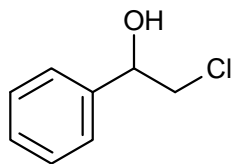


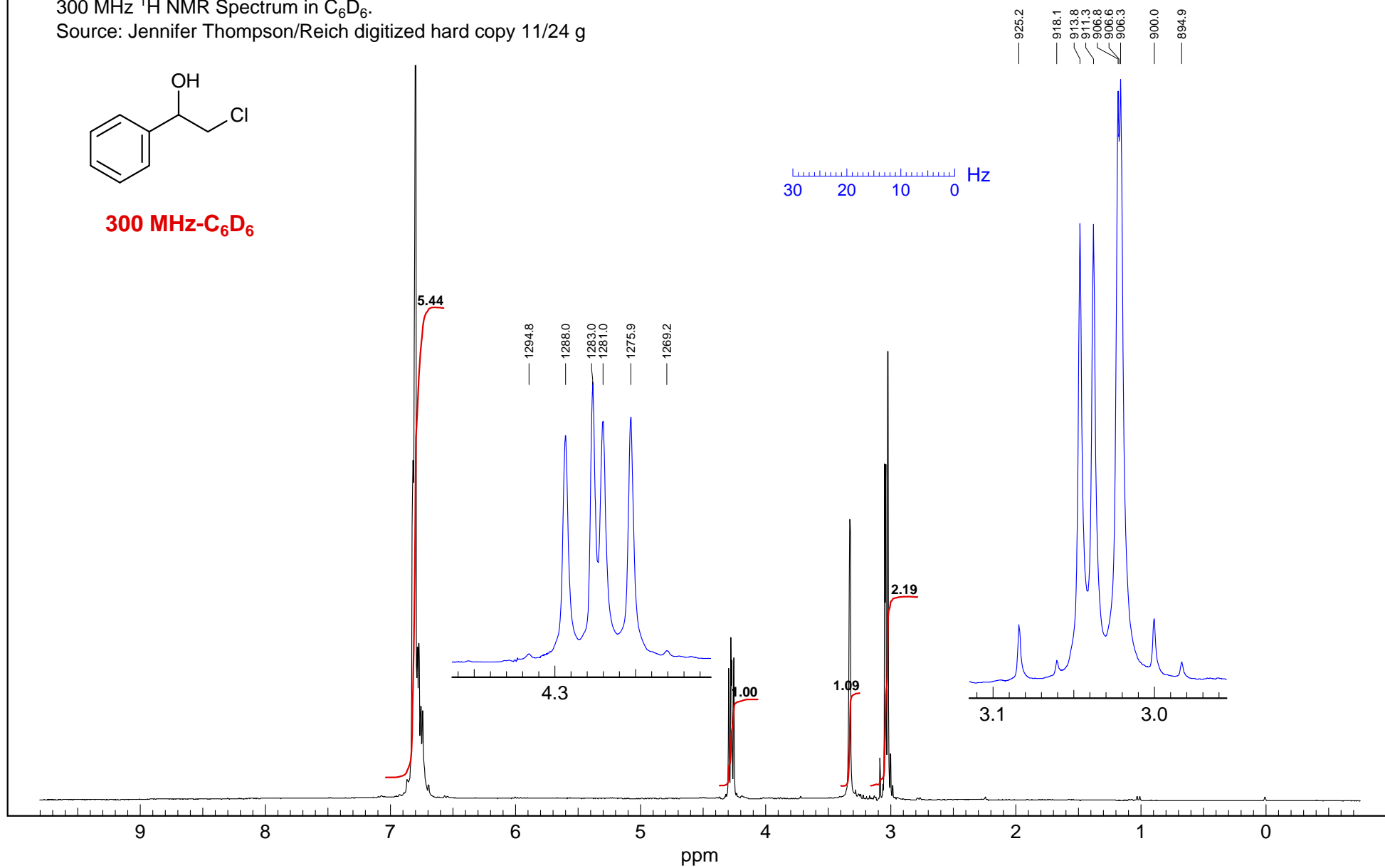
**Problem R-261** ( $\text{C}_8\text{H}_9\text{ClO}$ ).

