

Electronic Supplementary Information

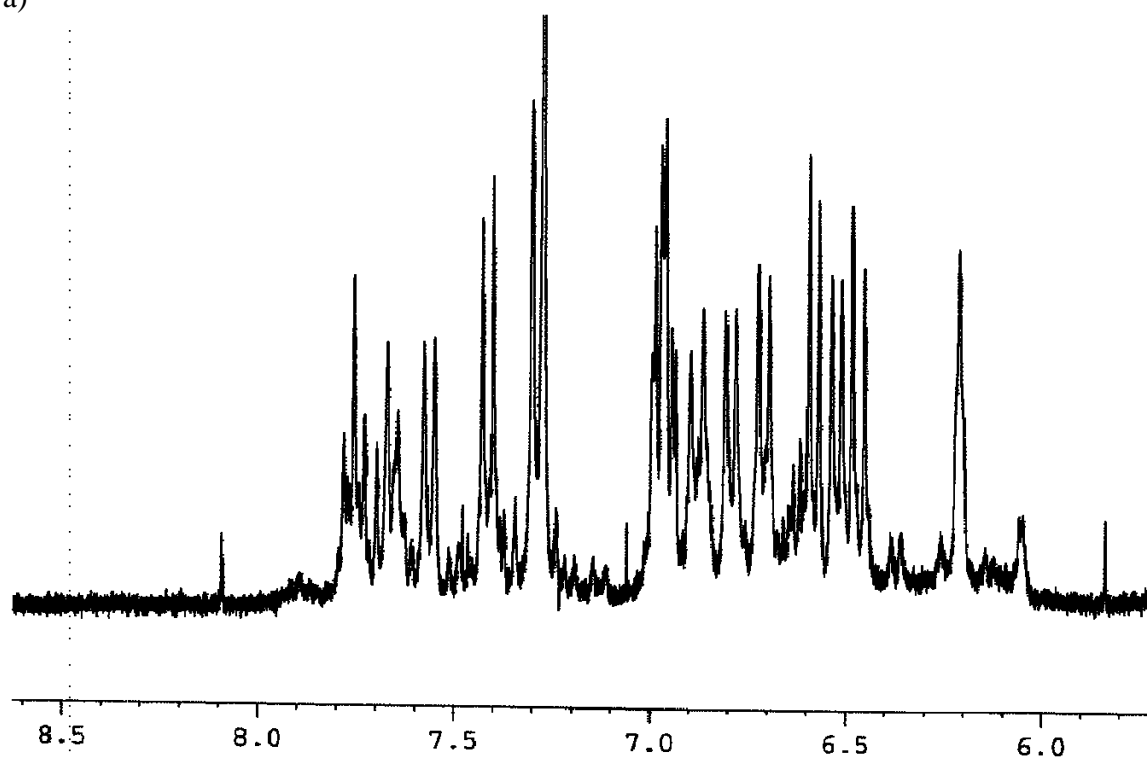
Olefinic region of ^1H NMR spectra (500 MHz) for

a) β,β -carotene (C_{40}) in 0.5 mL CDCl_3 with 10 μL CF_3COOD added, at $-15\text{ }^\circ\text{C}$.

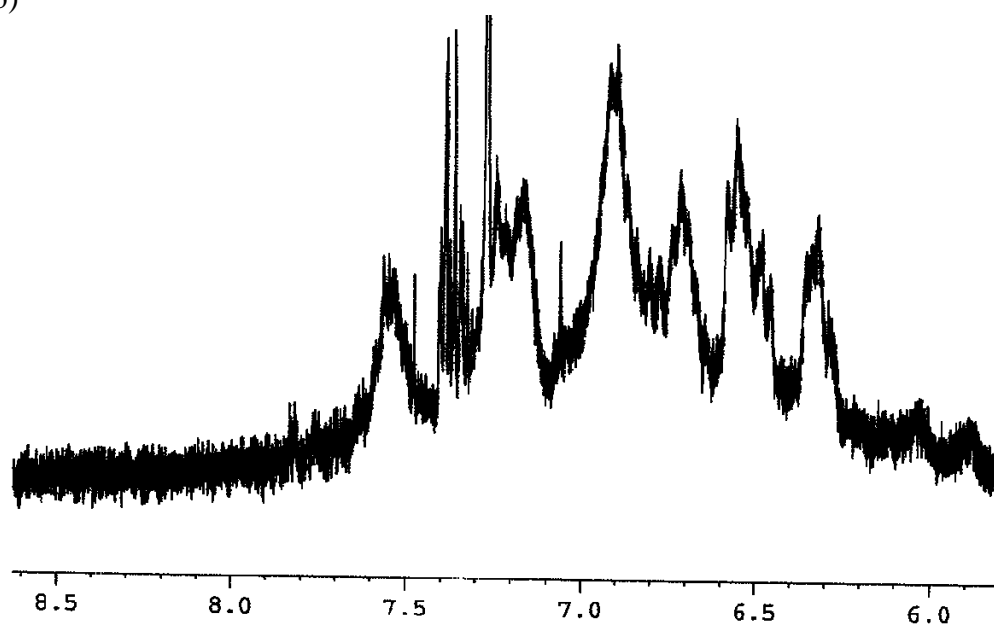
b) Decapreno- β -carotene (C_{50}), same conditions as a).

c) Dodecapreno- β -carotene (C_{60}) in 0.5 mL CD_2Cl_2 with 10 μL CF_3COOD added, at $-5\text{ }^\circ\text{C}$.

a)



b)



c)

