

Supplementary materials

Spectra of the reaction mixtures demonstrating influence of radical traps on the yield of investigated reaction; spectra illustrating photochemical stability of *O*-thioacyl hydroxylamines.

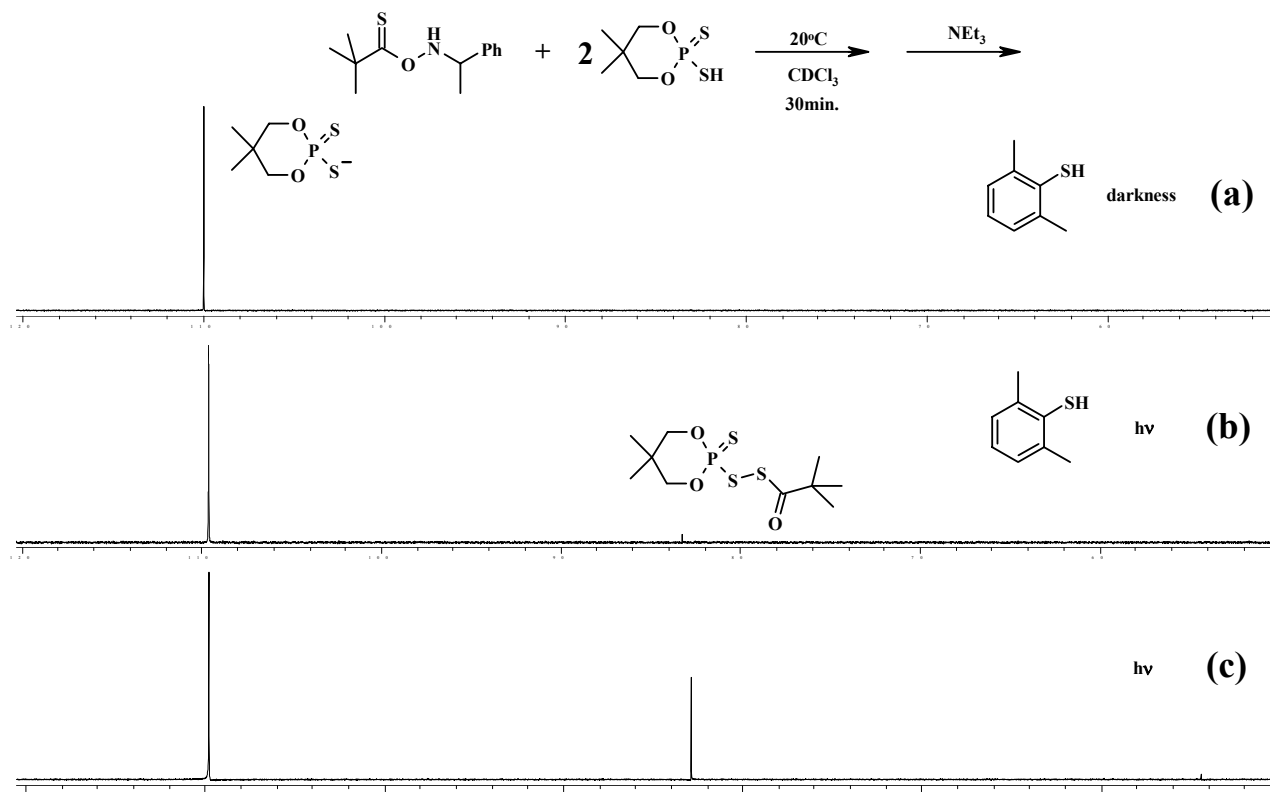


Figure S1. ³¹P NMR spectra of reaction mixtures formed from *O*-thiopivaloyl *N*-1-phenylethylhydroxylamine **7c** and dithiophosphoric acid **1** in the presence of 1,6-dimethylthiophenol at different experimental conditions.

