

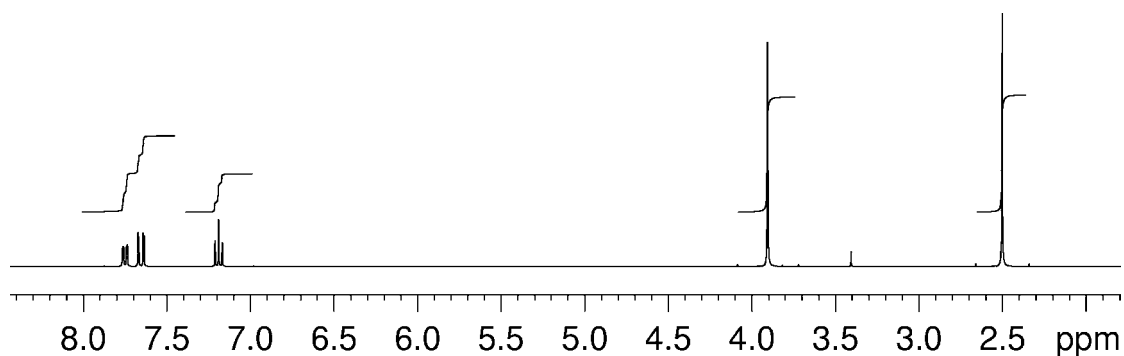
Problem 42

Identify the following compound.

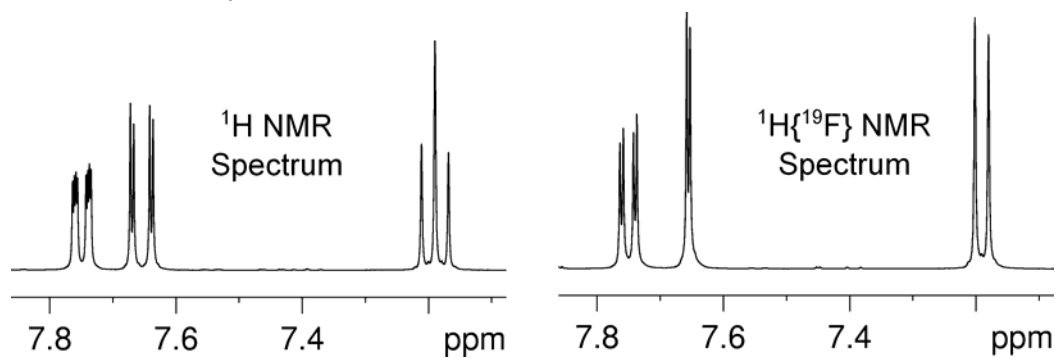
Molecular Formula: $\text{C}_9\text{H}_9\text{FO}_2$

IR: 1681 cm^{-1}

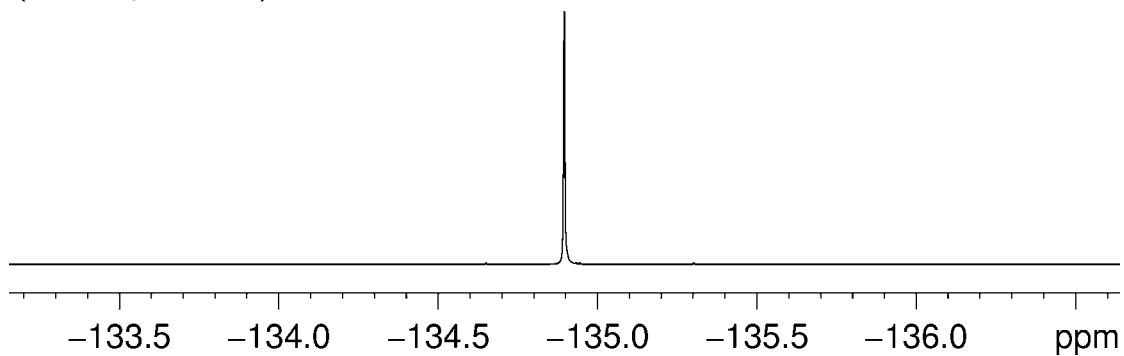
^1H NMR Spectrum
(DMSO- d_6 , 400 MHz)



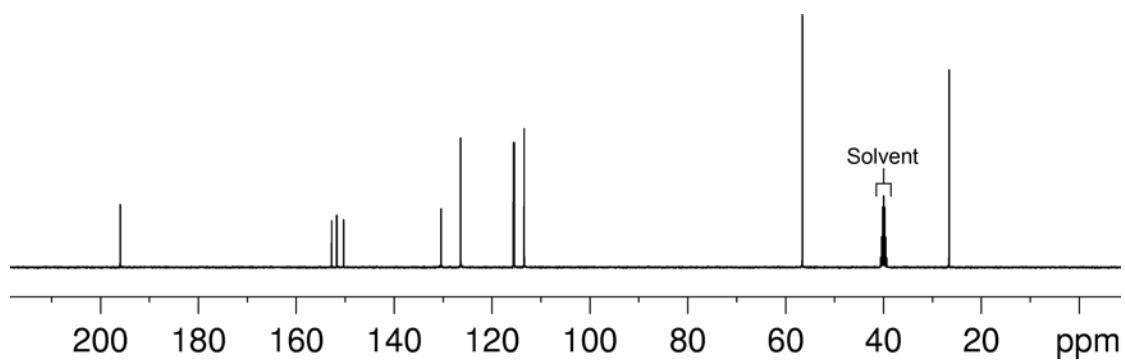
^1H NMR Expansions
(DMSO- d_6 , 400 MHz)



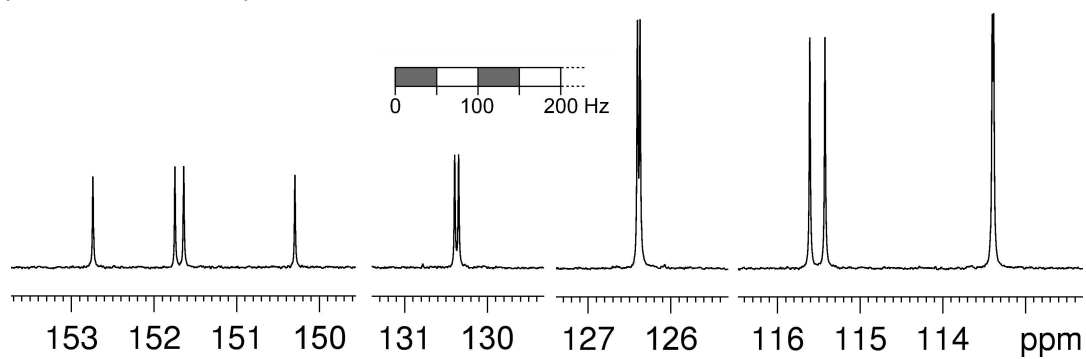
$^{19}\text{F}\{^1\text{H}\}$ NMR Spectrum
(DMSO- d_6 , 376 MHz)



$^{13}\text{C}\{^1\text{H}\}$ NMR Spectrum
(DMSO- d_6 , 100 MHz)



$^{13}\text{C}\{^1\text{H}\}$ NMR Expansions
(DMSO- d_6 , 100 MHz)



$^{13}\text{C}\{^1\text{H}, ^{19}\text{F}\}$ NMR Expansions
(DMSO- d_6 , 100 MHz)

