



Figure 1. 50 MHz  $^{13}\text{C}$  spectrum of 1. A is the  $^{13}\text{C}_1$  region and B is the  $^{13}\text{C}_2$  region. Scale in Hz.

*Fluoroethene 20% in  $\text{CDCl}_3$  in 5 mm tube in 10 mm insert at  $18^\circ\text{C}$*

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**Field strength:** 200 MHz for H1 and 50 MHz for C13

### Why is this your favorite spectrum?

It exhibited for the first time for this molecule the  $J_2(\text{C}13, \text{H})$ 's and  $J_2(\text{C}13, \text{F})$  and two  $2J(\text{C}13, \text{H})$ 's in part A equal to  $\pm 0.02$  Hz but of opposite sign!