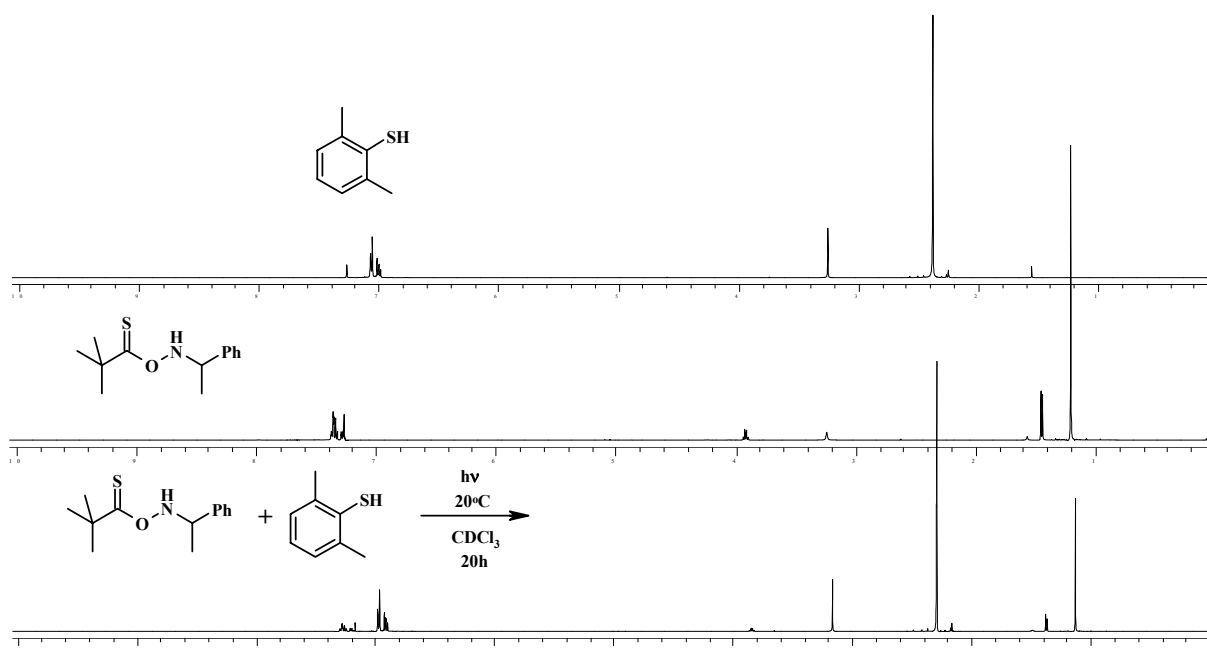


Figure S2. ^1H NMR spectrum of the reaction mixture formed after irradiation of *O*-thiopivaloyl *N*-1-phenylethylhydroxylamine **7c** in the presence of thiophenol **14**. Comparison with the starting materials.

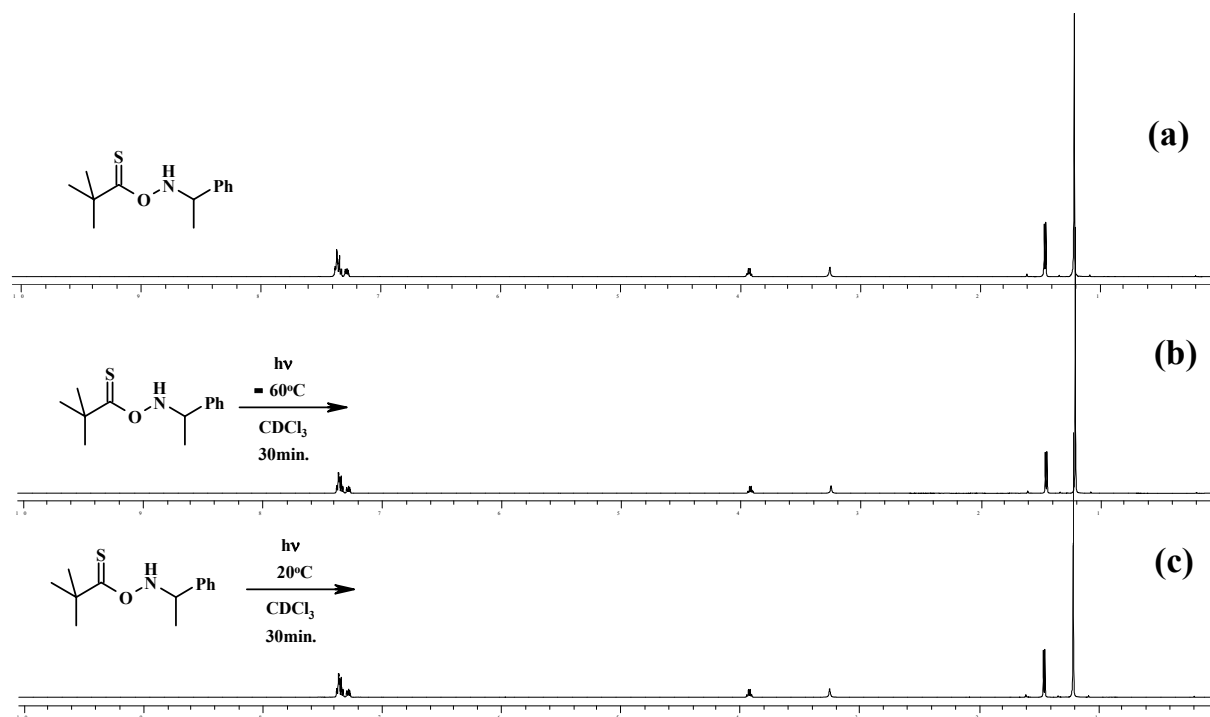


Figure S3. ^1H NMR spectra of the reaction mixtures formed after irradiation of *O*-thiopivaloyl *N*-1-phenylethylhydroxylamine **7c**. Comparison with the starting material.