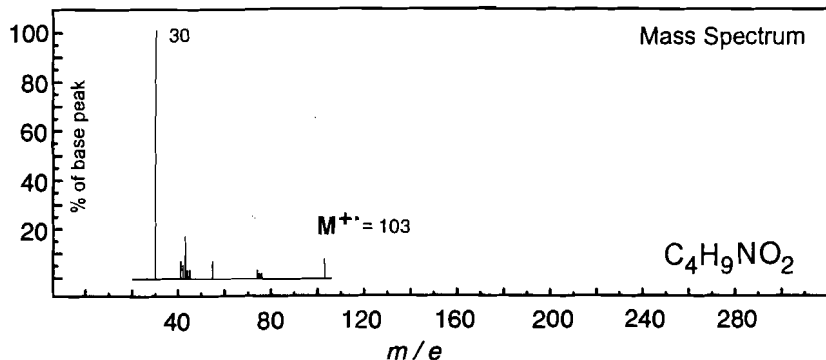
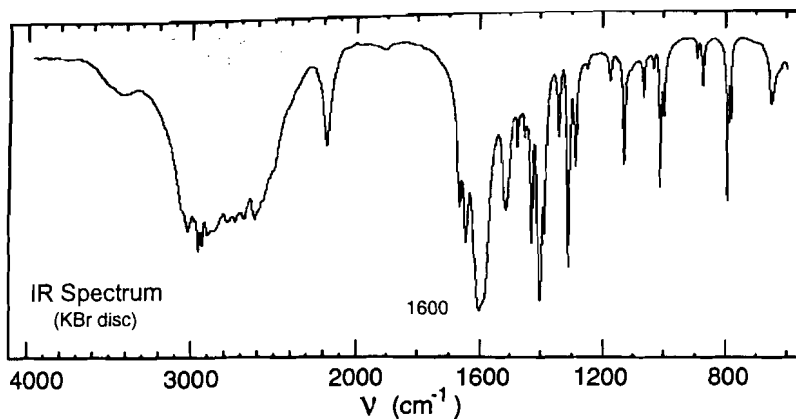
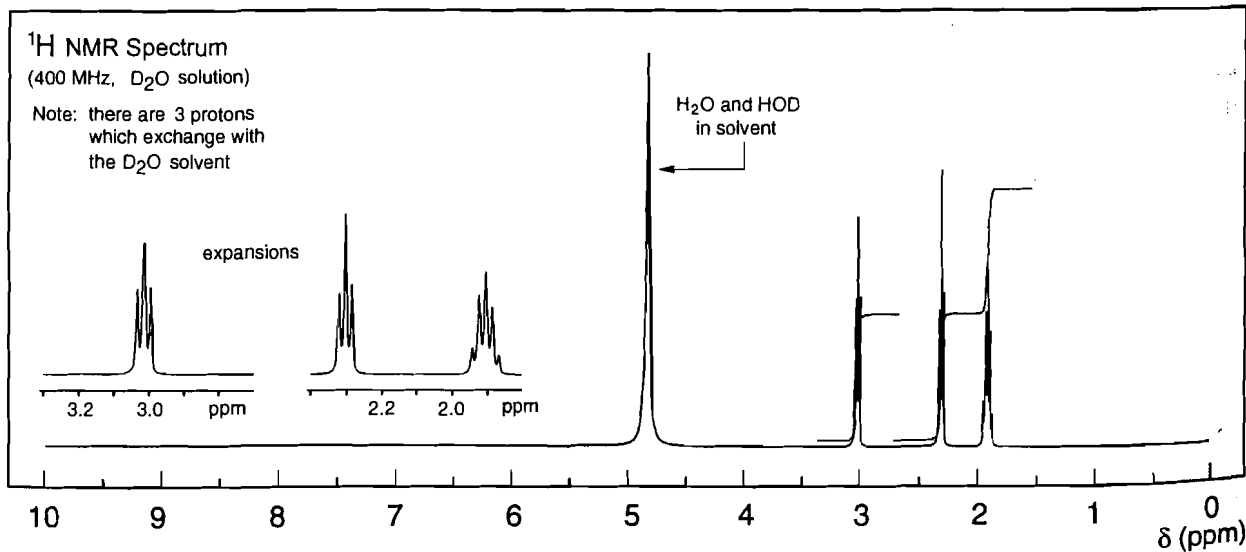
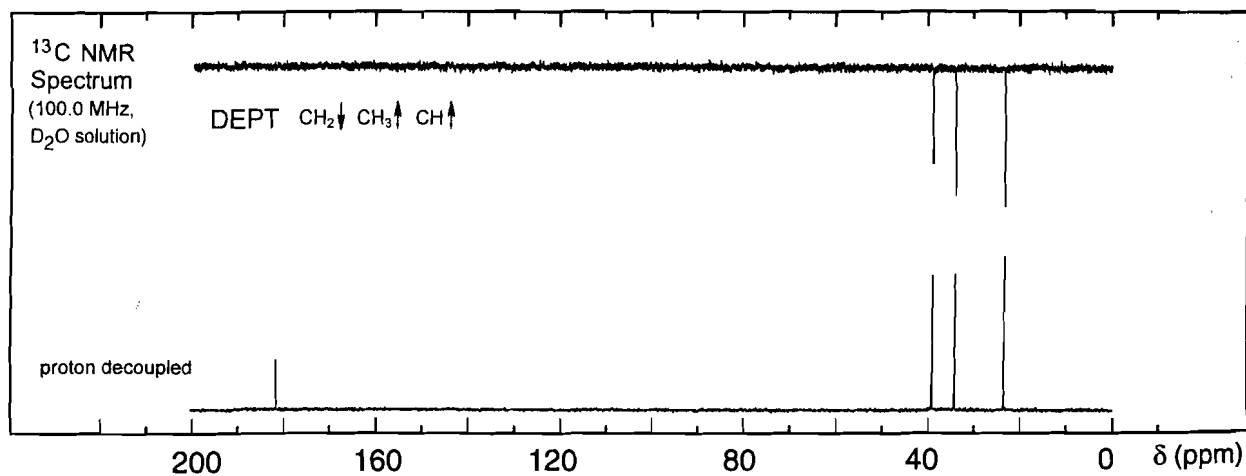


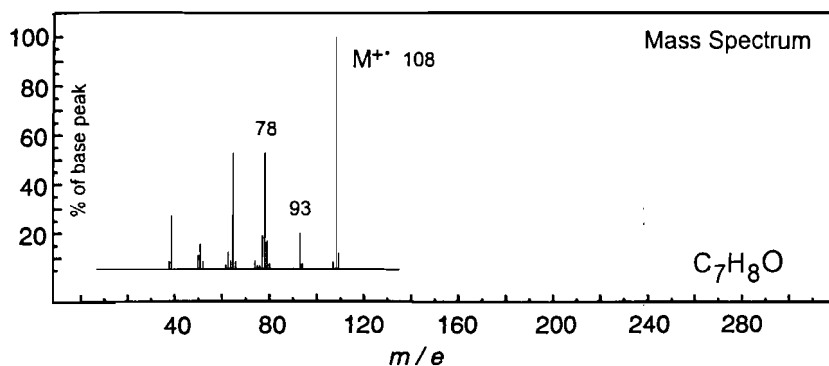
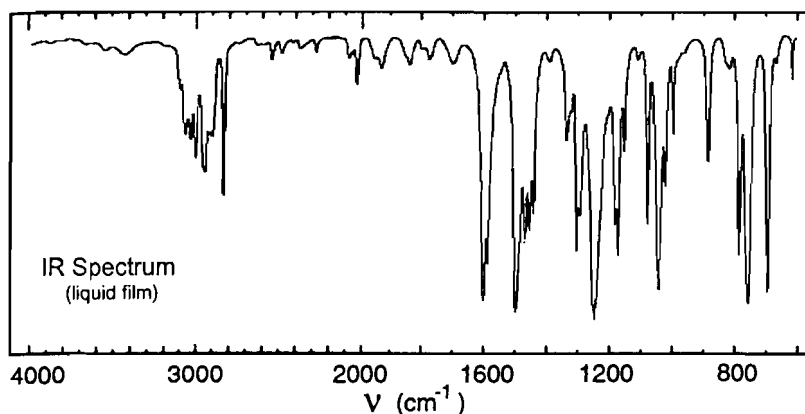
Problem 21



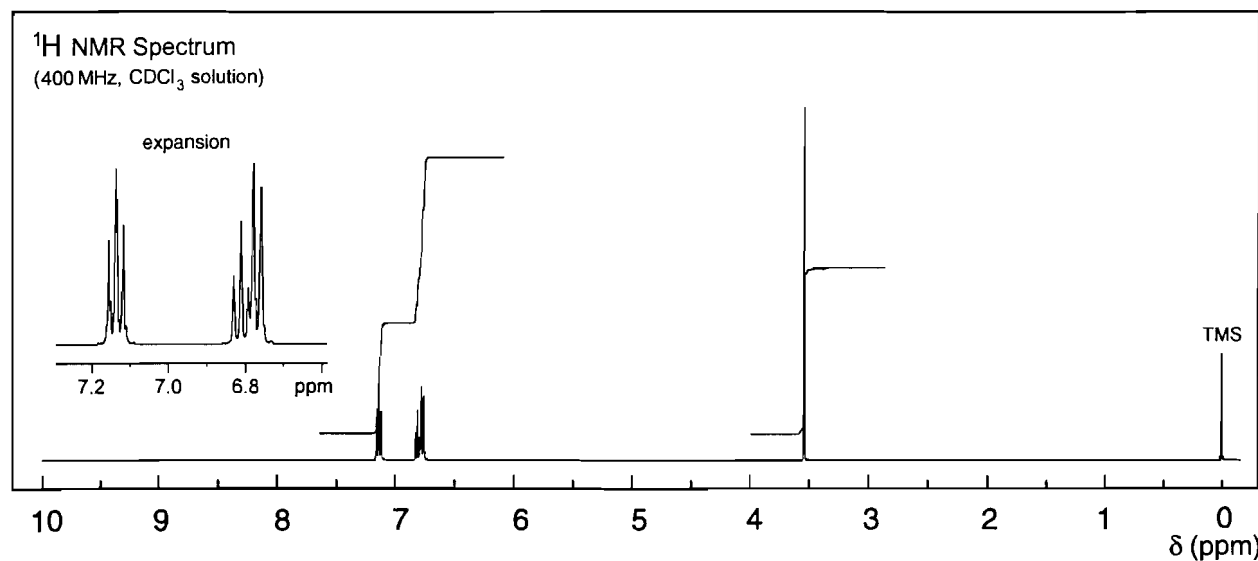
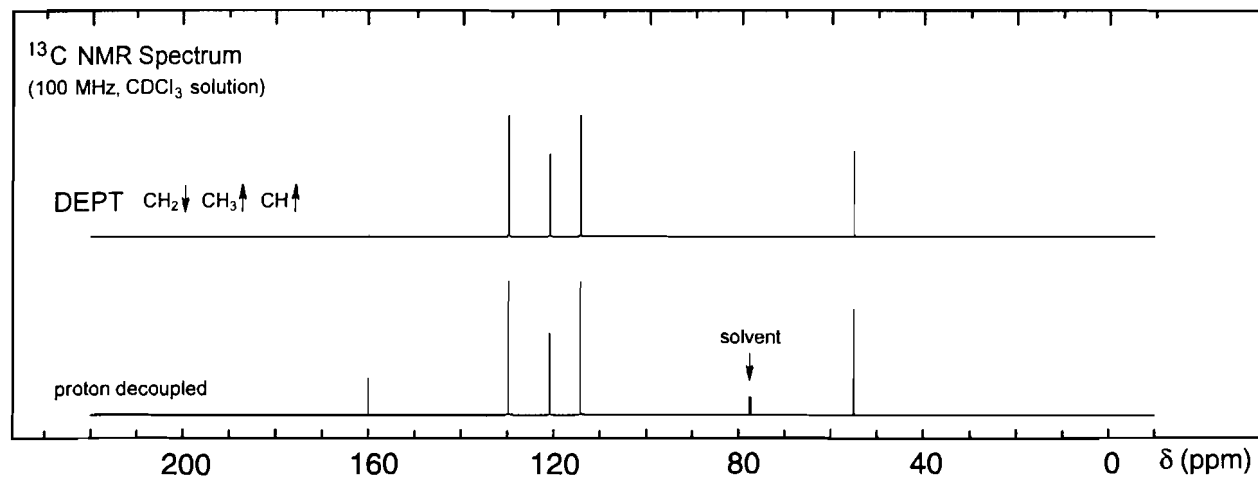
No significant UV
absorption above 220 nm



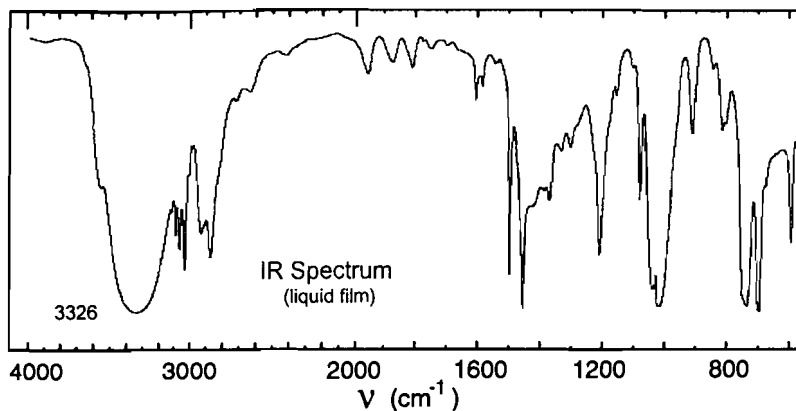
Problem 22



UV Spectrum
 $\lambda_{\max} 269 \text{ nm (log}_{10} \epsilon 3.2)$
 solvent : methanol



Problem 23



UV Spectrum

λ_{max} 243 nm ($\log_{10} \epsilon$ 1.9)

λ_{max} 248 nm ($\log_{10} \epsilon$ 2.1)

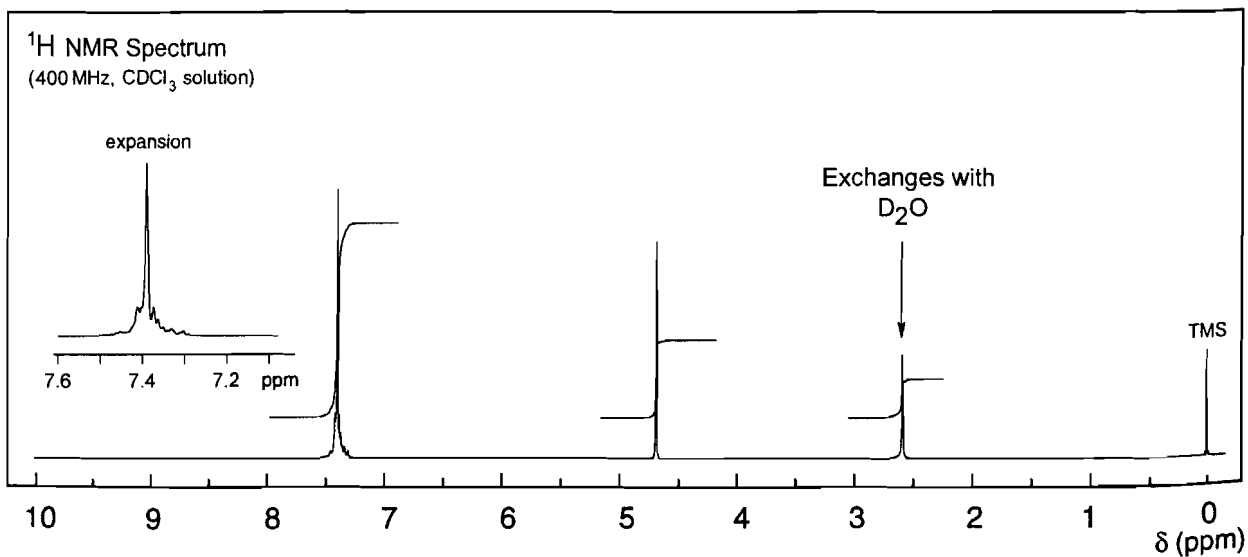
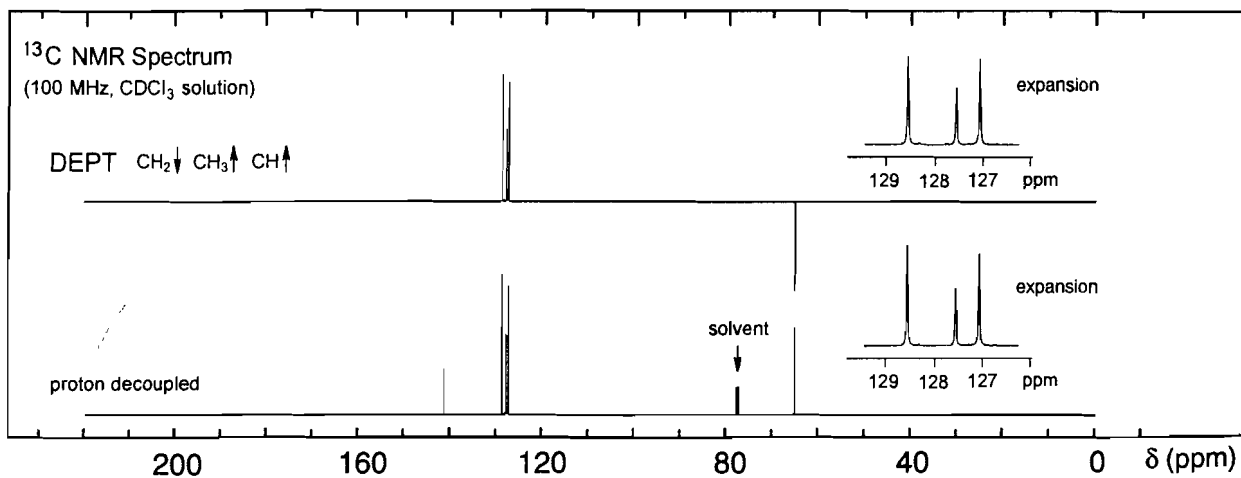
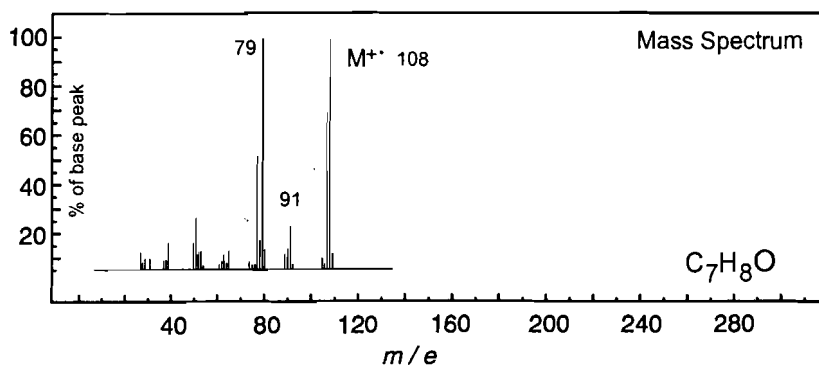
λ_{max} 252 nm ($\log_{10} \epsilon$ 2.2)

λ_{max} 258 nm ($\log_{10} \epsilon$ 2.3)

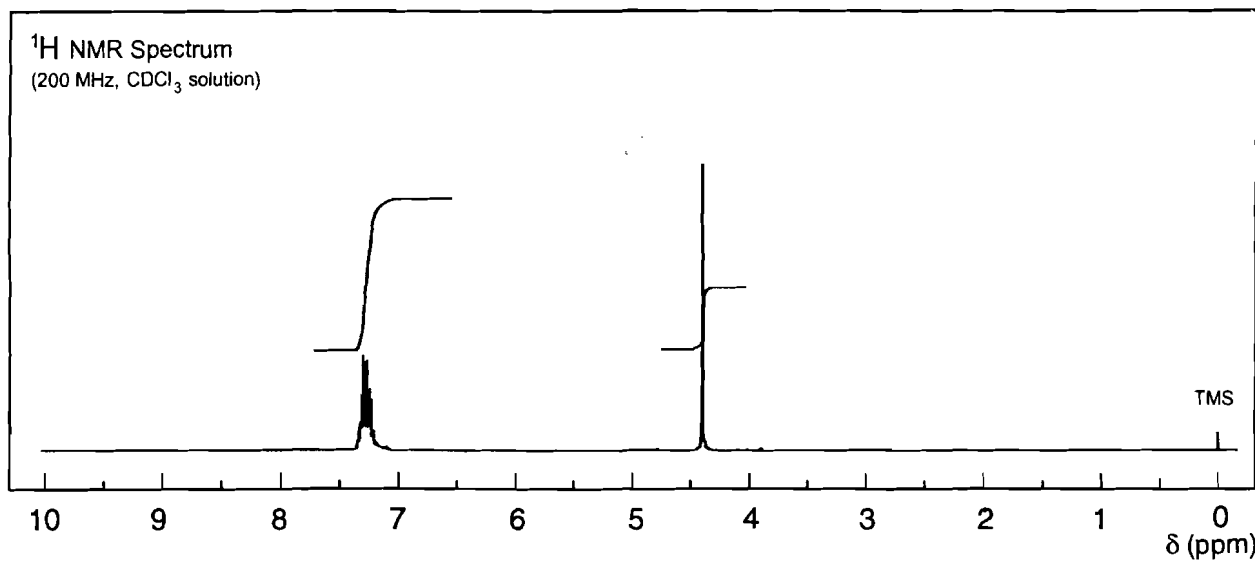
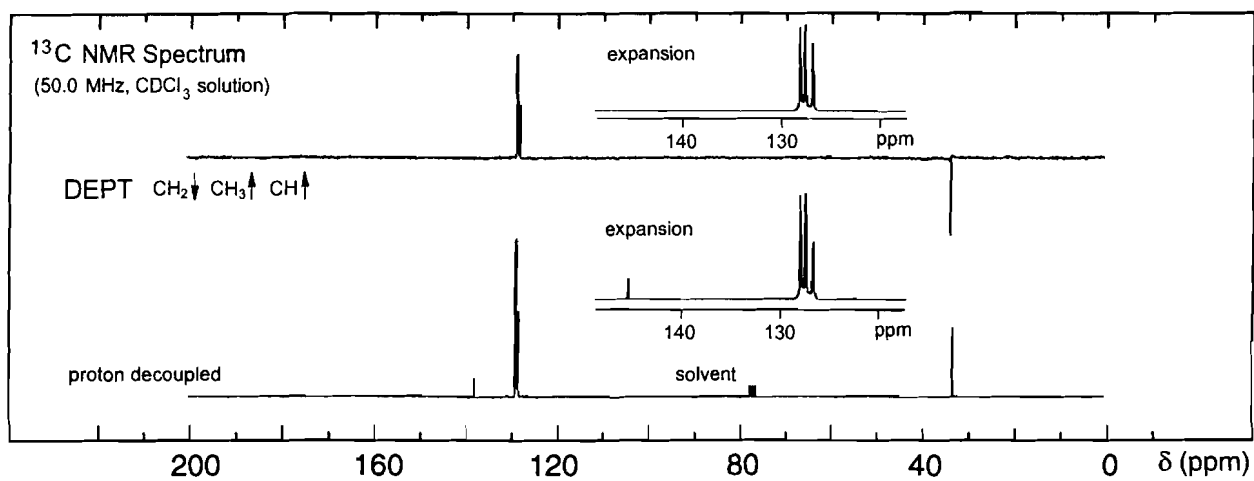
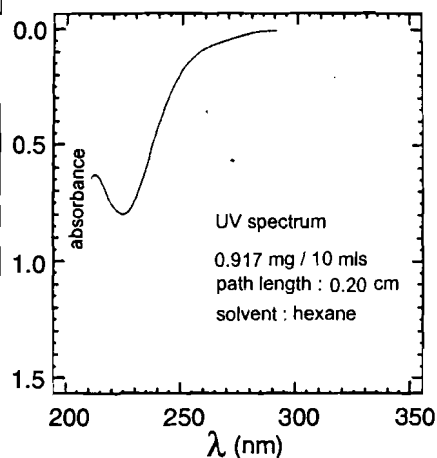
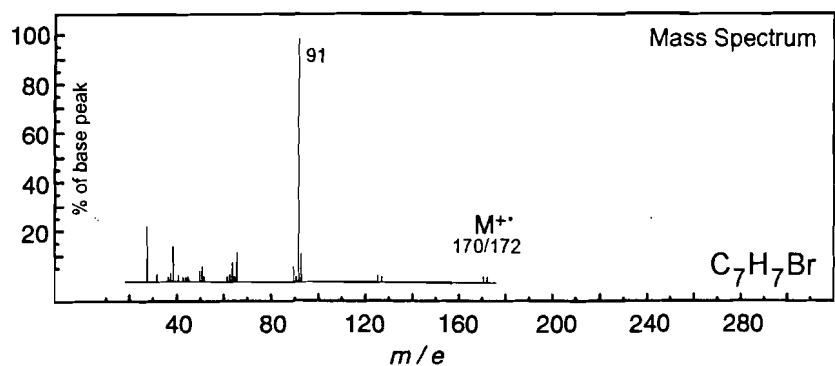
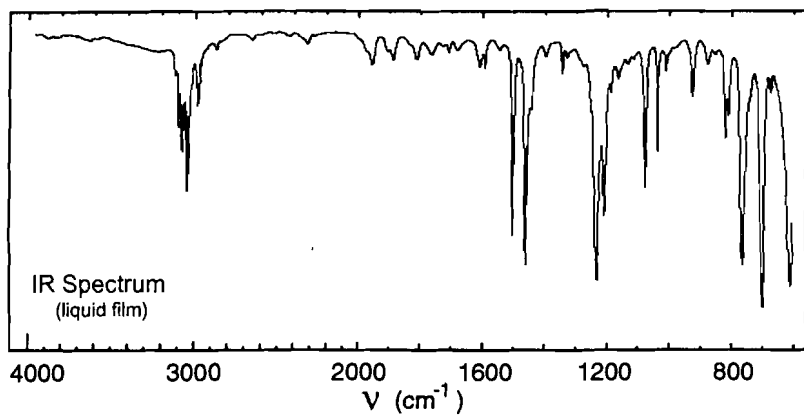
λ_{max} 264 nm ($\log_{10} \epsilon$ 2.1)

λ_{max} 268 nm ($\log_{10} \epsilon$ 1.9)

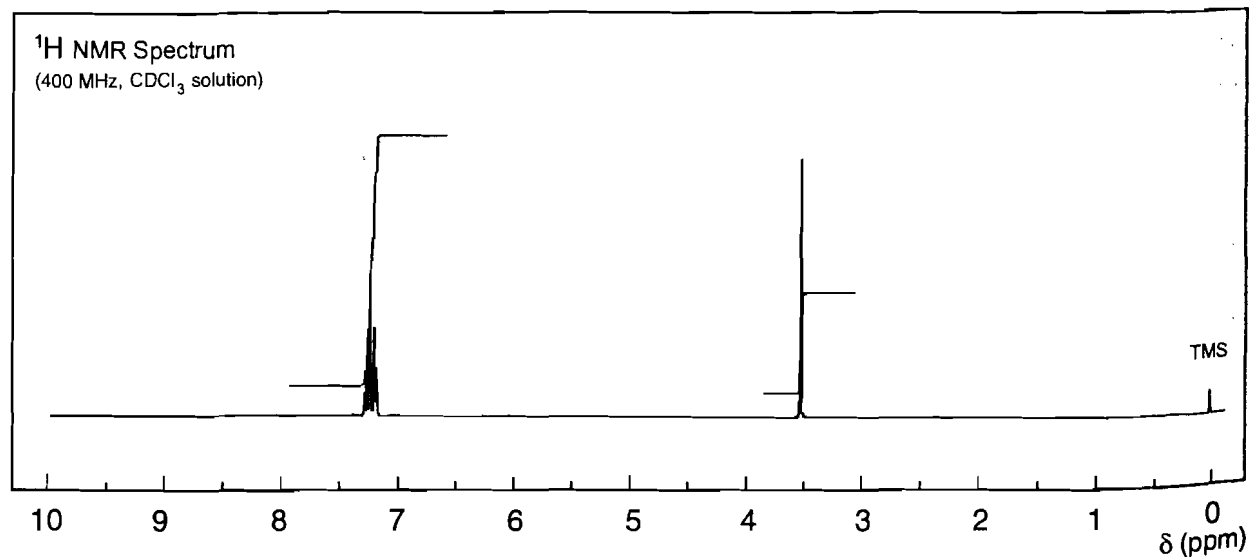
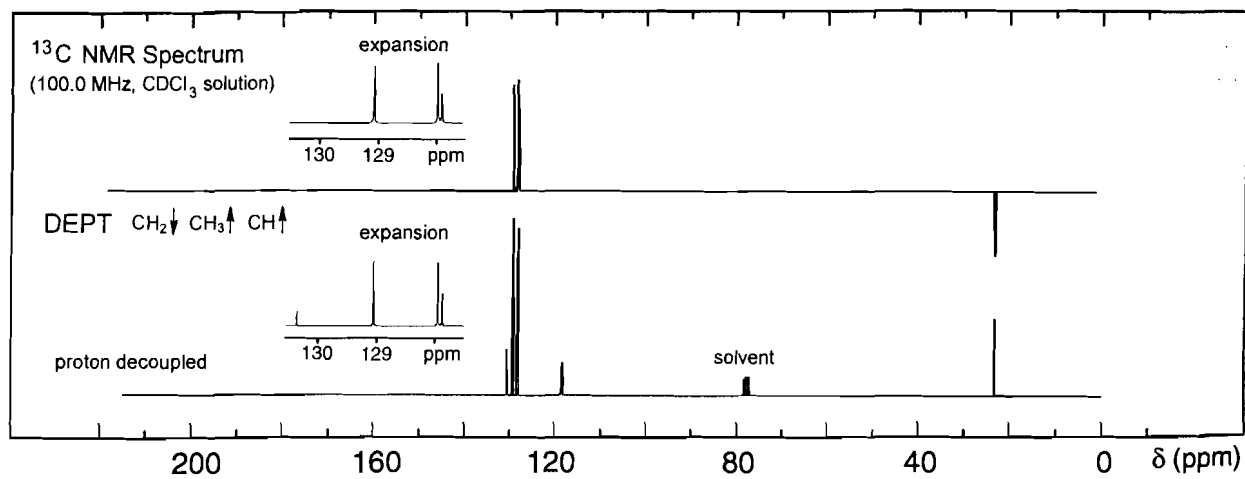
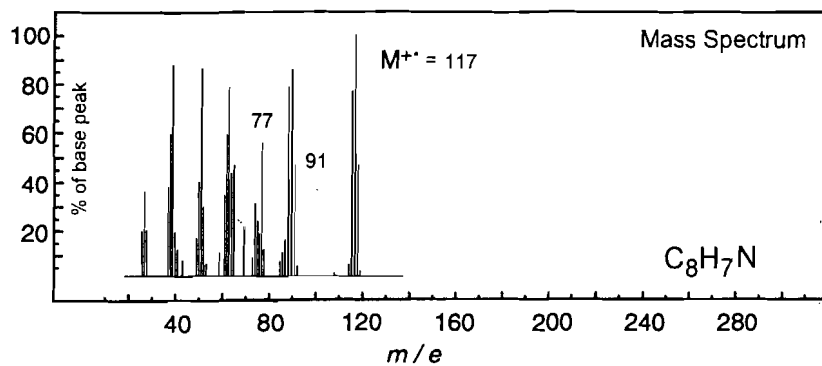
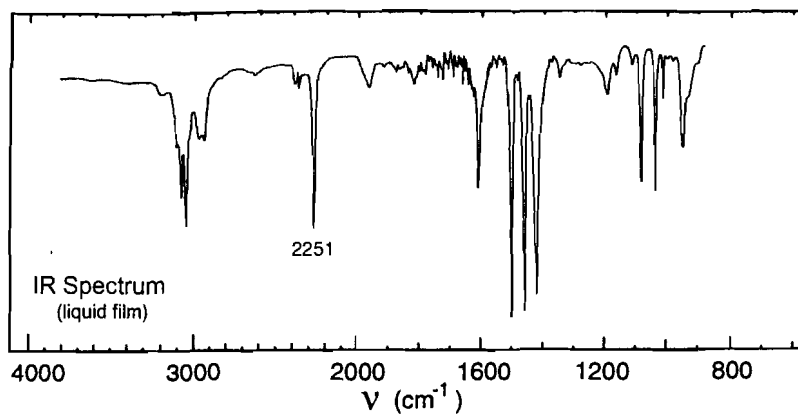
solvent : ethanol



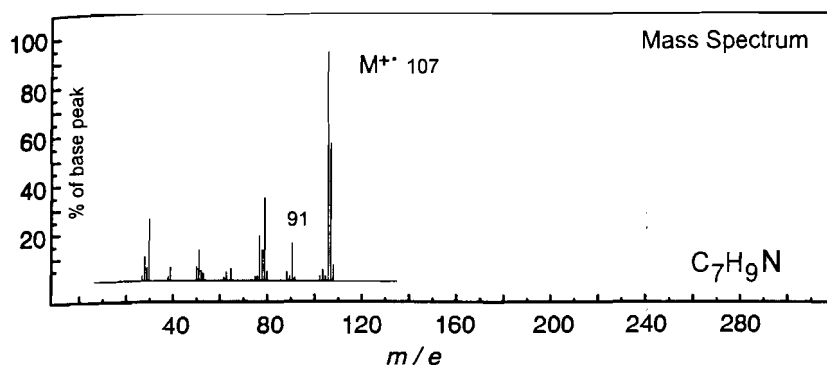
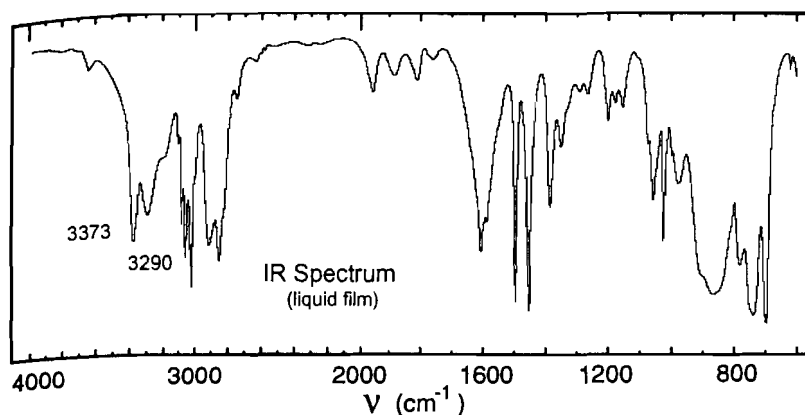
Problem 24



Problem 25



Problem 26

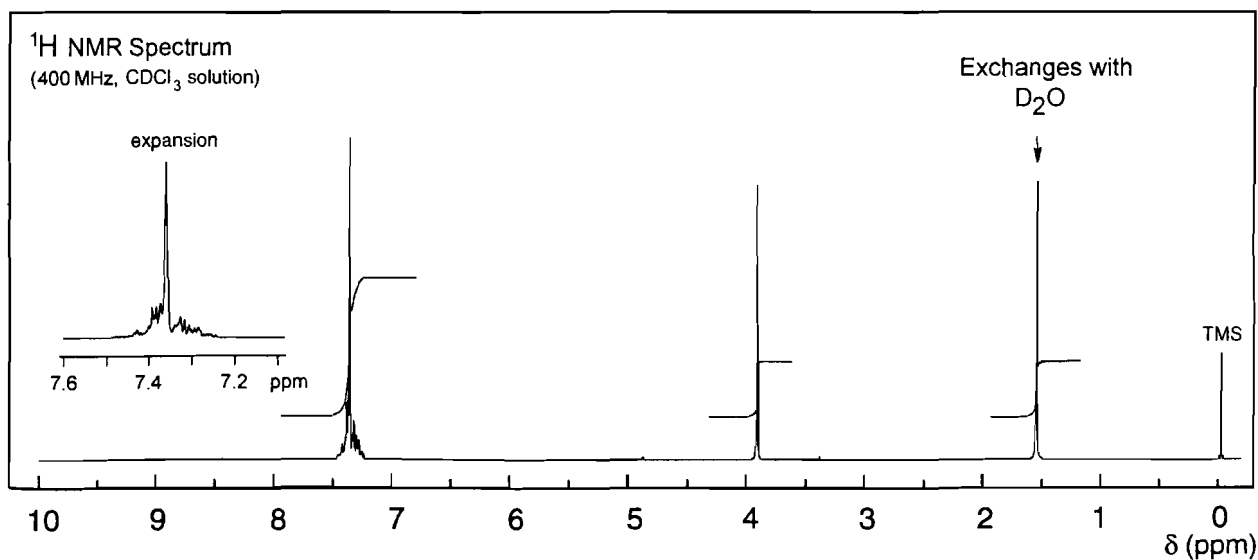
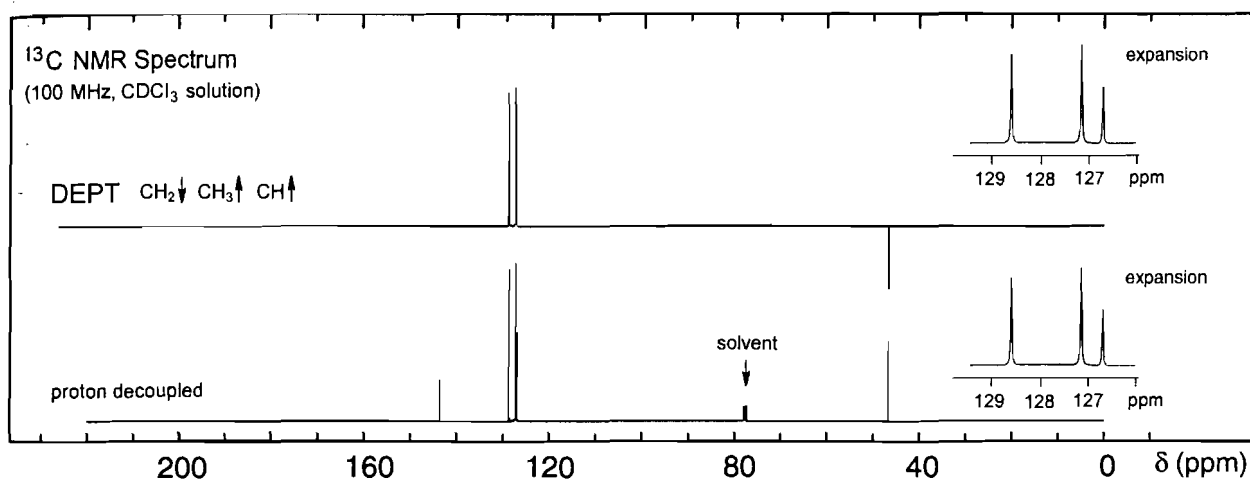


UV Spectrum

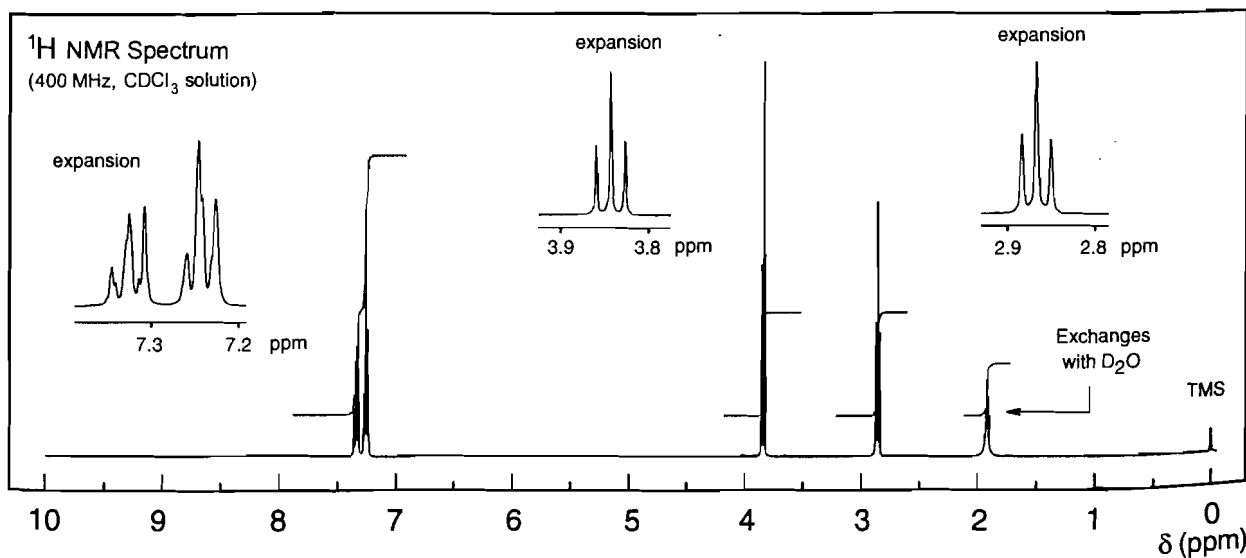
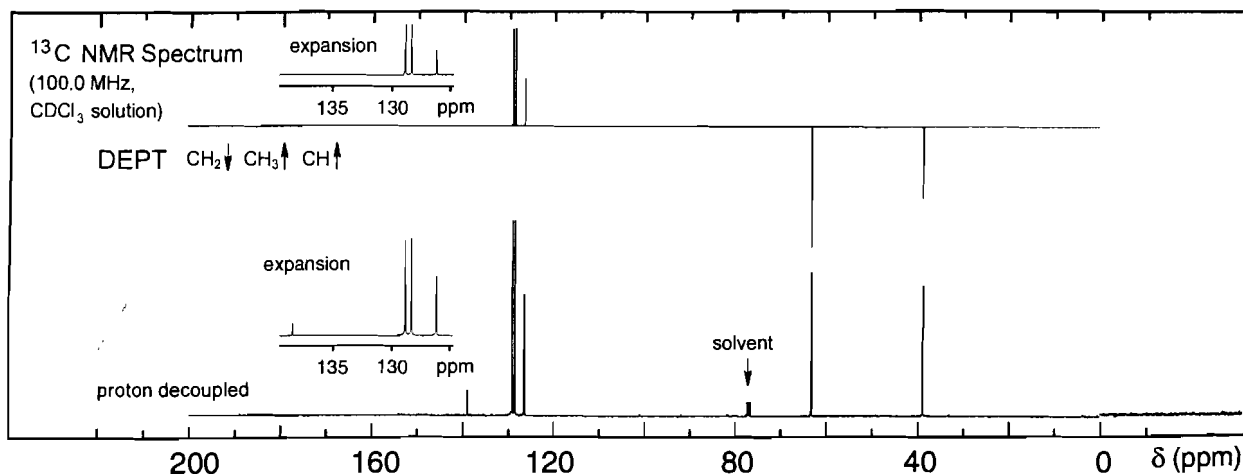
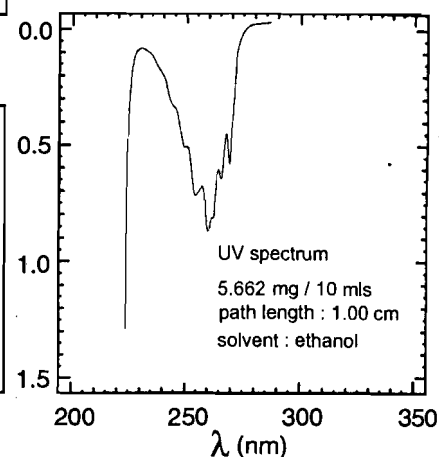
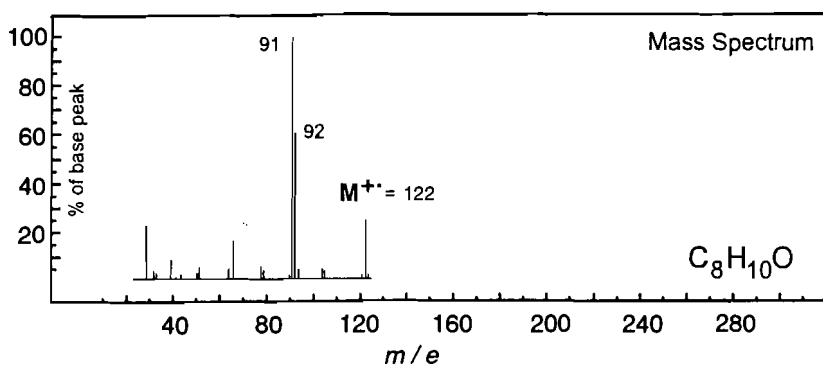
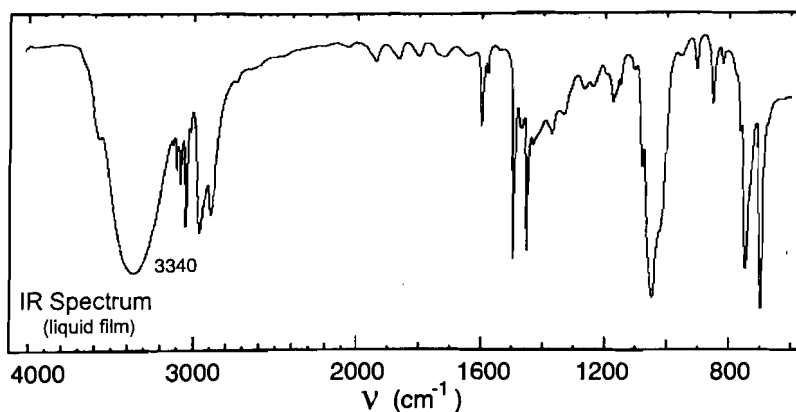
$\lambda_{\max} 256 \text{ nm } (\log_{10} \epsilon 2.2)$

