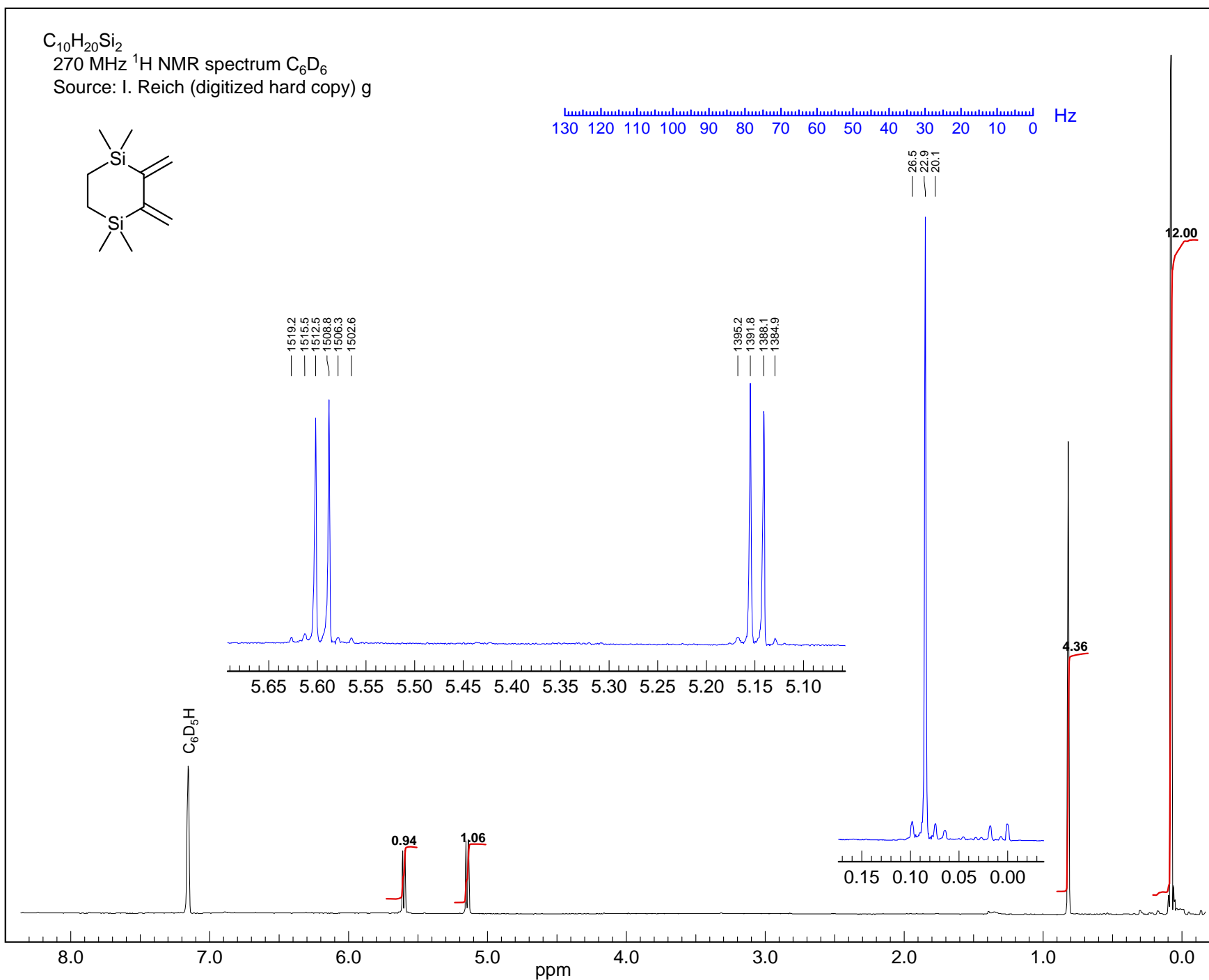


Exercise: Three-bond coupling constants across double bonds for most other nuclei follow the same rules as do H-H and C-H couplings: J_{trans} is almost always greater than J_{cis} . Assign the two vinyl protons in the compound below using this information.

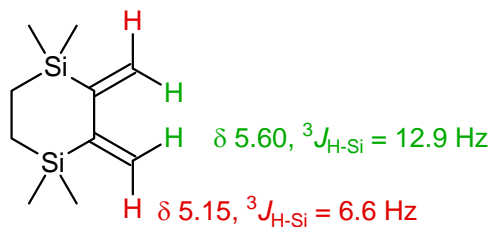


Exercise: Three-bond coupling constants across double bonds for most other nuclei follow the same rules as do H-H and C-H couplings: J_{trans} is almost always greater than J_{cis} . Assign the two vinyl protons in the compound below using this information.

$\text{C}_{10}\text{H}_{20}\text{Si}_2$

270 MHz ^1H NMR spectrum C_6D_6

Source: I. Reich scanned hard copy g



This proton has the larger $^3J_{\text{H-Si}}$, so must be *trans* to the Si.

