Electronic Supplementary Material (ESI) for RSC Advances.

SUPPLEMENTARY MATERIAL

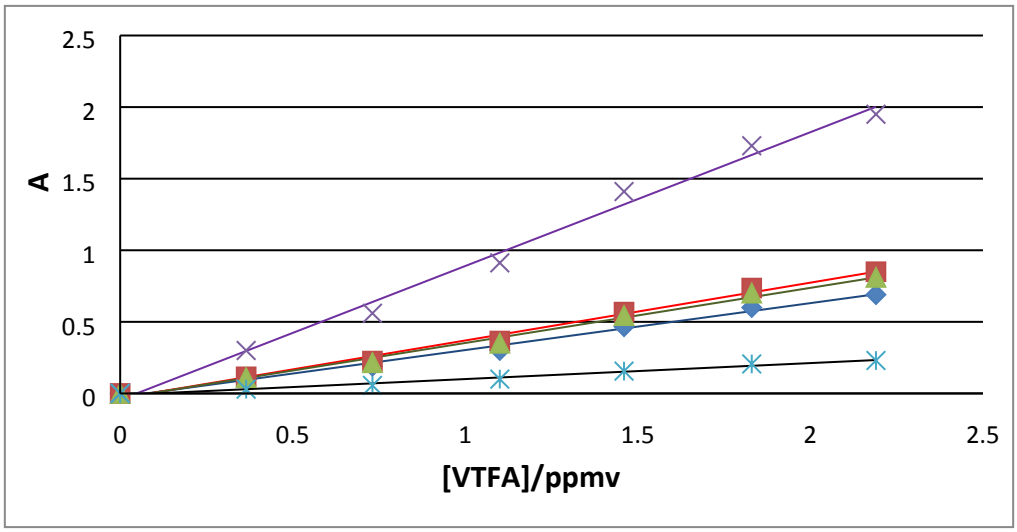

Figure S1: Plots of absorbance vs. compound concentration for VTFA, at different wavenumber: 1816 (blue), 1240 (red), 1193 (green), 1160 (purple) and 1657 (orange) cm^{-1}.

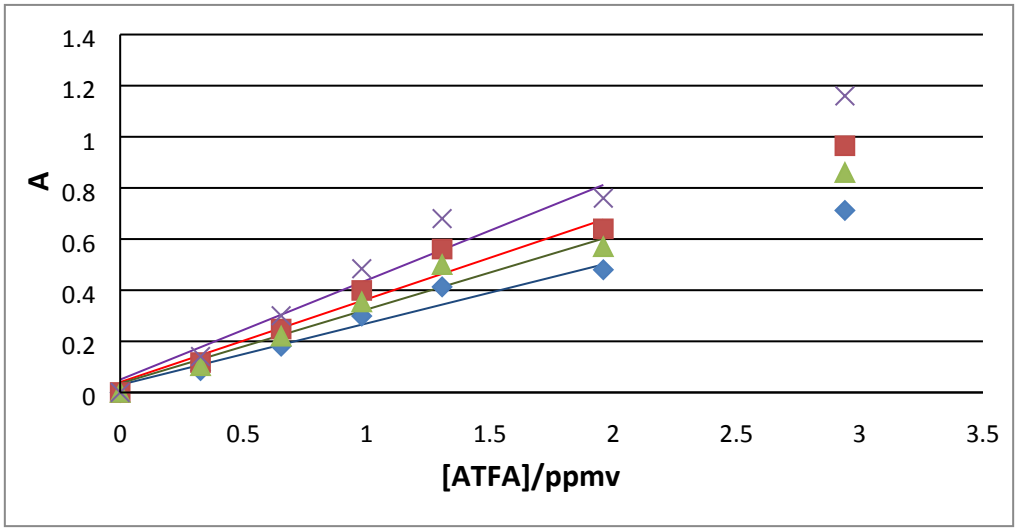

Figure S2: Plots of absorbance vs. compound concentration for ATFA, at different wavenumber: 1803 (blue), 1237 (red), 1188 (green), and 1152 (purple) cm^{-1}.