$\lambda_{\max} 264 \text{ nm } (\log_{10} \epsilon 2.1)$

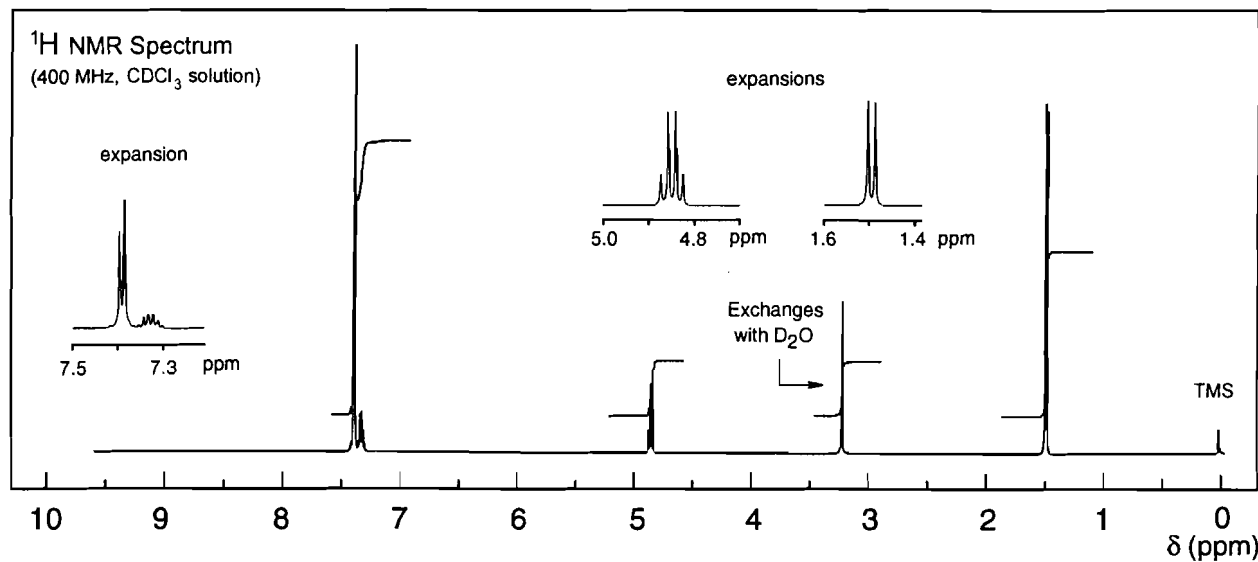
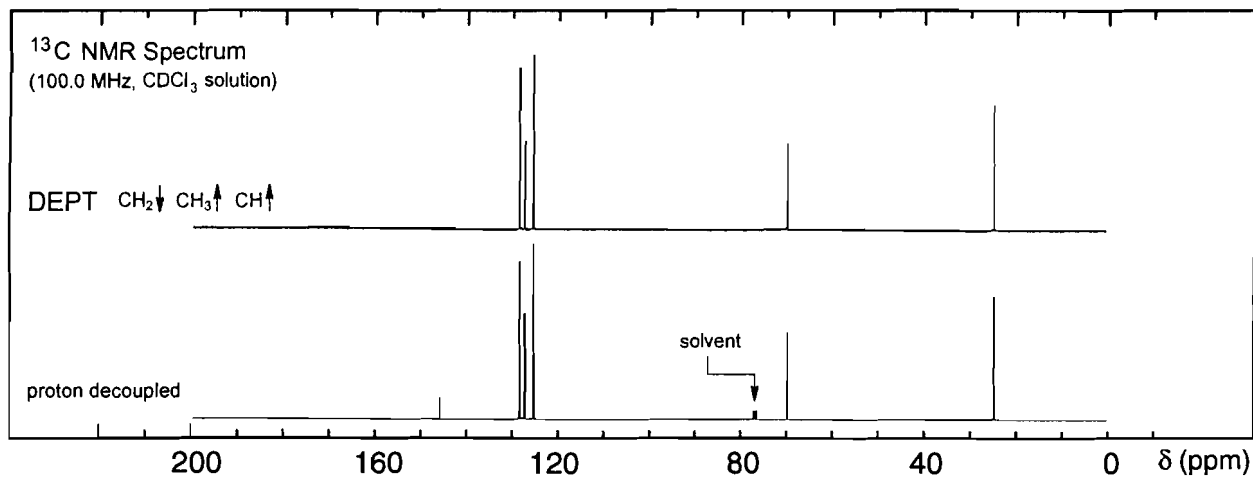
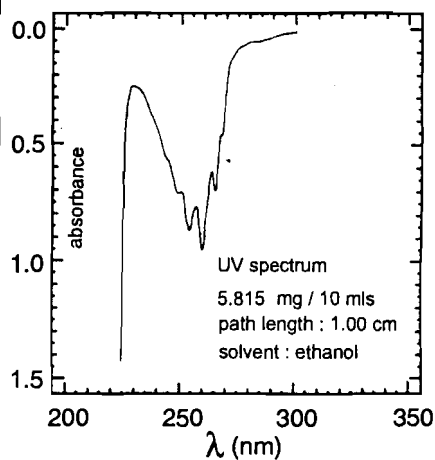
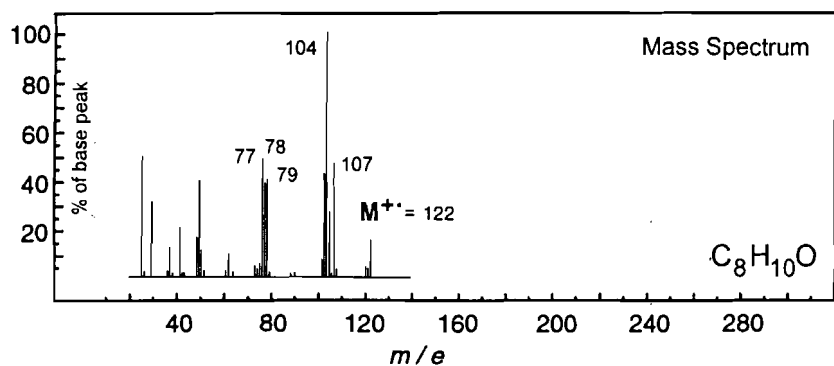
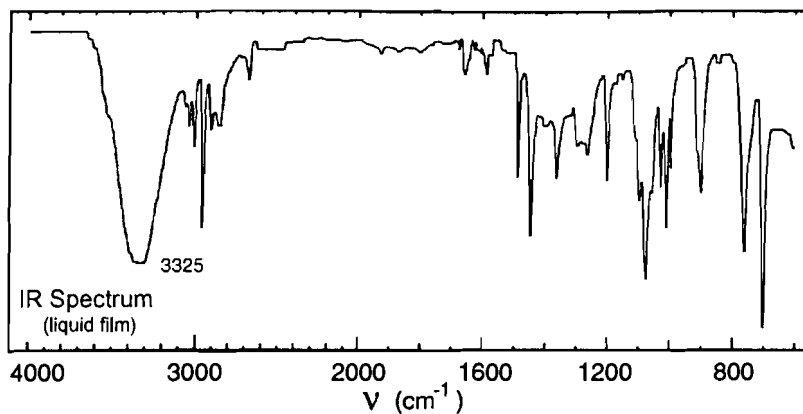
solvent : ethanol



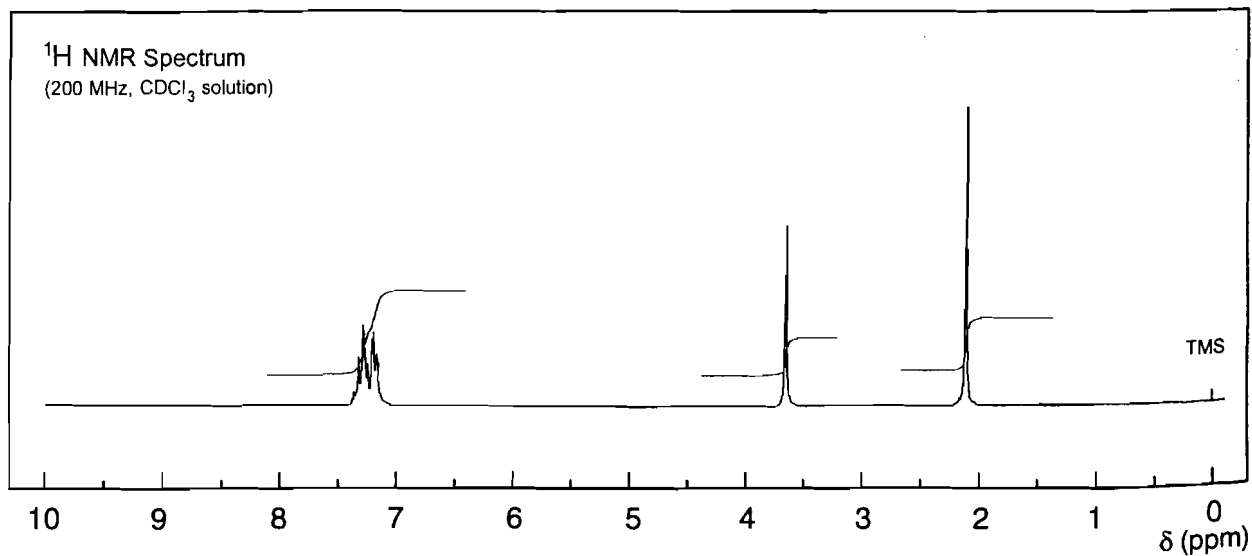
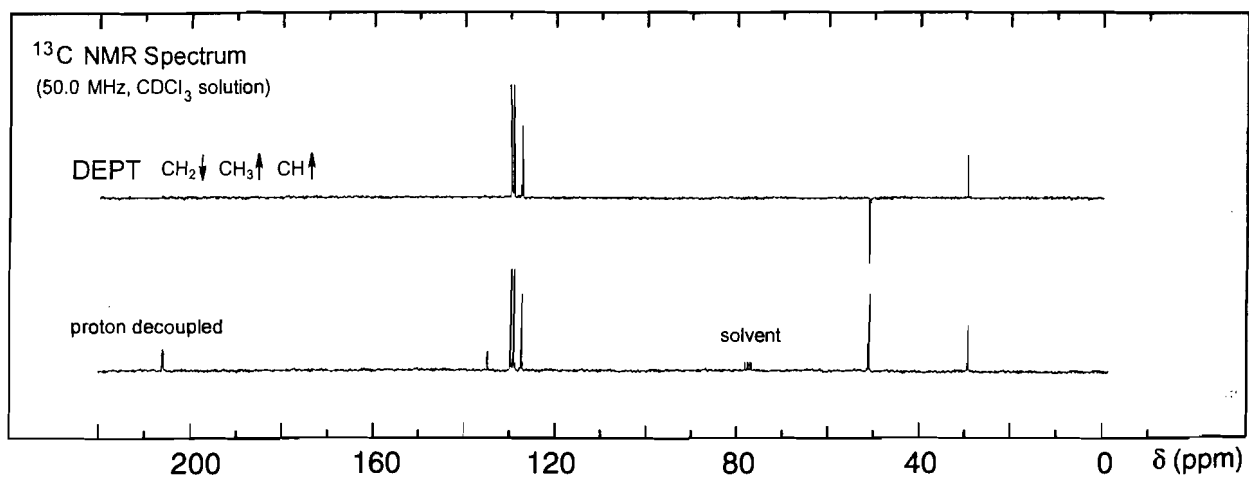
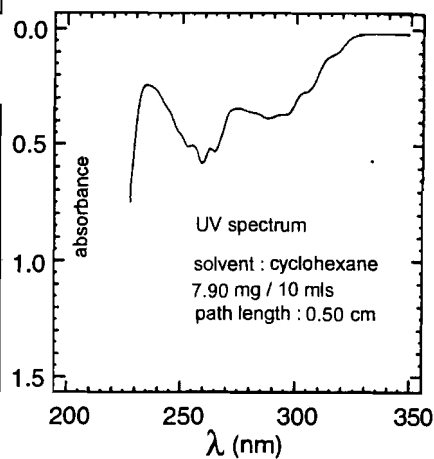
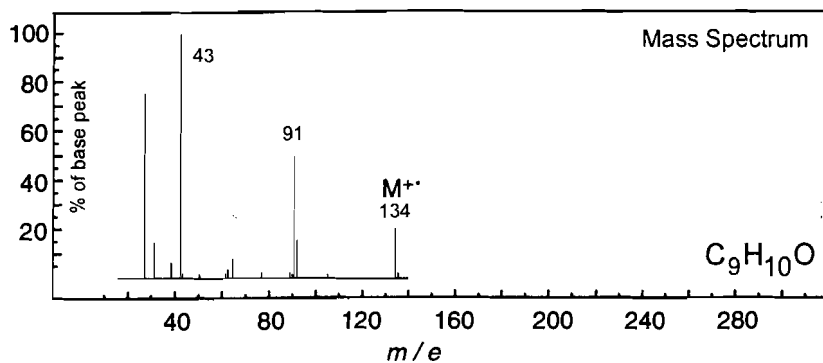
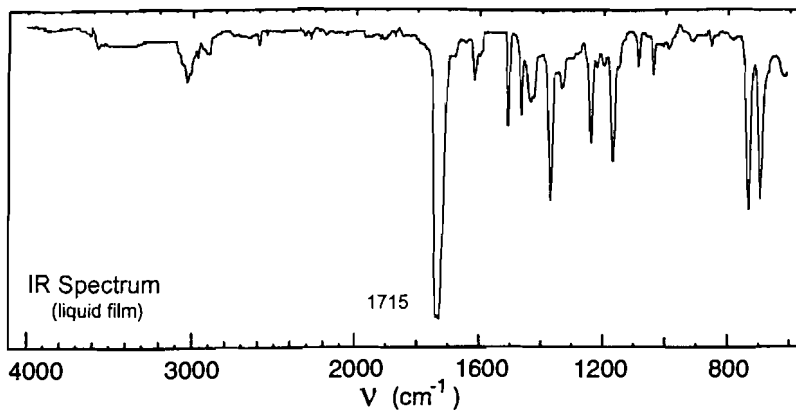
Problem 27



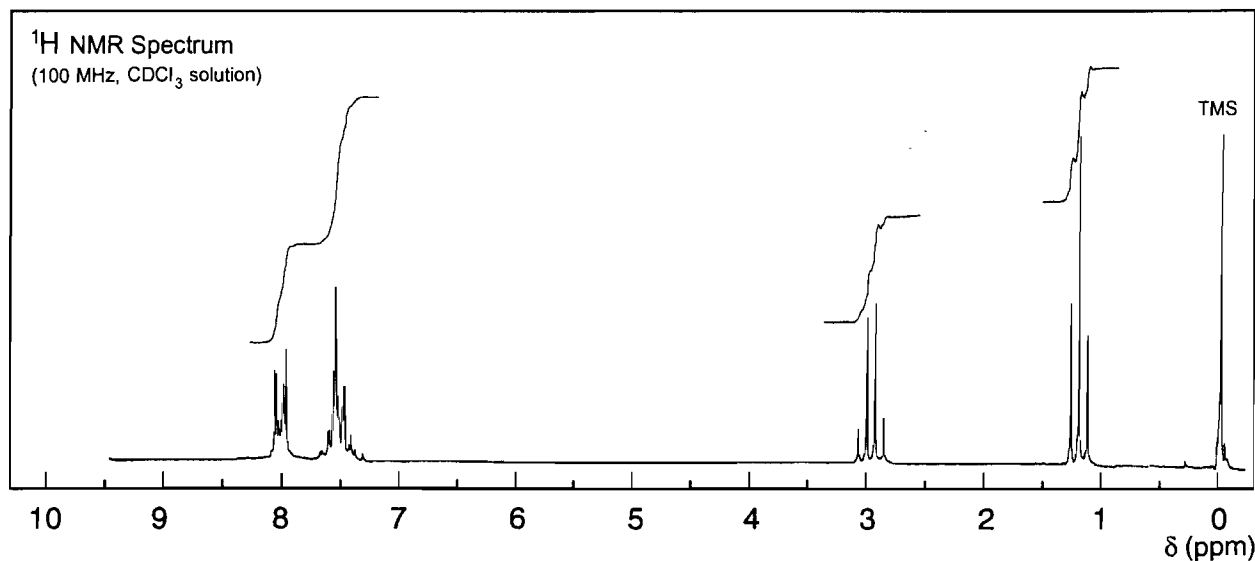
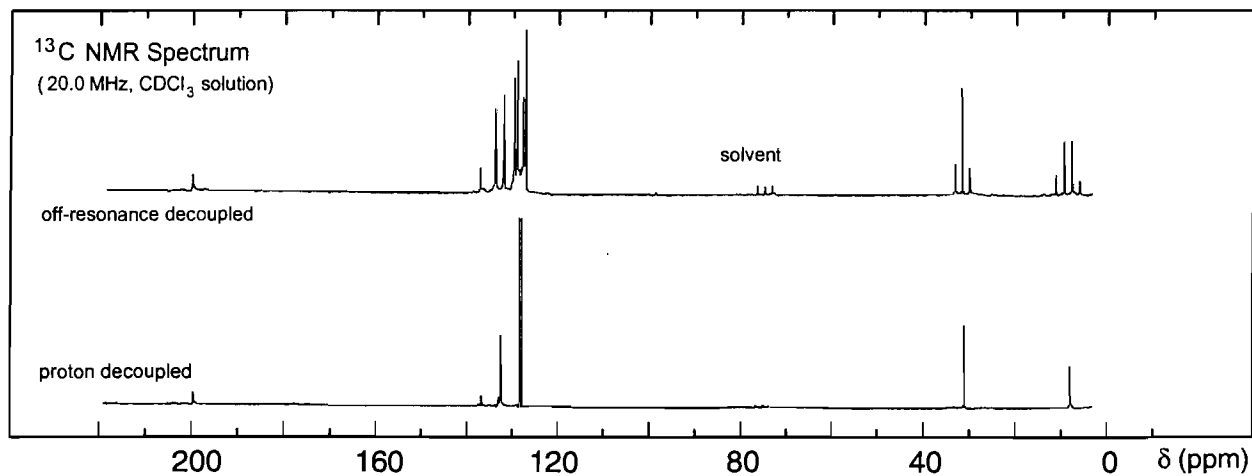
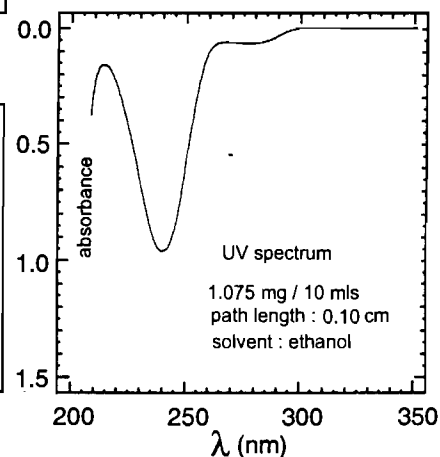
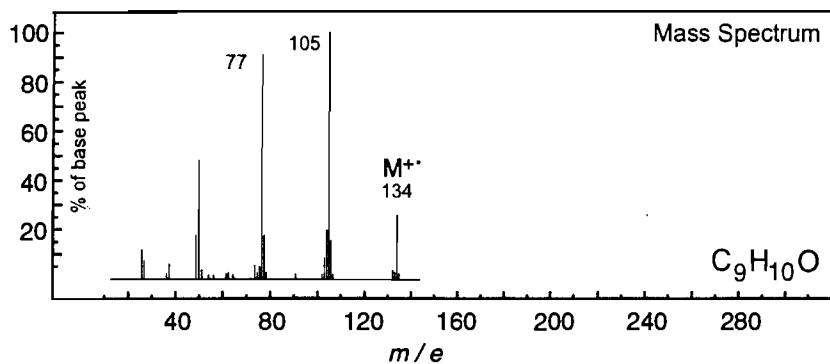
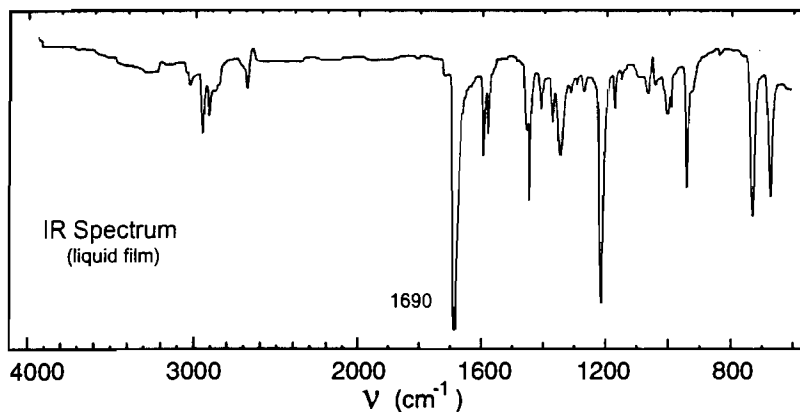
Problem 28



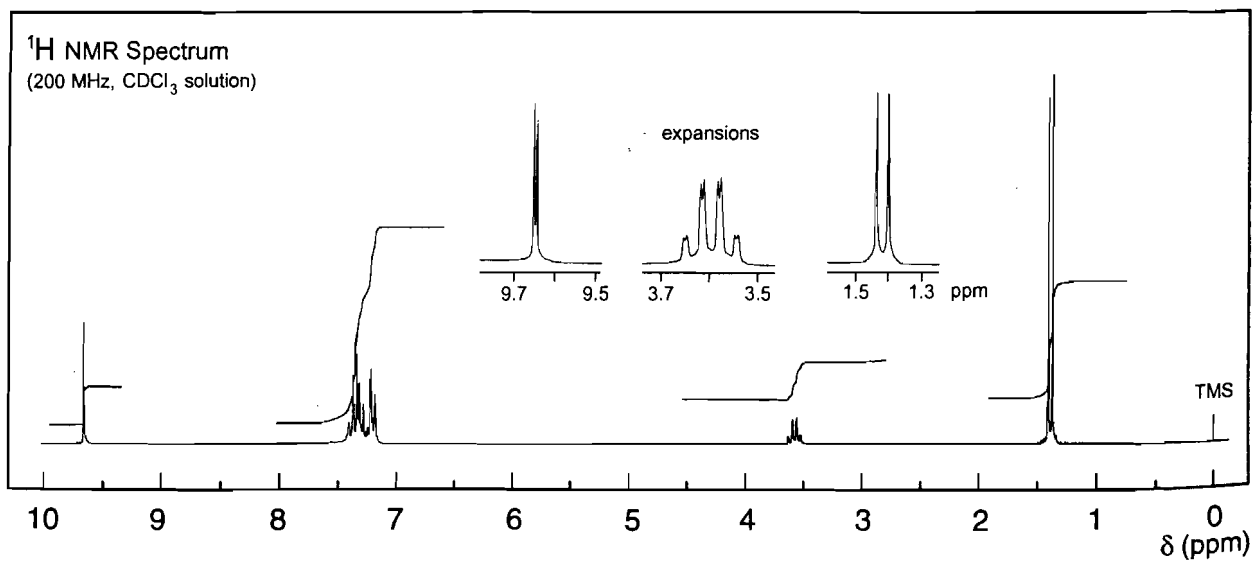
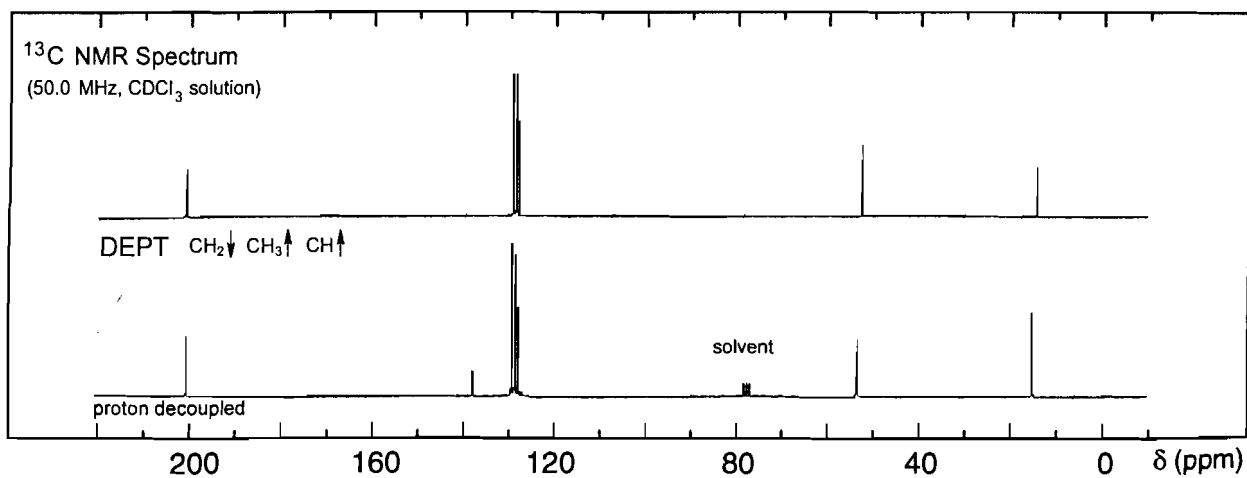
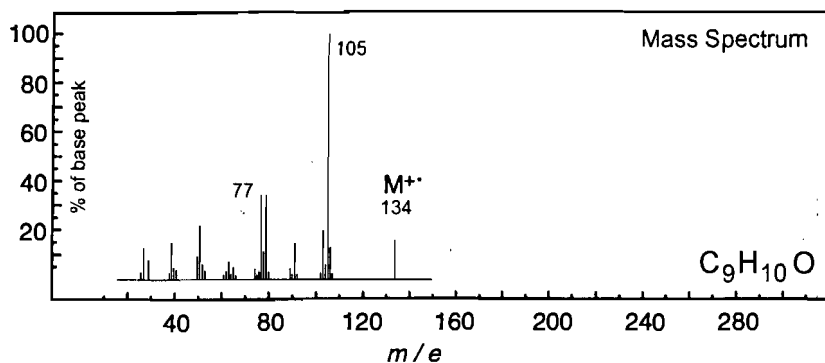
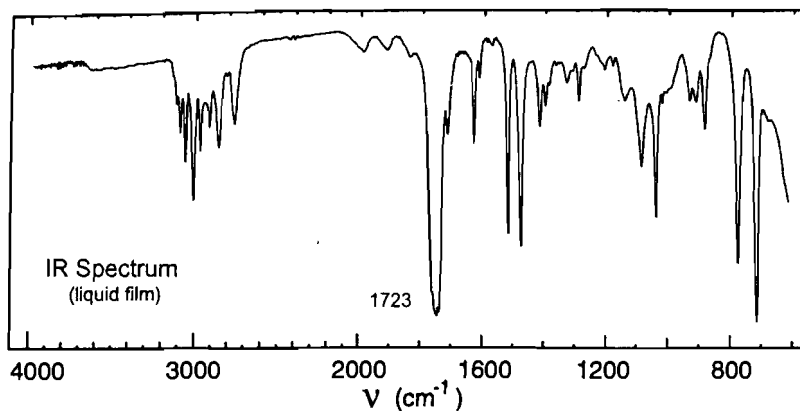
Problem 29



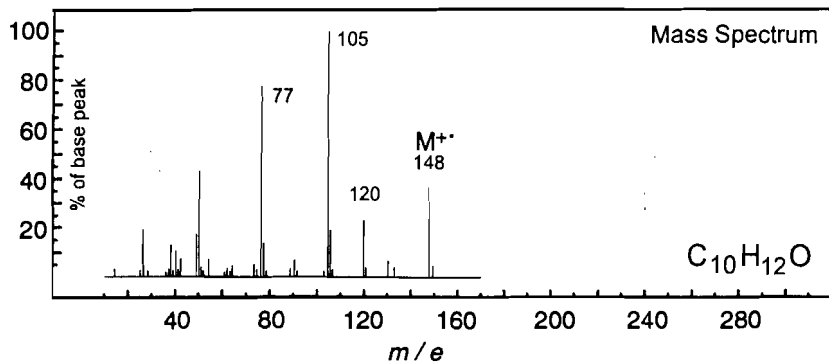
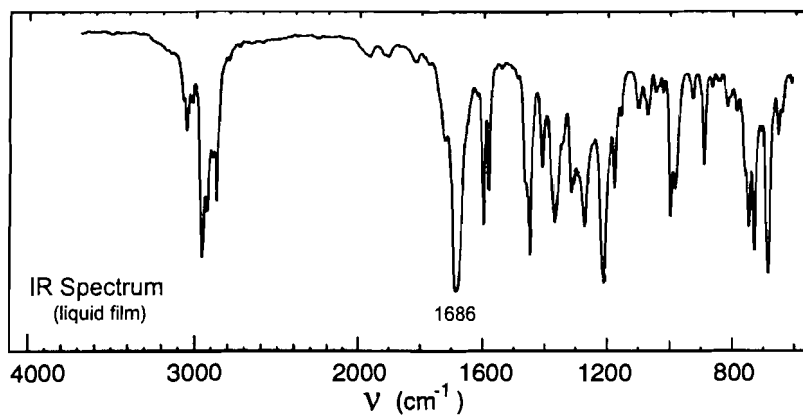
Problem 30



Problem 31



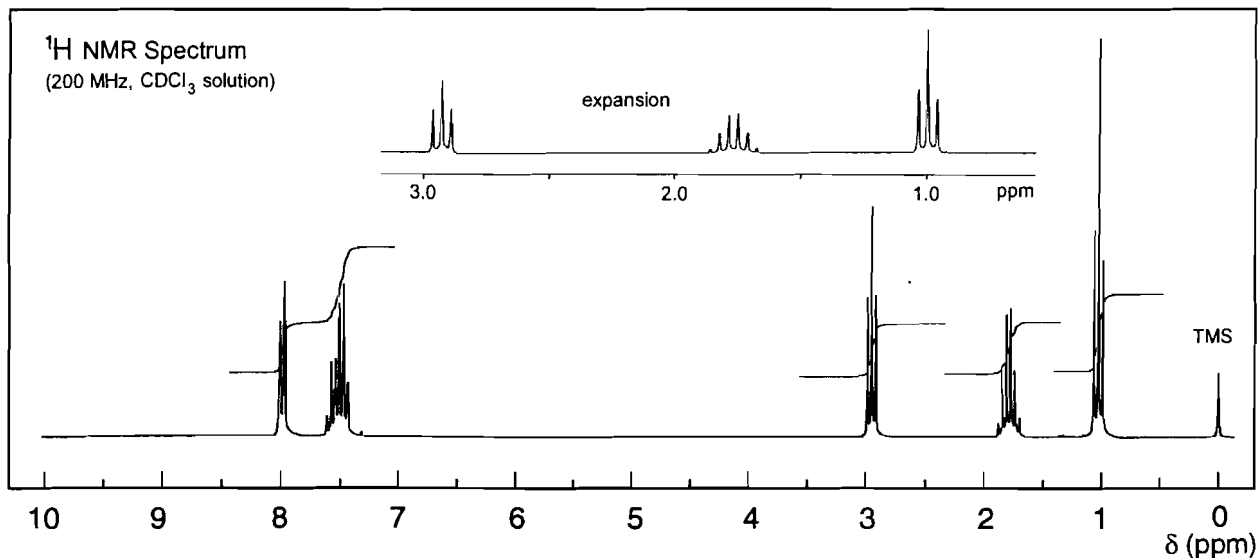
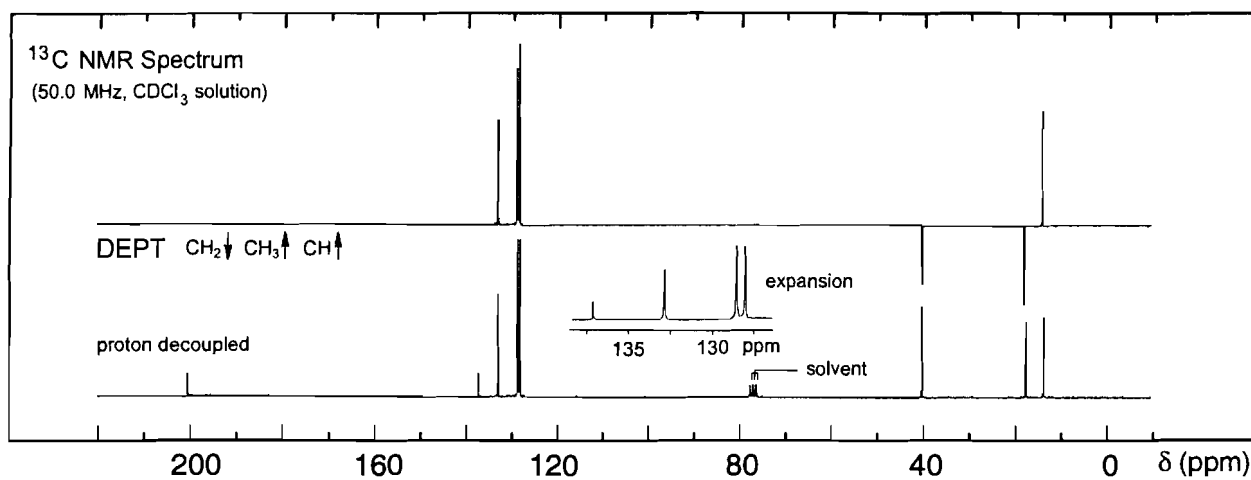
Problem 32



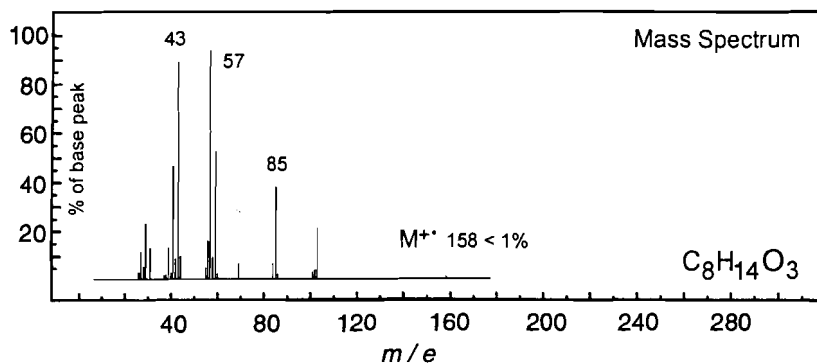
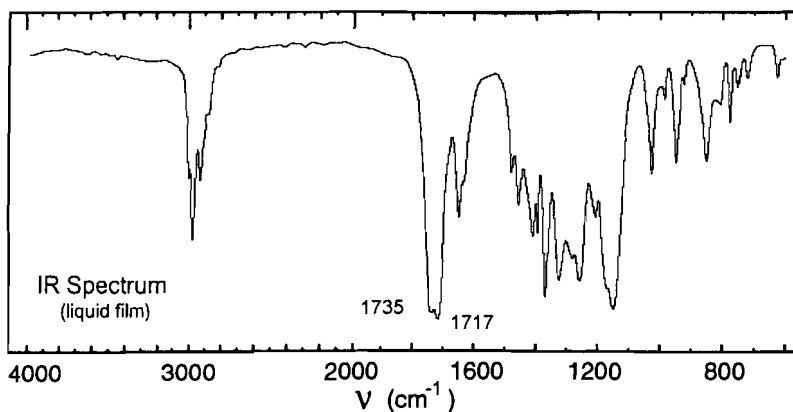
UV Spectrum

λ_{max} 241 nm ($\log_{10} \epsilon$ 4.1)

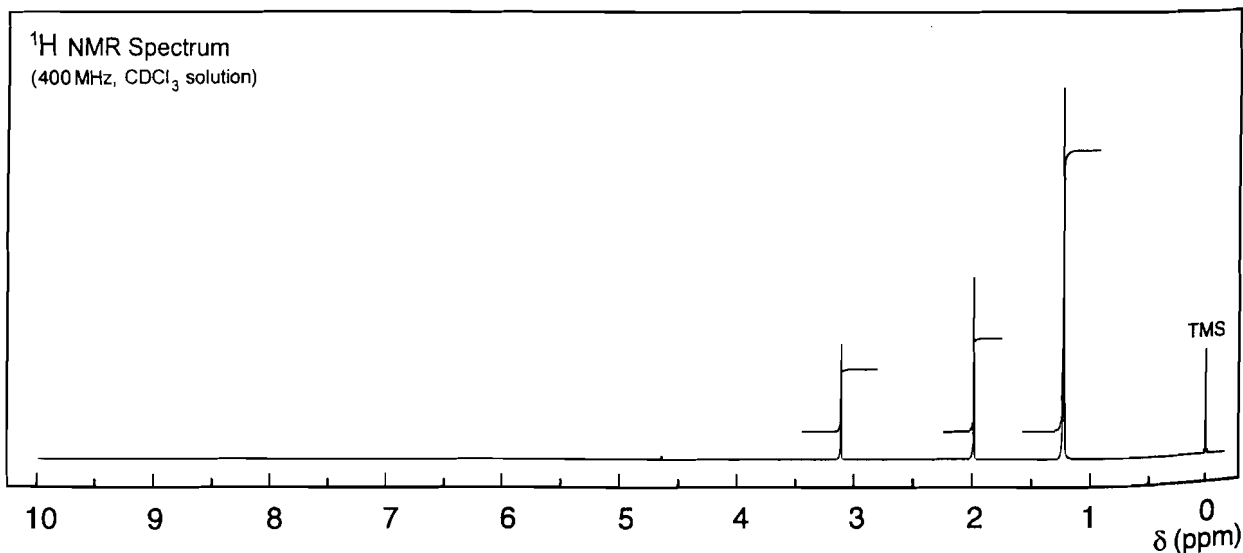
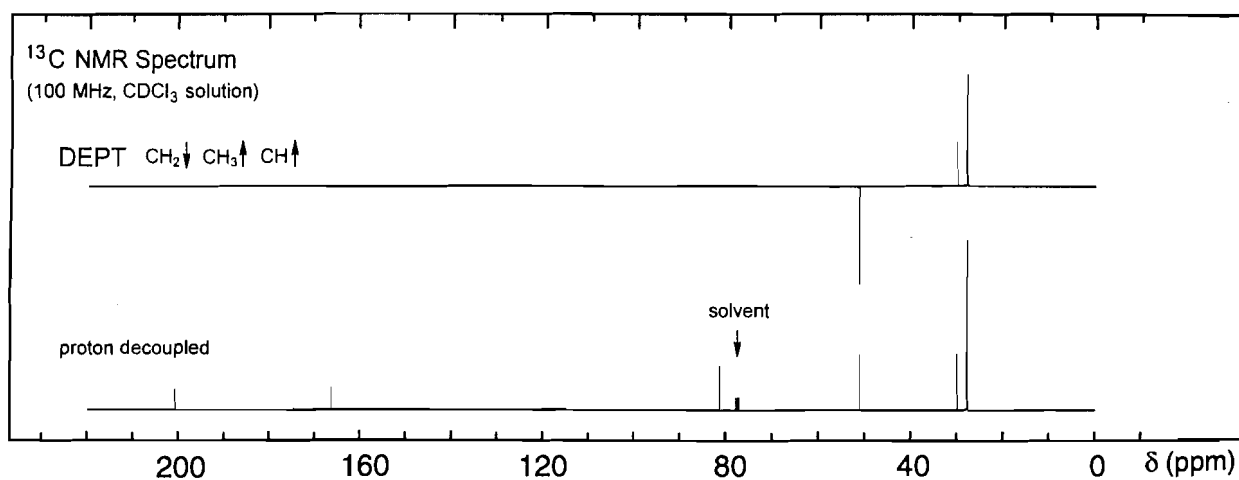
solvent : methanol



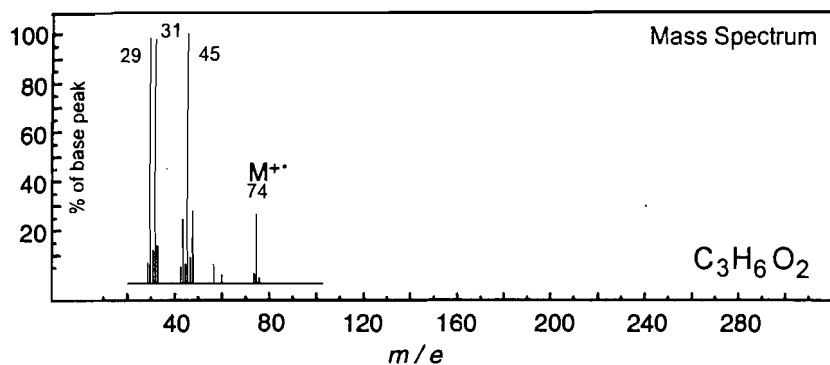
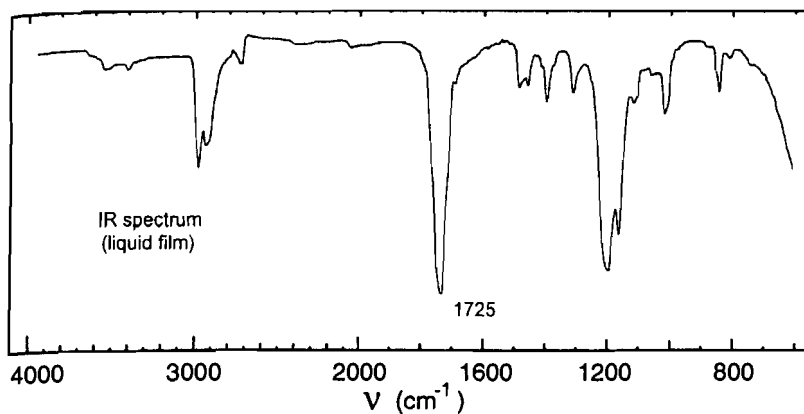
Problem 33



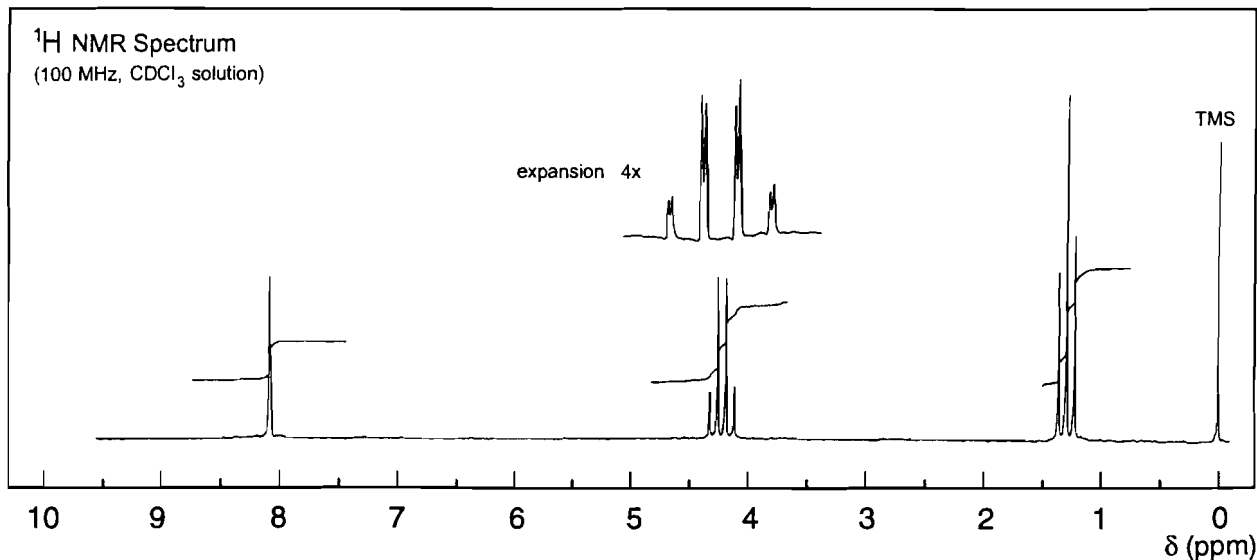
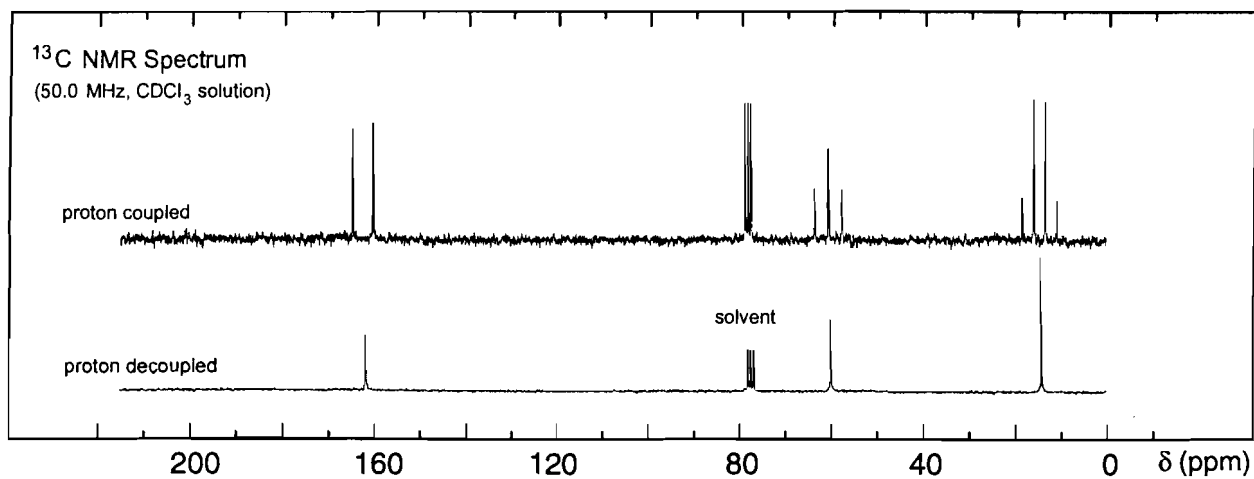
No significant UV
absorption above 220 nm



