Fig. 1S. Beer-Lambert plots of CF$_3$(CH$_2$)$_x$CHO at 185 nm and T = 298 K.
Figure 2S. Infrared spectrum of a diluted mixture of CF$_3$CH$_2$CHO and CF$_3$CH$_2$CH$_2$CHO recorded during a kinetic experiment.
Figure 3S

**Fig 3S.** Plots of the Beer-Lambert law obtained in the calibration of the integrated absorption cross sections, $S_{int}$, for CF$_3$CH$_2$CHO and CF$_3$CH$_2$CH$_2$CHO.