Figure S1: IR spectra obtained from the kinetic experimental study of the reaction of \( \text{O}_3 + \text{trans-2-heptenal} \) using ethene as reference compound.

Figure S2: IR spectra obtained from the kinetic experimental study of the reaction of \( \text{O}_3 + \text{trans-2-octenal} \) using ethene as reference compound.
Figure S3: IR spectra obtained from the kinetic experimental study of the reaction of O$_3$+trans-2-nonenal using ethene as reference compound.
Figure S4: Concentration-time profile for trans-2-heptenal.

Figure S5: Concentration-time profile for trans-2-octenal.
Figure S6: Concentration-time profile for trans-2-nonenal.