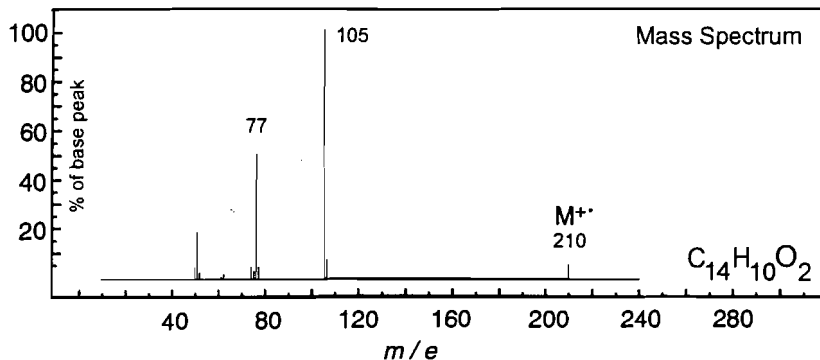
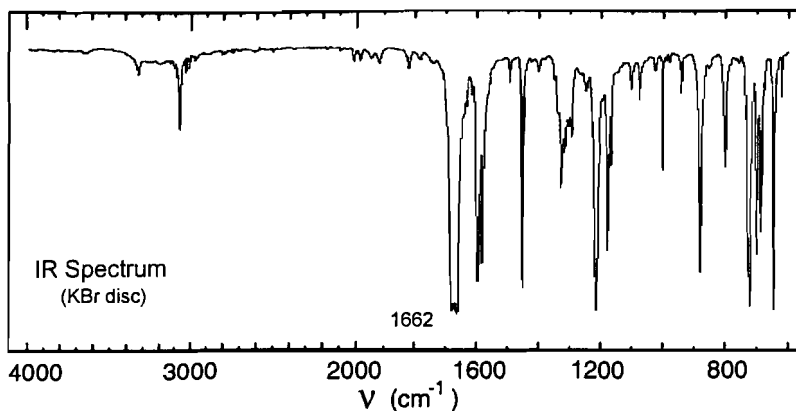
Problem 34



No significant UV
absorption above 210 nm



Problem 35



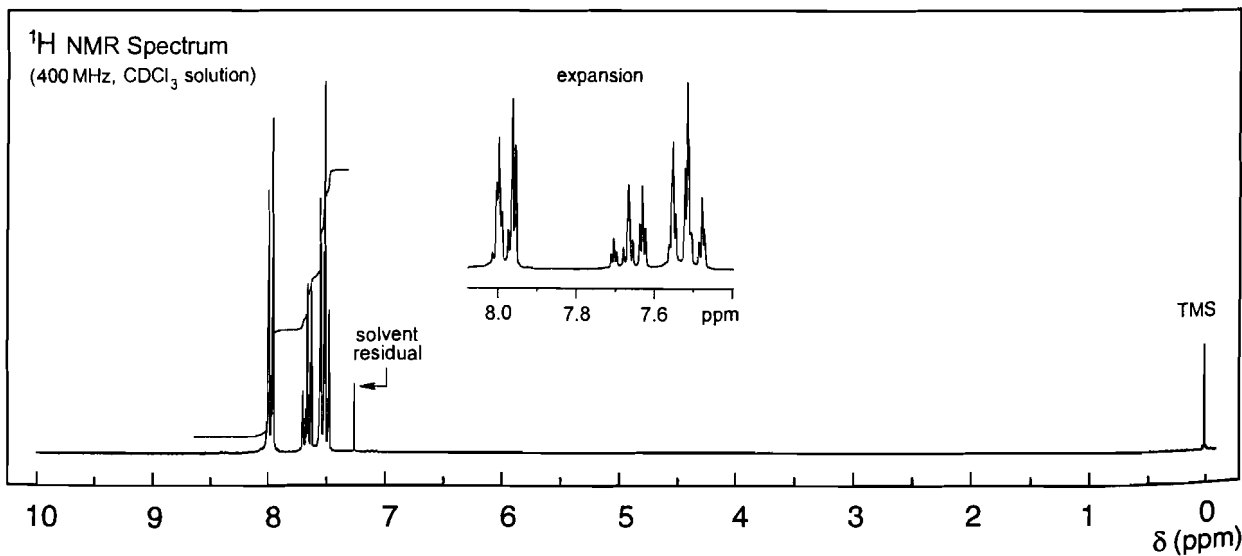
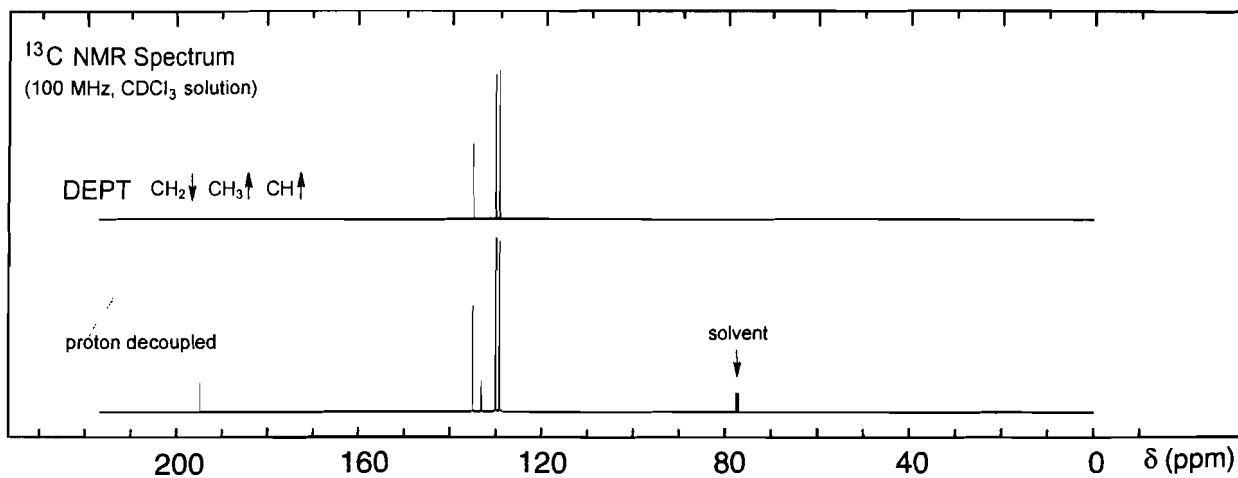
UV Spectrum

$\lambda_{\max}$ 258 nm ($\log_{10} \epsilon$ 4.2)

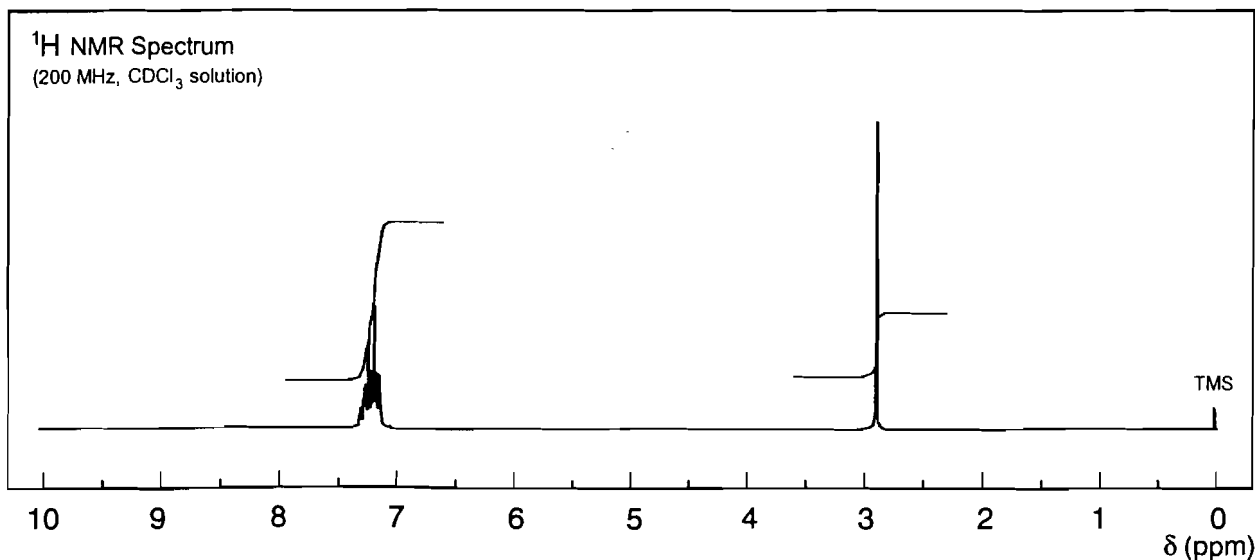
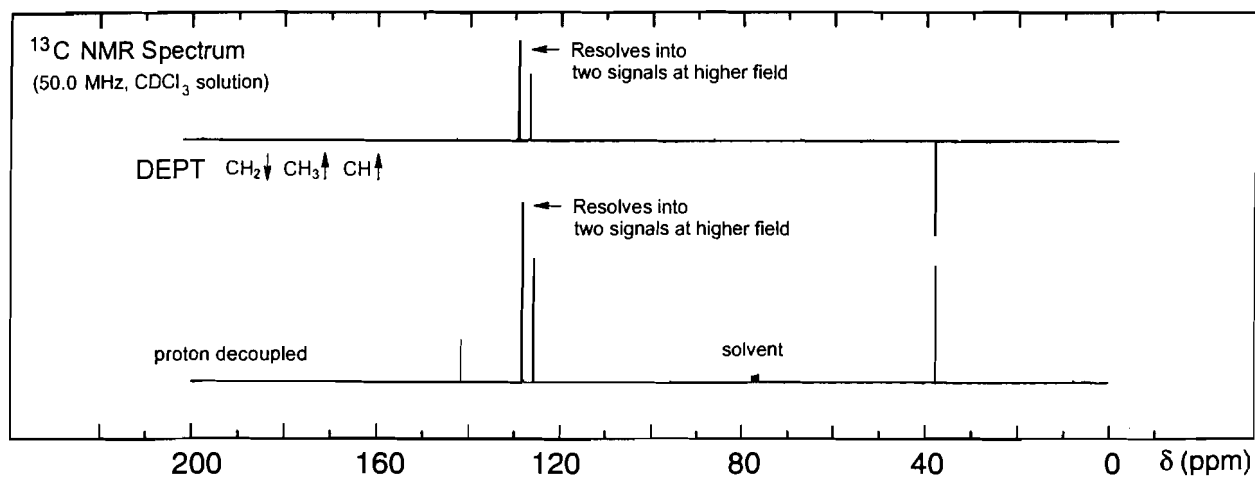
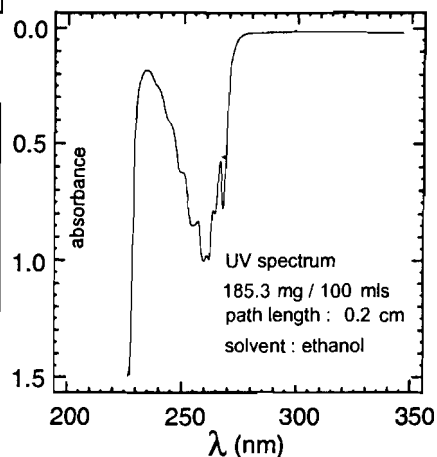
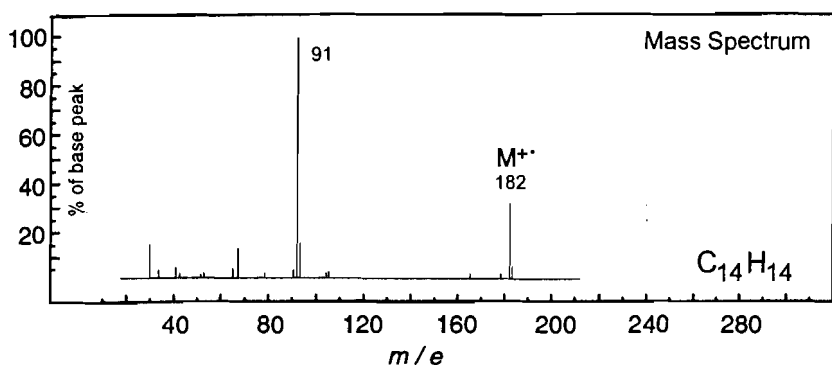
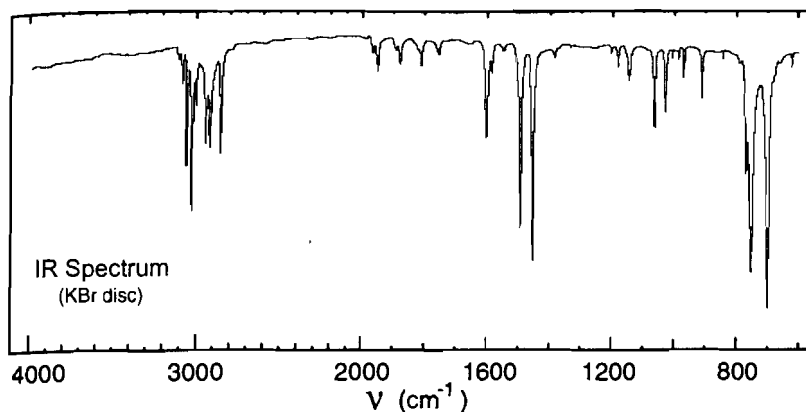
$\lambda_{\max}$ 330 nm ($\log_{10} \epsilon$ 2.8)

$\lambda_{\max}$ 388 nm ($\log_{10} \epsilon$ 2.2)

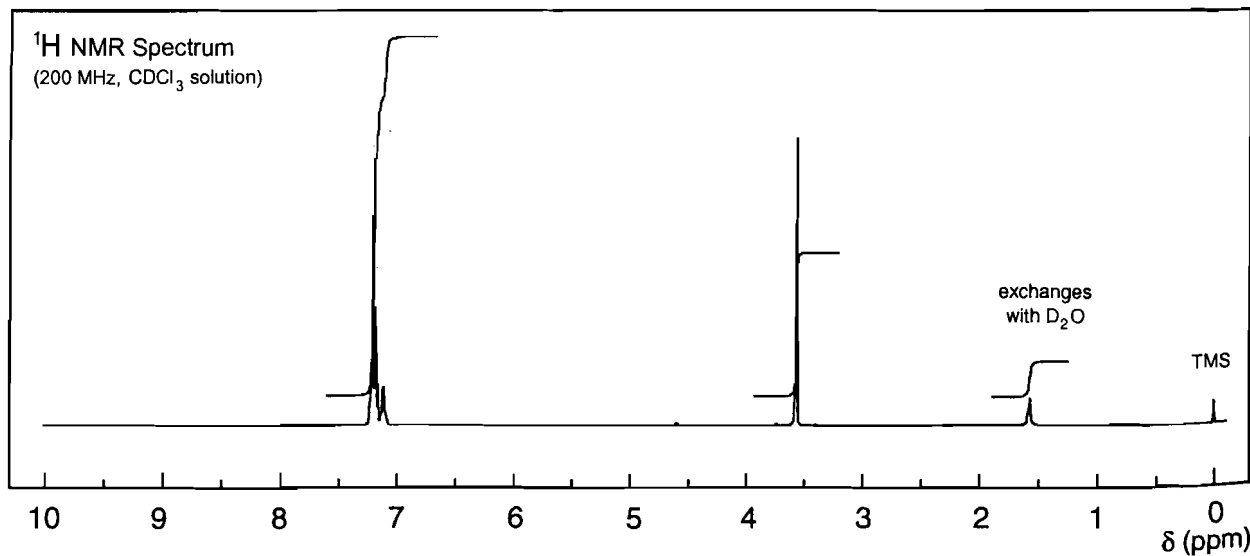
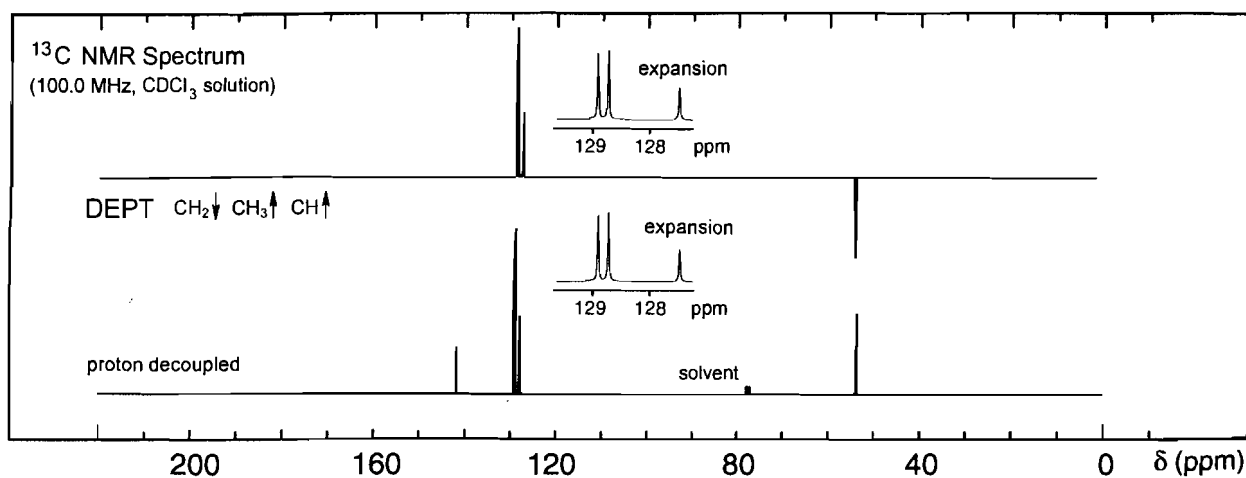
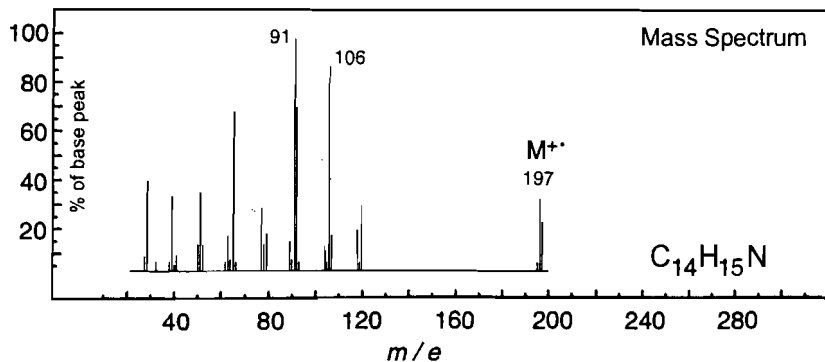
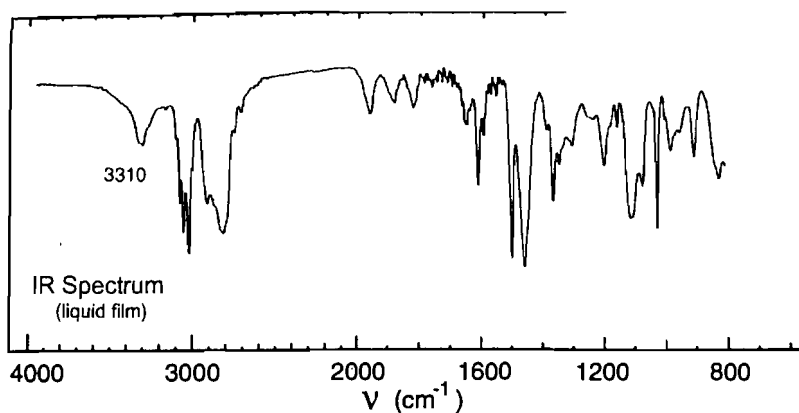
solvent : ethanol



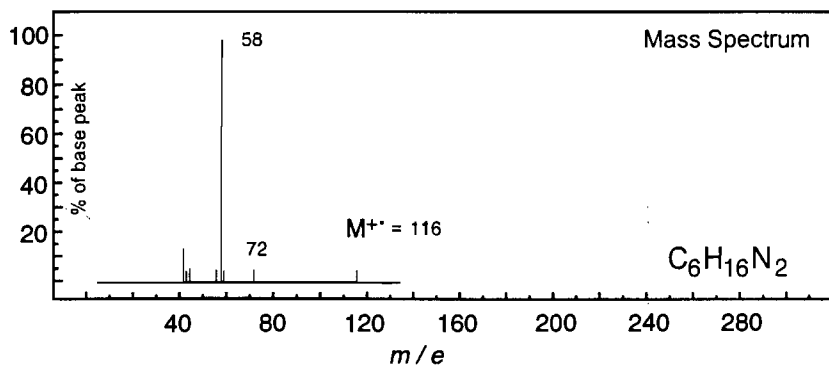
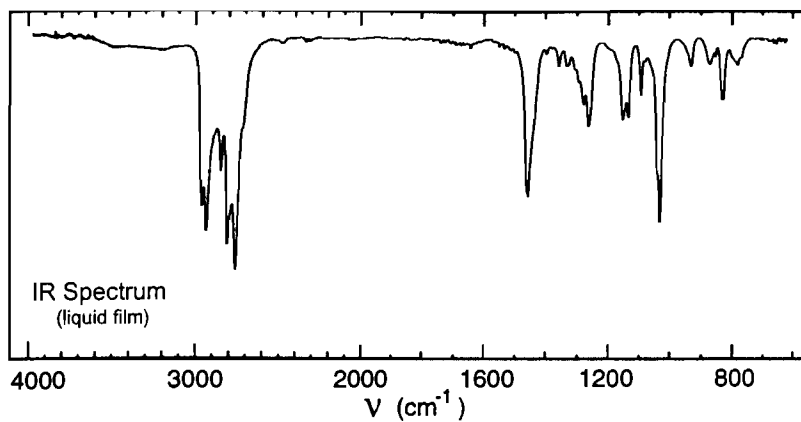
Problem 36



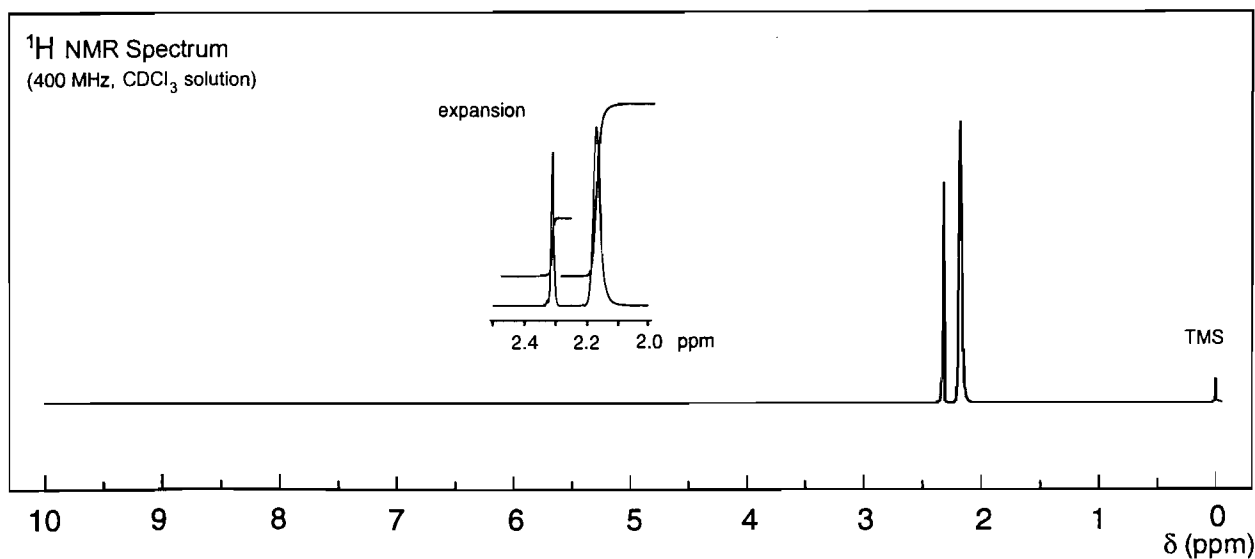
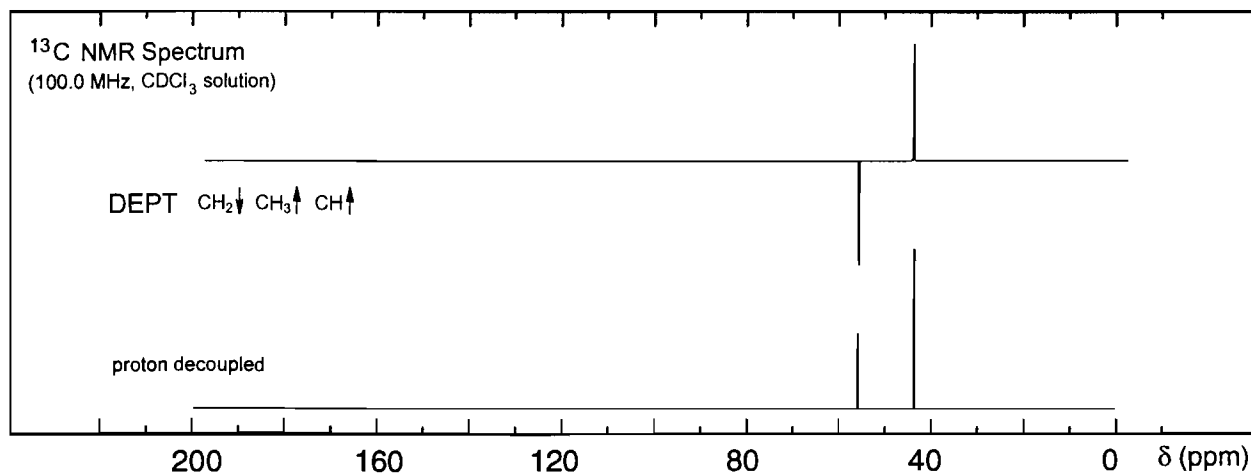
Problem 37



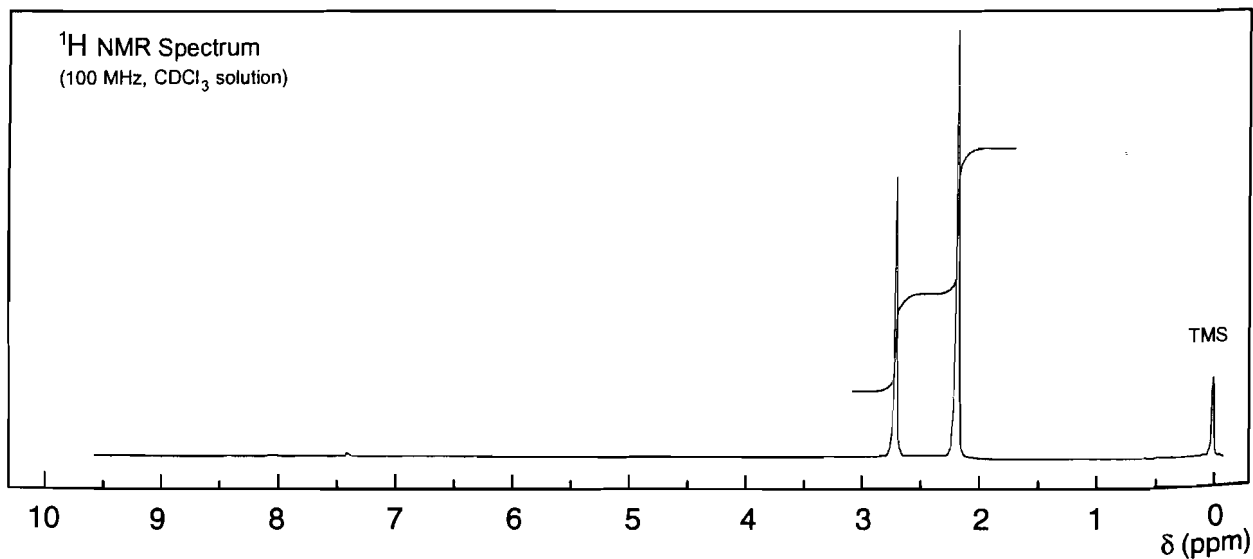
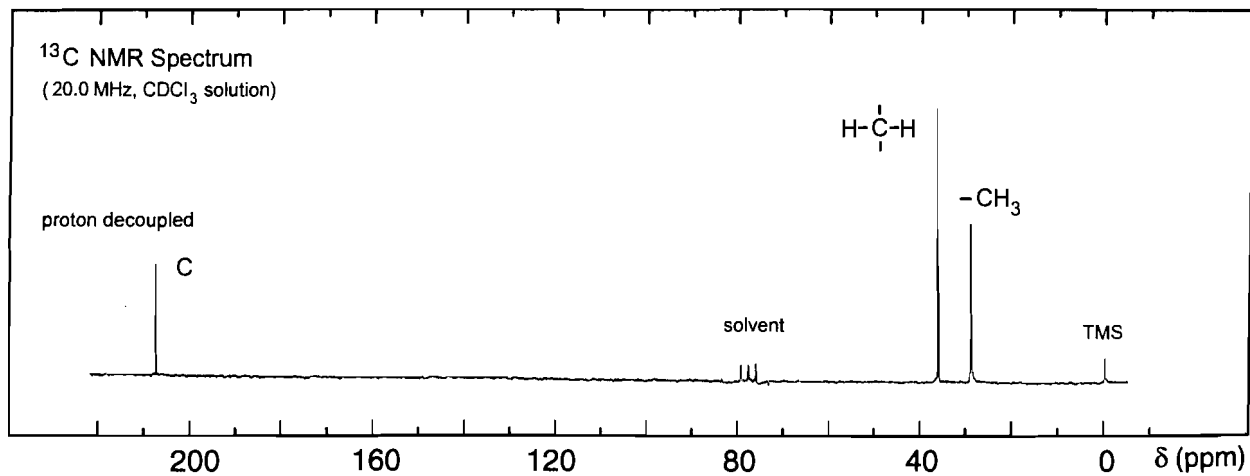
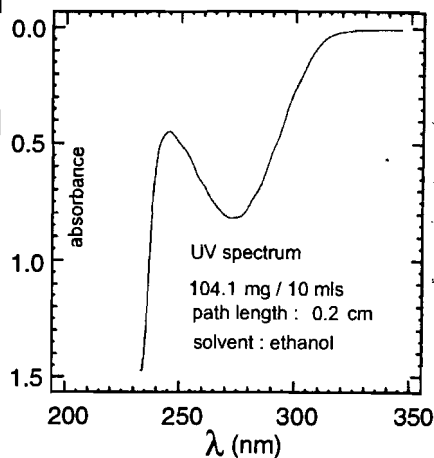
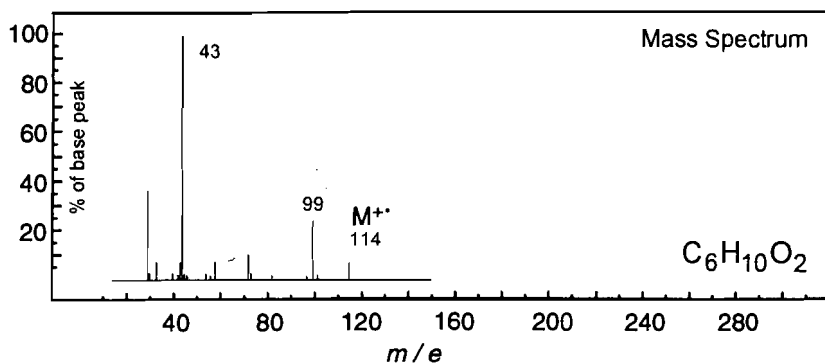
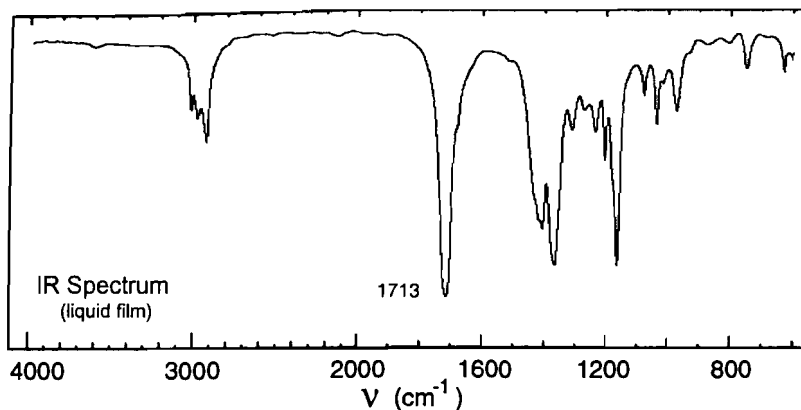
Problem 38



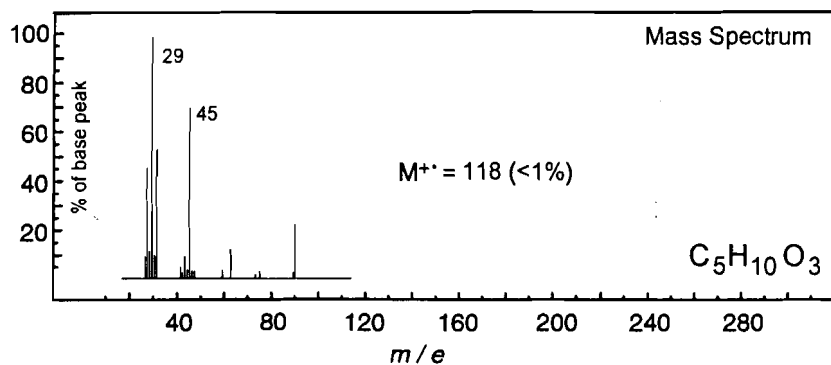
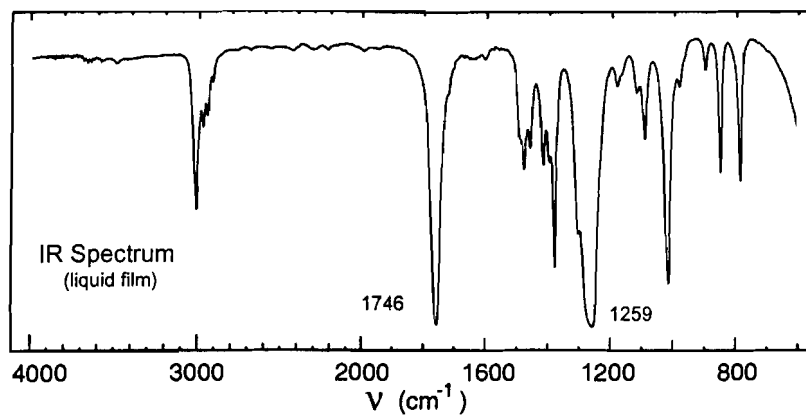
No significant UV
absorption above 220 nm



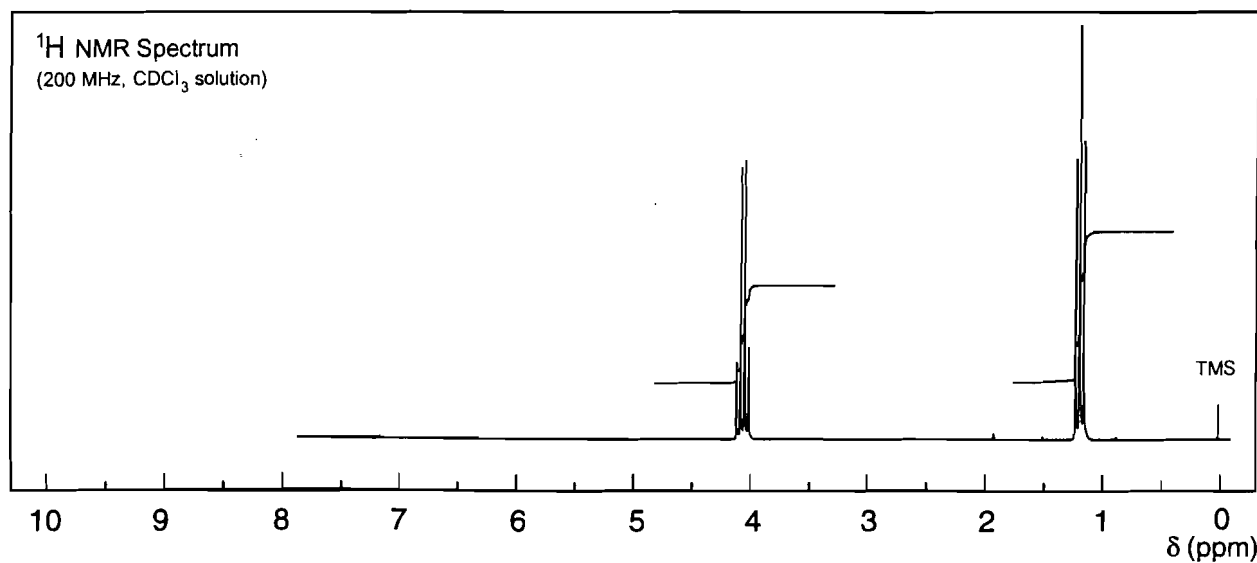
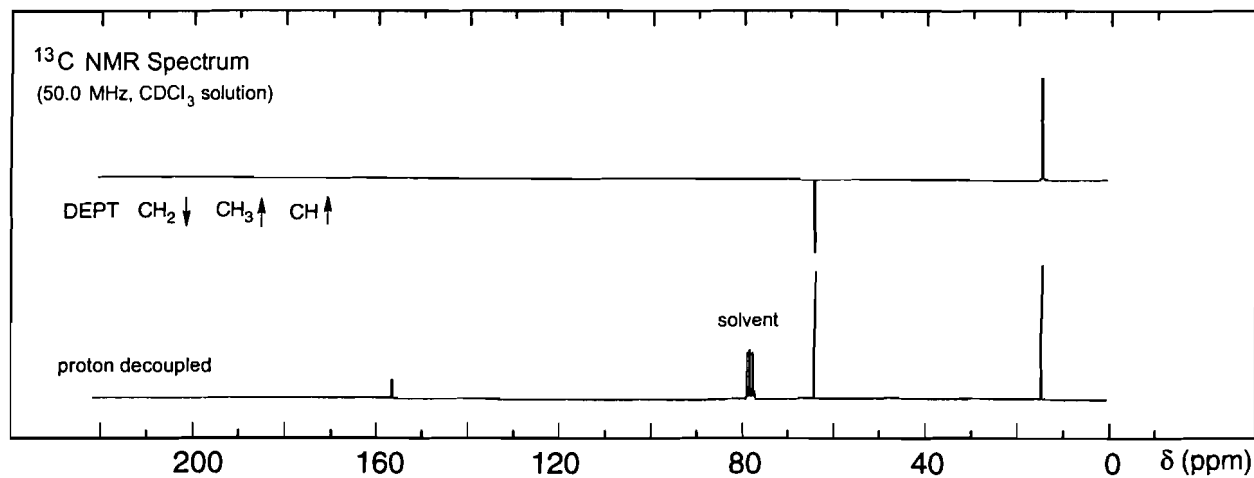
Problem 39



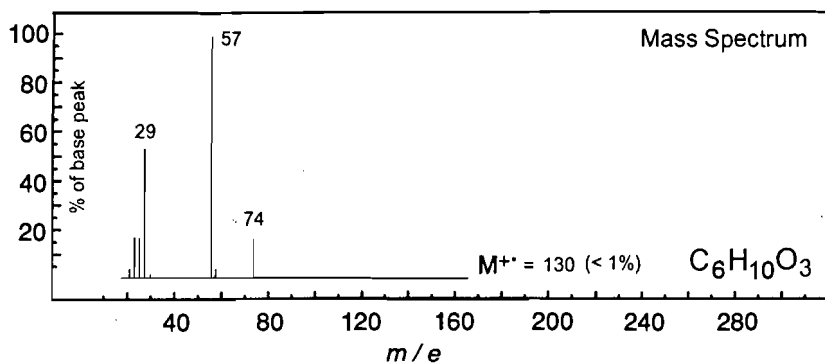
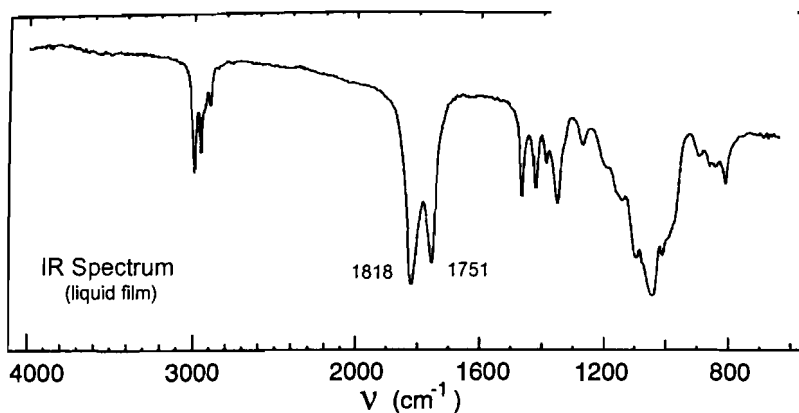
Problem 40



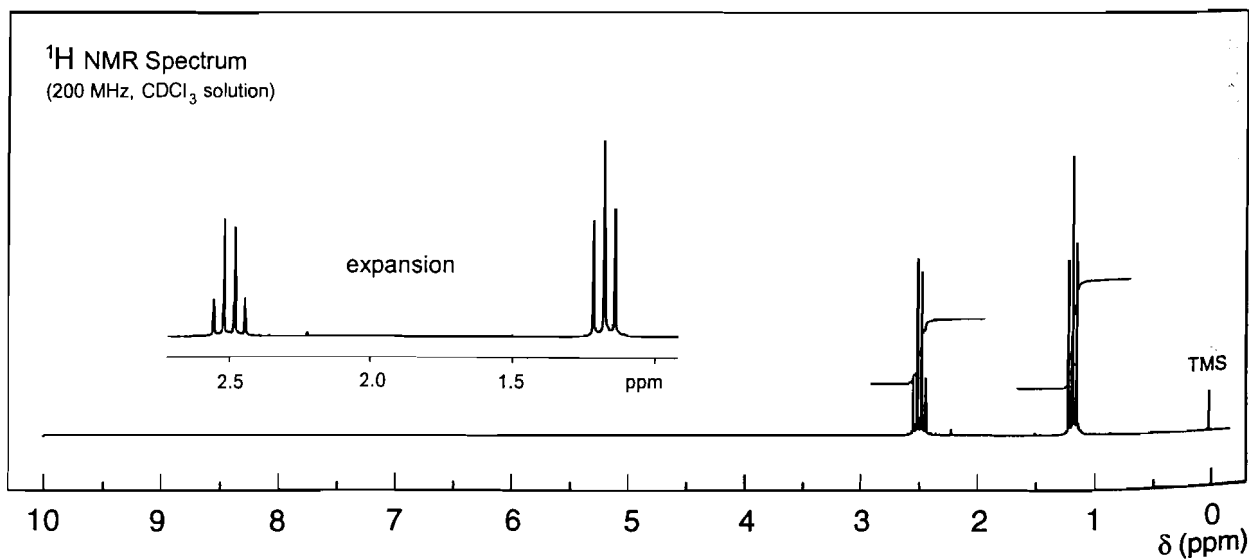
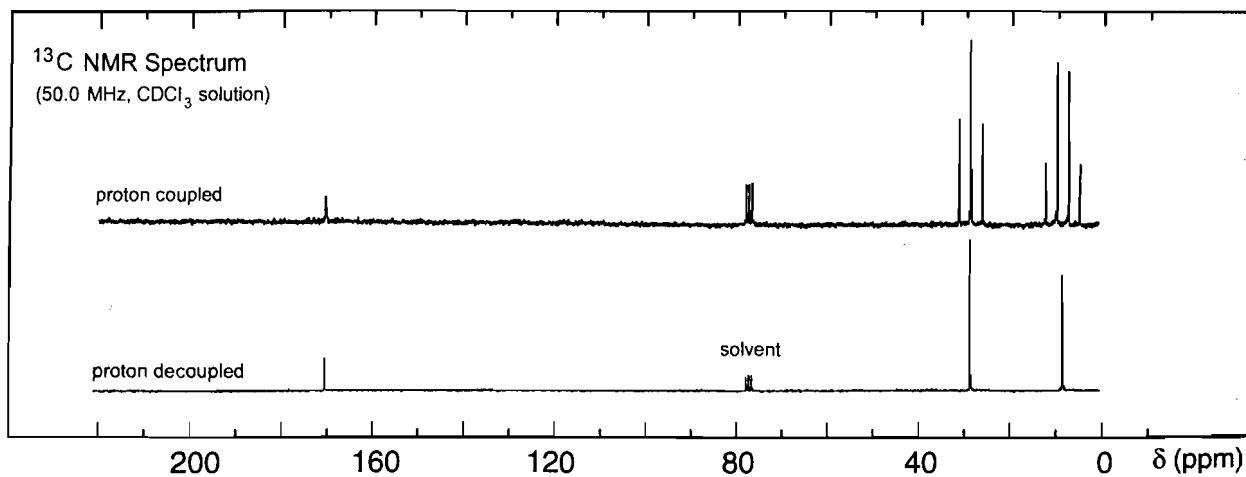
No significant UV
absorption above 220 nm