300 MHz  $^1\text{H}$  NMR Spectrum in  $\text{C}_6\text{D}_6$ .

Source: Jennifer Thompson/Reich digitized hard copy 11/24 g



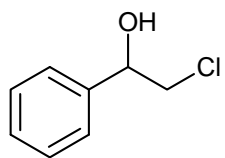
300 MHz- $\text{C}_6\text{D}_6$



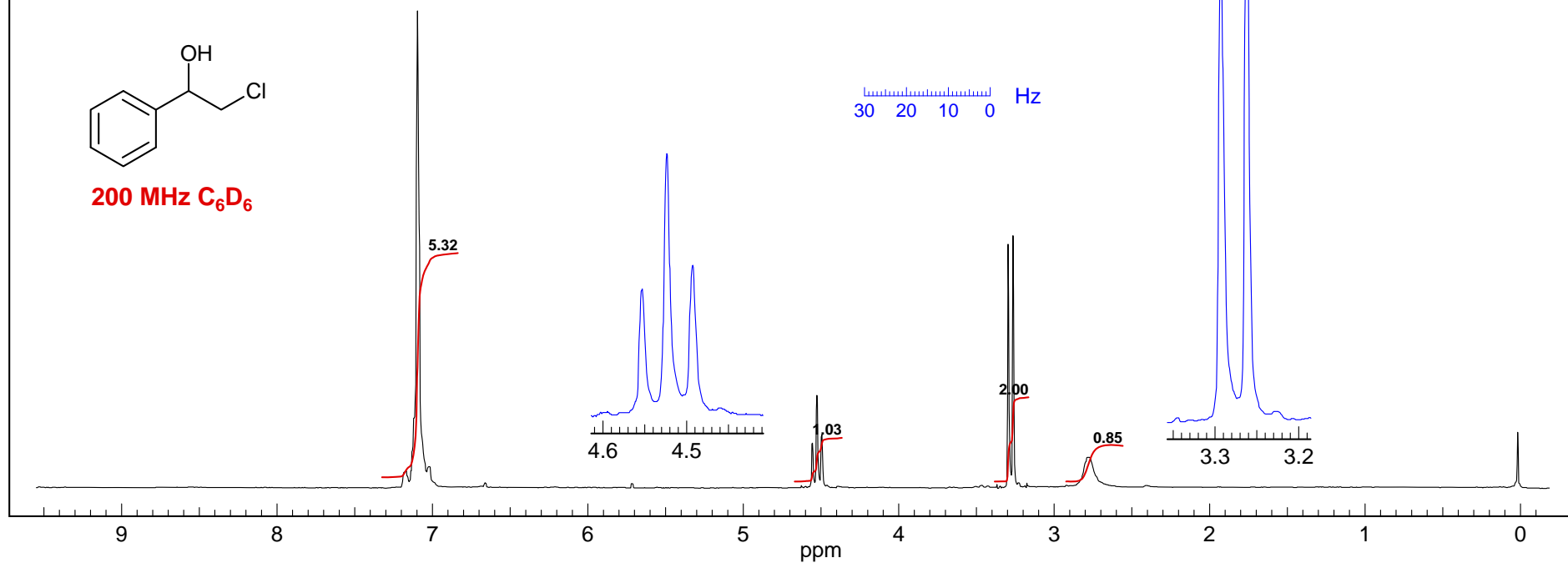
**Problem R-261** ( $\text{C}_8\text{H}_9\text{ClO}$ ).

200 MHz  $^1\text{H}$  NMR Spectrum in  $\text{C}_6\text{D}_6$ .

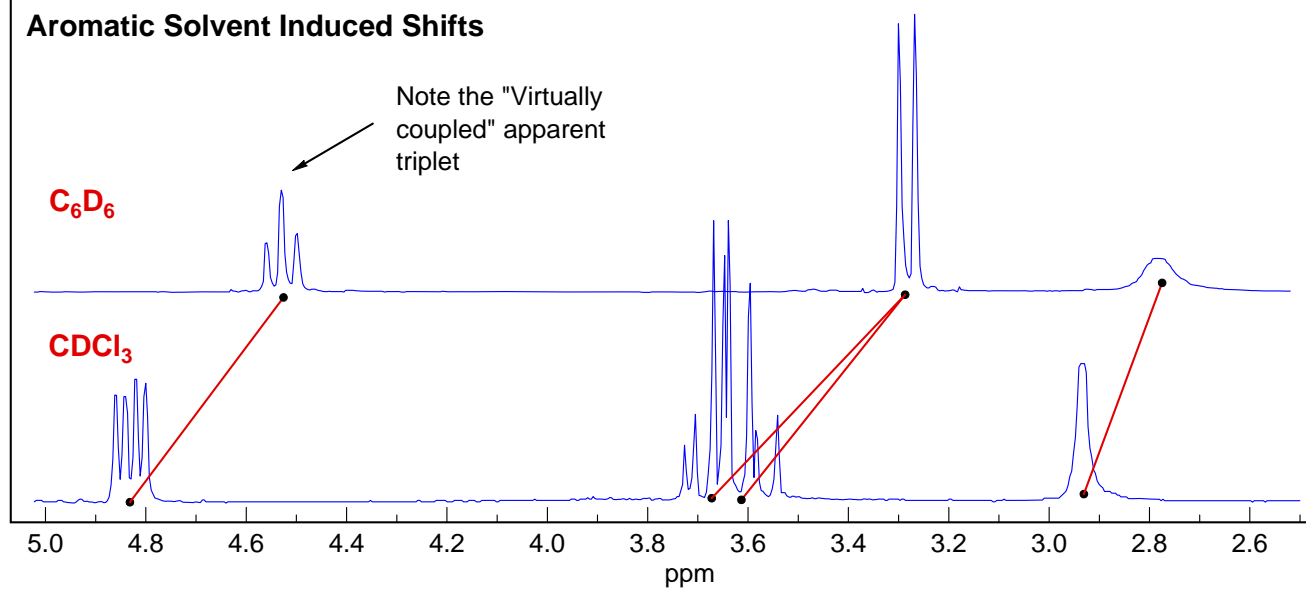
Source: Ken Yelm traced hard copy/Reich 8-14 g



