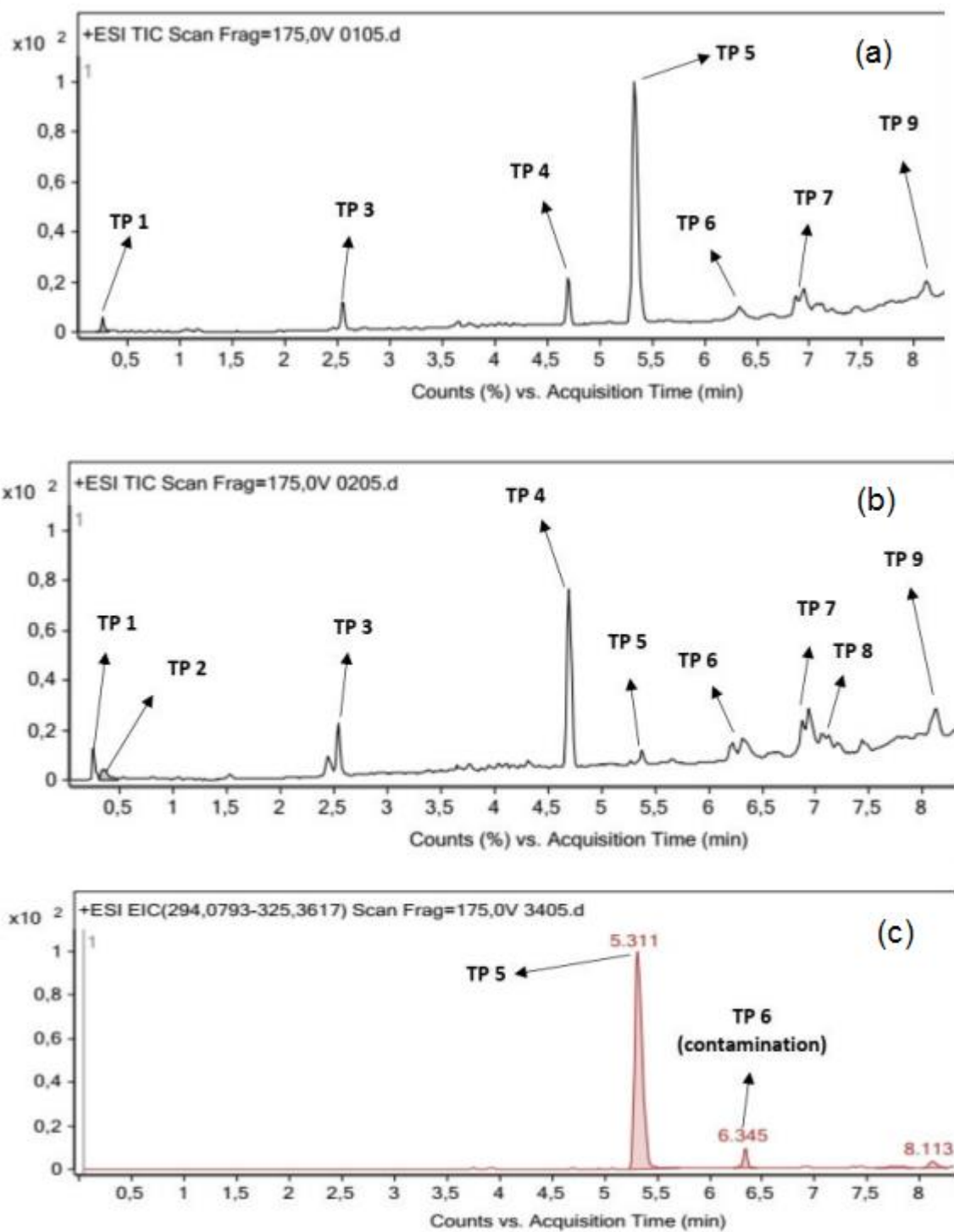
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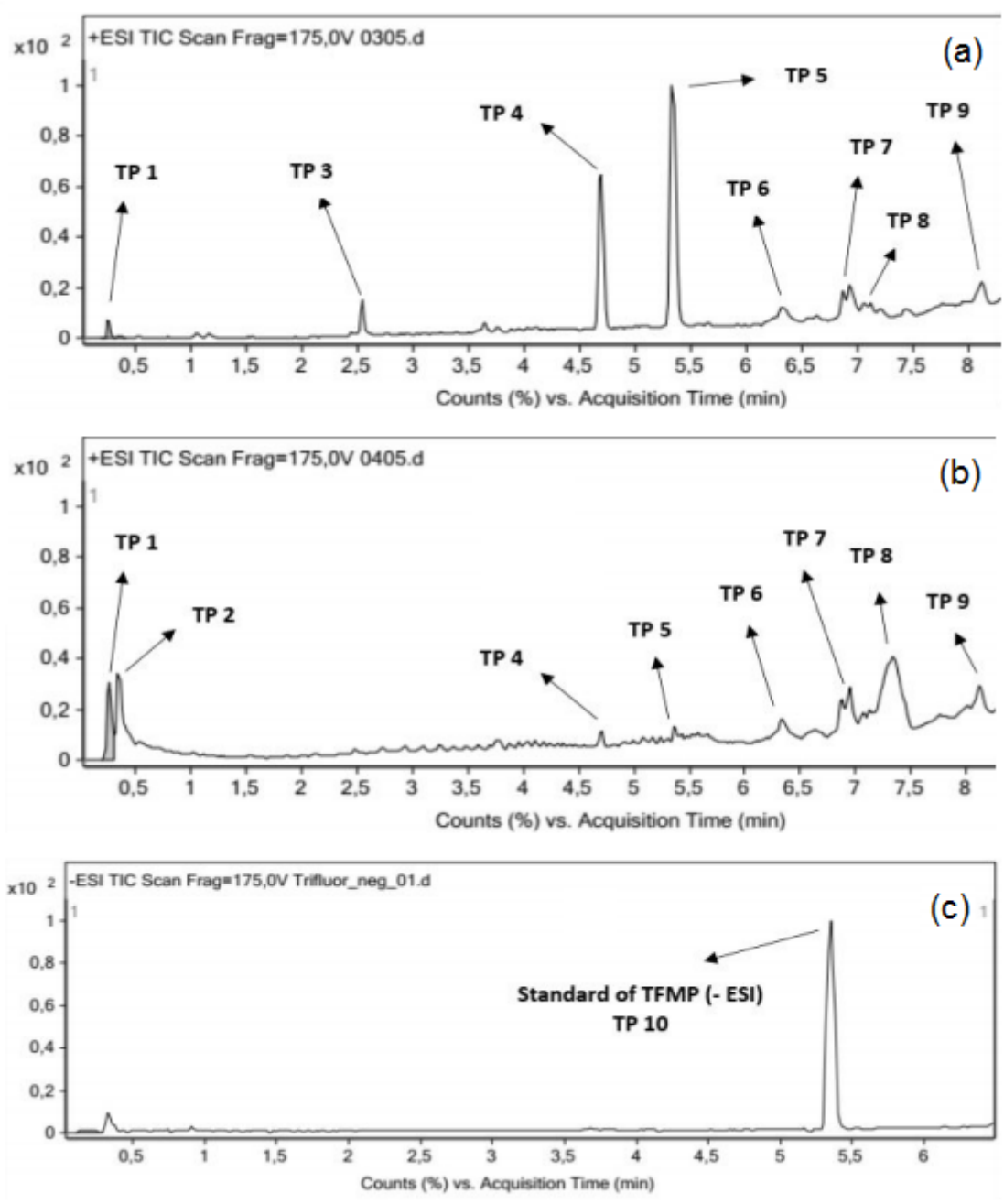