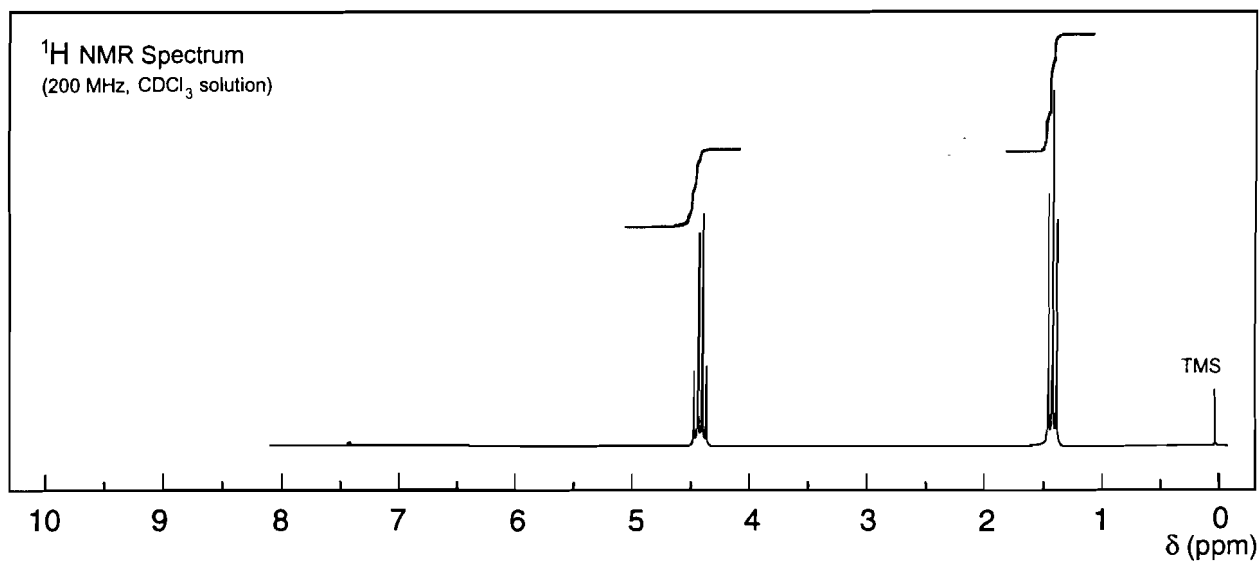
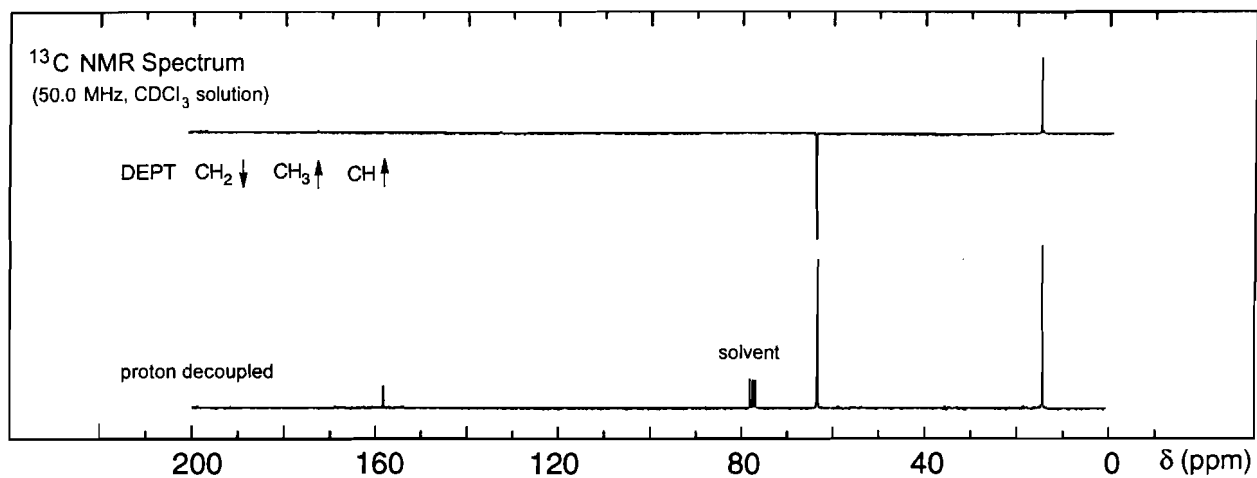
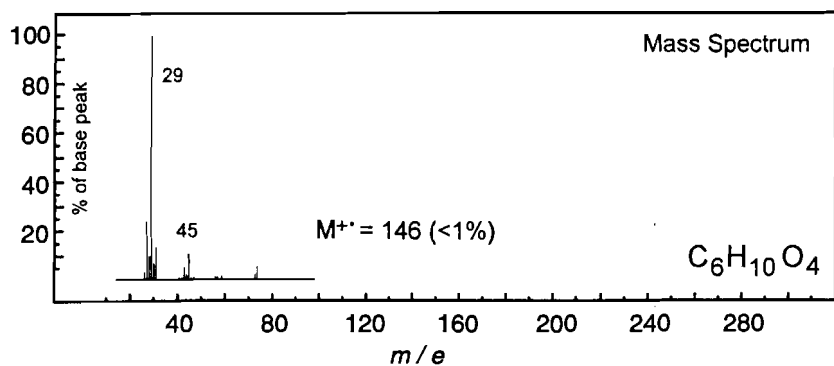
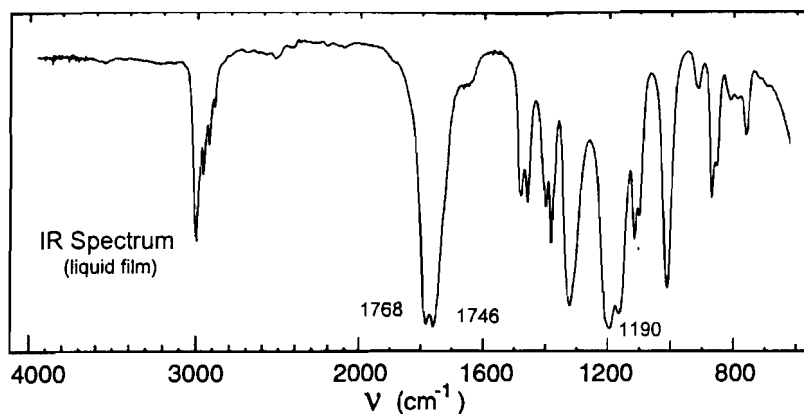
Problem 41



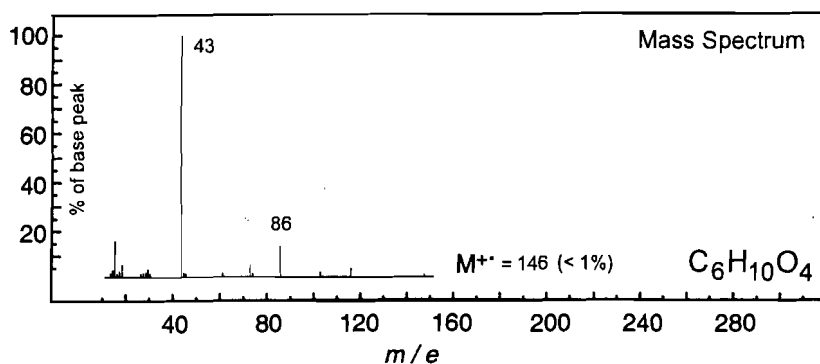
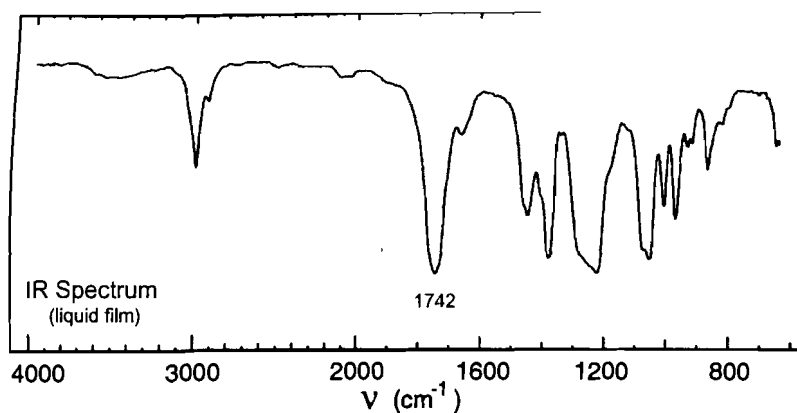
No significant UV
absorption above 220 nm



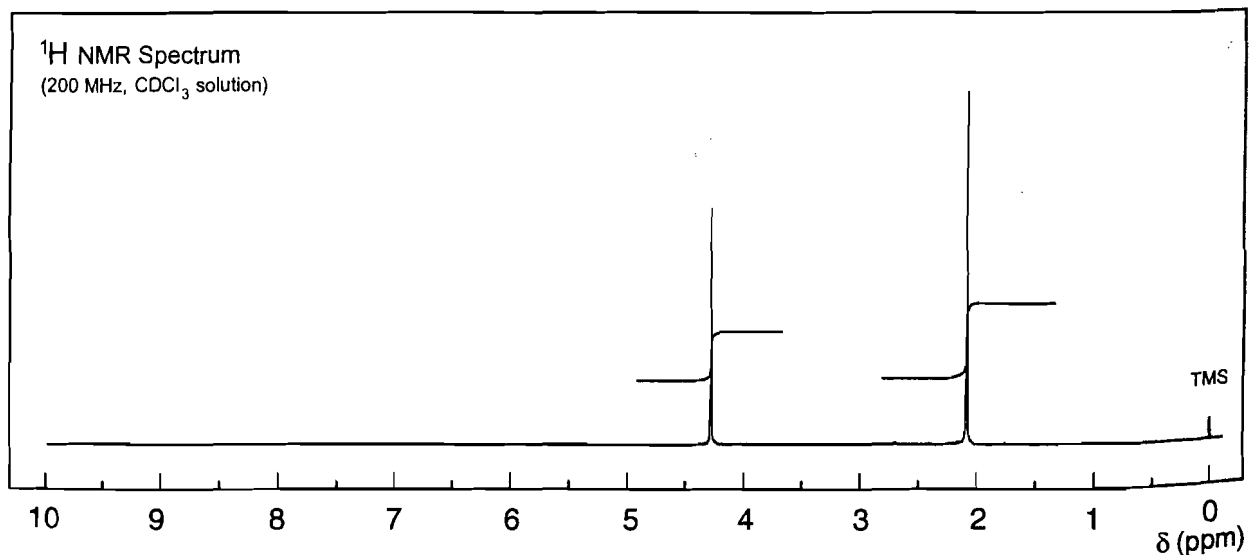
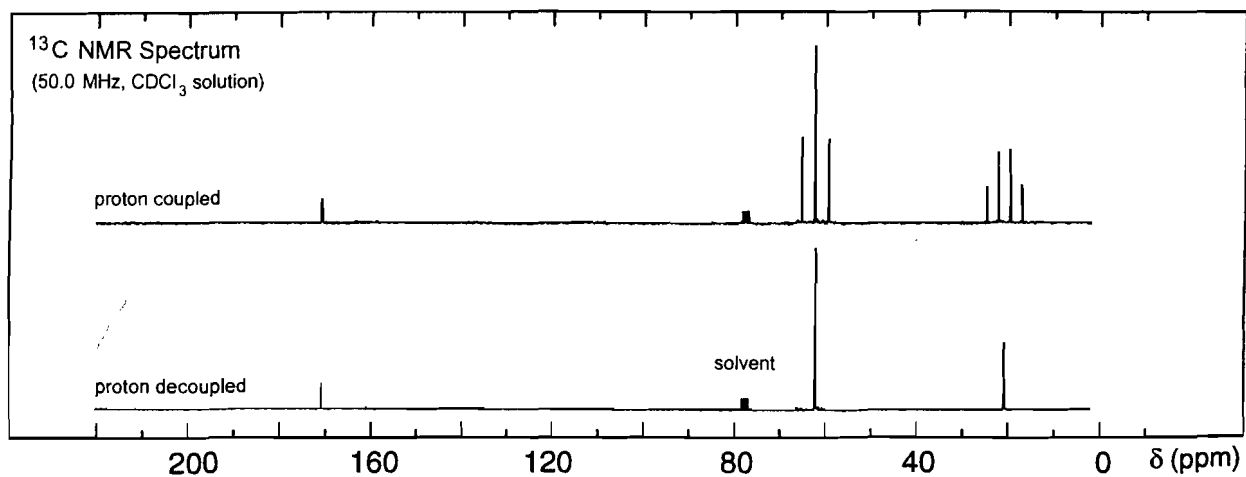
Problem 42



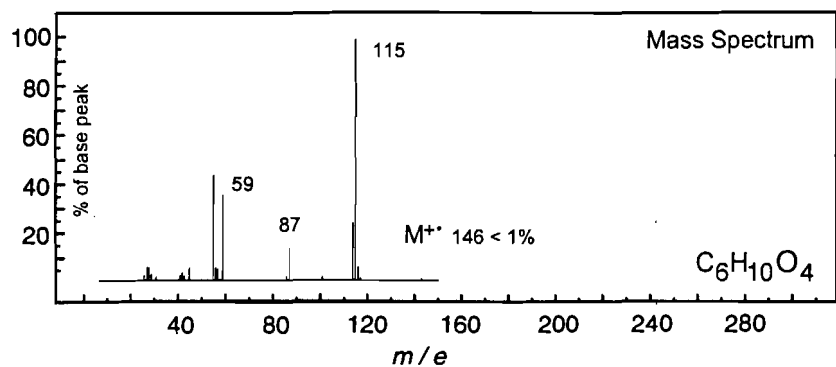
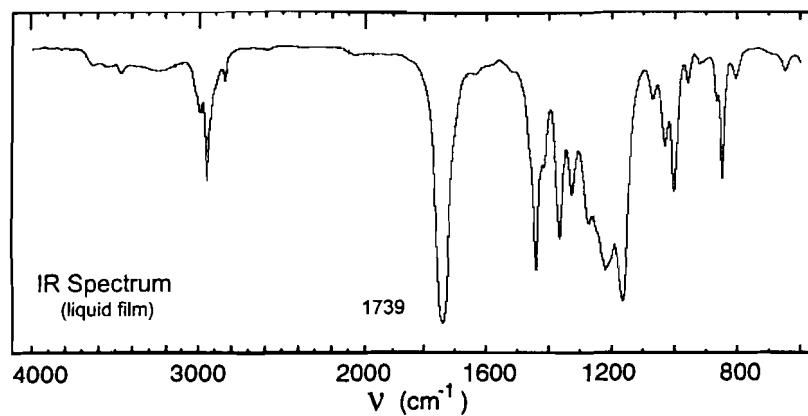
Problem 43



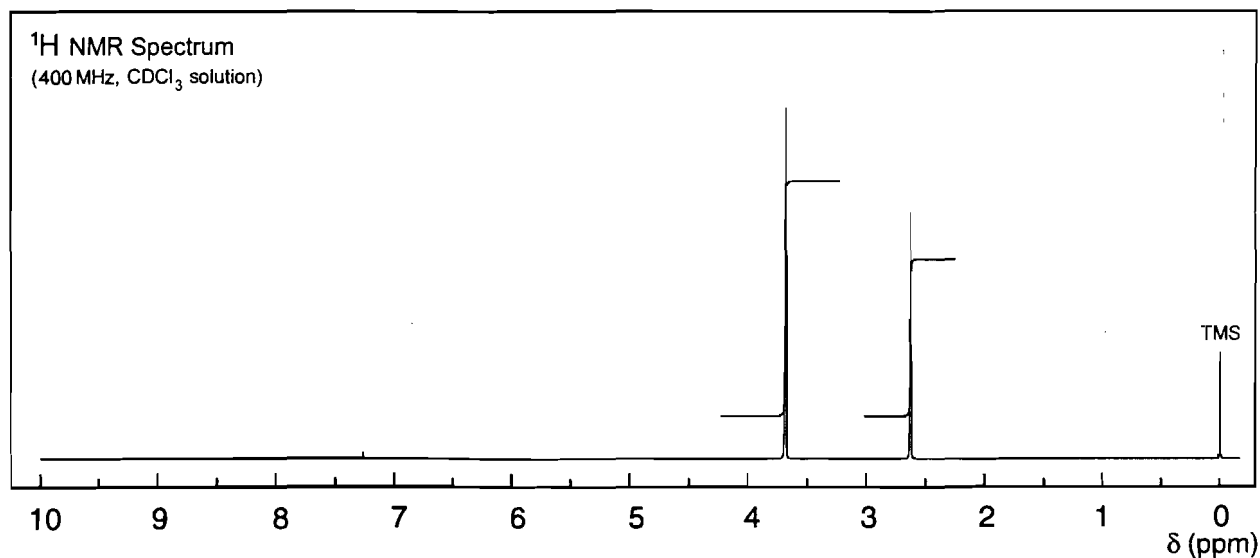
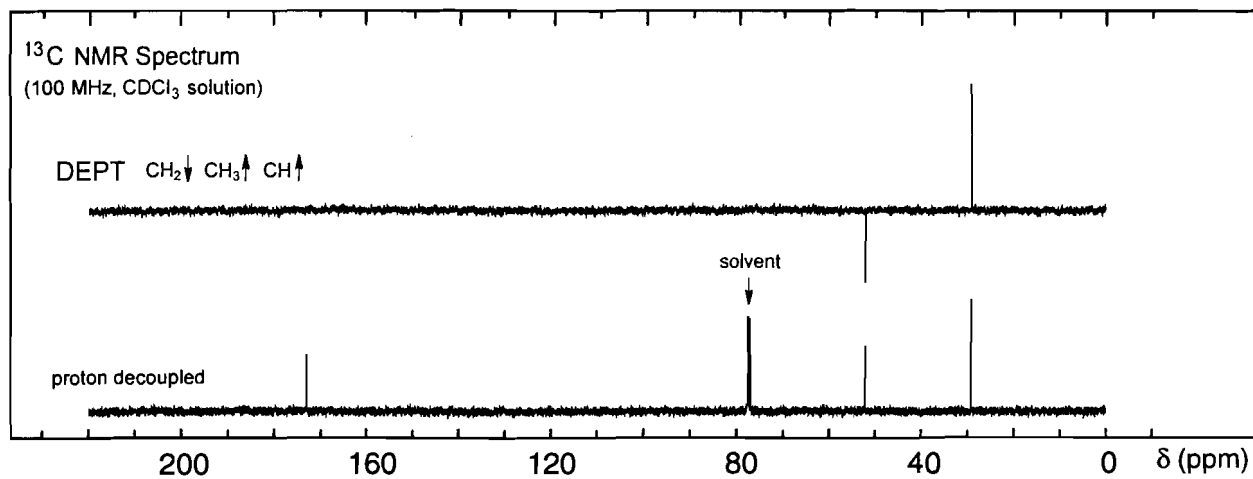
No significant UV
absorption above 220 nm



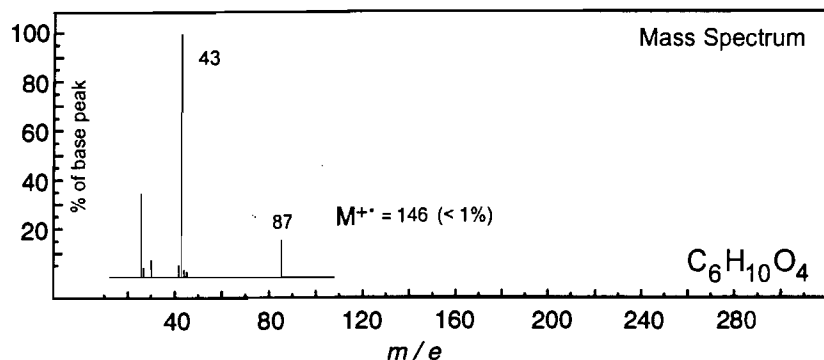
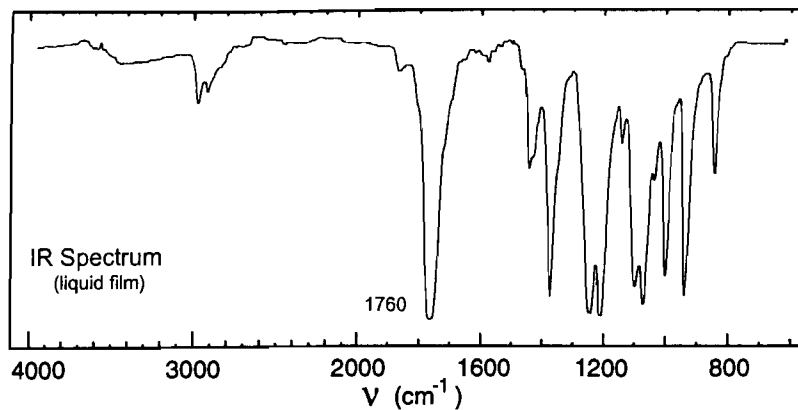
Problem 44



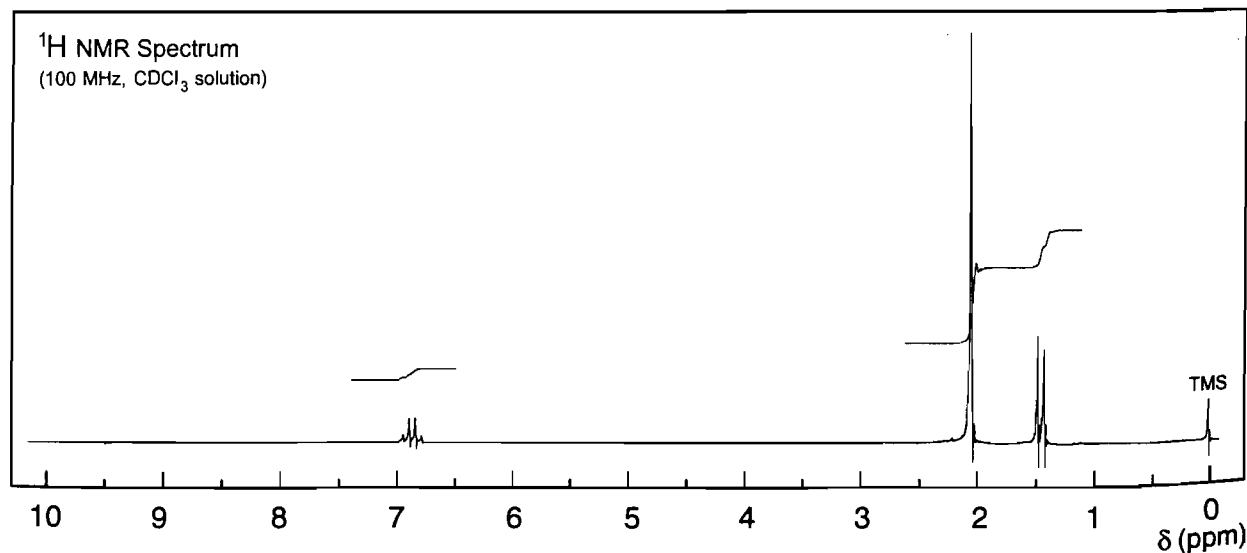
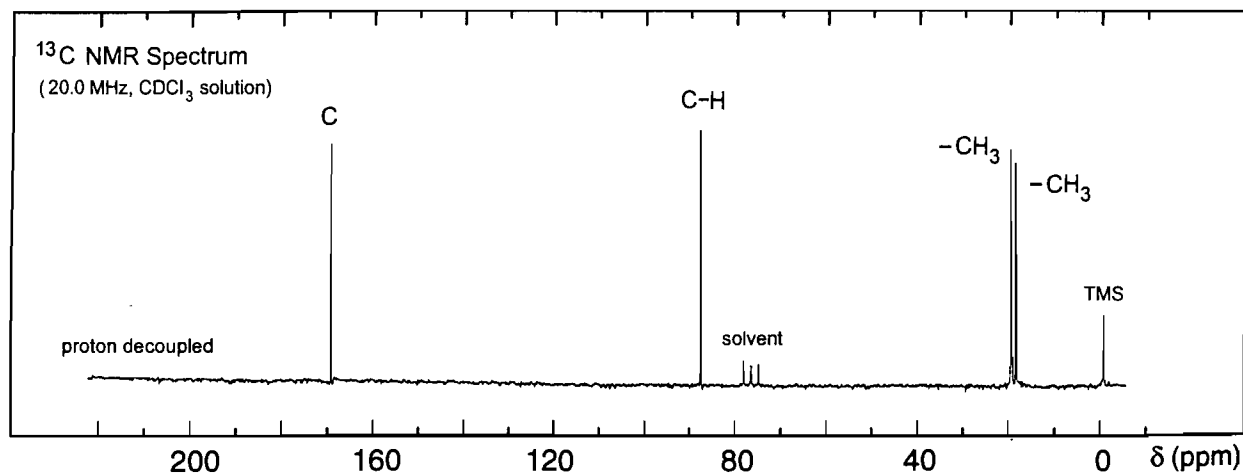
No significant UV
absorption above 220 nm



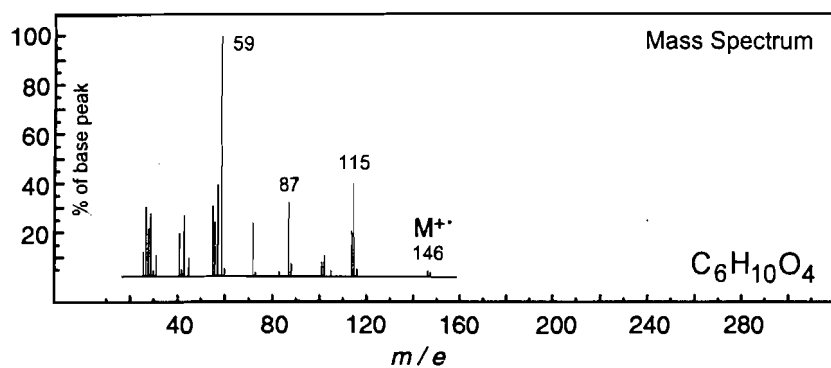
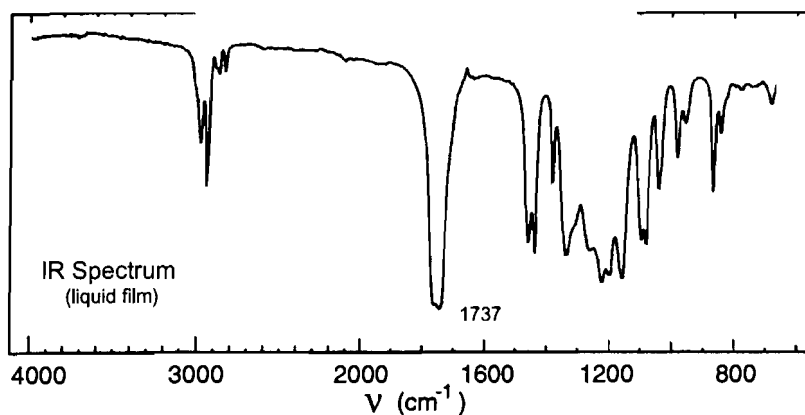
Problem 45



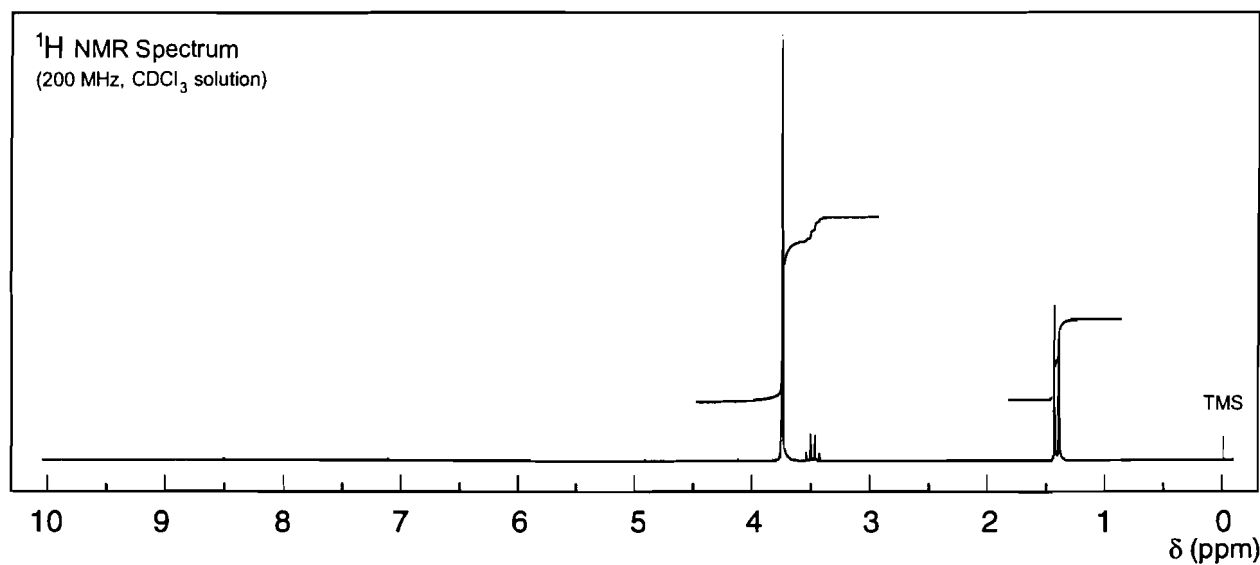
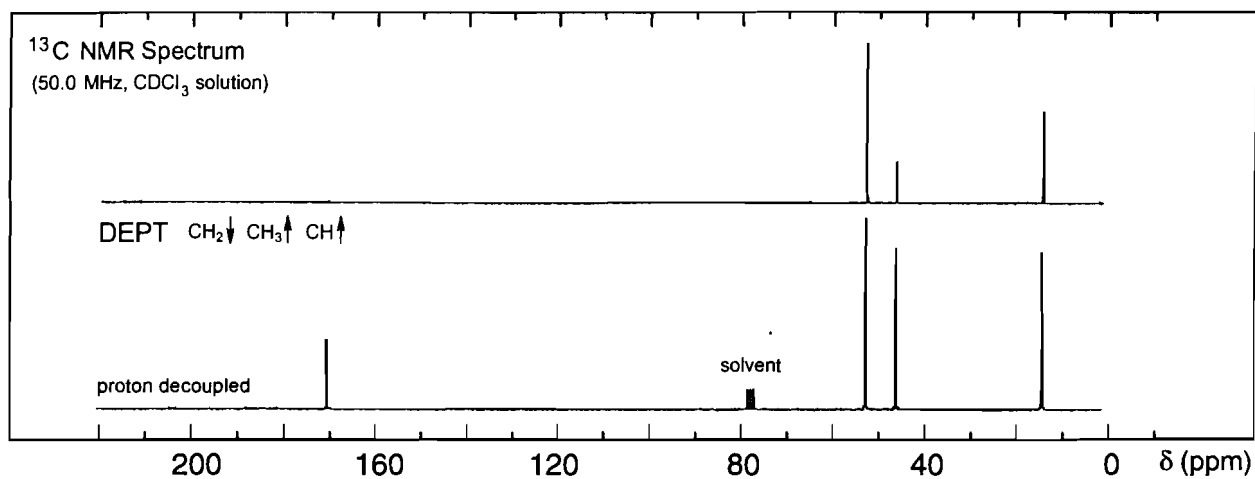
No significant UV
absorption above 220 nm



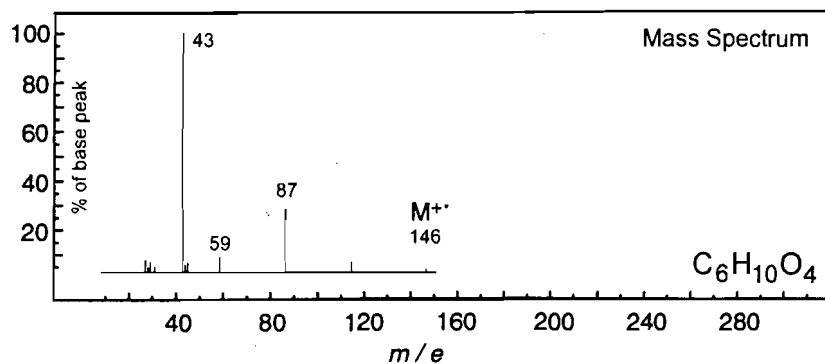
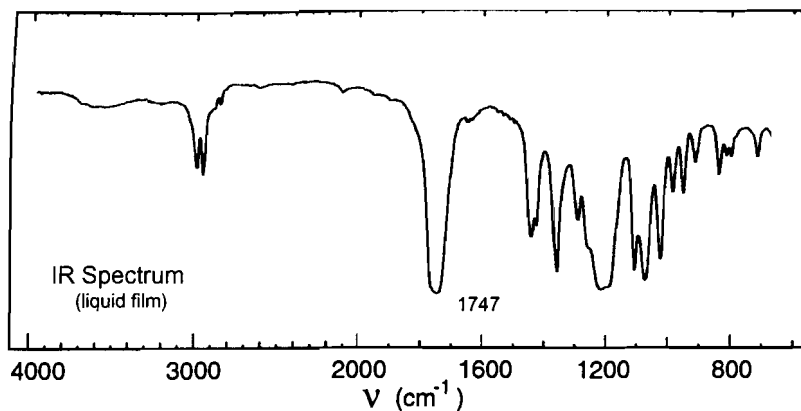
Problem 46



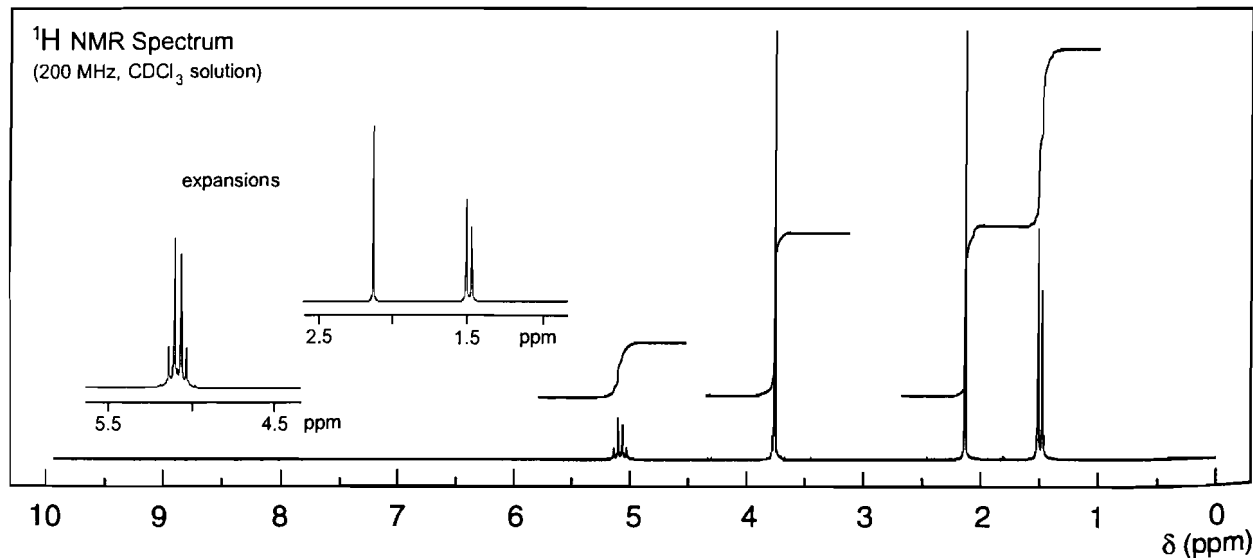
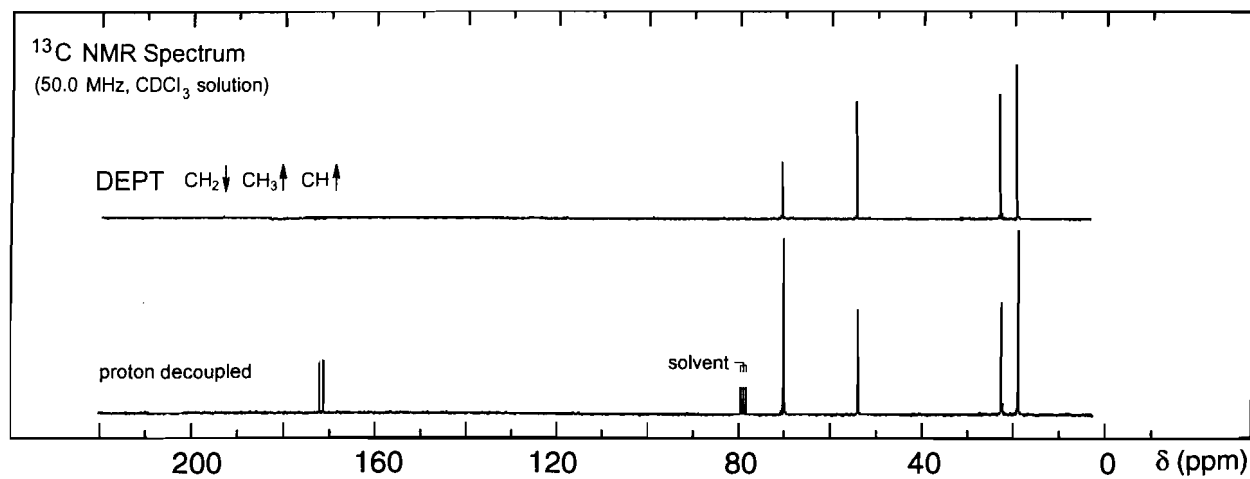
No significant UV
absorption above 220 nm



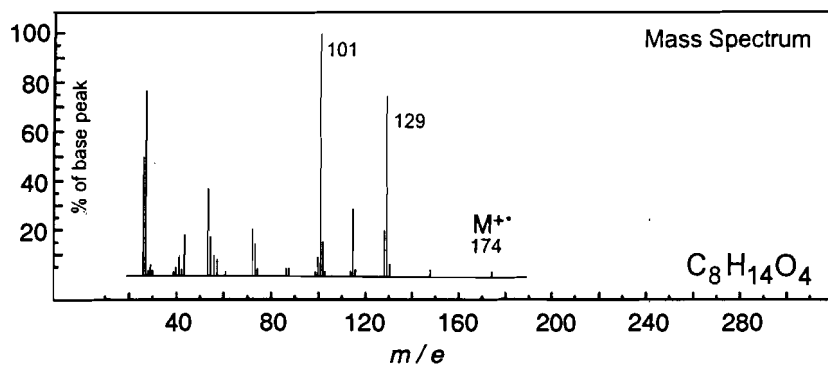
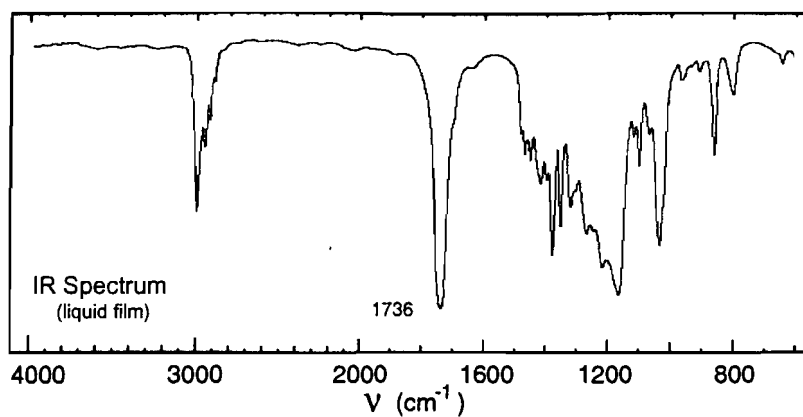
Problem 47



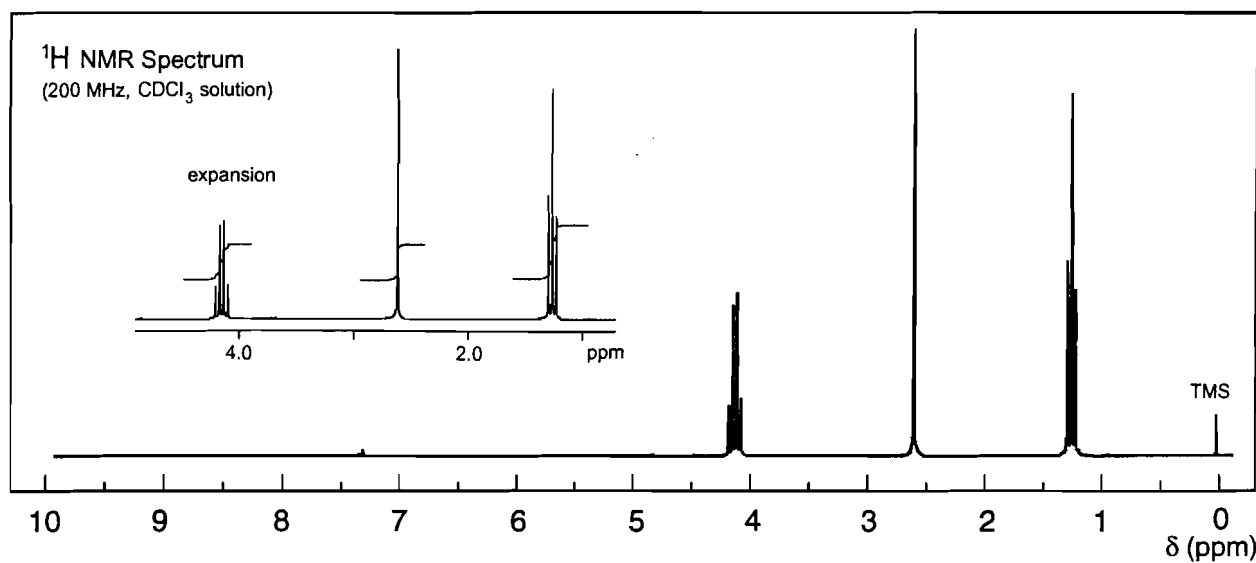
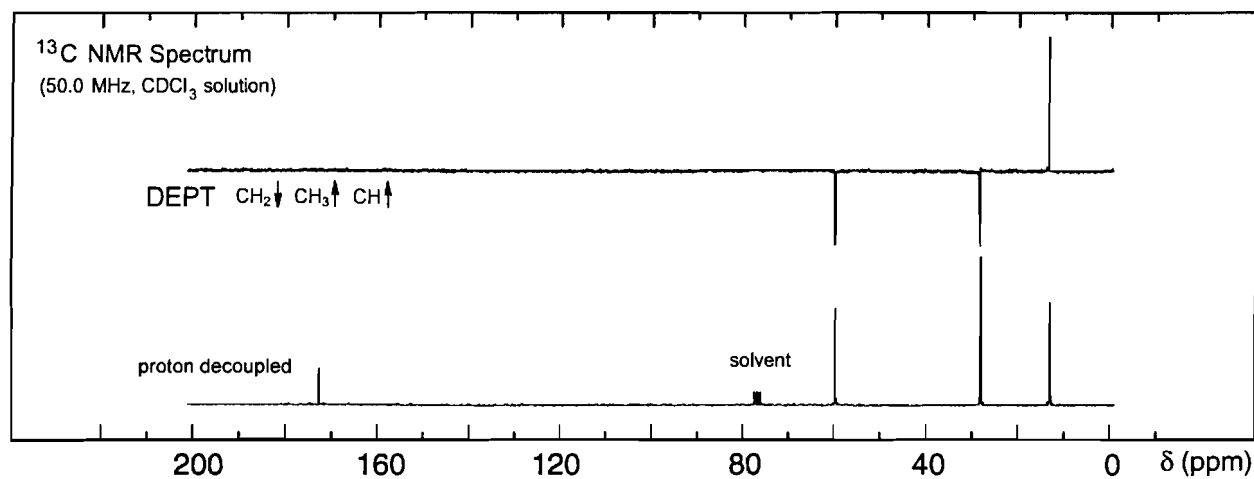
No significant UV
absorption above 220 nm