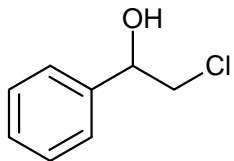
200 MHz  $\text{C}_6\text{D}_6$



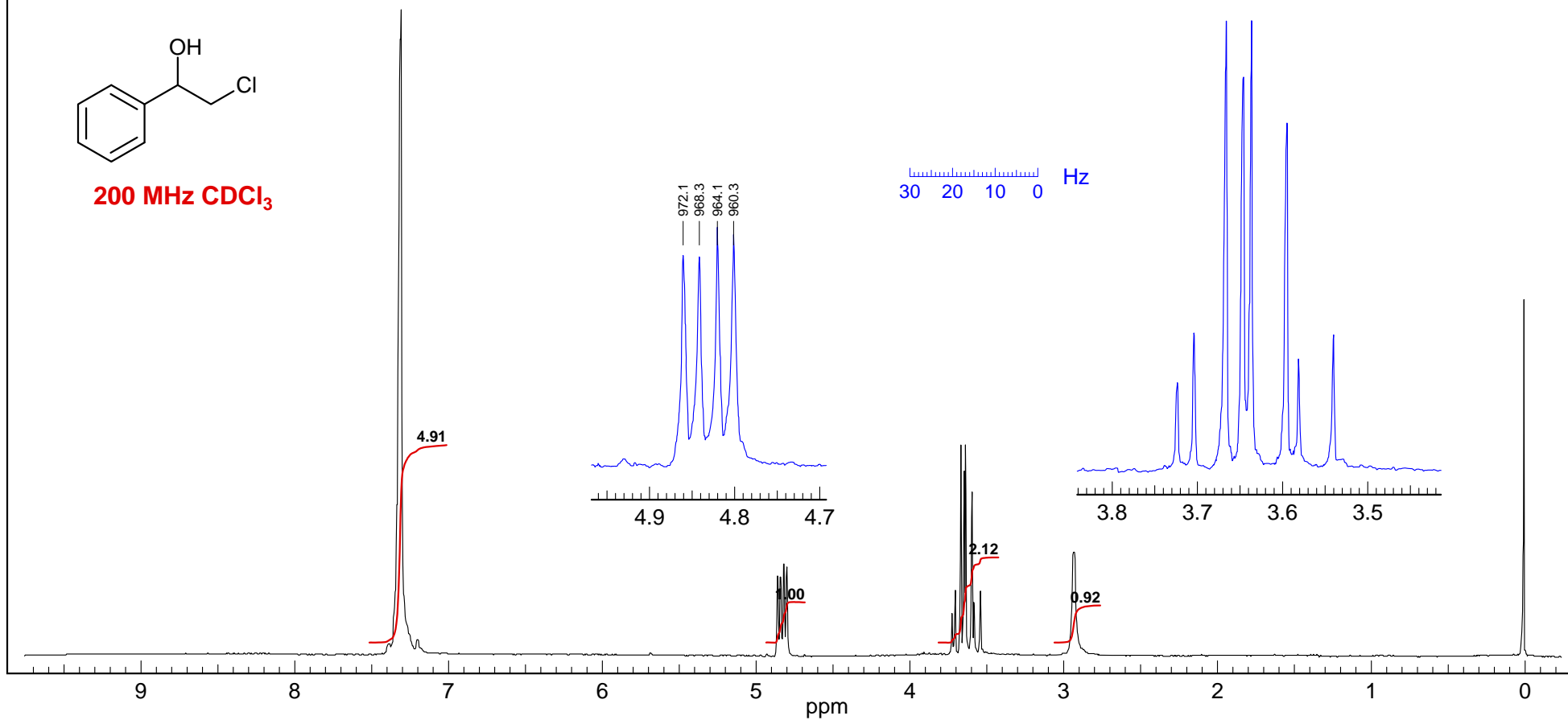
**Aromatic Solvent Induced Shifts**



Solve the multiplet and determine structure.