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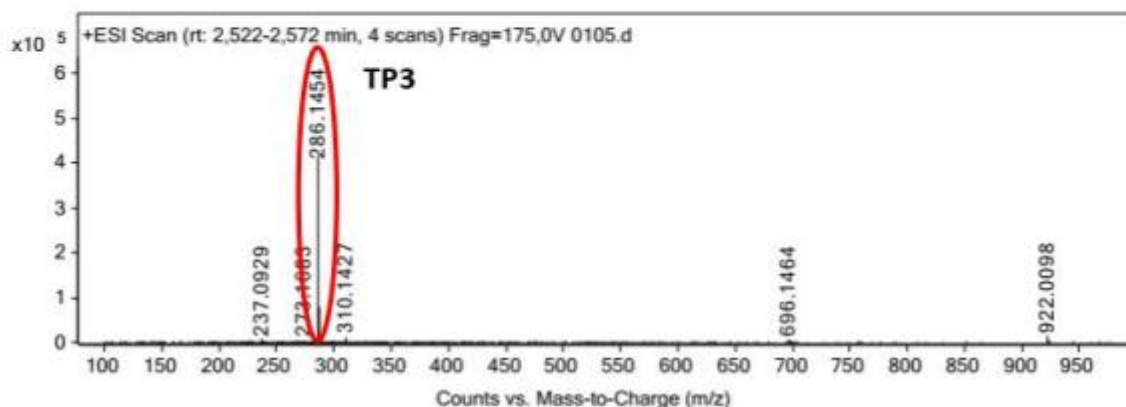
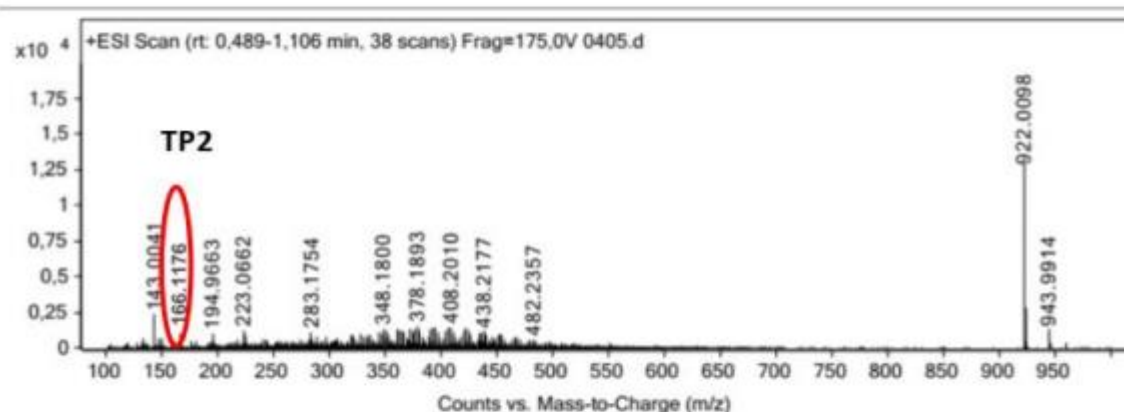
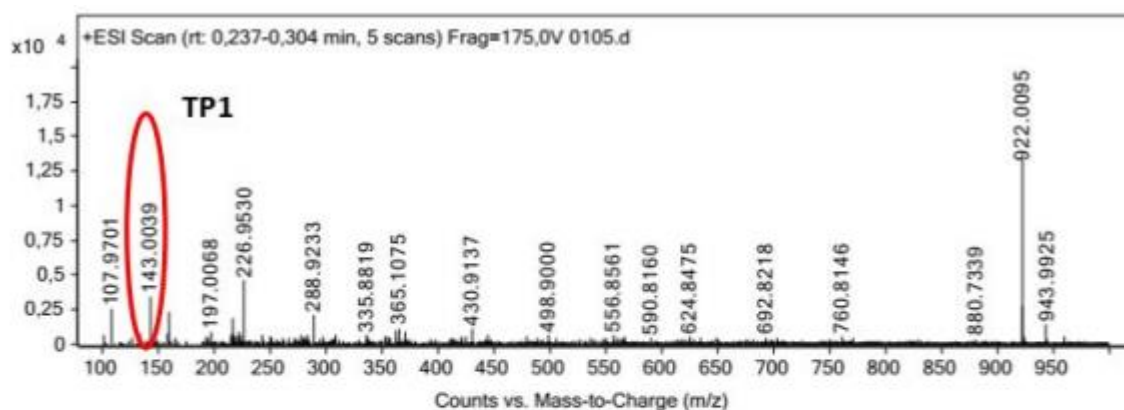