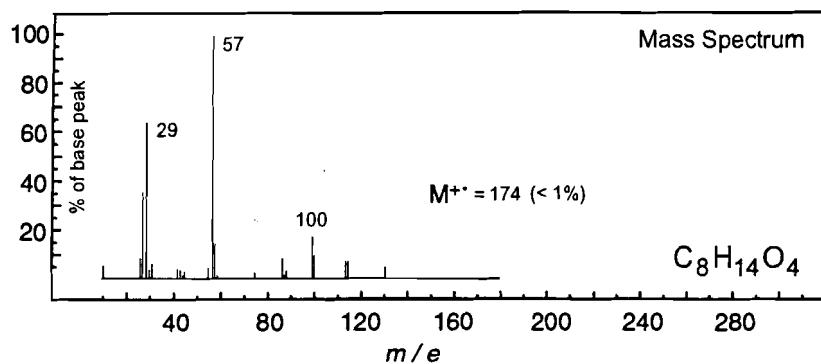
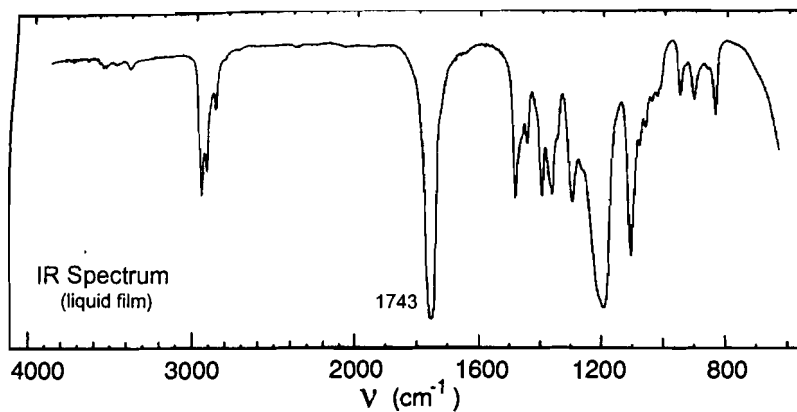
Problem 48



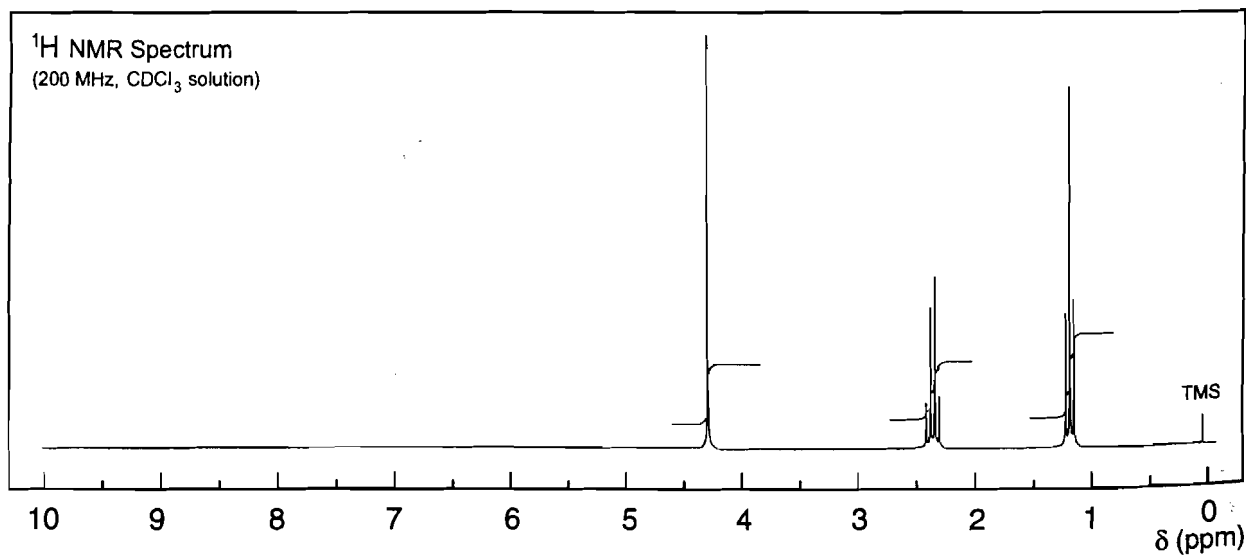
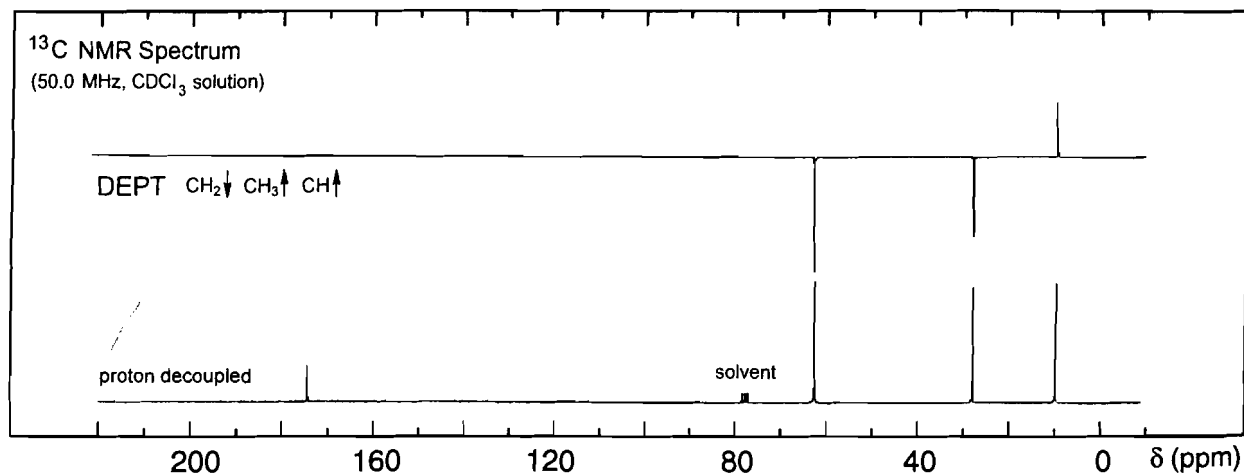
No significant UV
absorption above 220 nm



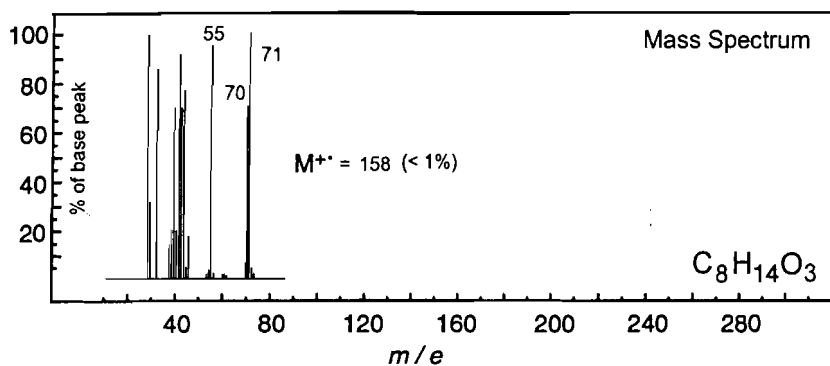
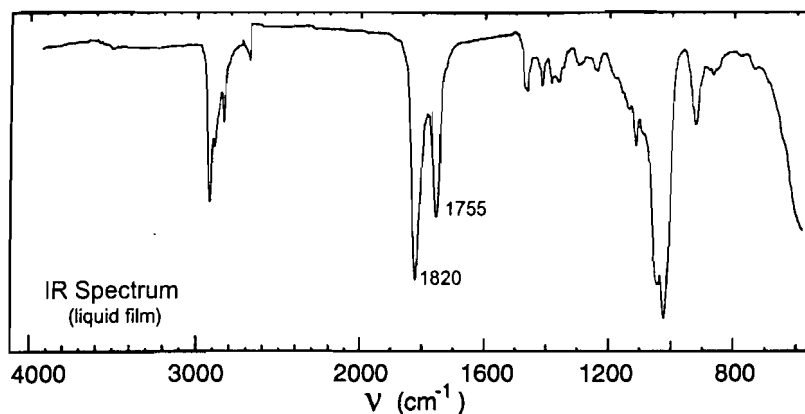
Problem 49



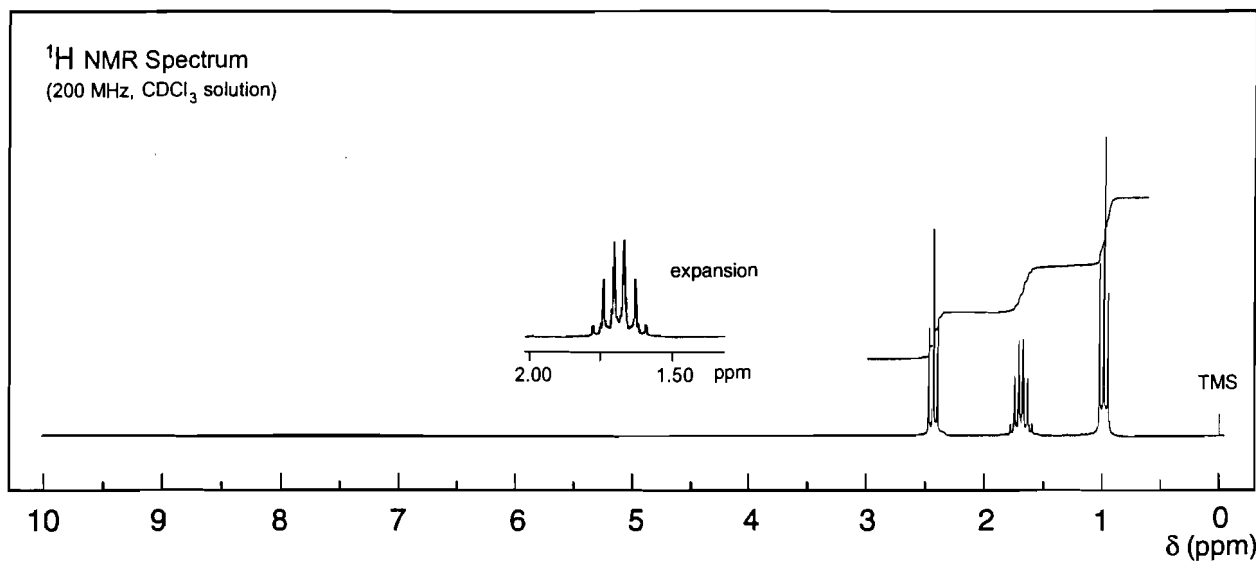
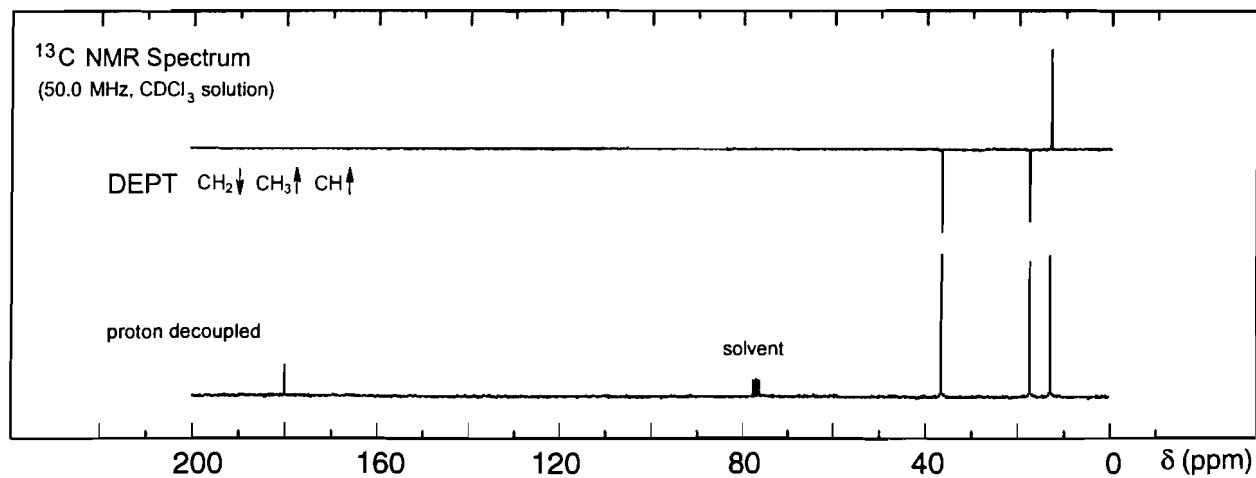
No significant UV
absorption above 220 nm



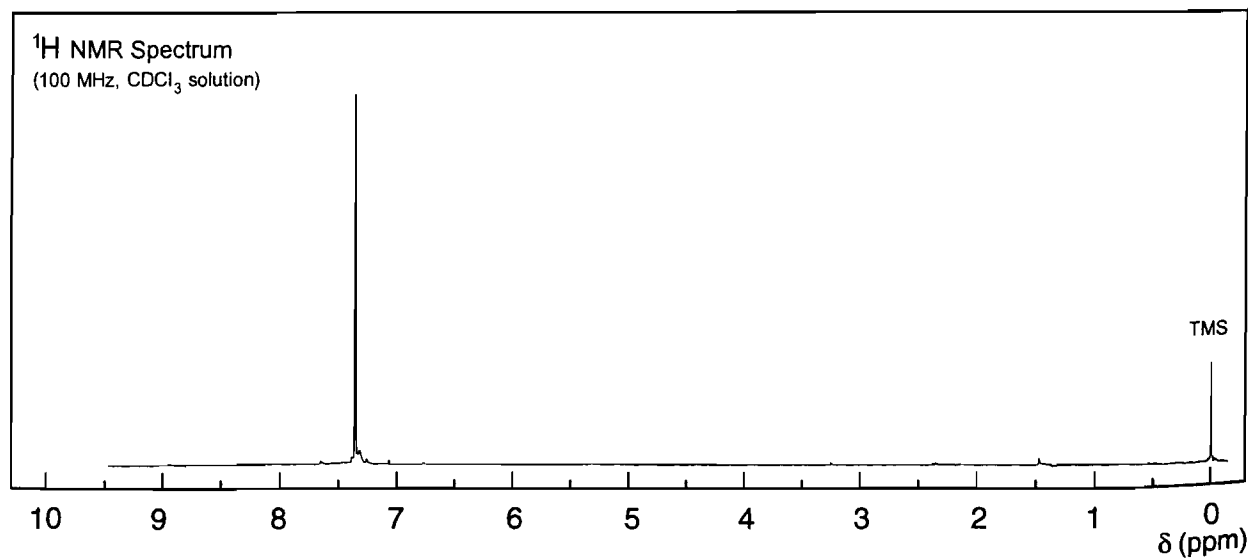
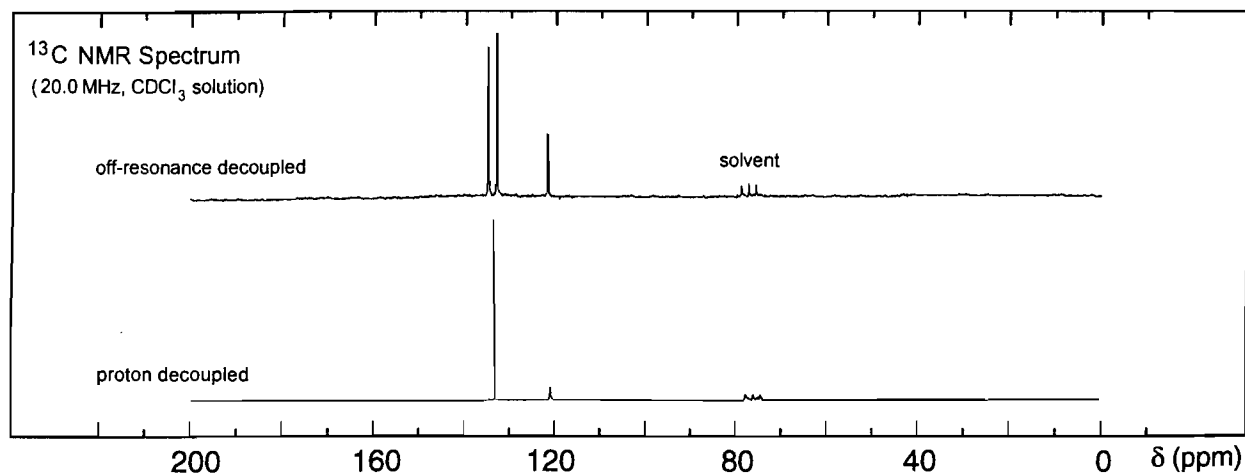
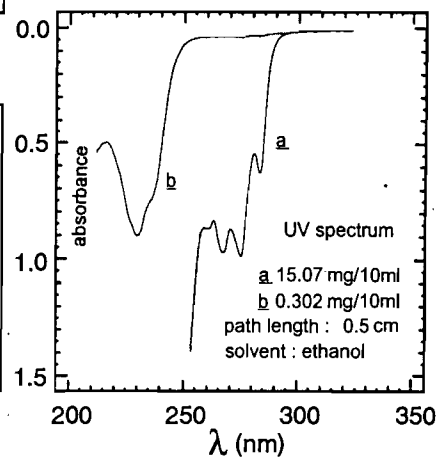
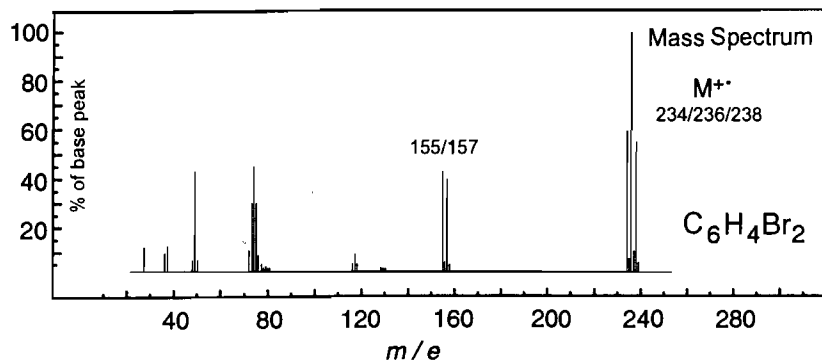
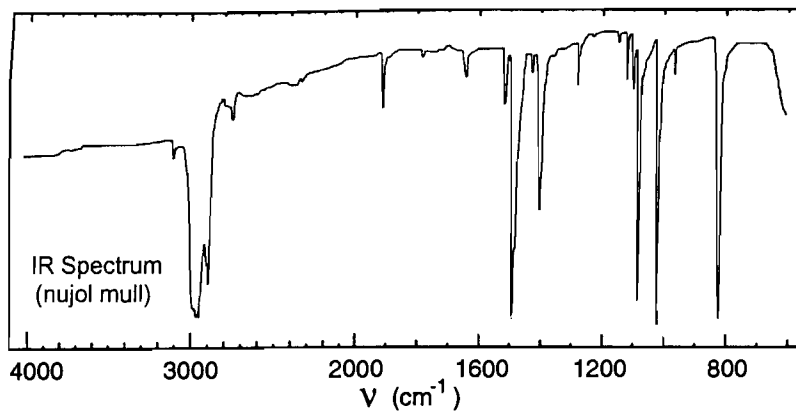
Problem 50



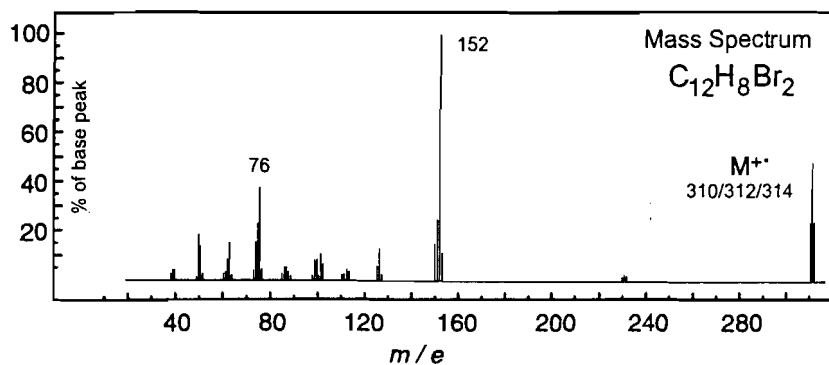
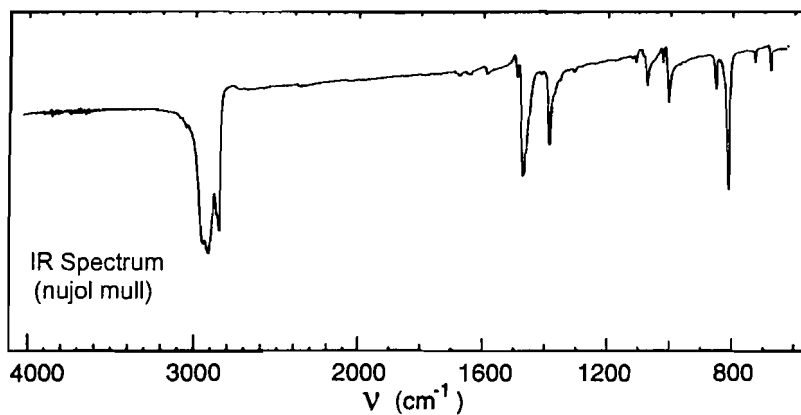
No significant UV
absorption above 220 nm



Problem 51



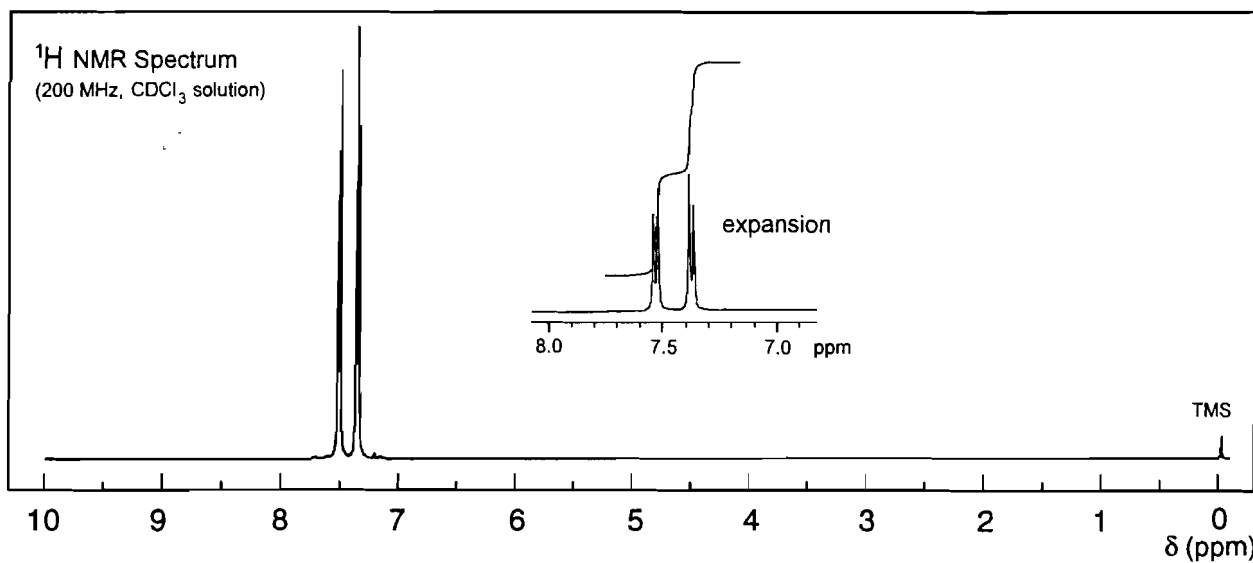
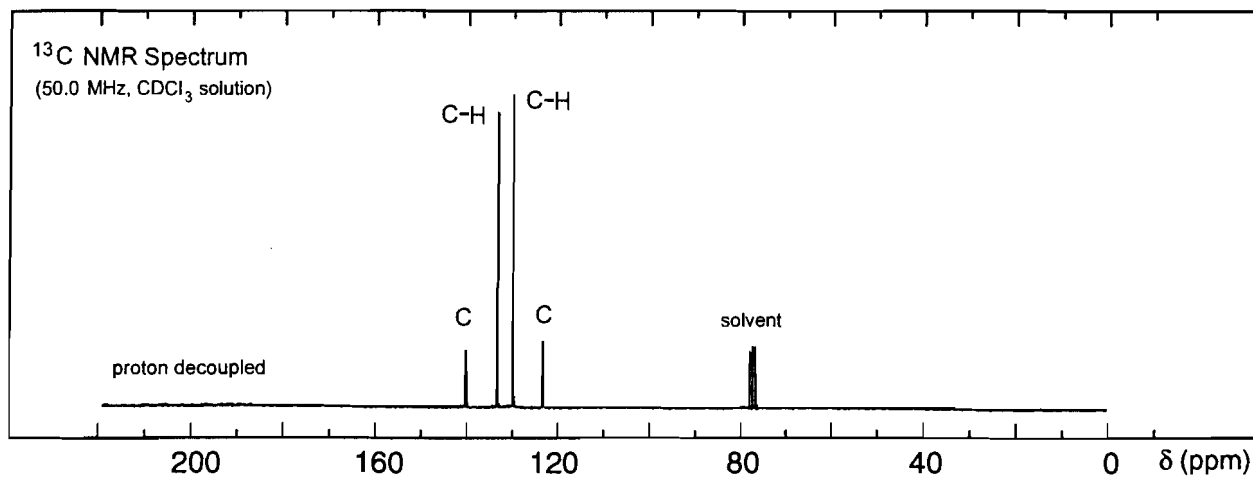
Problem 52



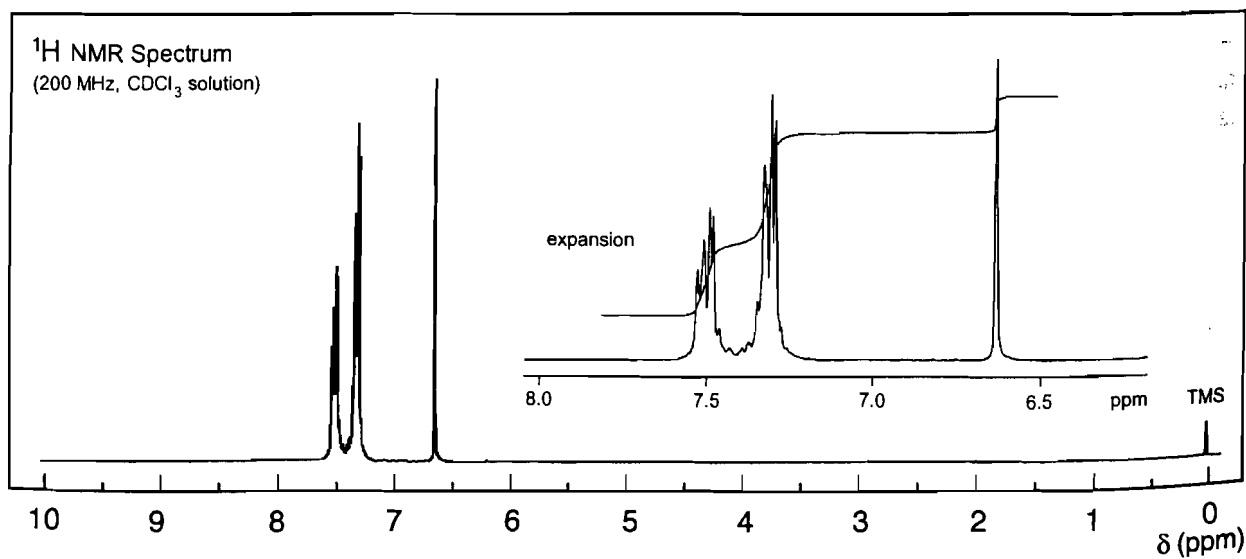
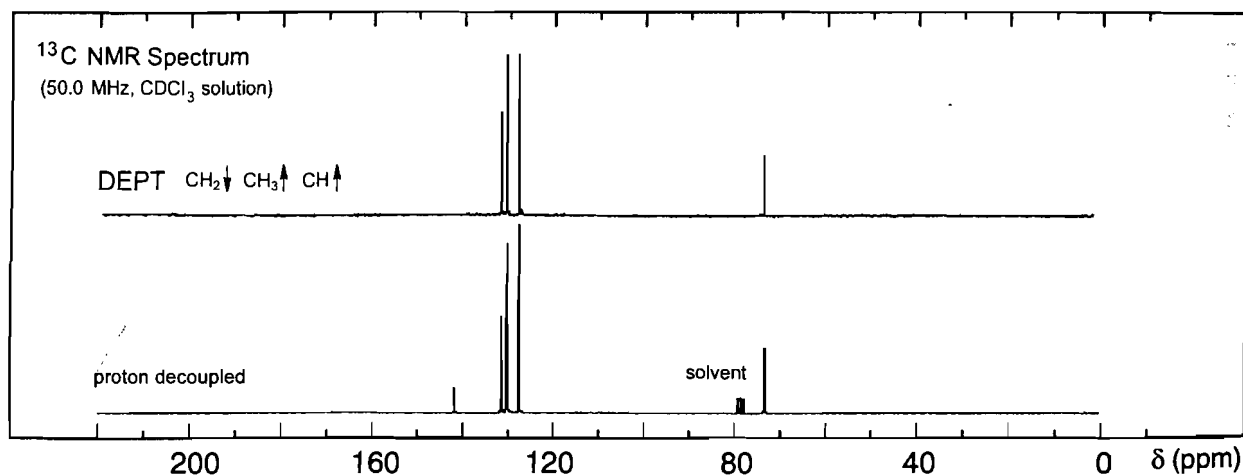
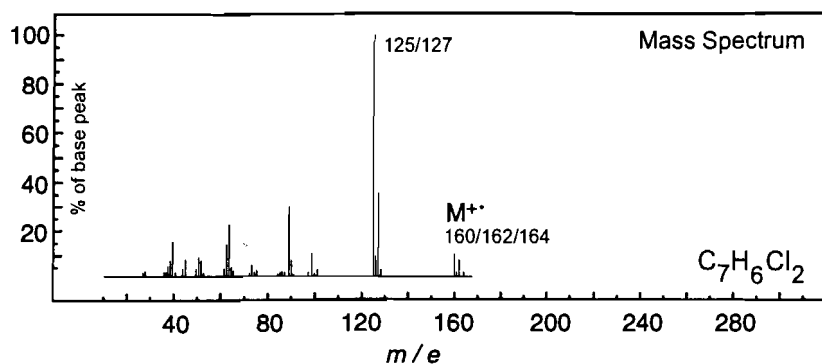
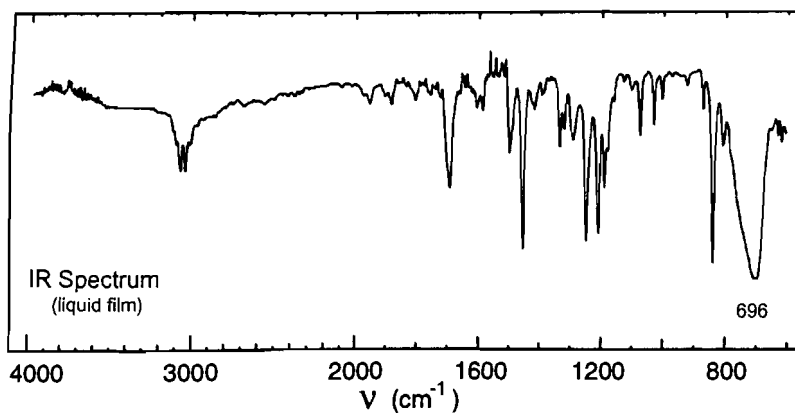
UV Spectrum

λ_{max} 264 nm ($\log_{10} \epsilon$ 4.5)

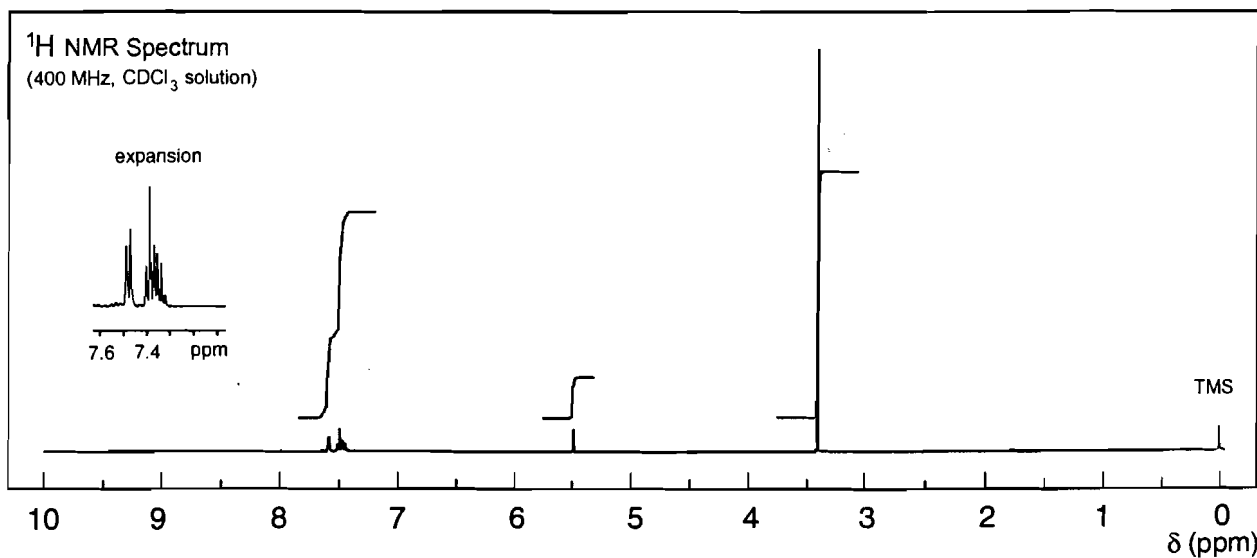
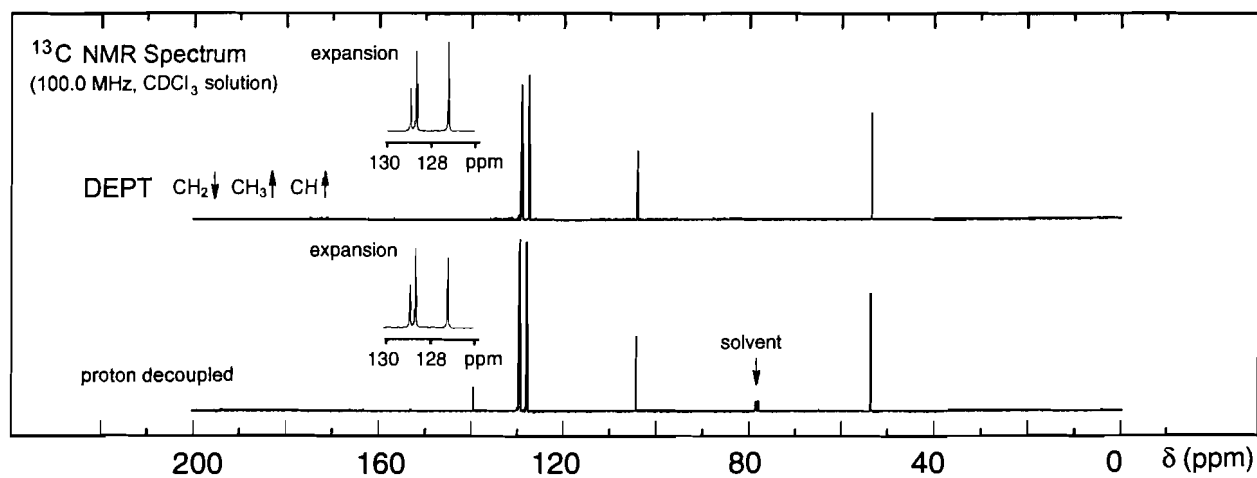
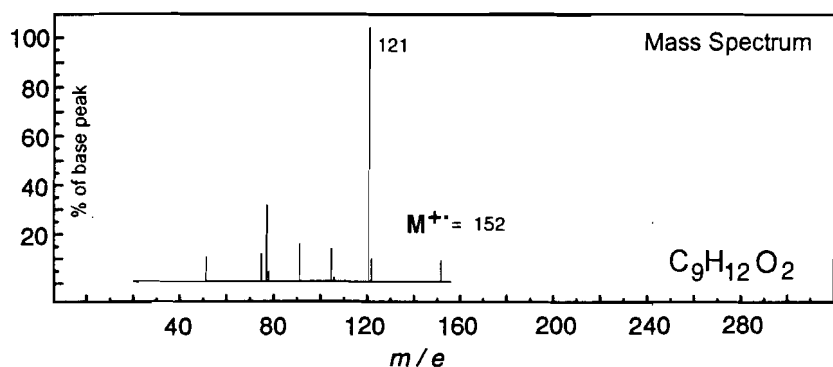
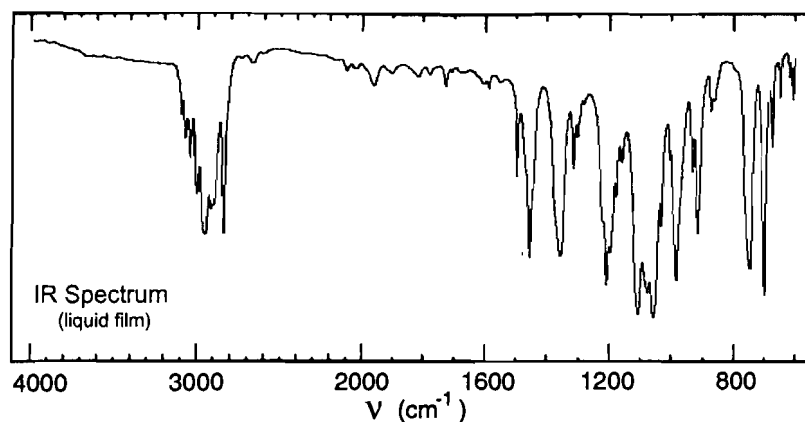
solvent : methanol



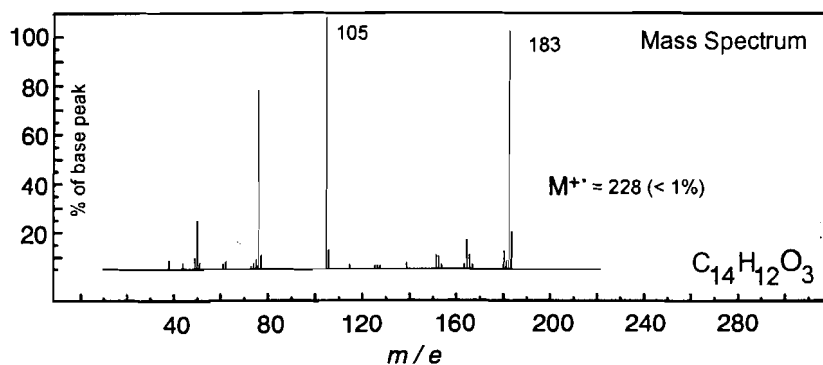
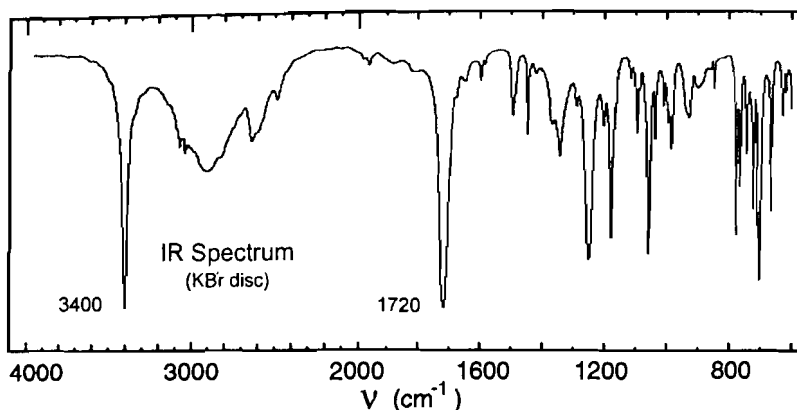
Problem 53



Problem 54



Problem 55



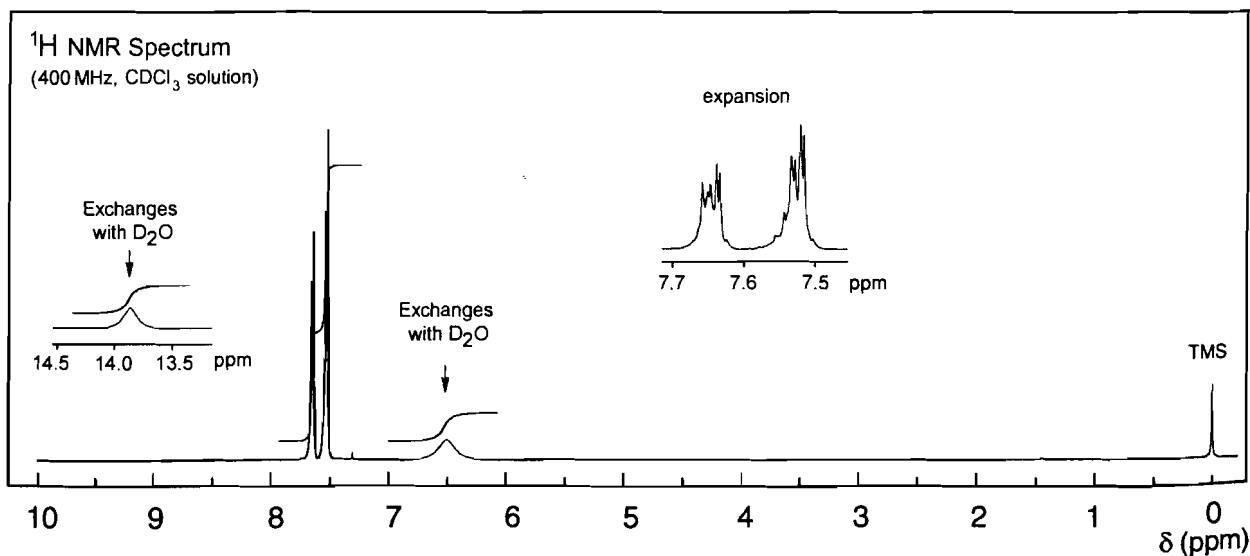
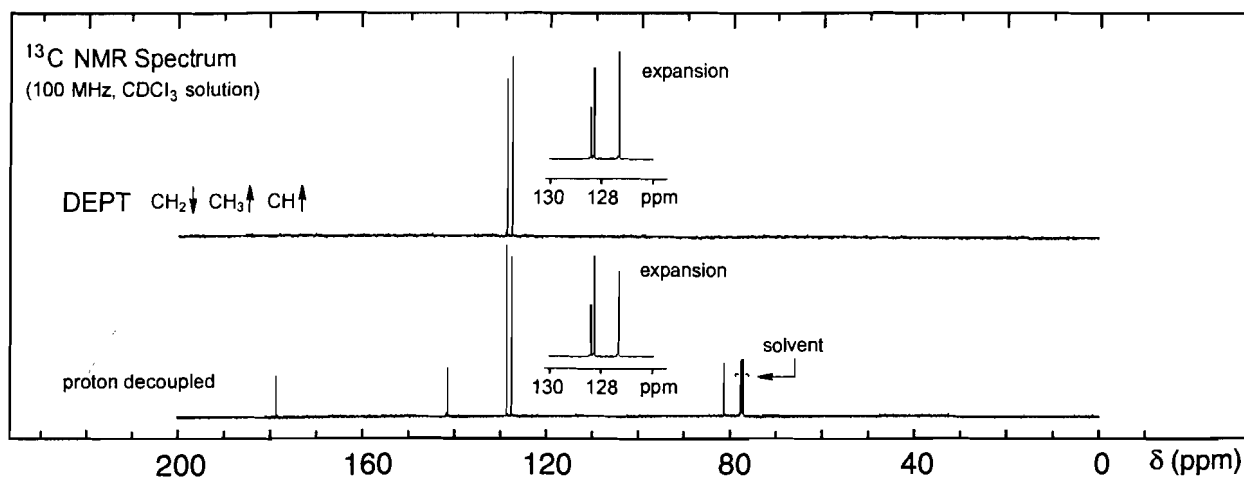
UV Spectrum

λ_{max} 253 nm ($\log_{10} \epsilon$ 2.6)