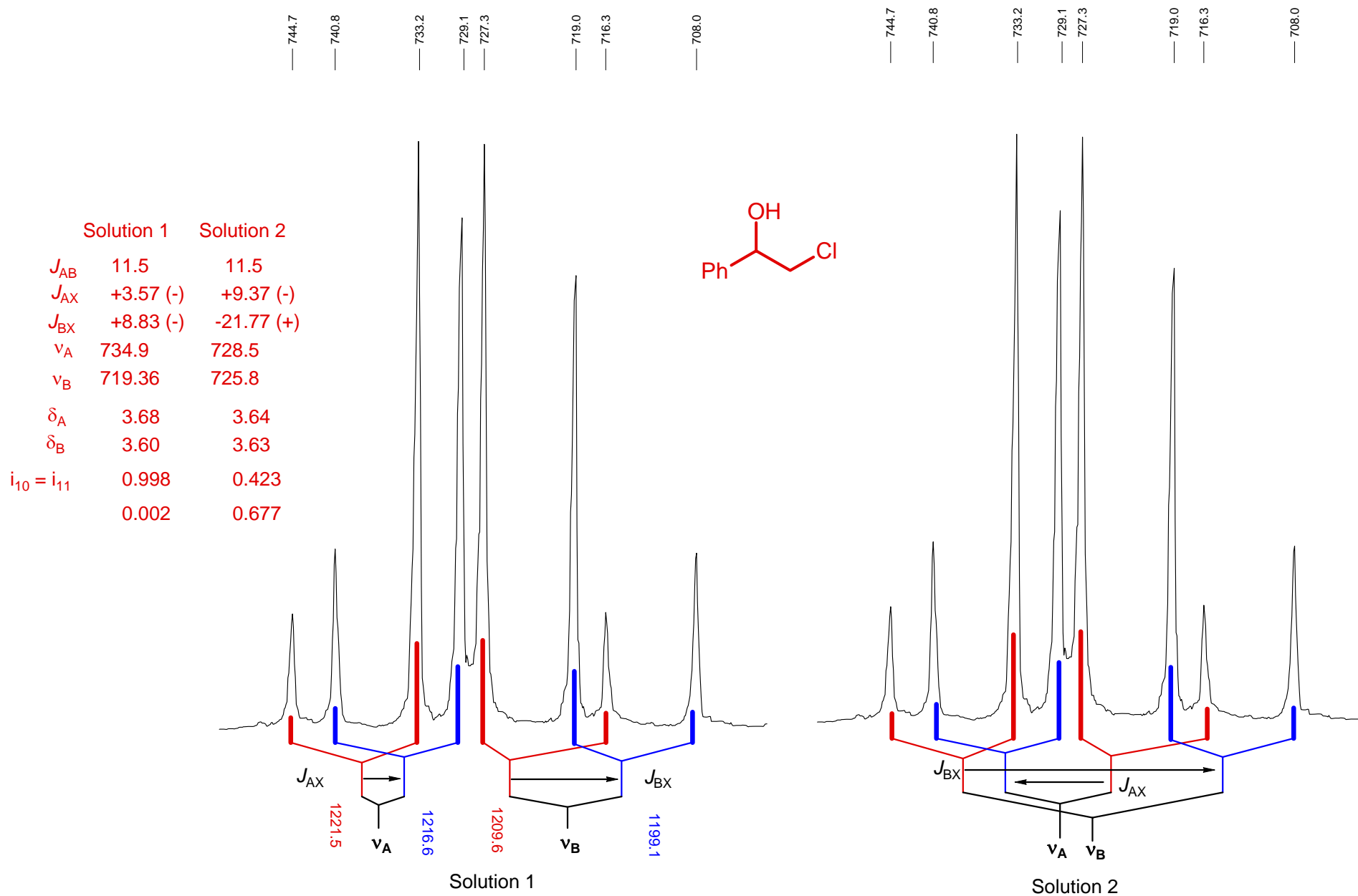
**200 MHz CDCl<sub>3</sub>**



**Problem R-261** ( $\text{C}_8\text{H}_9\text{ClO}$ ).200 MHz  $^1\text{H}$  NMR Spectrum in  $\text{CDCl}_3$ .

Source: Ken Yelm/Reich 8-14

Solve the multiplet and determine structure.

Solution 1 is correct - both sigs and magnitude of  $J_{AX}$  and  $J_{BX}$  in Solution 2 do not fit the structure