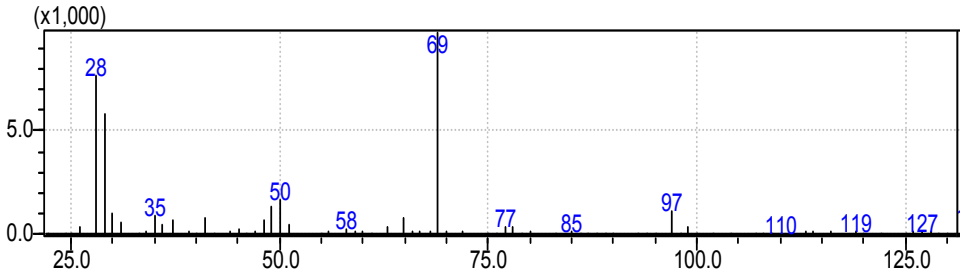

Figure S3. Electron impact mass spectrum (EI-MS) corresponding to the identified product in the reaction of VTFA + Cl atoms in presence and absence of NOx: $CF_3C(O)OC(O)CH_2Cl$.

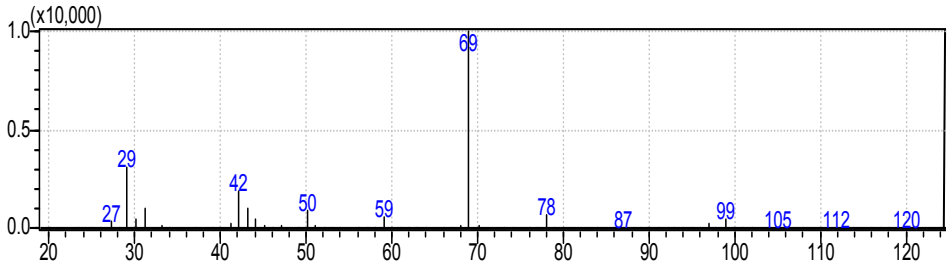

Figure S4. Electron impact mass spectrum (EI-MS) corresponding to the identified product in the reaction of ATFA + OH radicals in presence and absence of NOx: $CF_3C(O)OCH_2CHO$.

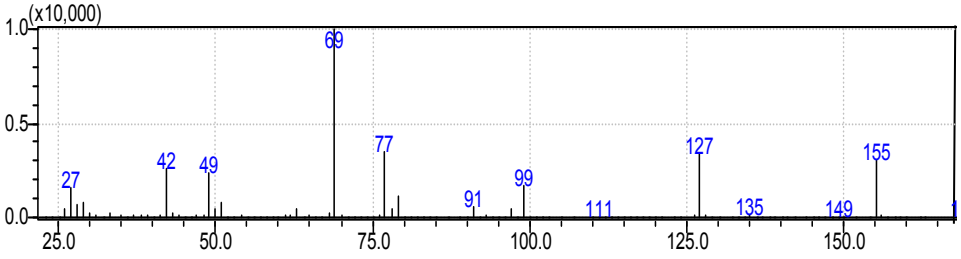

Figure S5. Electron impact mass spectrum (EI-MS) corresponding to the identified product in the reaction of ATFA + Cl atoms in presence and absence of NOx: $CF_3C(O)OCH_2C(O)CH_2Cl$.

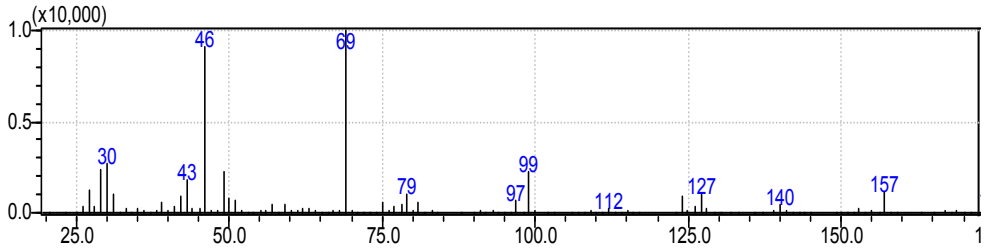

Figure S6. Electron impact mass spectrum (EI-MS) corresponding to the detected product in the reaction of ATFA + Cl atoms in presence of NOx: alkyl nitrate.