

Supporting Information

Carotenoid radical formation after multi-photon excitation of 8'-apo- β -carotenal

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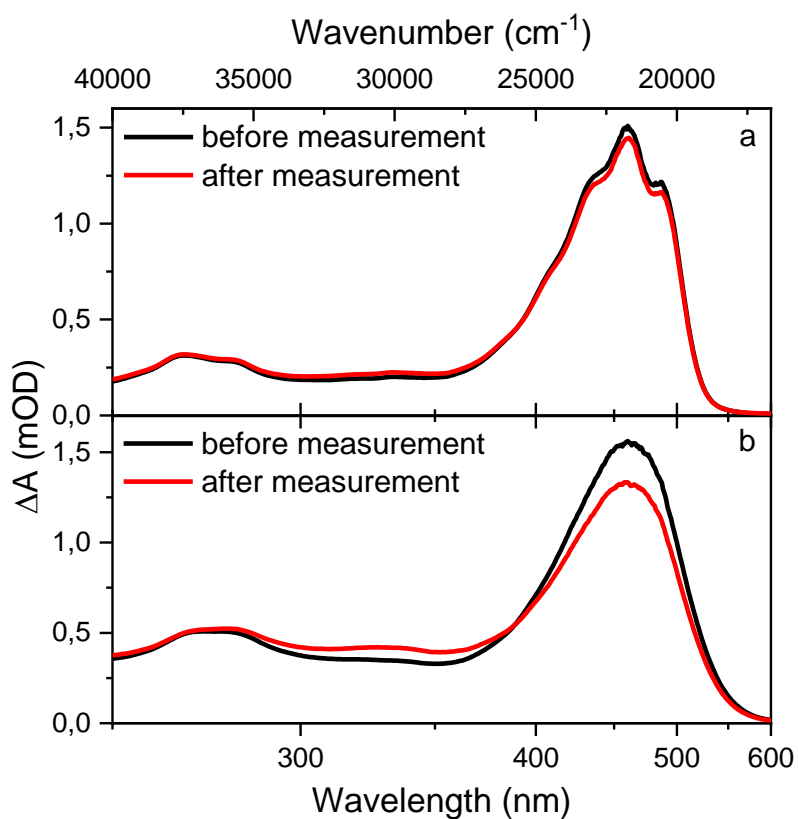


Fig. S1 Comparison of the steady-state absorption spectra of the β -apo-8'-carotenal in (a) *n*-hexane and (b) methanol before and after the 1300 nm multi-photon excitation experiments. Both samples were excited by the 15 mW pump.

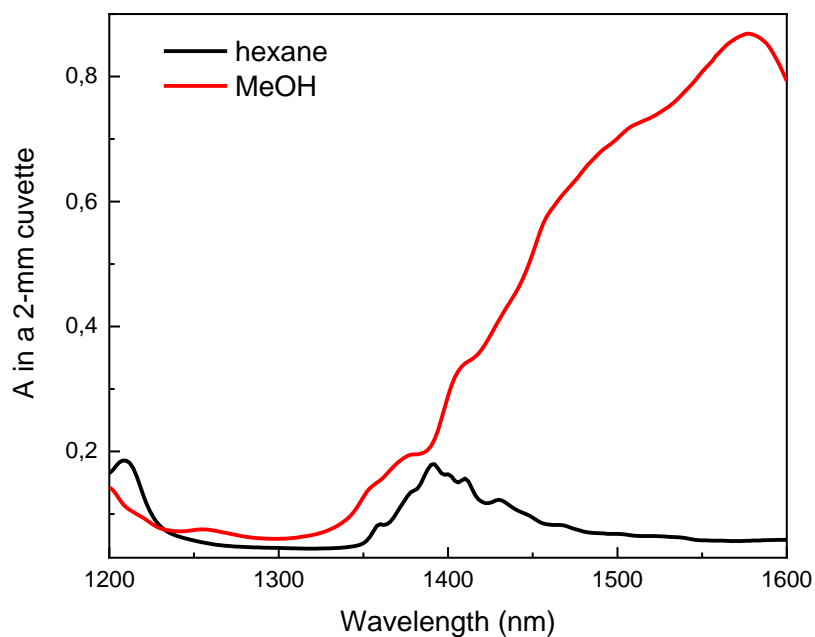


Fig. S2 The steady-state absorption spectrum of the solvents in the NIR spectral region.