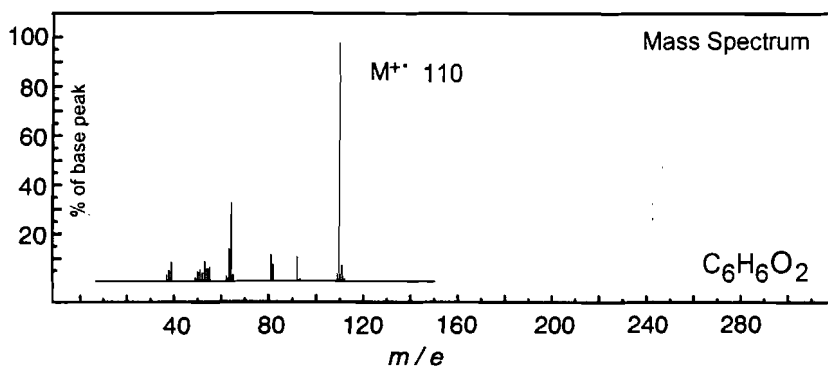
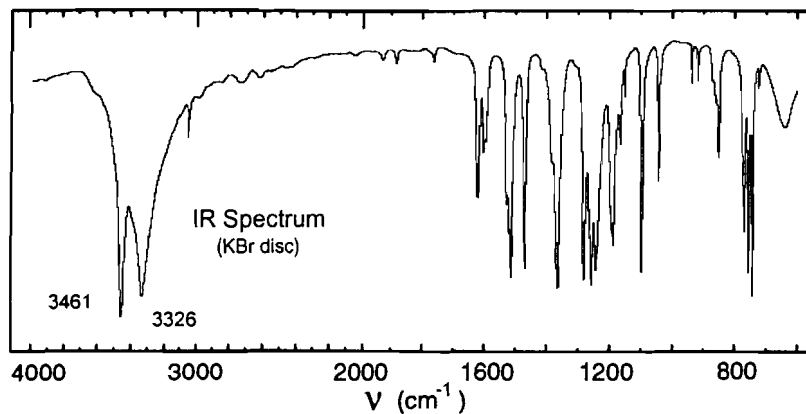
λ_{max} 259 nm ($\log_{10} \epsilon$ 2.7)

λ_{max} 264 nm ($\log_{10} \epsilon$ 2.5)

solvent : ethanol



Problem 56



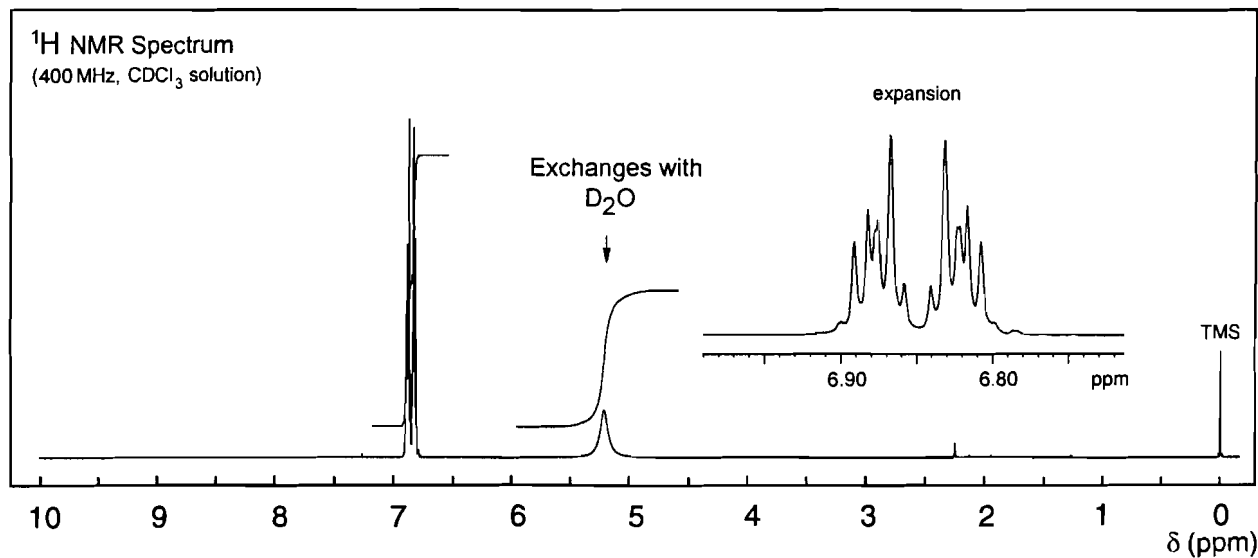
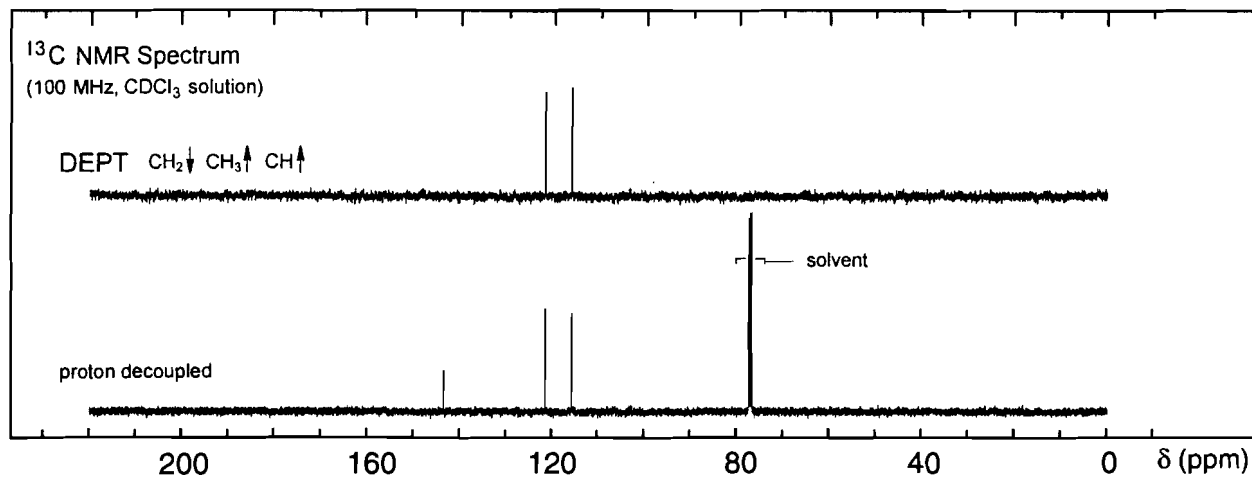
UV Spectrum

$\lambda_{\max} 225 \text{ nm } (\log_{10} \epsilon 3.5)$

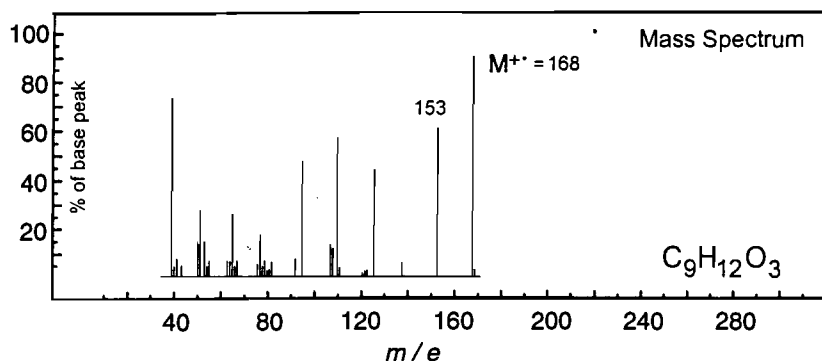
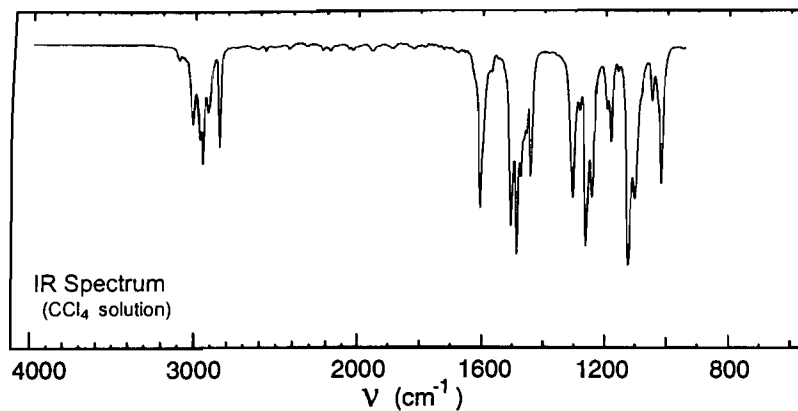
$\lambda_{\max} 276 \text{ nm } (\log_{10} \epsilon 3.4)$

$\lambda_{\max} 283 \text{ nm } (\log_{10} \epsilon 3.3)$

solvent : methanol



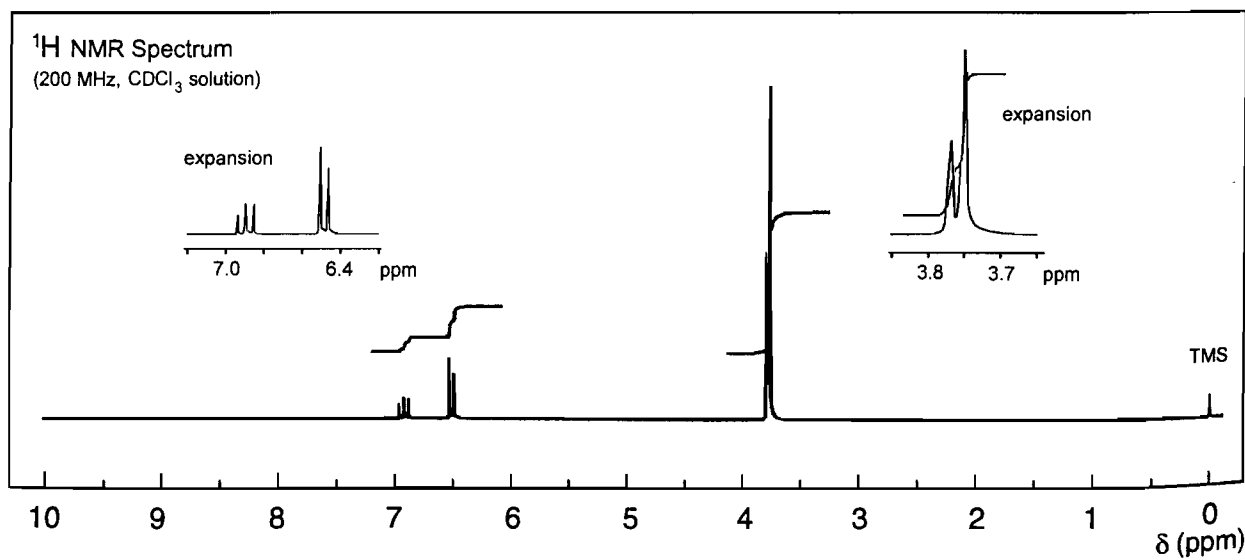
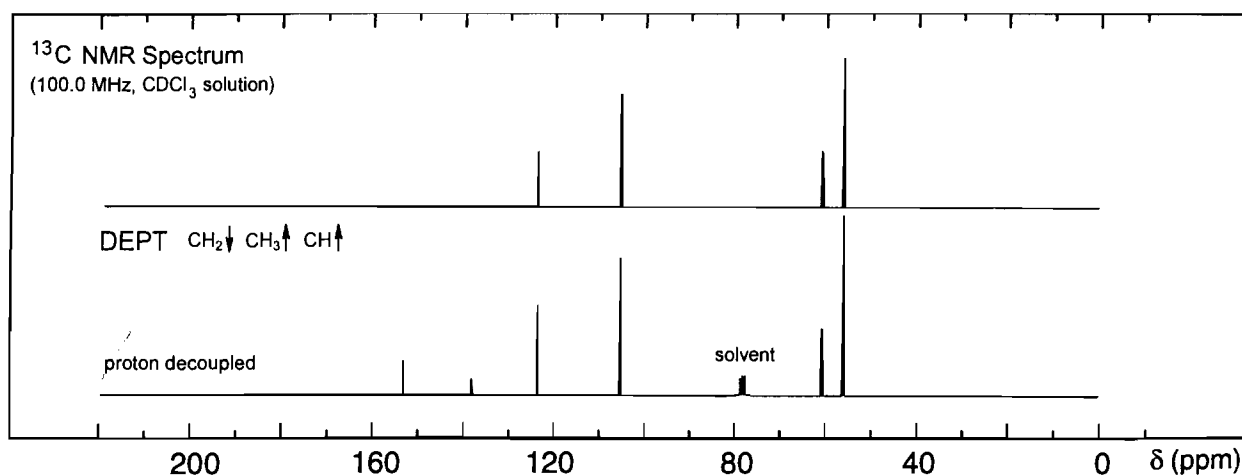
Problem 57



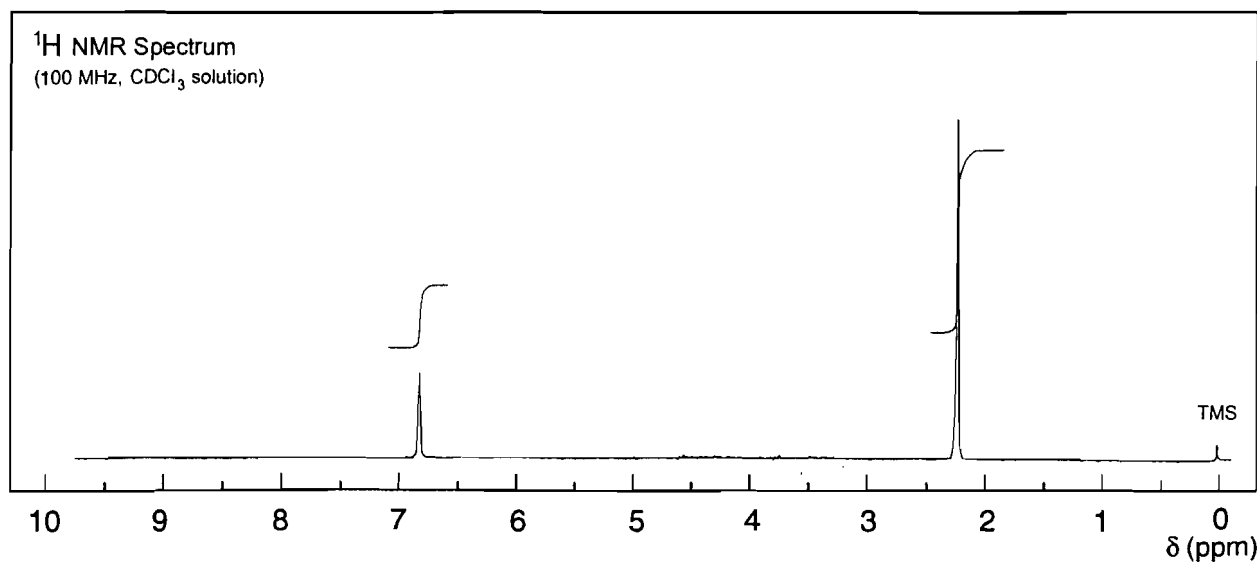
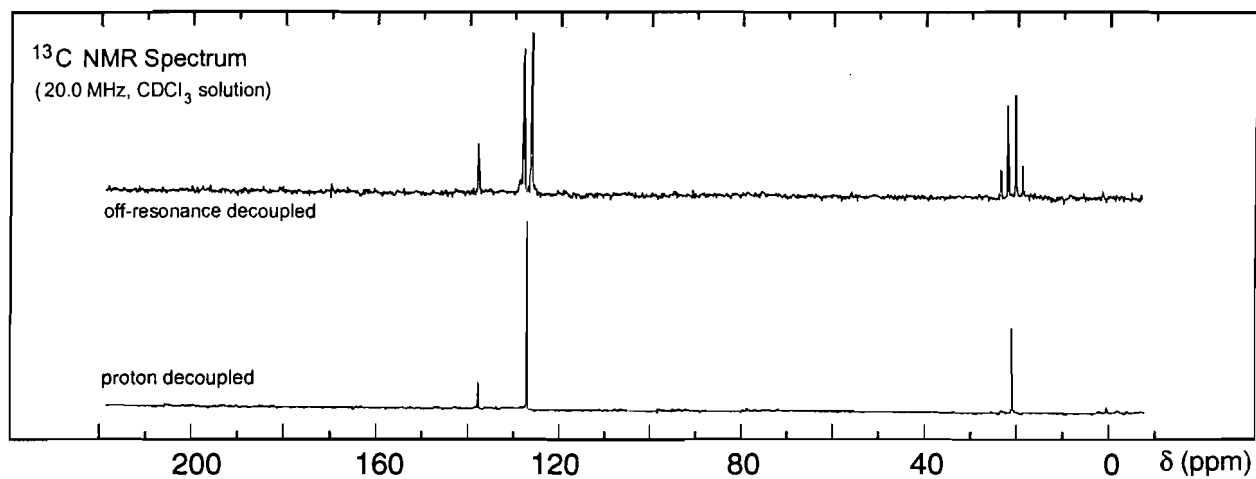
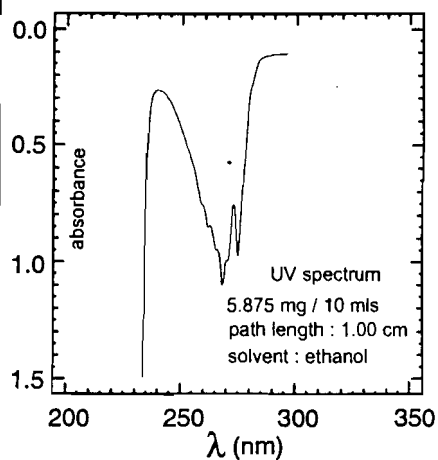
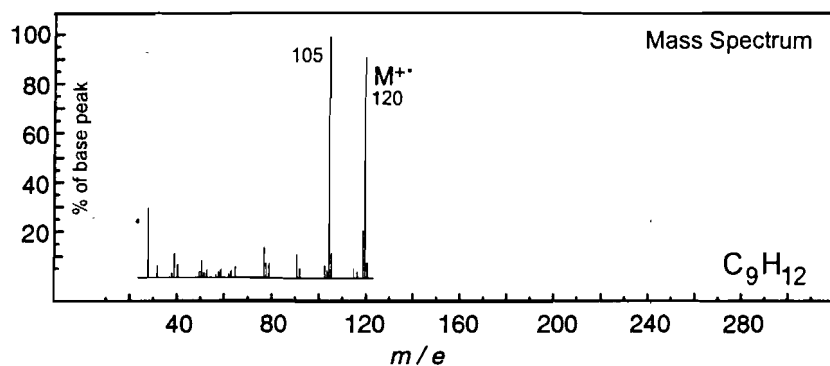
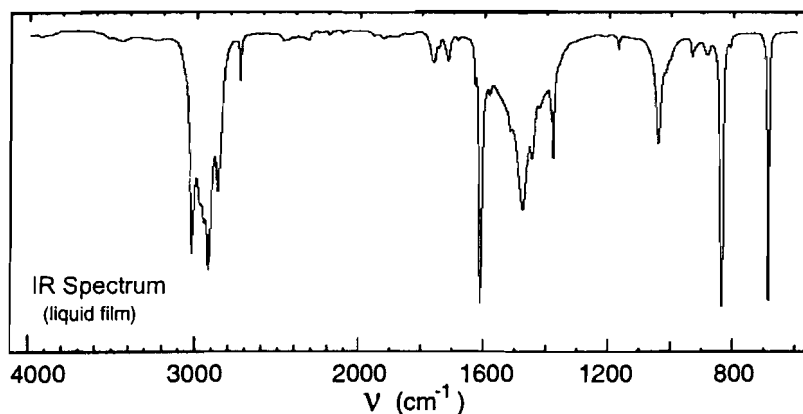
UV Spectrum

$\lambda_{\max}$ 267 nm ($\log_{10} \epsilon$ 2.8)

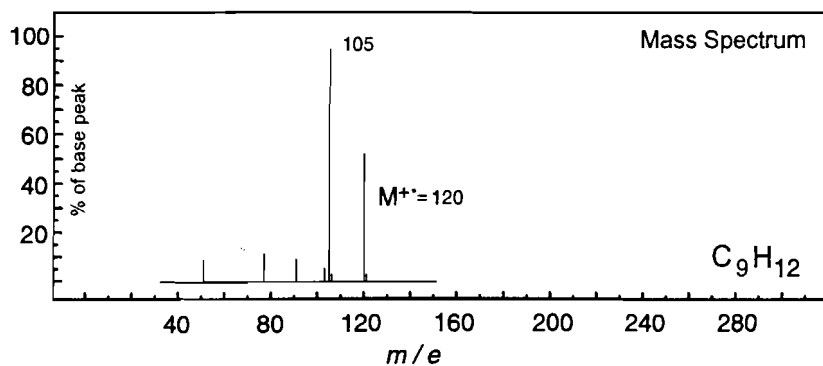
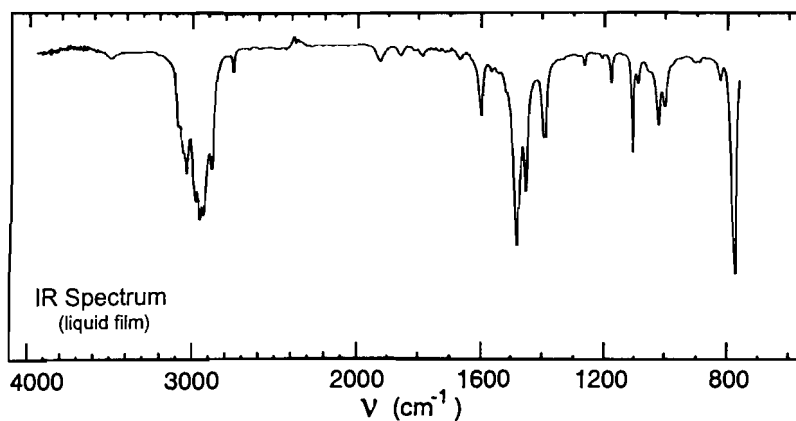
solvent : ethanol



Problem 58



Problem 59

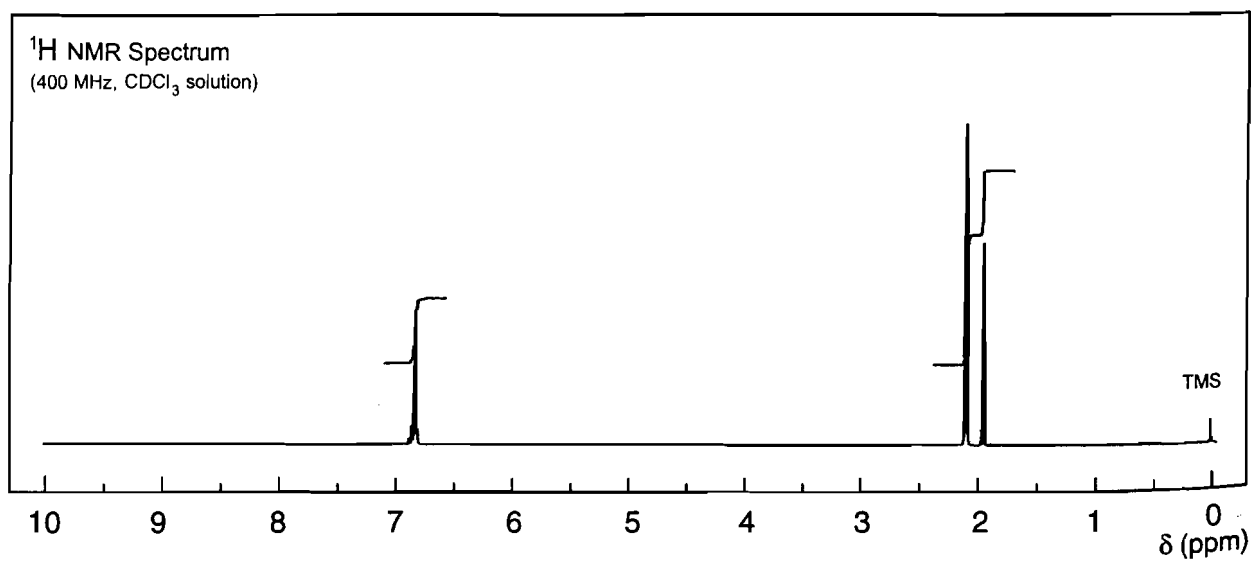
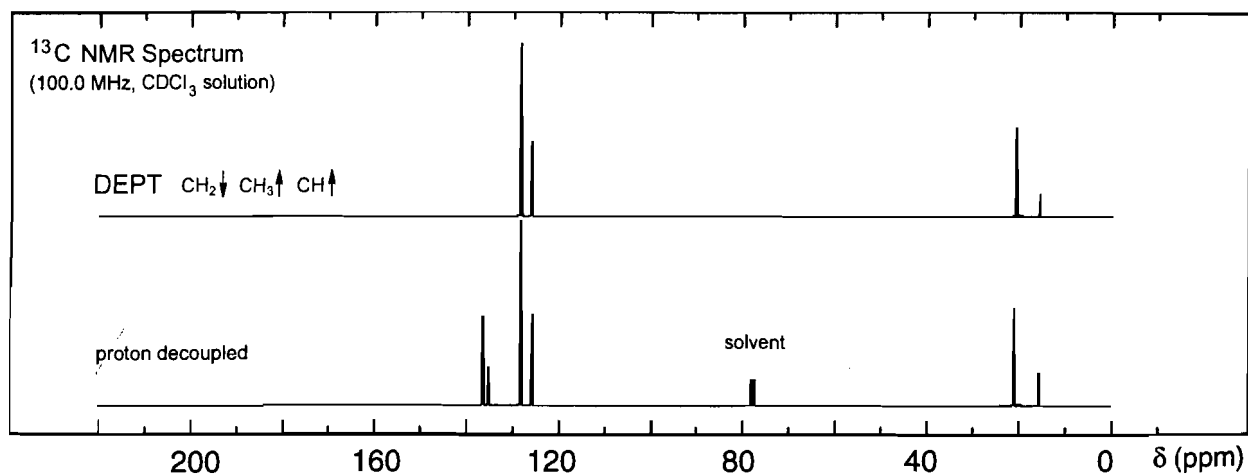


UV Spectrum

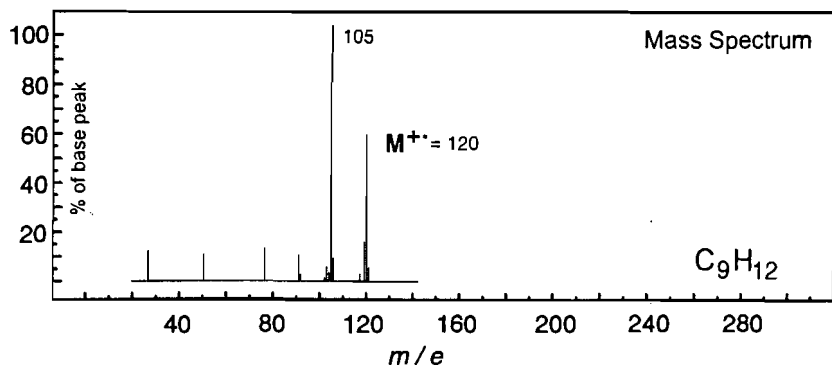
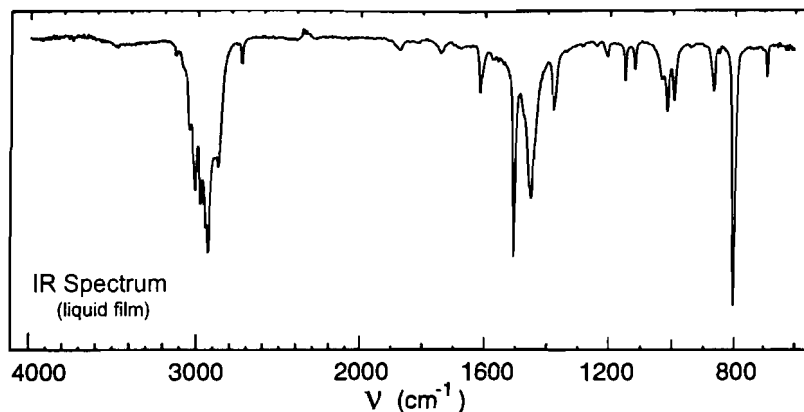
λ_{max} 261 nm ($\log_{10} \epsilon$ 2.7)

λ_{max} 269 nm ($\log_{10} \epsilon$ 2.5)

solvent : methanol



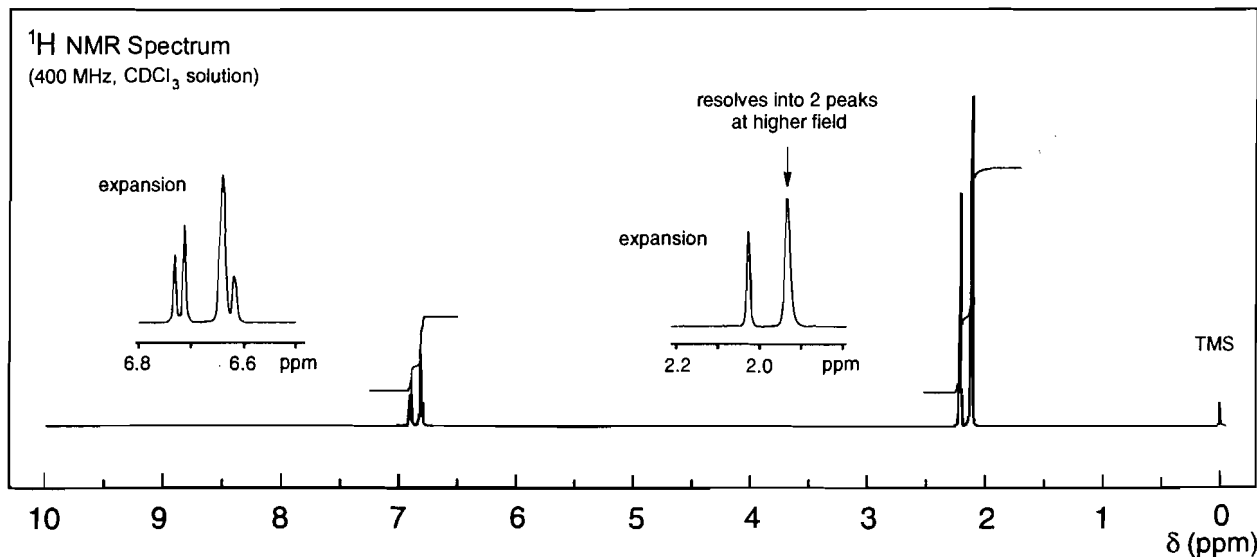
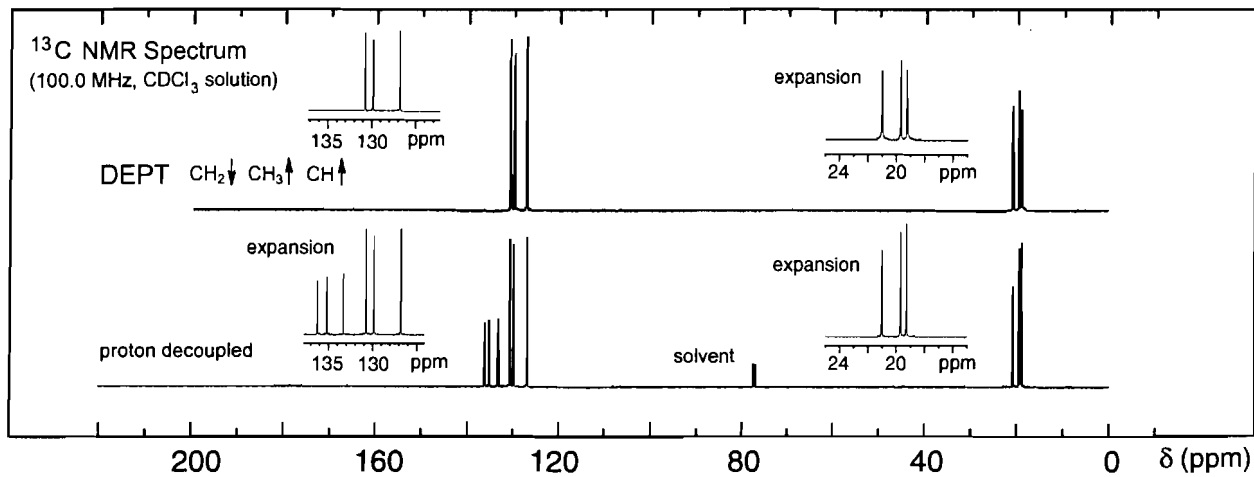
Problem 60



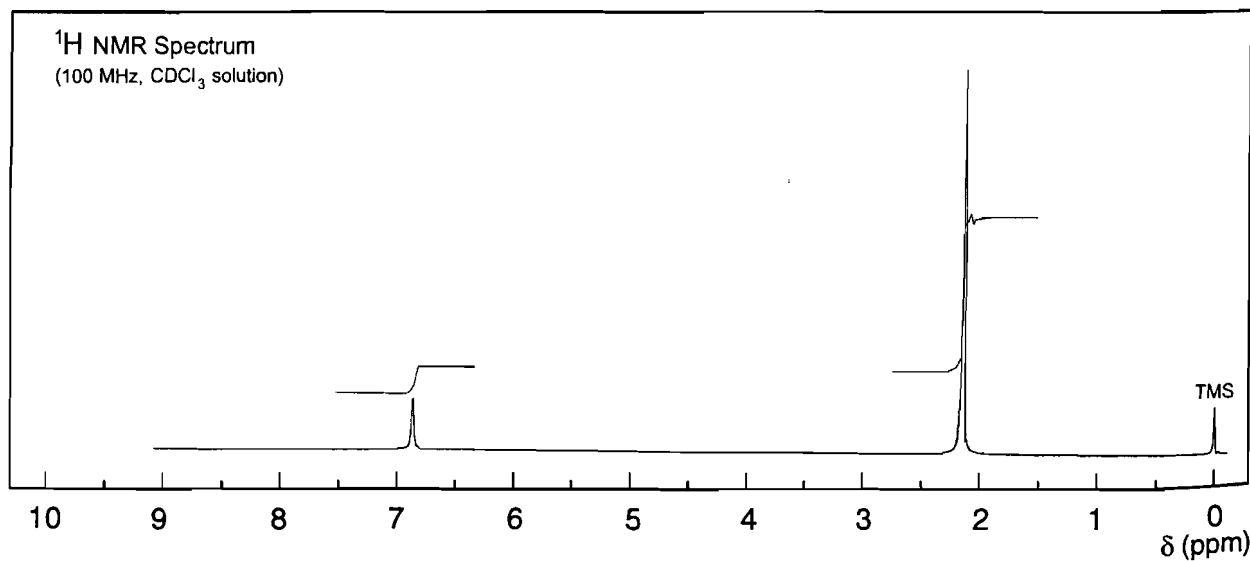
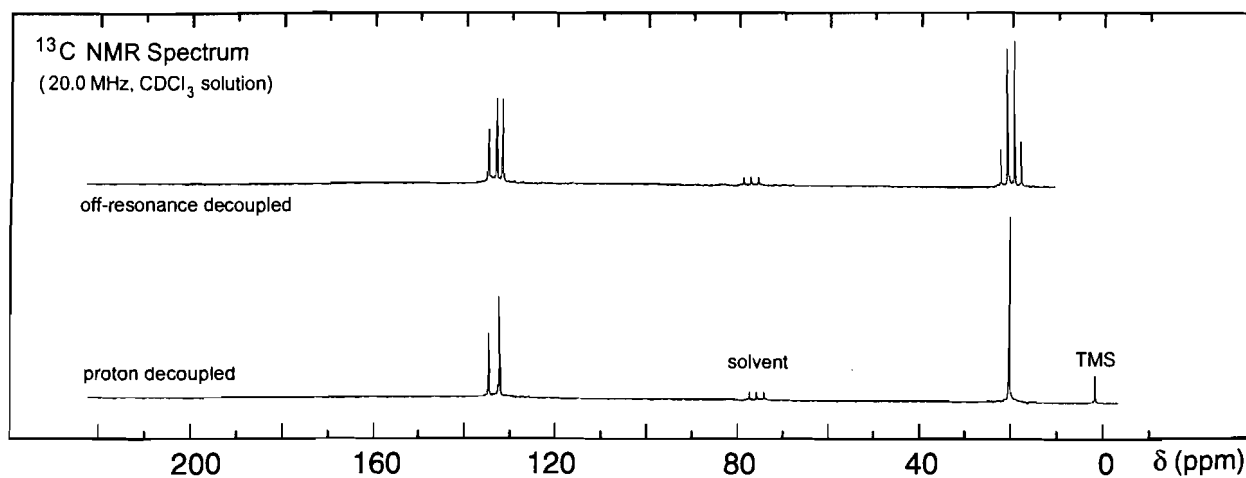
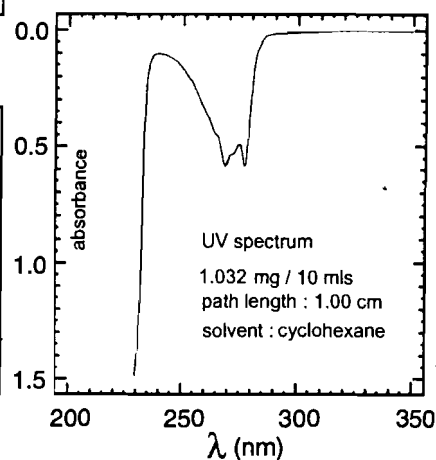
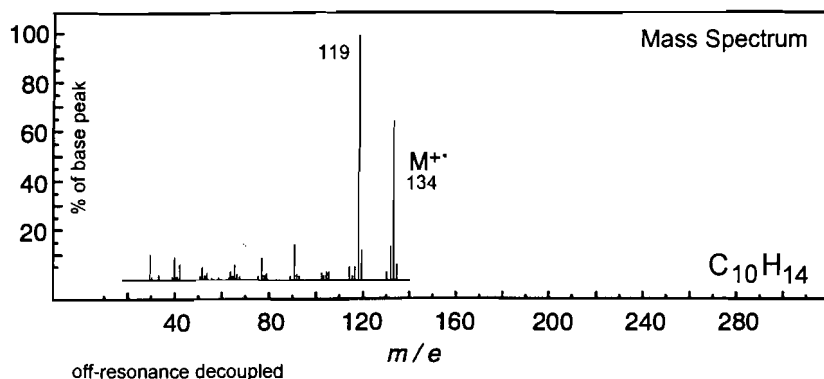
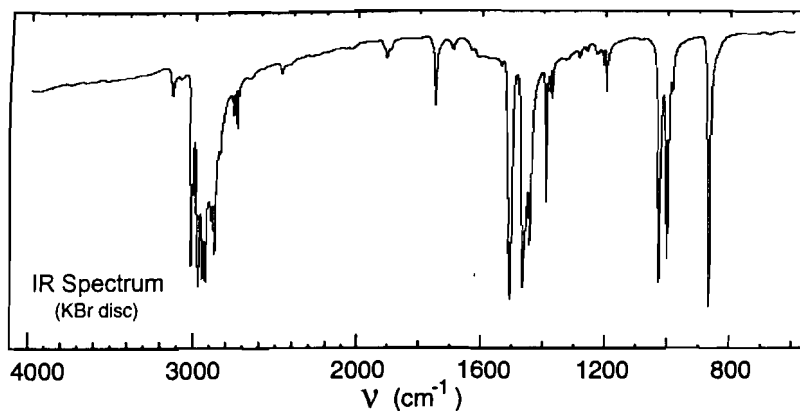
UV Spectrum

$$\lambda_{\max} 270 \text{ nm } (\log_{10} \epsilon 2.6)$$

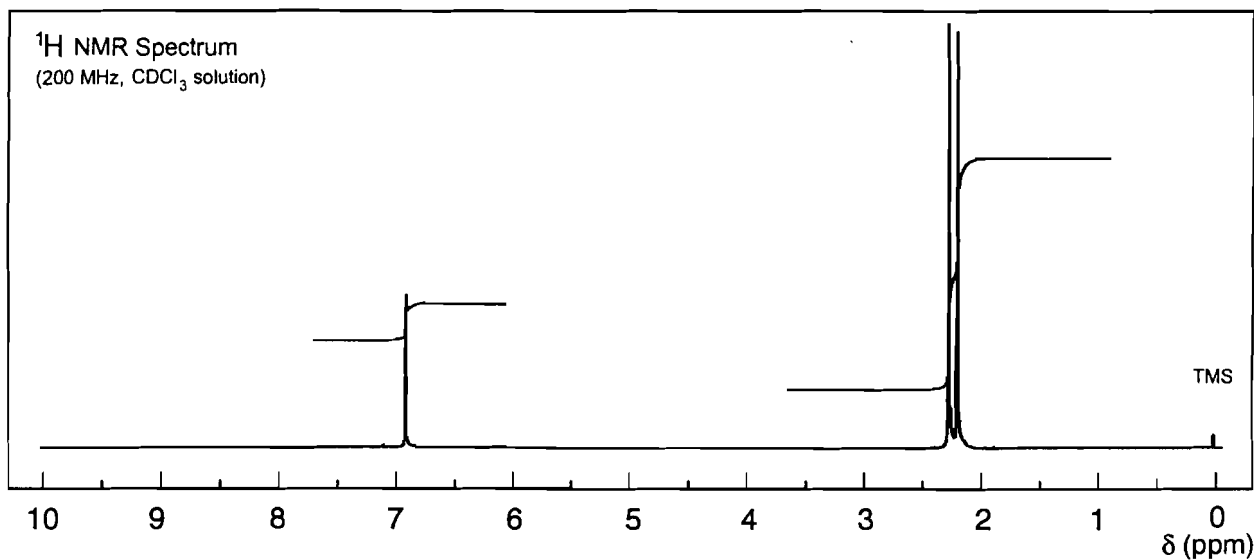
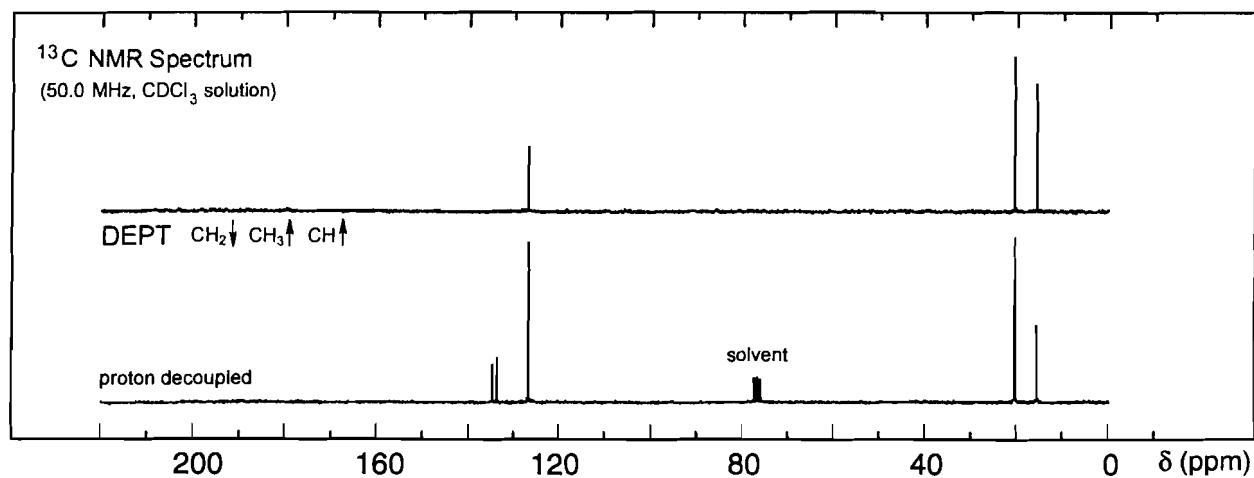
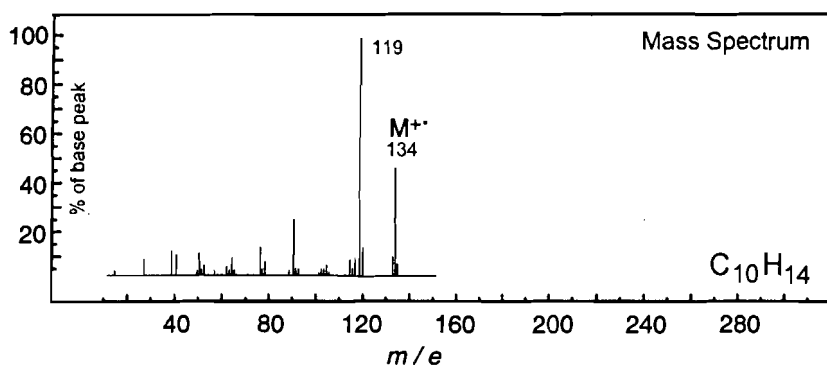
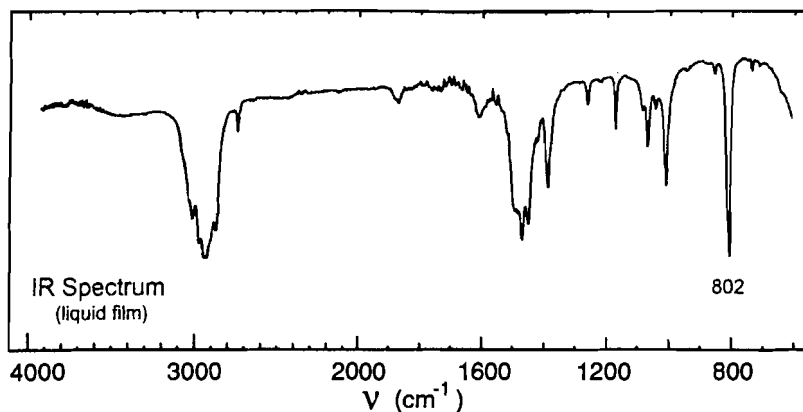
solvent : methanol