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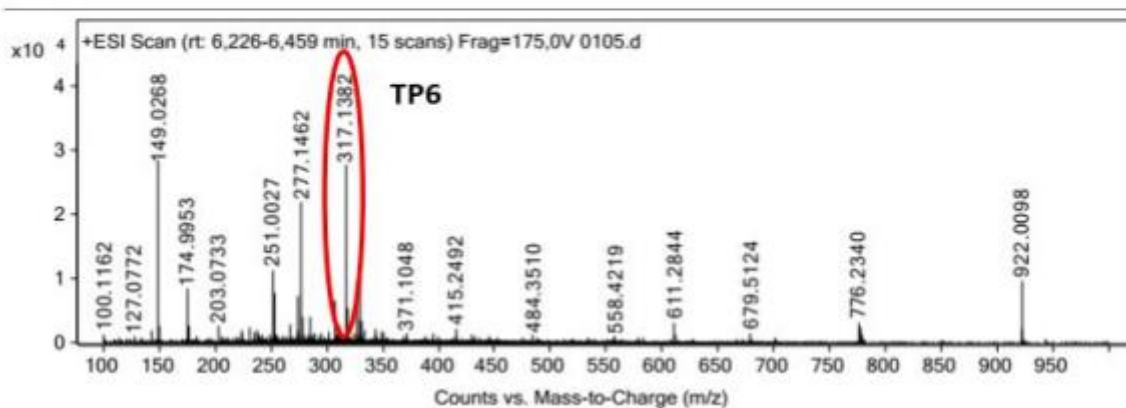
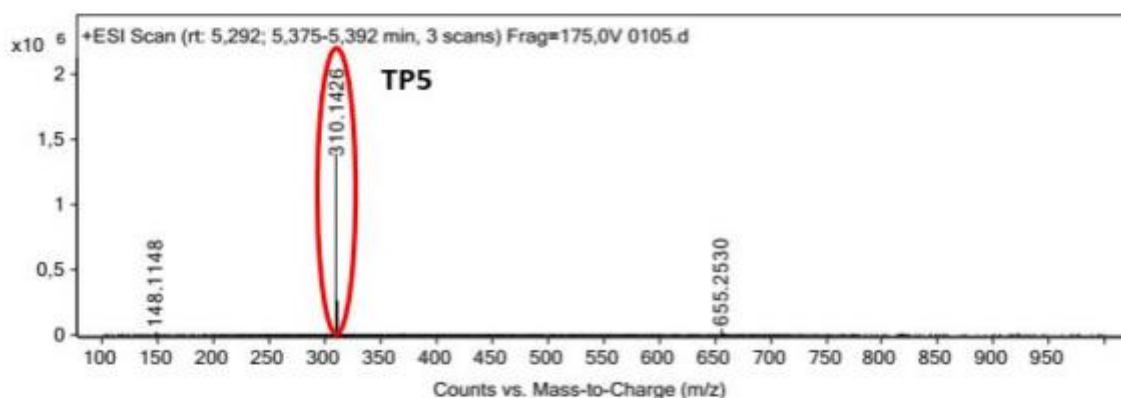
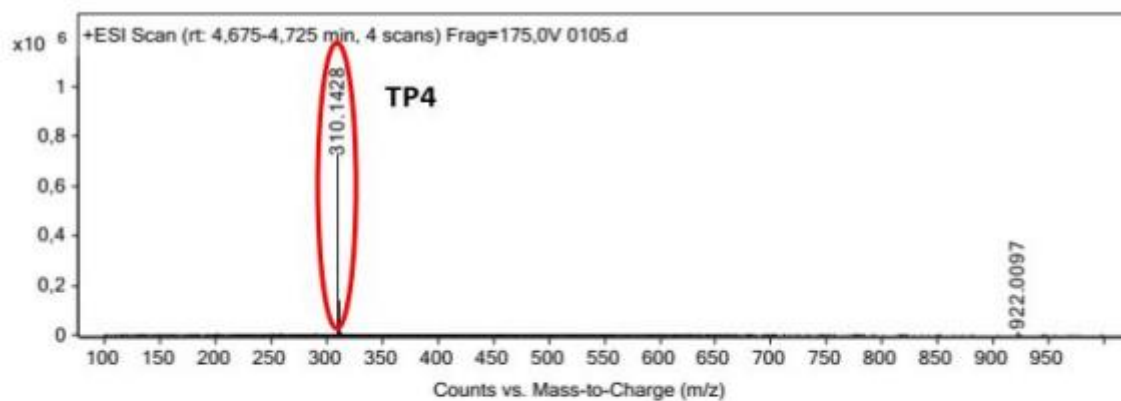
**Figure S1.** Chromatogram obtained after degradation of FLX in UV system for (a) 3 and (b) 60 min, and (c) standard solution of FLX (without irradiation).