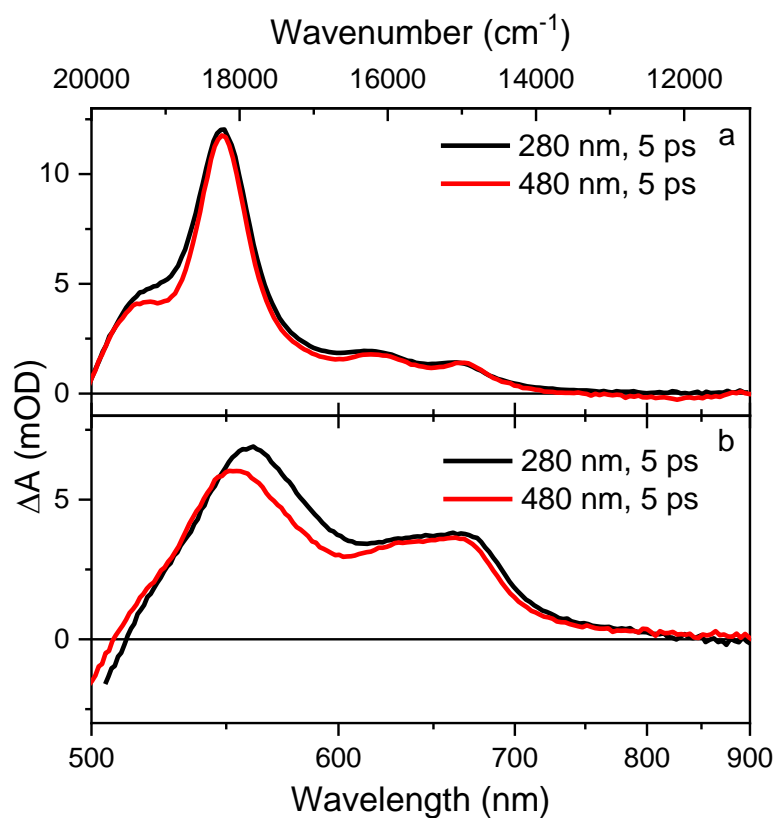


Fig. S3 Comparison of TA spectra after 280 and 480 nm excitation in (a) *n*-hexane and (b) methanol.

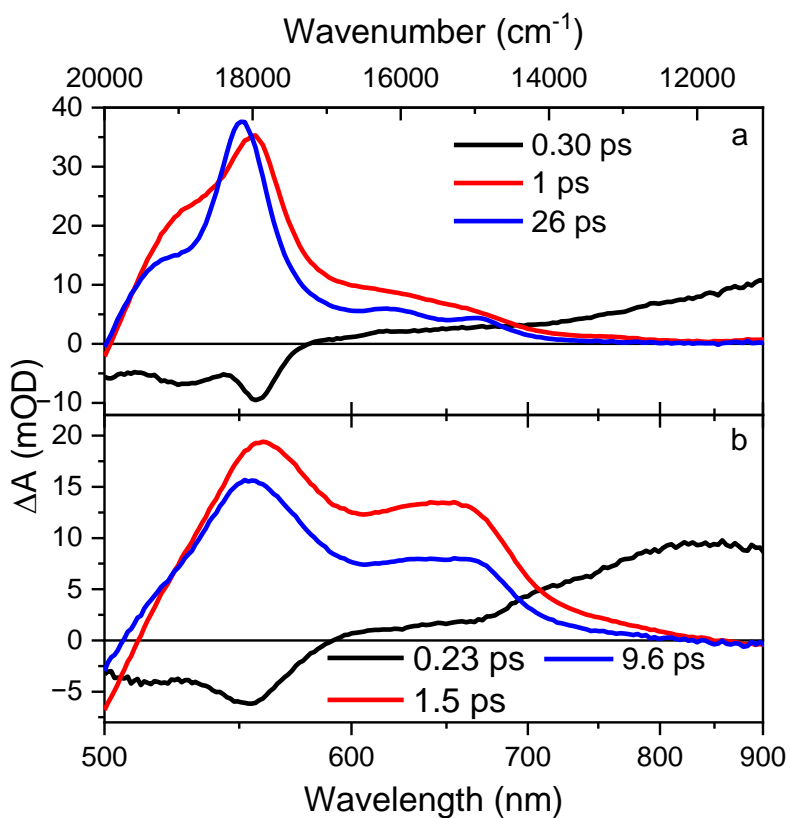


Fig. S4 EADS obtained from global fitting of transient absorption data of β -apo-8'-carotenal in *n*-hexane (a), and methanol (b) after 280 nm excitation.