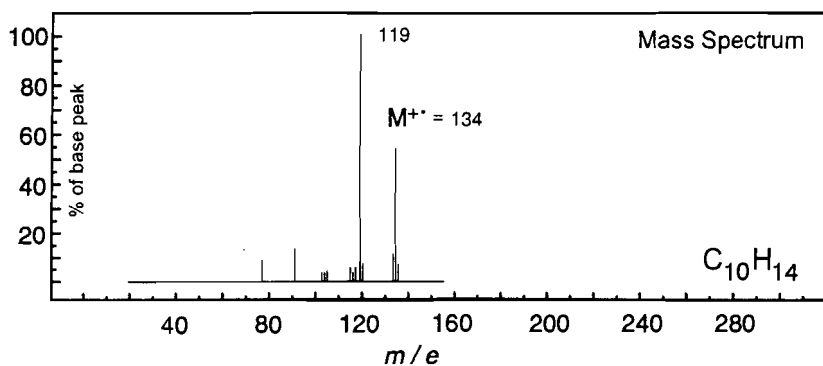
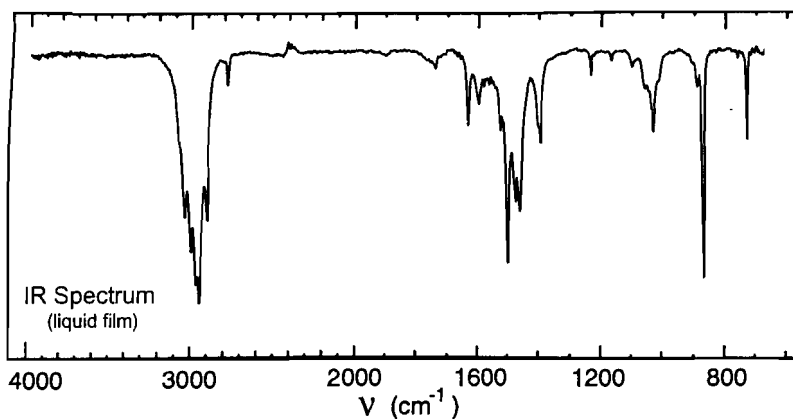
Problem 61



Problem 62



Problem 63

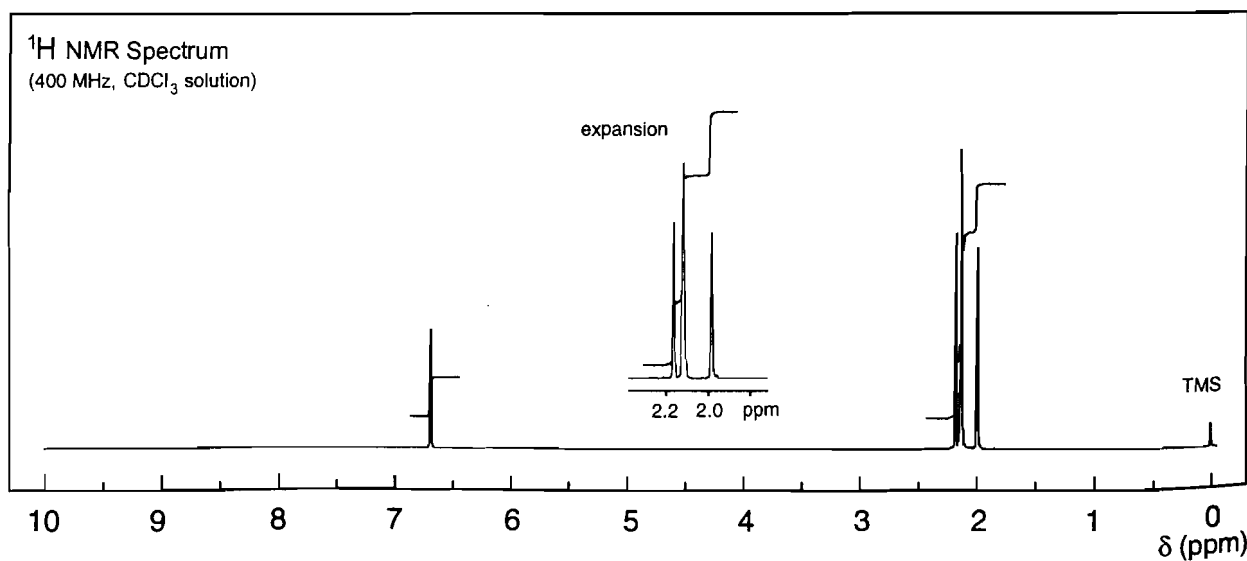
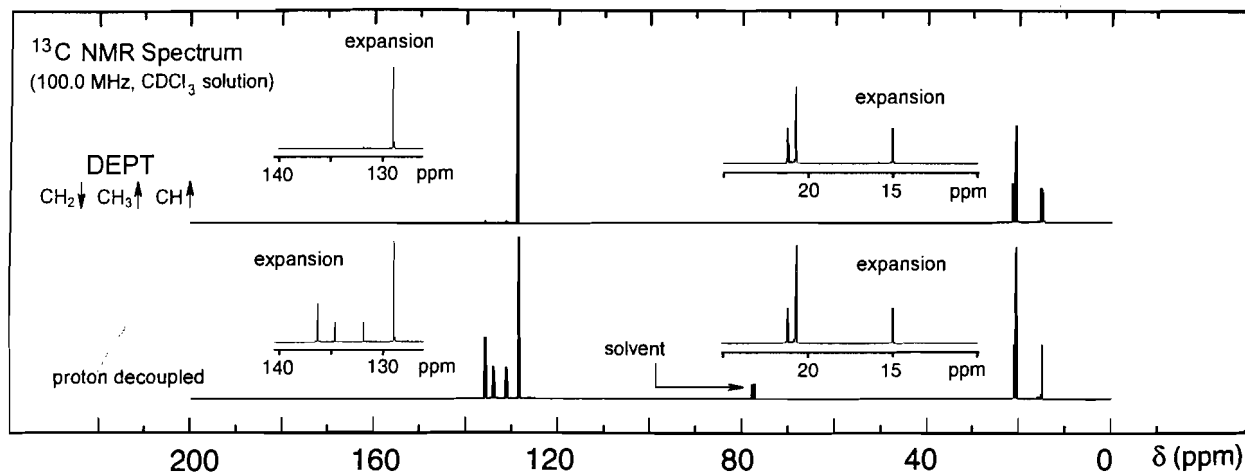


UV Spectrum

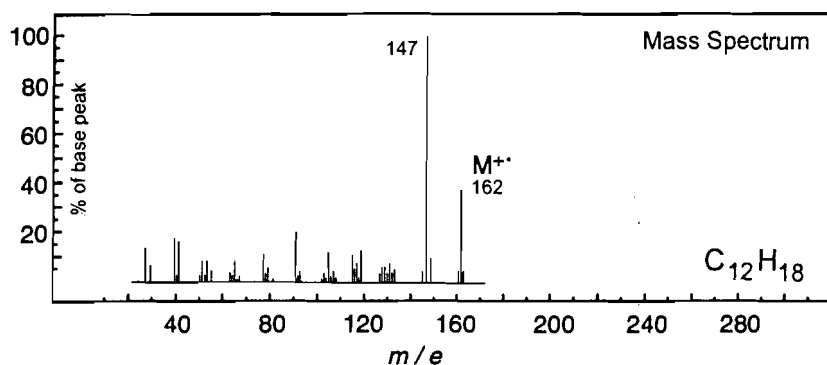
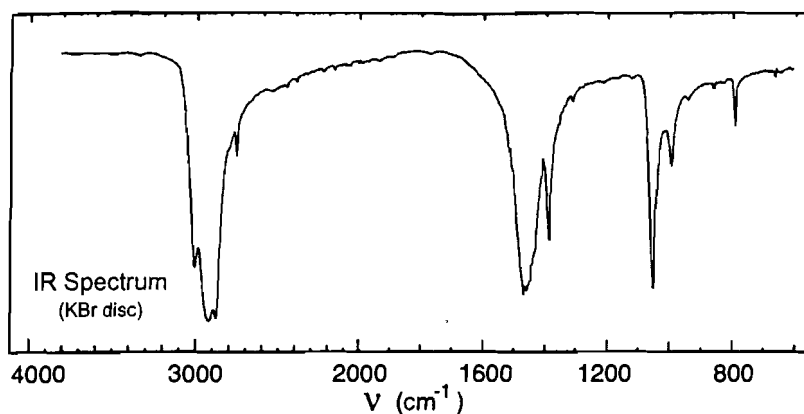
$\lambda_{\max} 274 \text{ nm (log}_{10}\epsilon 2.3)$

$\lambda_{\max} 277 \text{ nm (log}_{10}\epsilon 2.3)$

solvent : cyclohexane



Problem 64



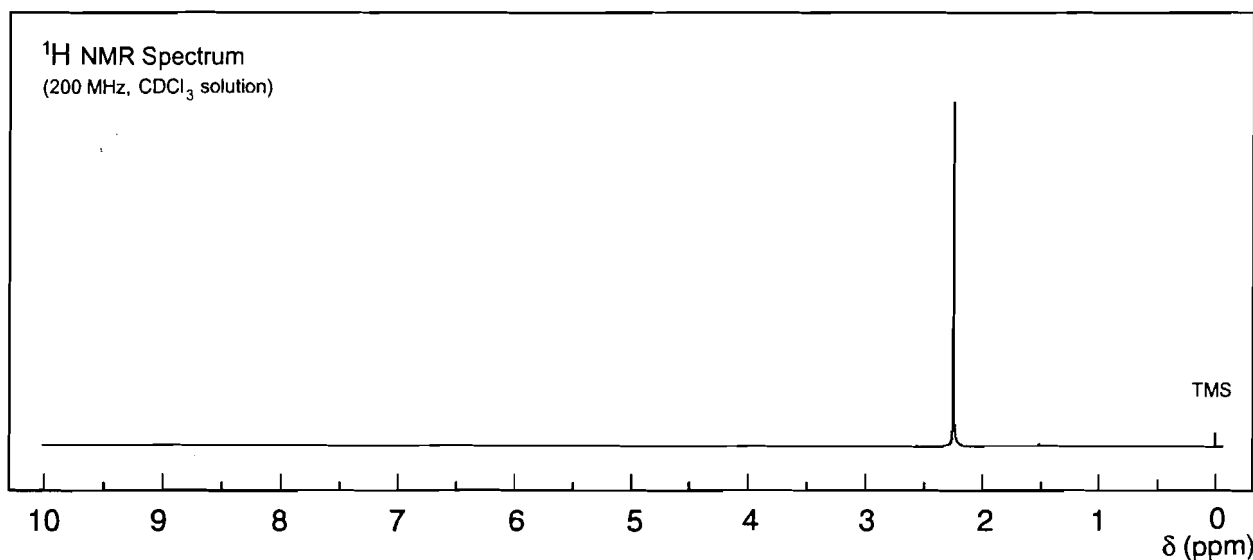
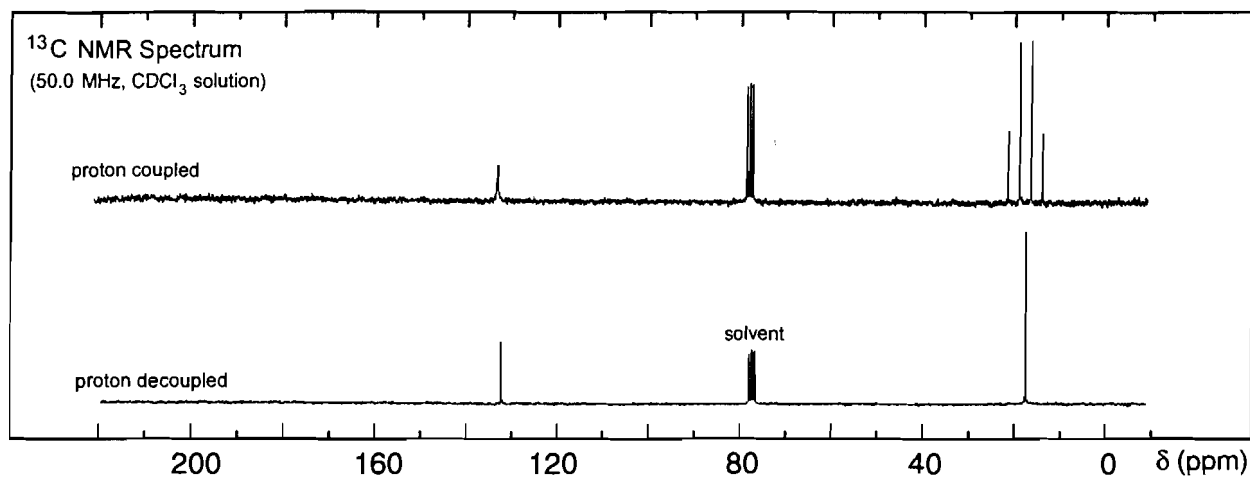
UV Spectrum

λ_{max} 278 nm ($\log_{10} \epsilon$ 2.4)

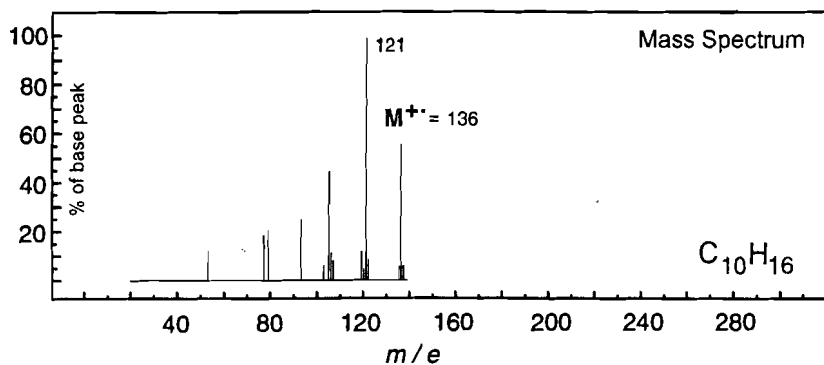
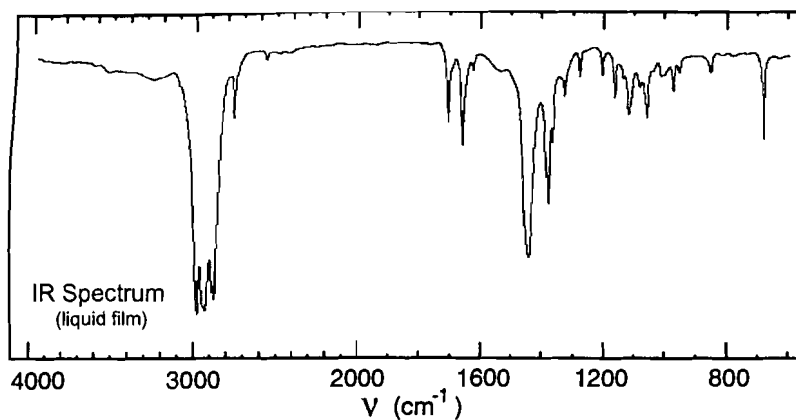
λ_{max} 274 nm ($\log_{10} \epsilon$ 2.4)

λ_{max} 270 nm ($\log_{10} \epsilon$ 2.5)

solvent : methanol



Problem 65



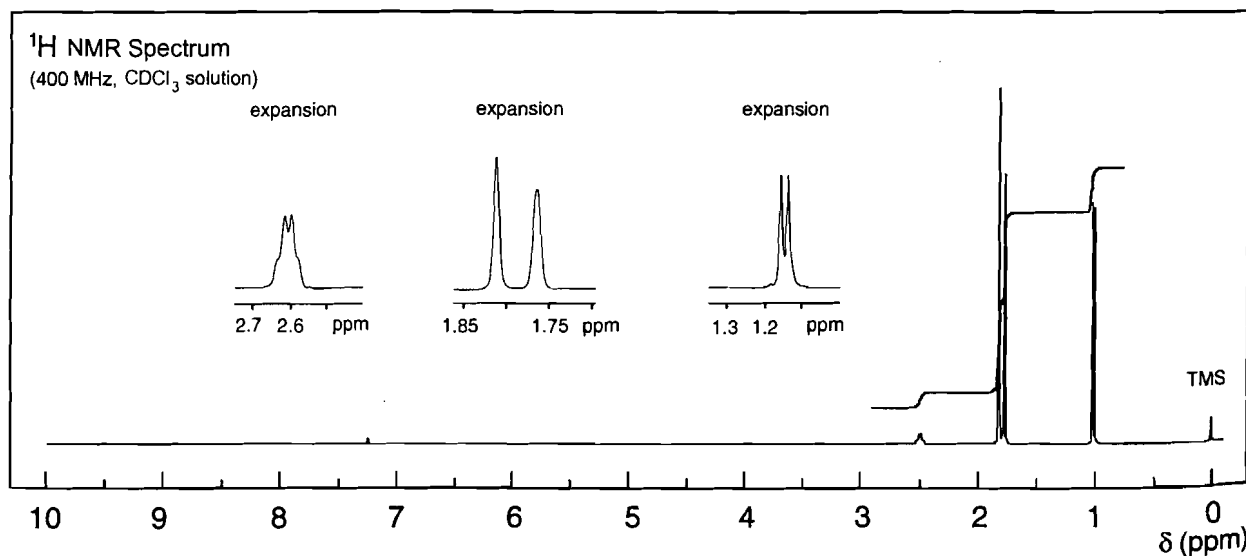
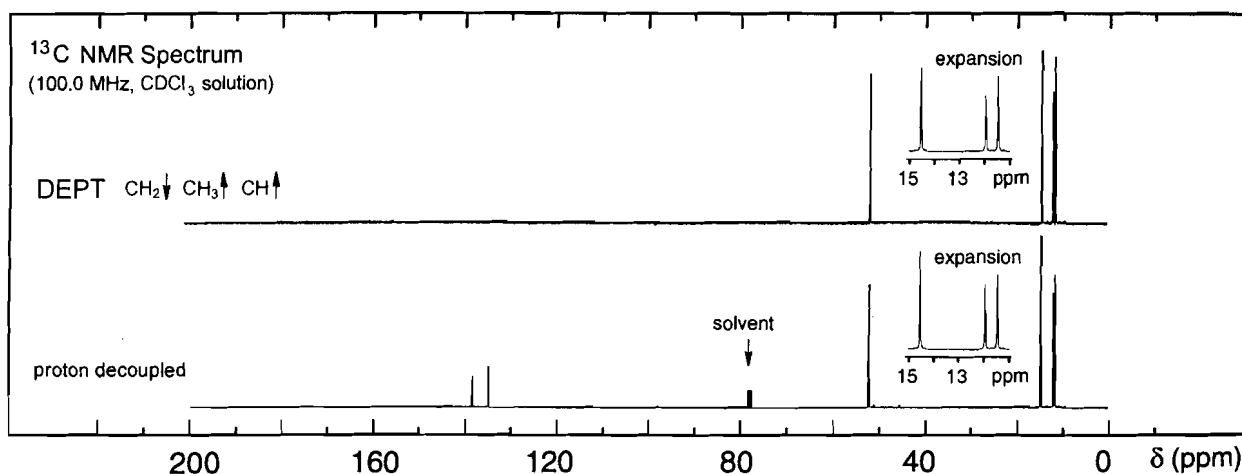
UV Spectrum

λ_{max} 232 nm ($\log_{10} \epsilon$ 3.4)

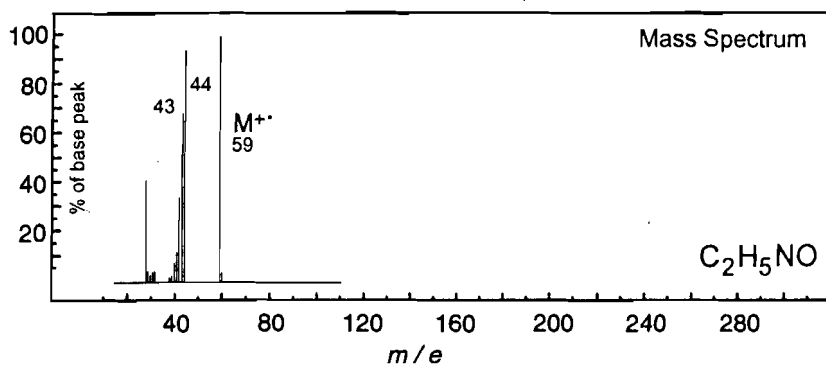
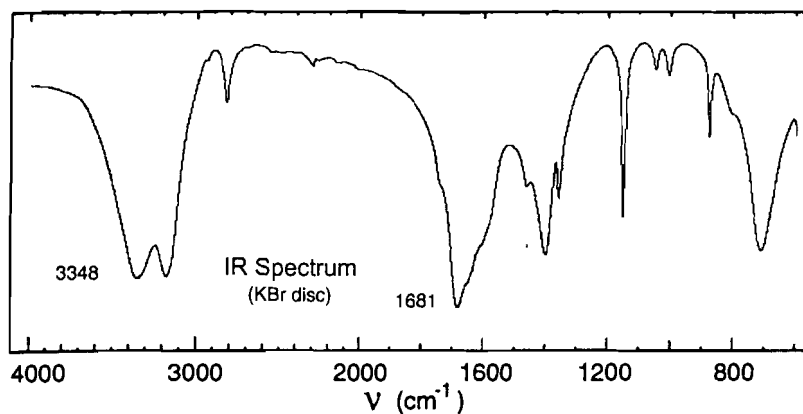
λ_{max} 248 nm ($\log_{10} \epsilon$ 3.5)

λ_{max} 265 nm ($\log_{10} \epsilon$ 3.4)

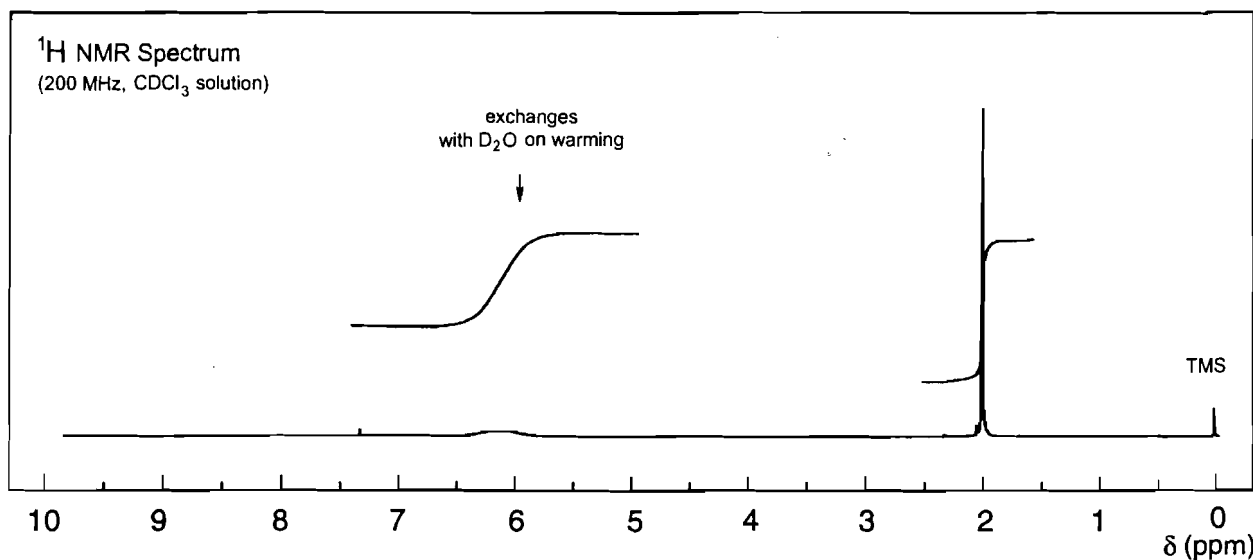
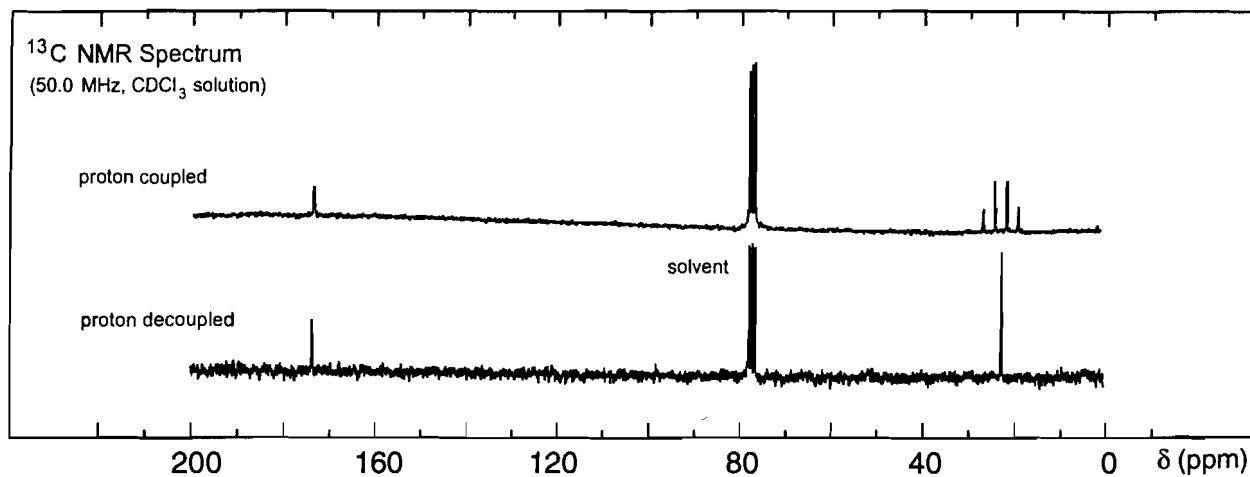
solvent : isooctane



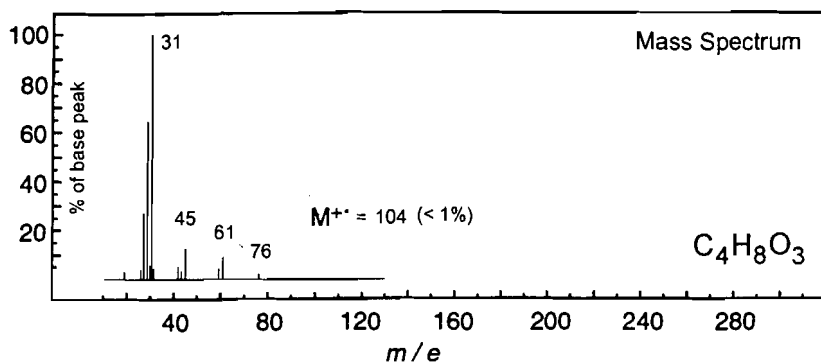
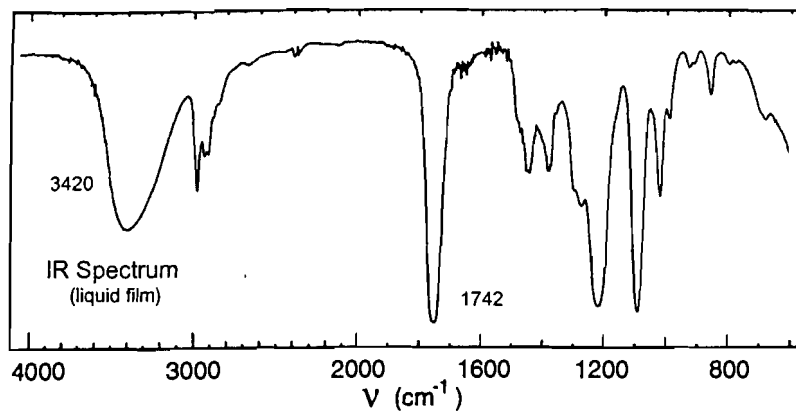
Problem 66



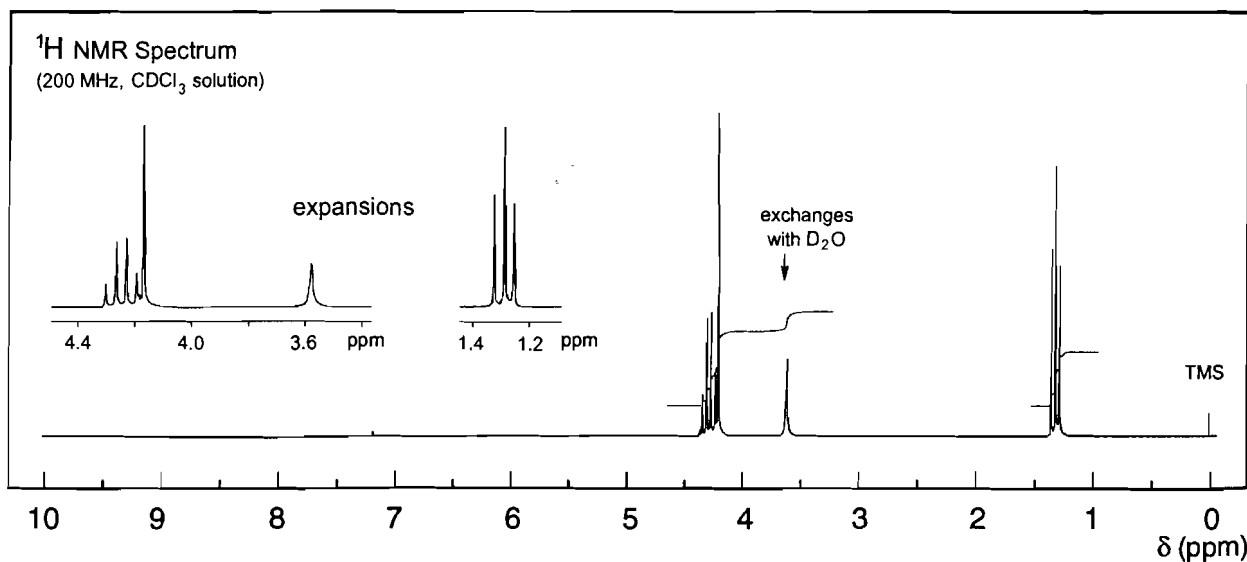
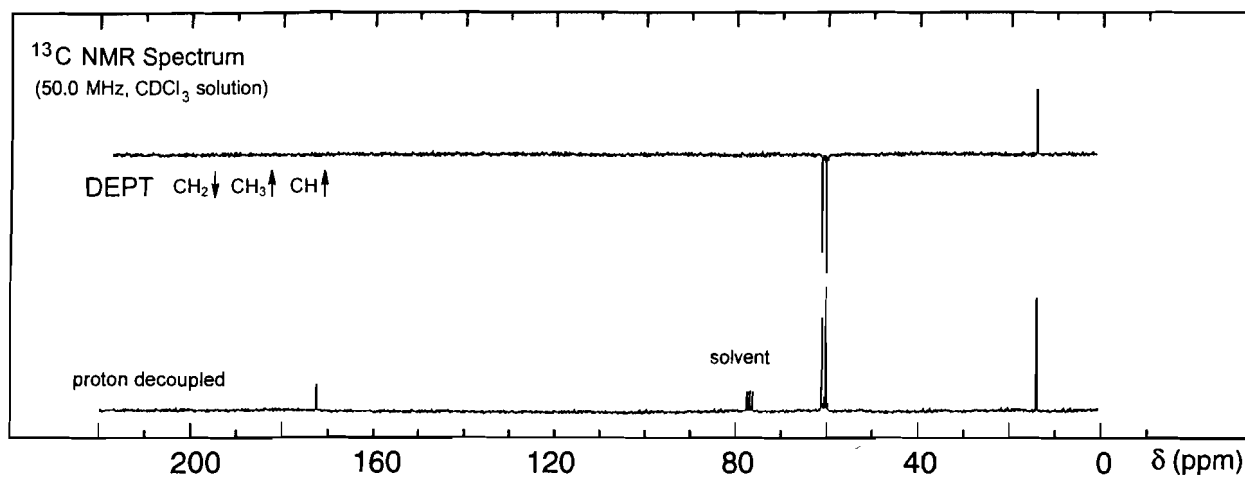
No significant UV
absorption above 210 nm



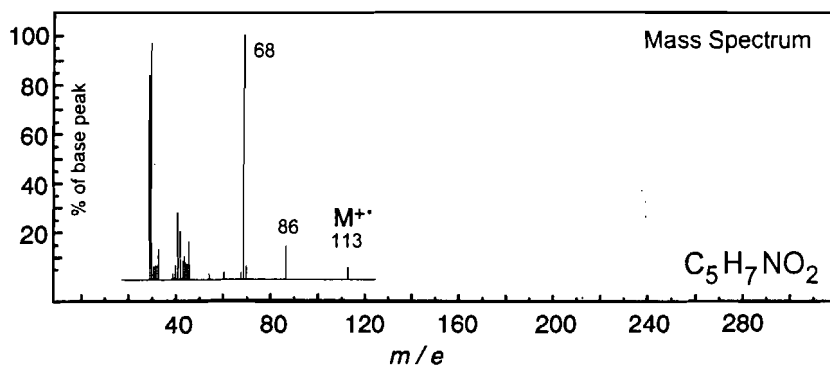
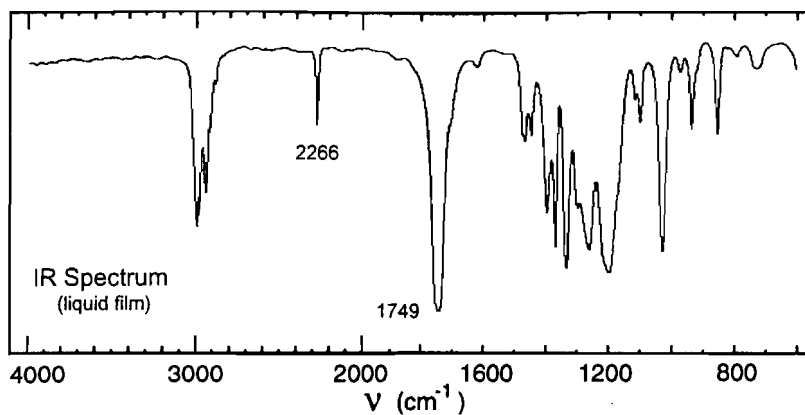
Problem 67



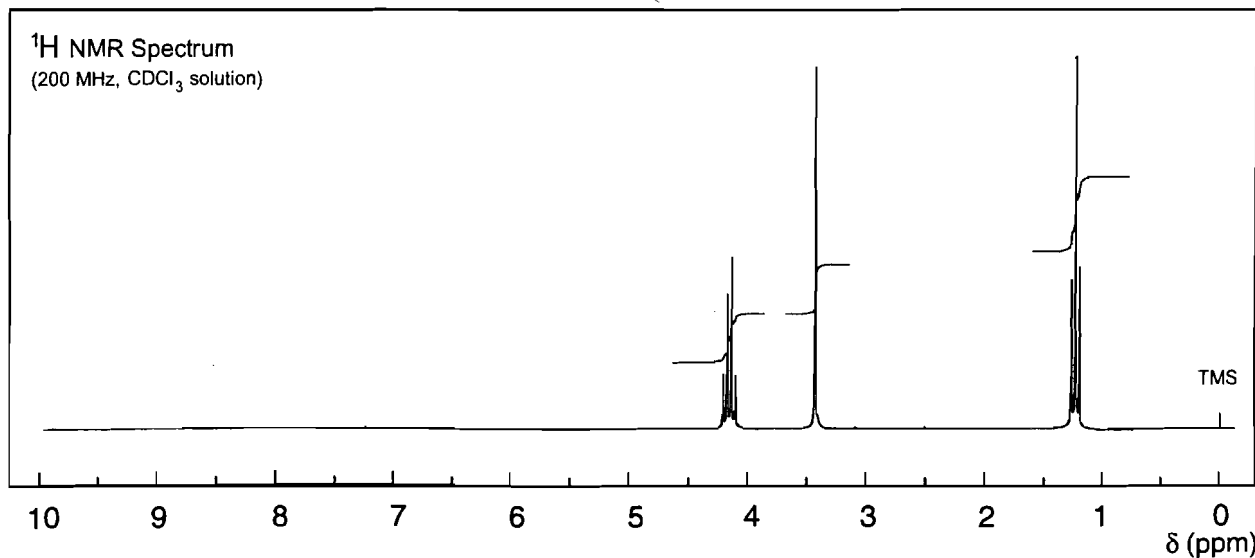
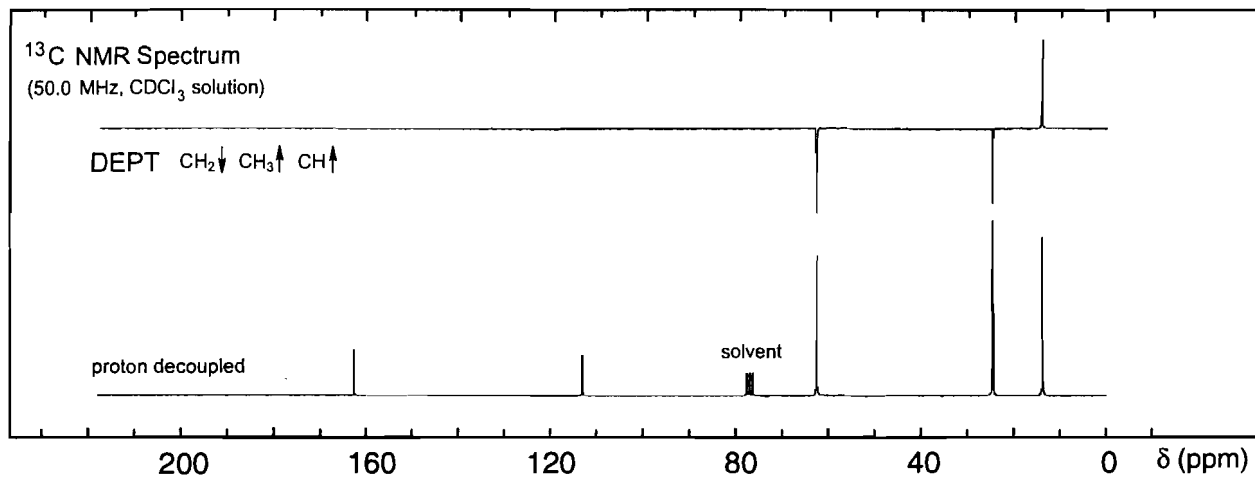
No significant UV
absorption above 220 nm



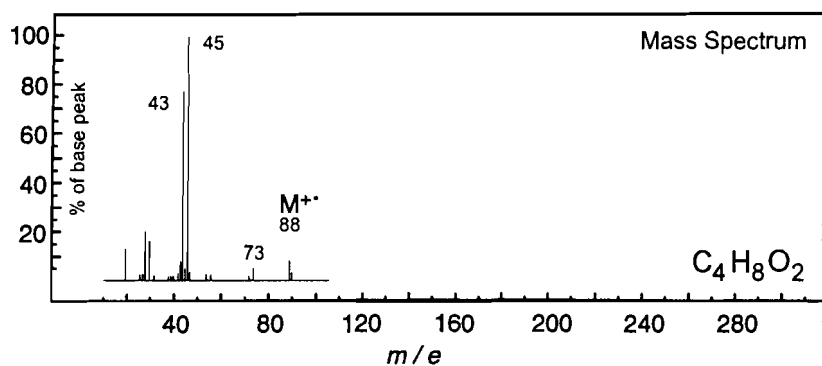
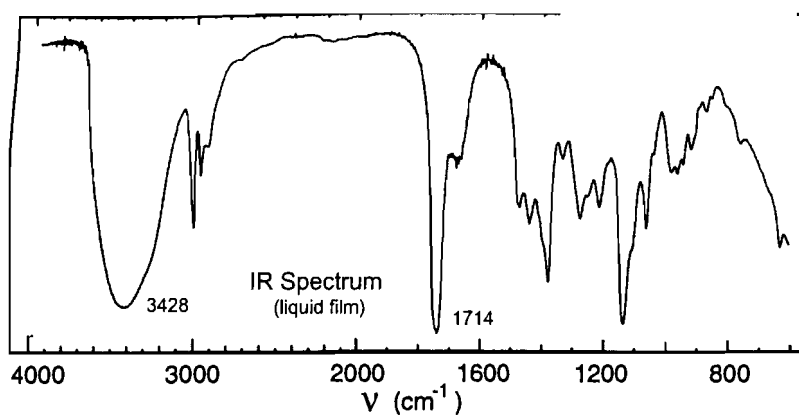
Problem 68



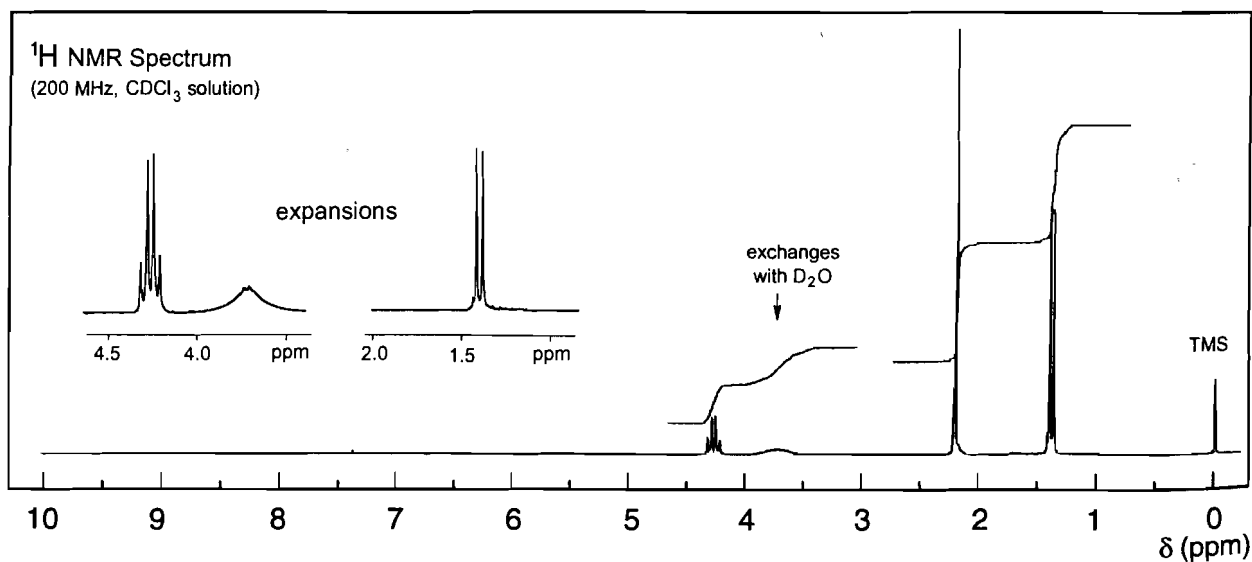
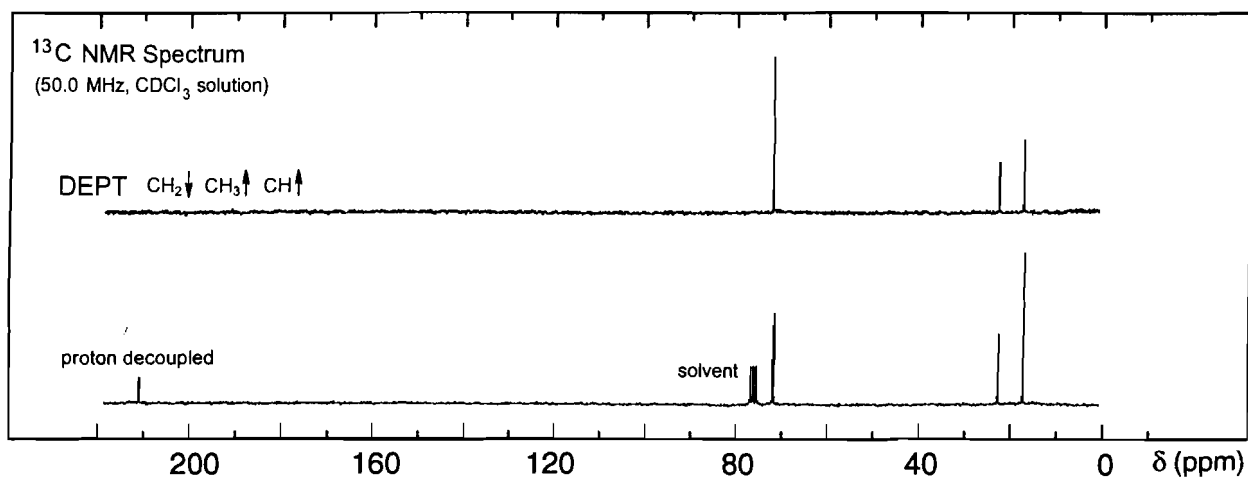
No significant UV
absorption above 220 nm