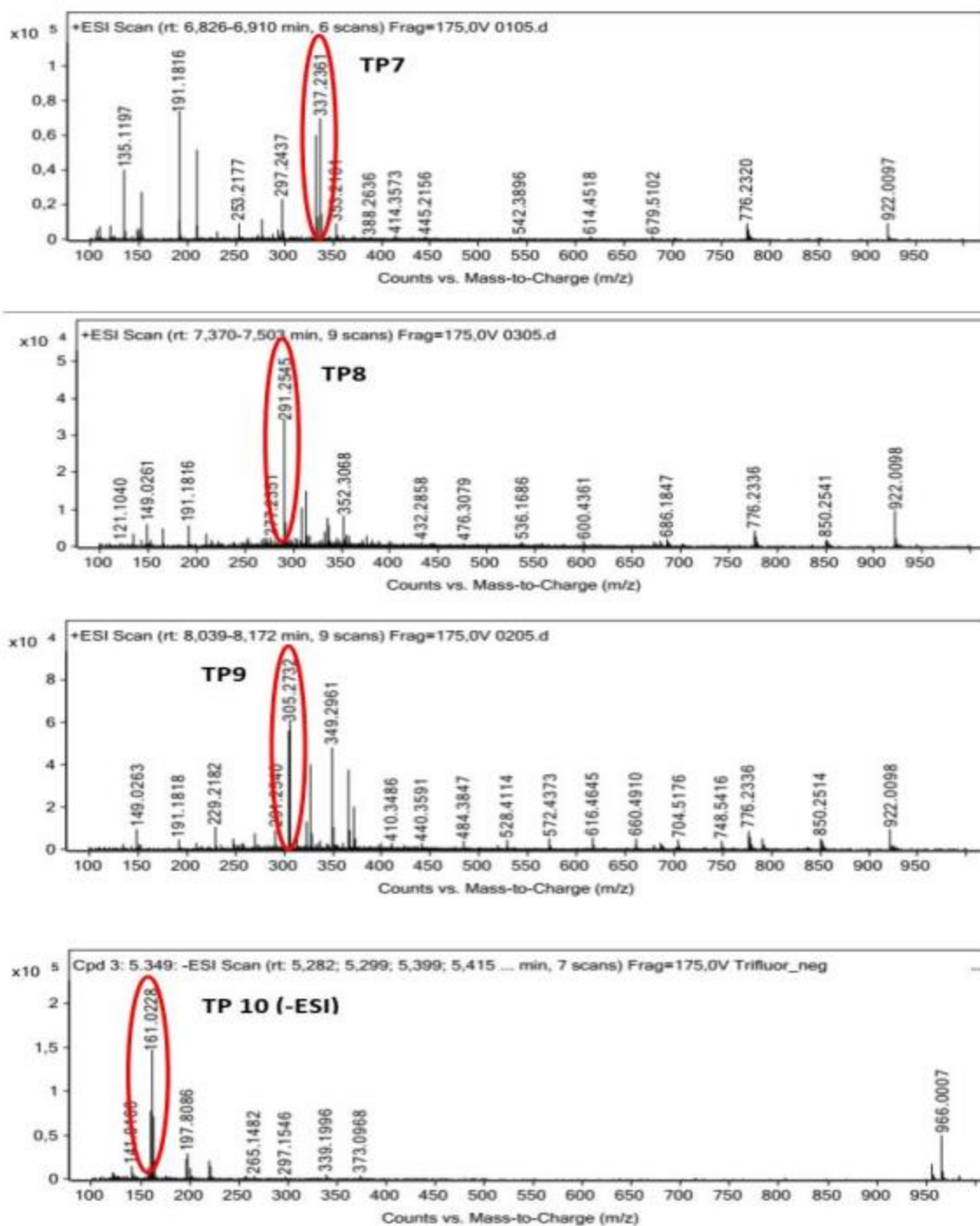
**Figure S2.** Chromatogram obtained after degradation of FLX in UV/MW system for (a) 0.083, (b) 2.0 min and (c) standard solution of TFMP analyzed in electrospray (ESI(-)).



**Figure S3.** Accurate mass measurement of the standard products (FLX (TP 5) and 4-trifluoromethylphenol (TP 10)) and their transformation products (TP) after degradation of FLX in UV and UV/MW reactor under the conditions described in the Experimental section (main text). The time-of-flight mass spectra were obtained in positive electrospray (+ESI TIC Scan Frag = 175 V) mode in the range  $m/z$  [ $H^+$ ] 100-1,000 at the following optimized operating conditions: nebulizer, 45.0 psig; dry gas, 10.0 L  $min^{-1}$ ; dry heater, 325 °C; capillary voltage, 3,500 V and collision energies (0 eV).



**Figure S3.** (cont.) Accurate mass measurement of the standard products (FLX (TP 5) and 4-trifluoromethylphenol (TP 10)) and their transformation products (TP) after degradation of FLX in UV and UV/MW reactor under the conditions described in the Experimental section (main text). The time-of-flight mass spectra were obtained in positive electrospray (+ESI TIC Scan Frag = 175 V) mode in the range  $m/z$  [ $H^+$ ] 100-1,000 at the following optimized operating conditions: nebulizer, 45.0 psig; dry gas, 10.0 L  $min^{-1}$ ; dry heater, 325 °C; capillary voltage, 3,500 V and collision energies (0 eV).



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