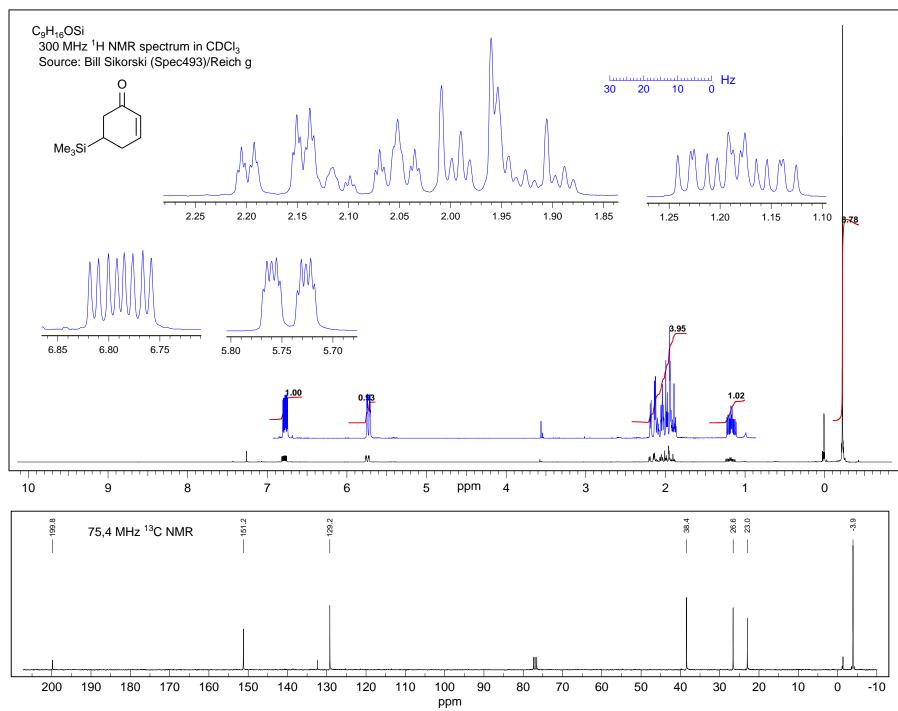
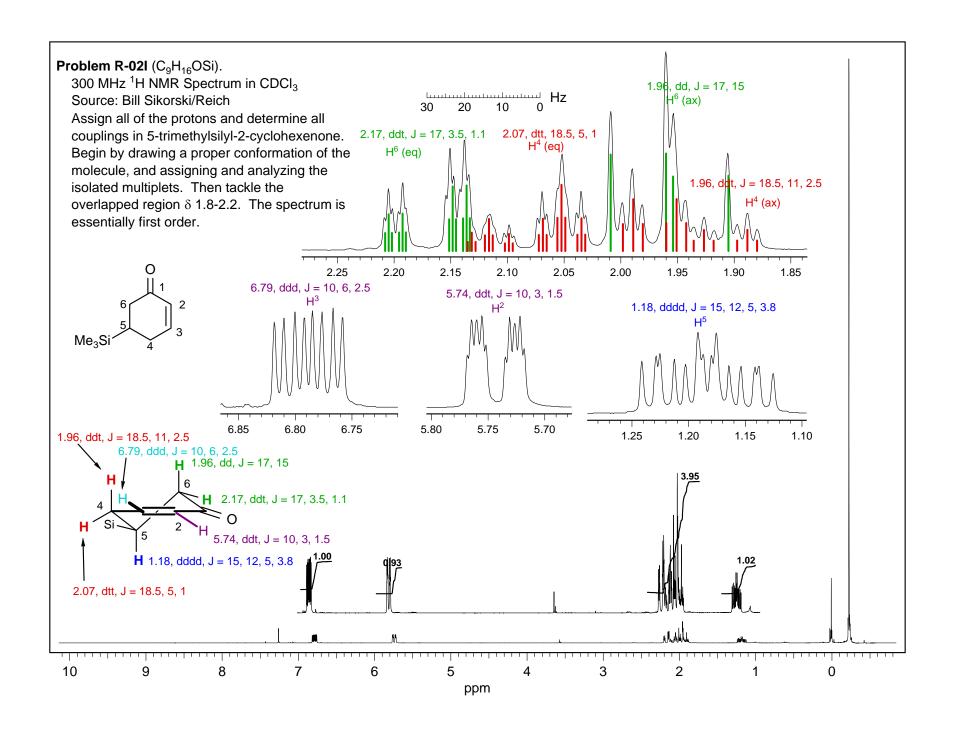
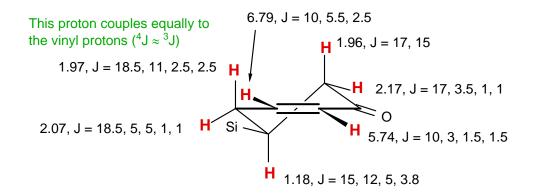
**Exercise**: Assign all of the protons and determine all couplings in 5-trimethylsilyl-2-cyclohexenone. Begin by drawing a proper conformation of the molecule, and assigning and analyzing the isolated multiplets. Then tackle the overlapped region  $\delta$  1.8-2.2. The spectrum is essentially first order.

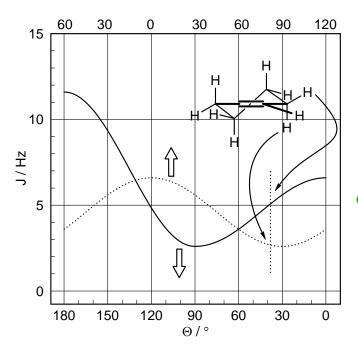




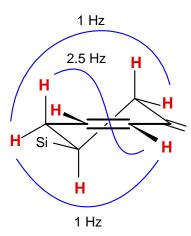
300 MHz <sup>1</sup>H NMR Spectrum in CDCl<sub>3</sub> Source: Bill Sikorski/Reich

$$0$$
 $1$ 
 $6$ 
 $5$ 
 $4$ 
 $3$ 





## <sup>4</sup>J couplings



Observed J are 5 and 2.5