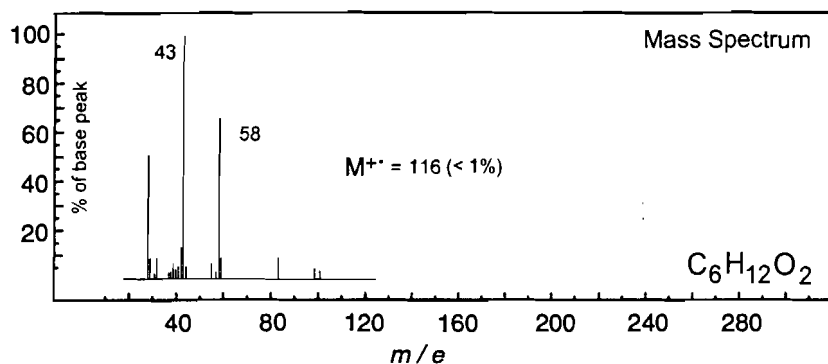
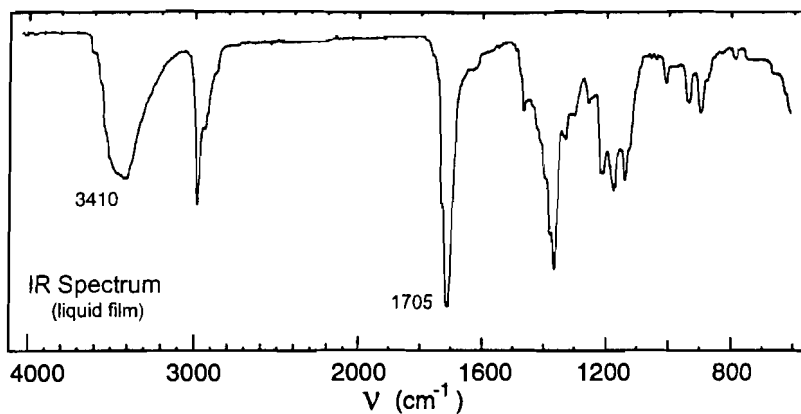
Problem 69



No strong UV
absorption above 220 nm



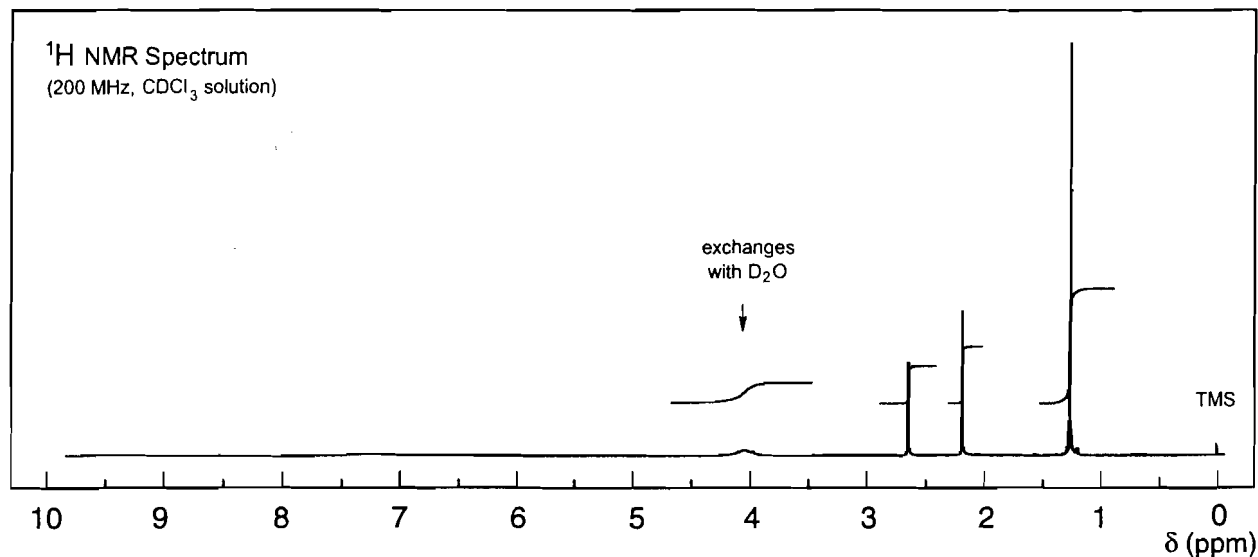
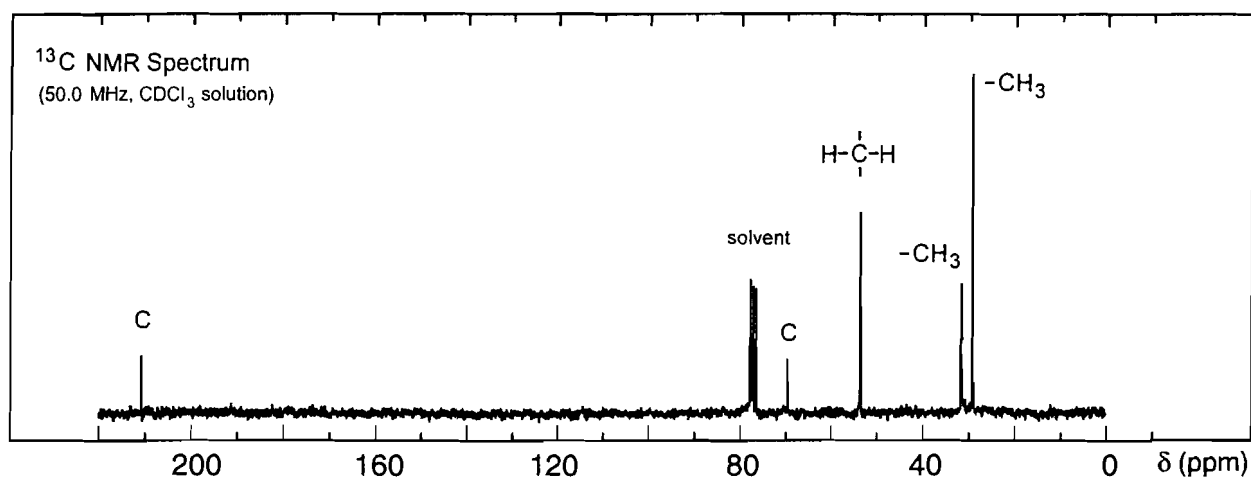
Problem 70



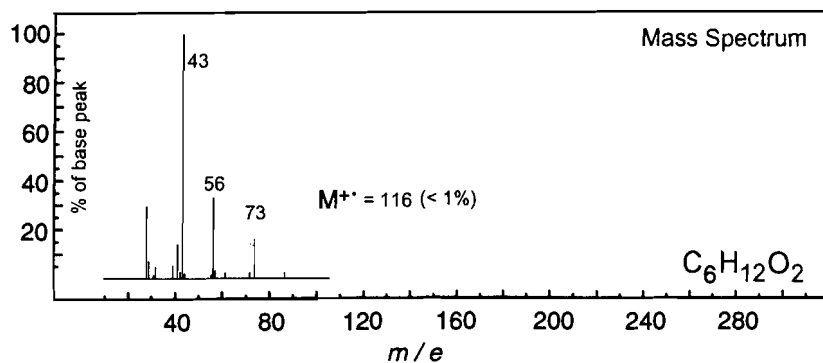
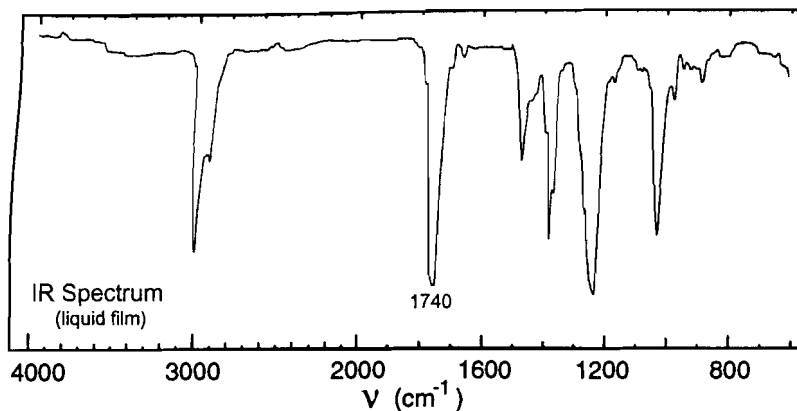
UV Spectrum

$\lambda_{\max} 283 \text{ nm (log}_{10}\epsilon 1.4)$

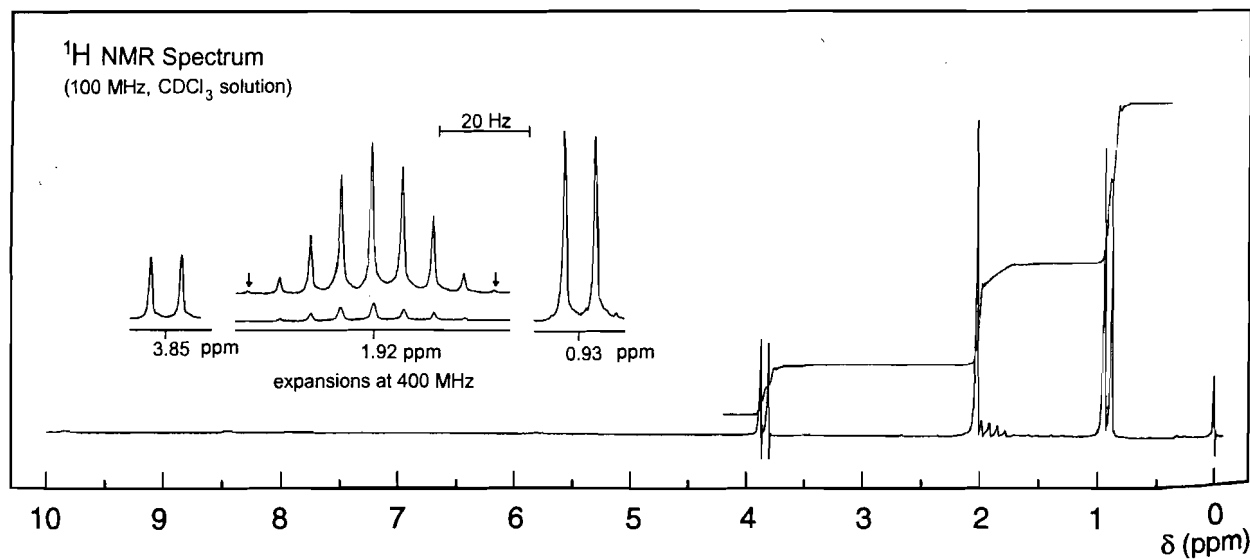
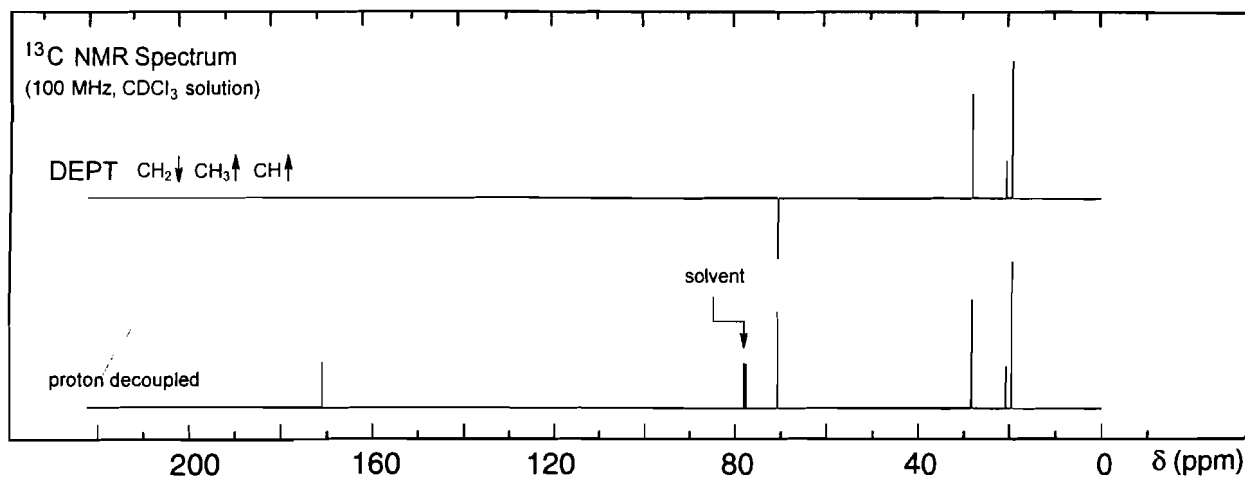
solvent : hexane



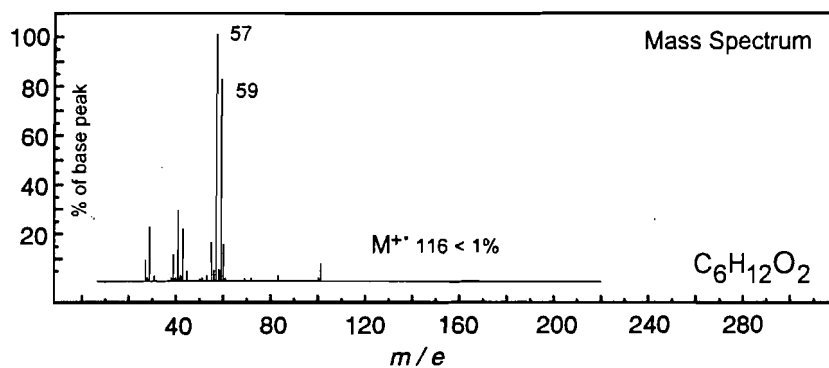
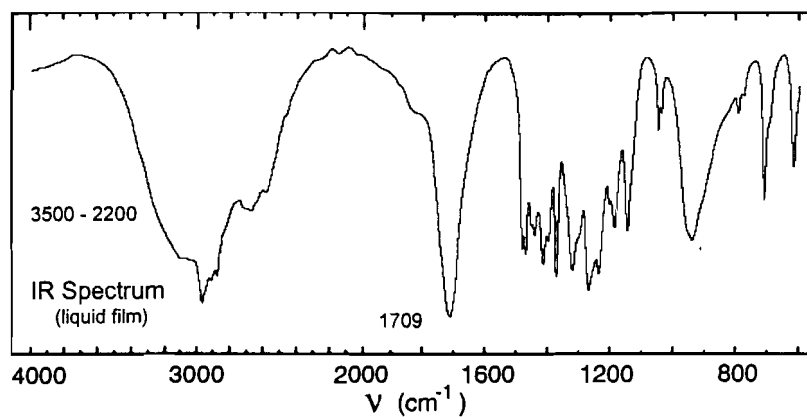
Problem 71



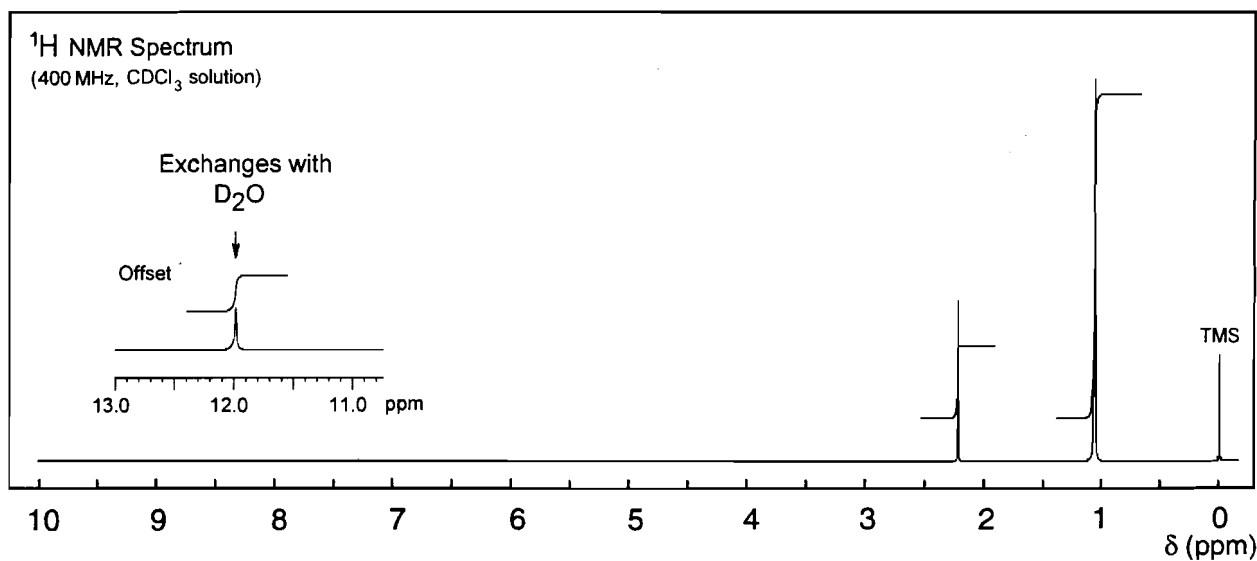
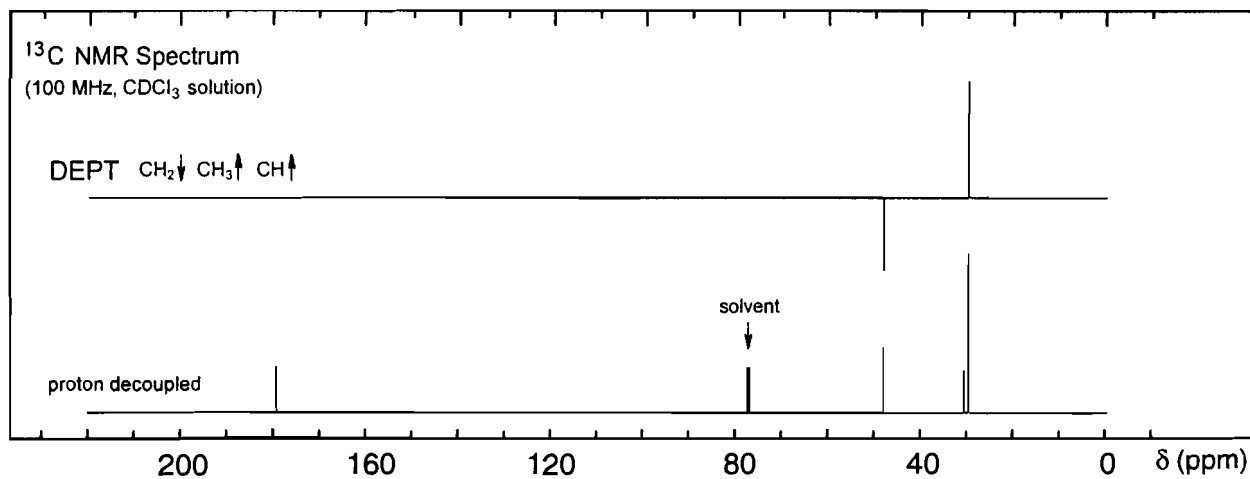
No significant UV
absorption above 220 nm



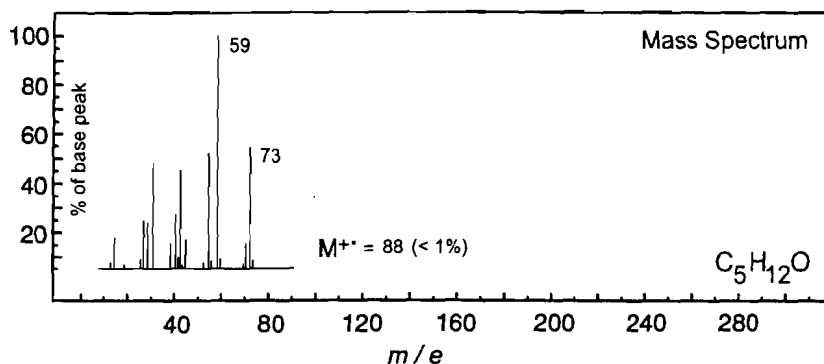
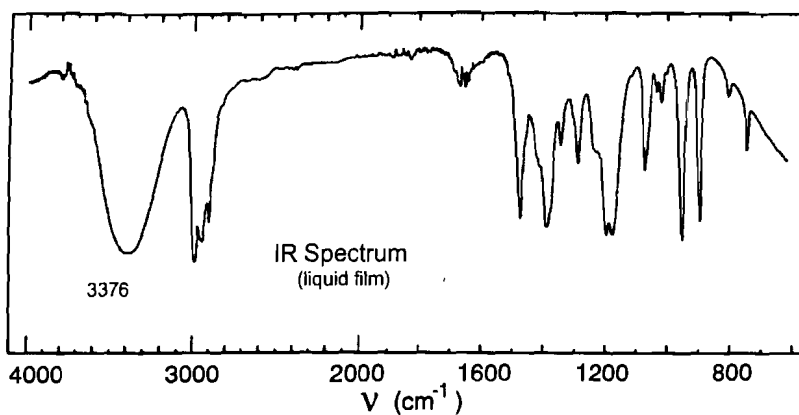
Problem 72



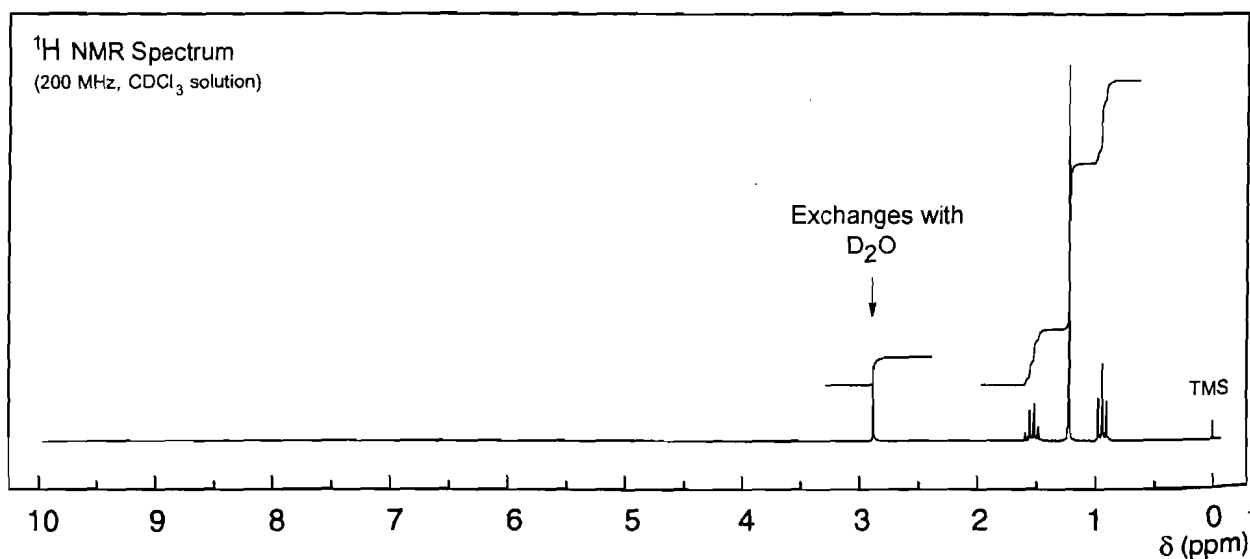
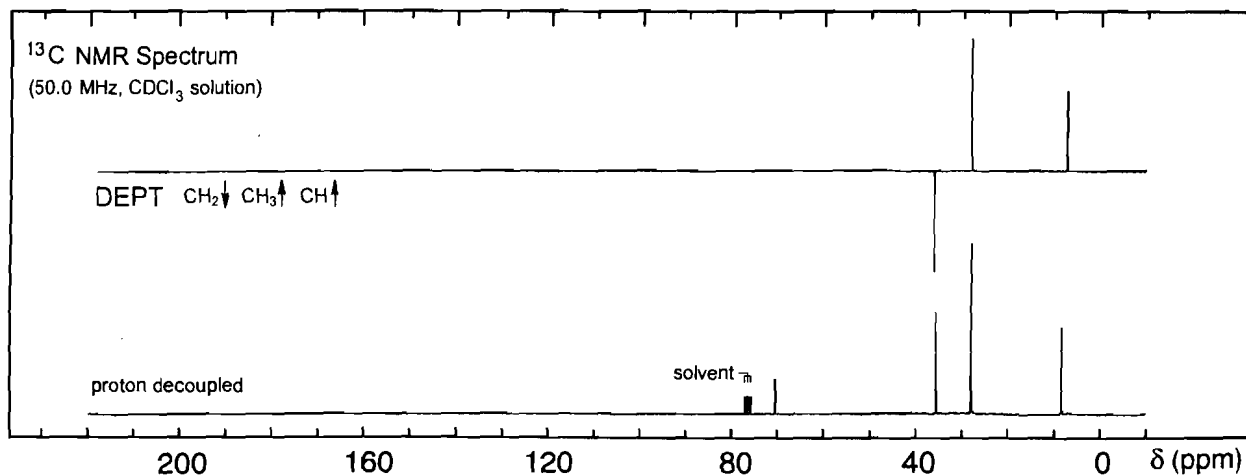
No significant UV
absorption above 220 nm



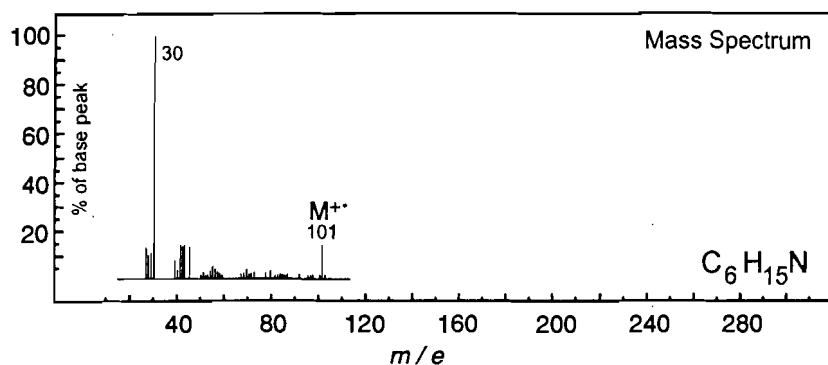
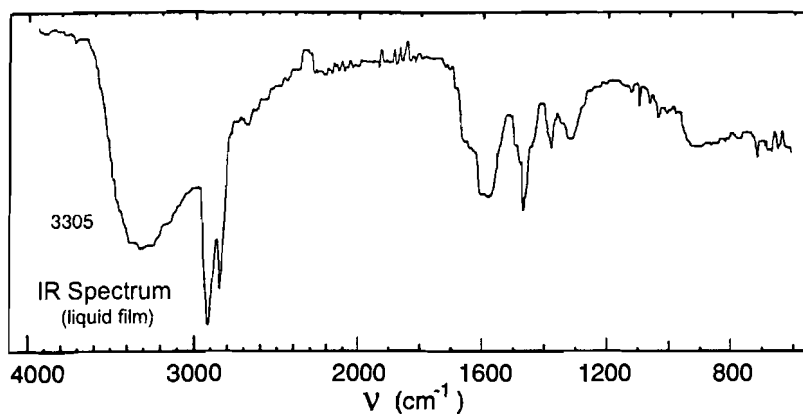
Problem 73



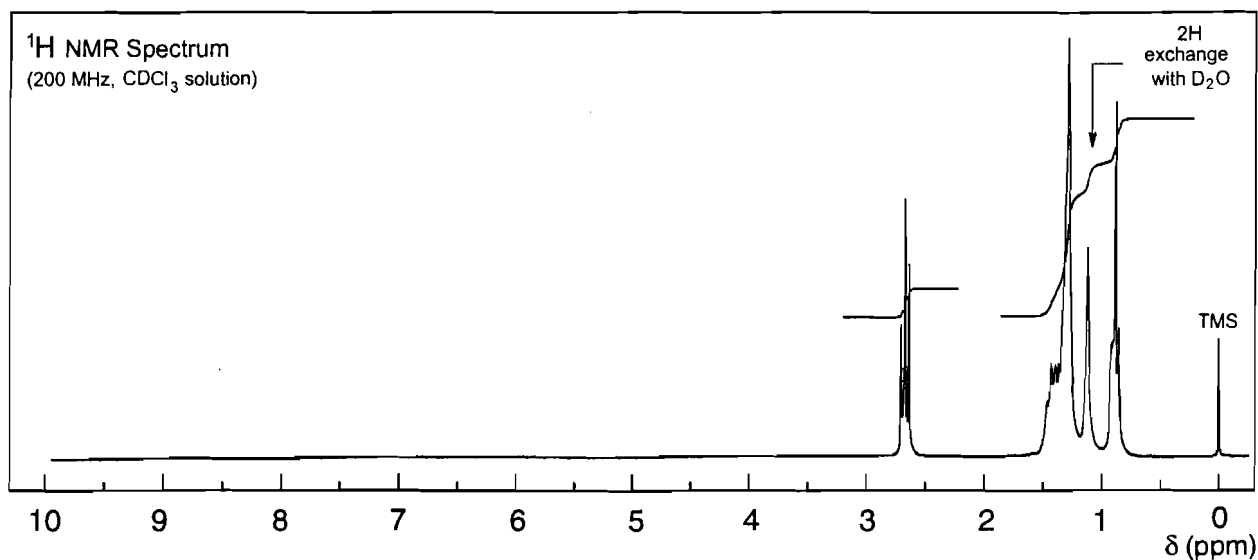
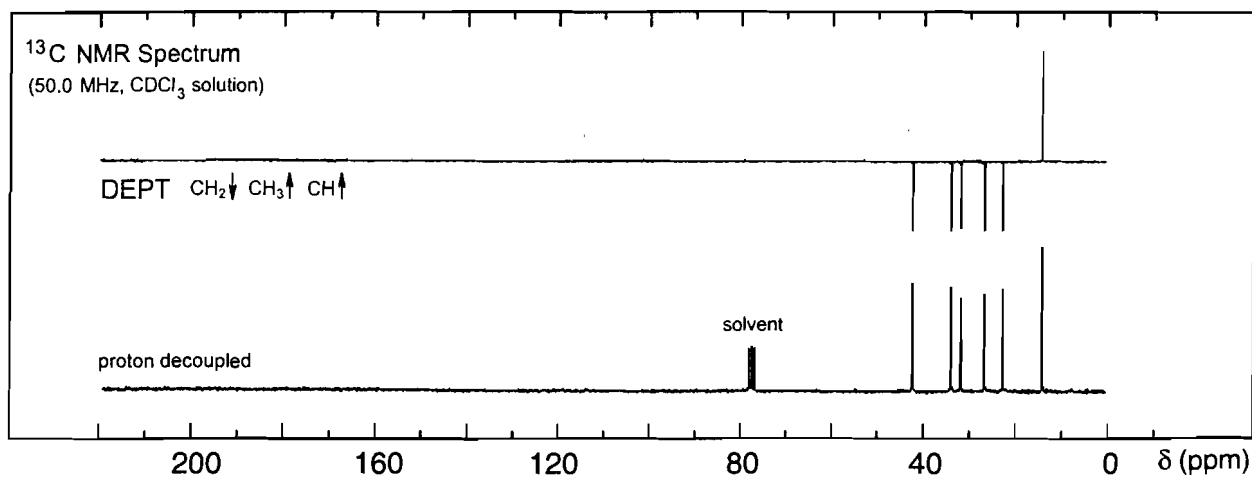
No significant UV
absorption above 220 nm



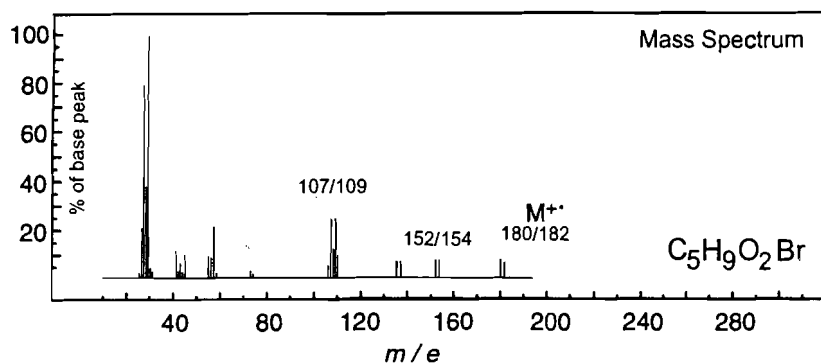
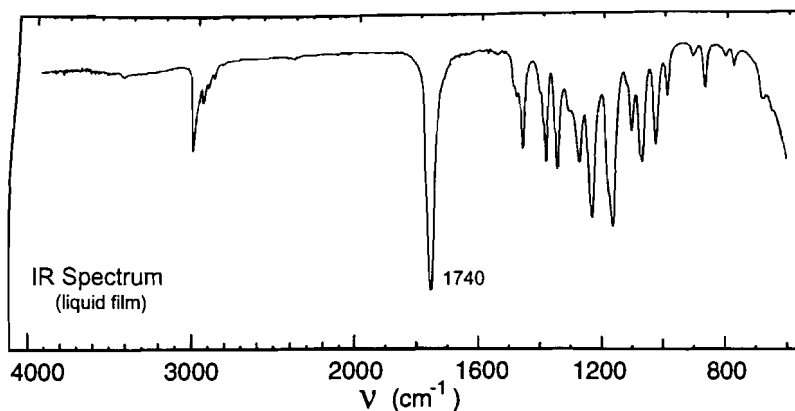
Problem 74



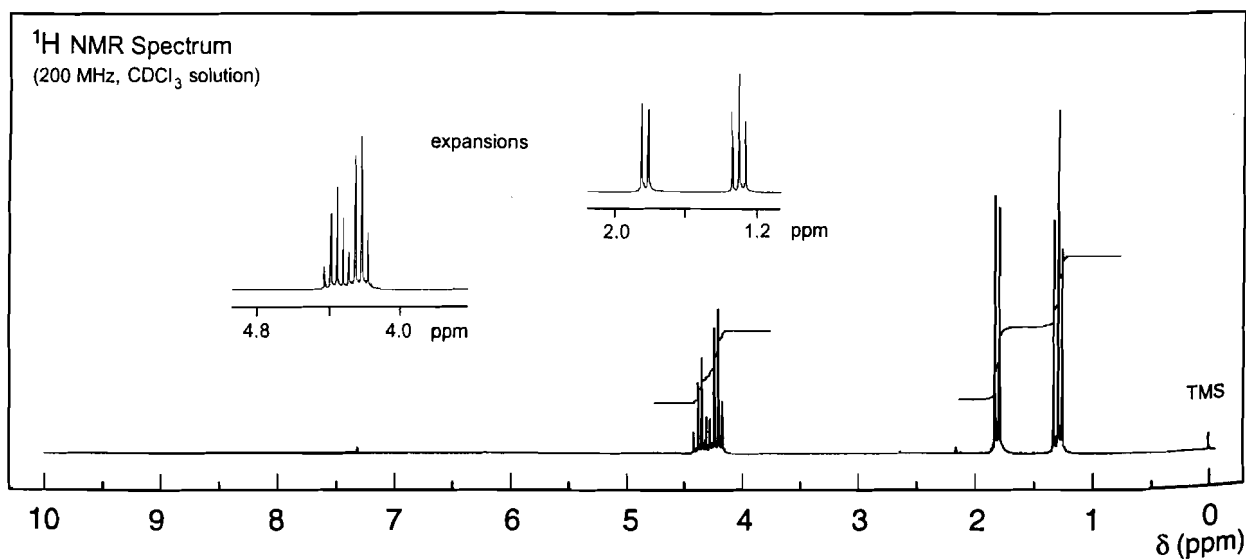
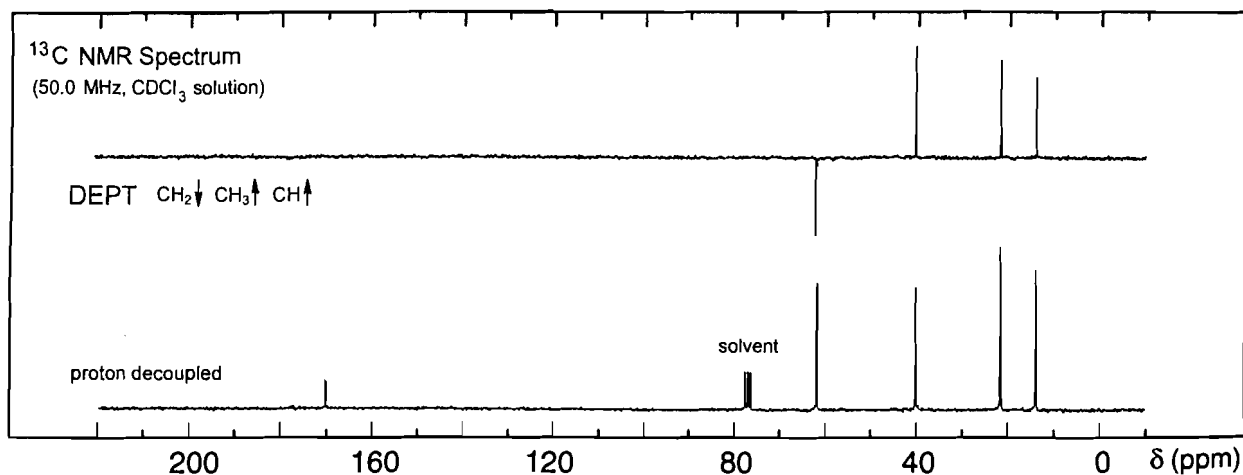
No significant UV
absorption above 220 nm



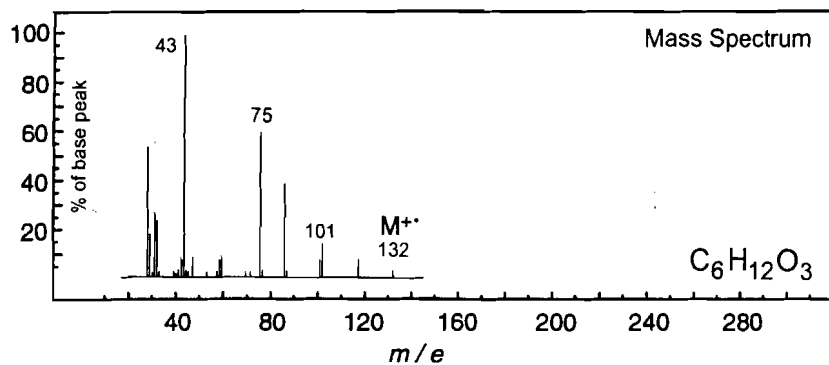
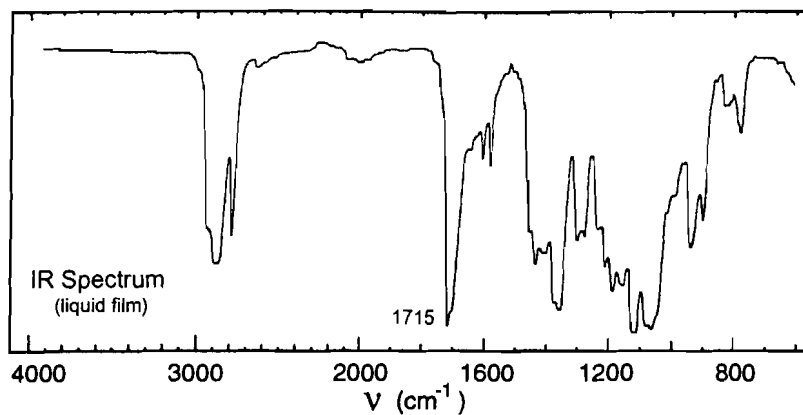
Problem 75



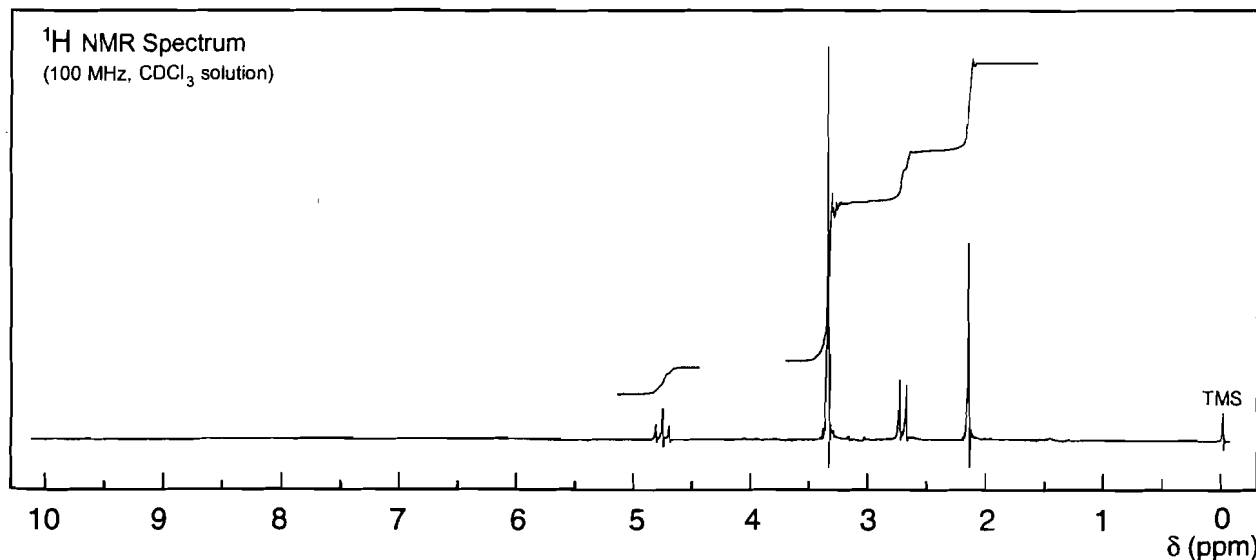
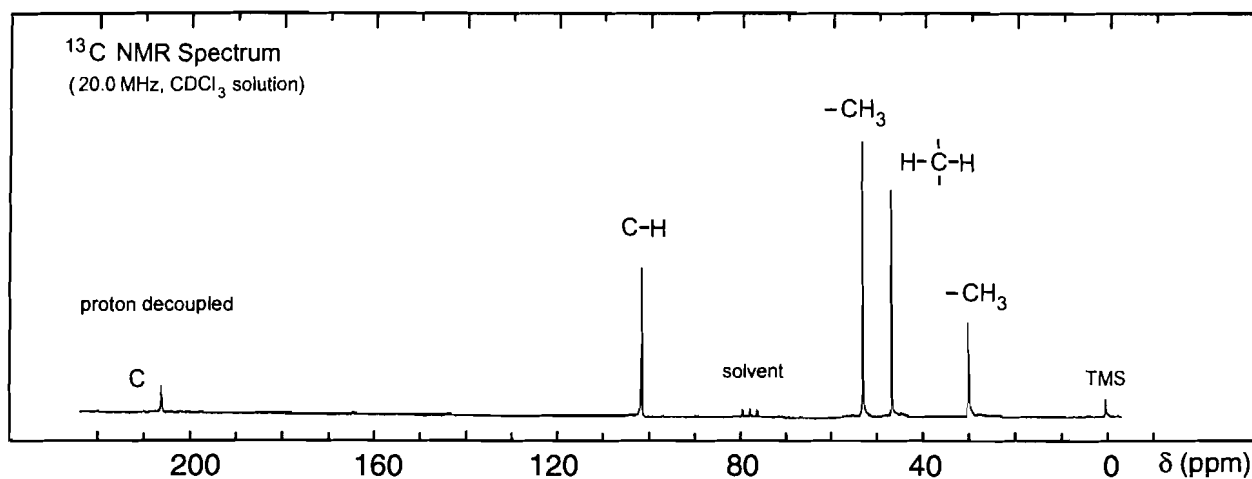
No significant UV
absorption above 220 nm



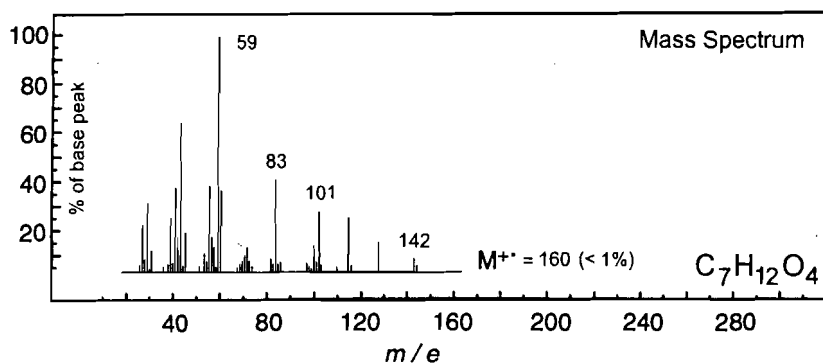
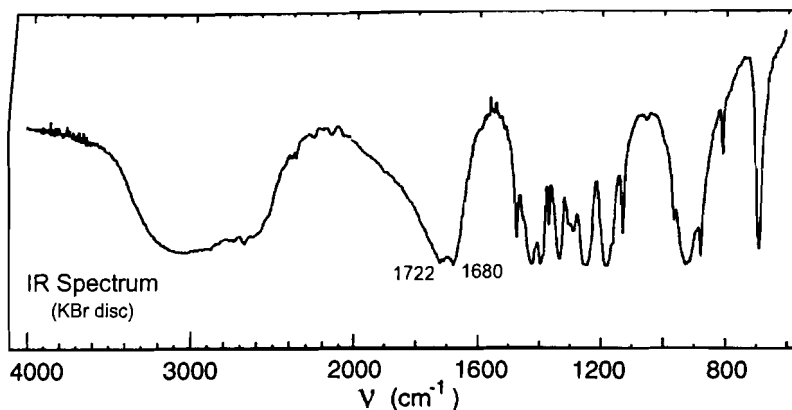
Problem 76



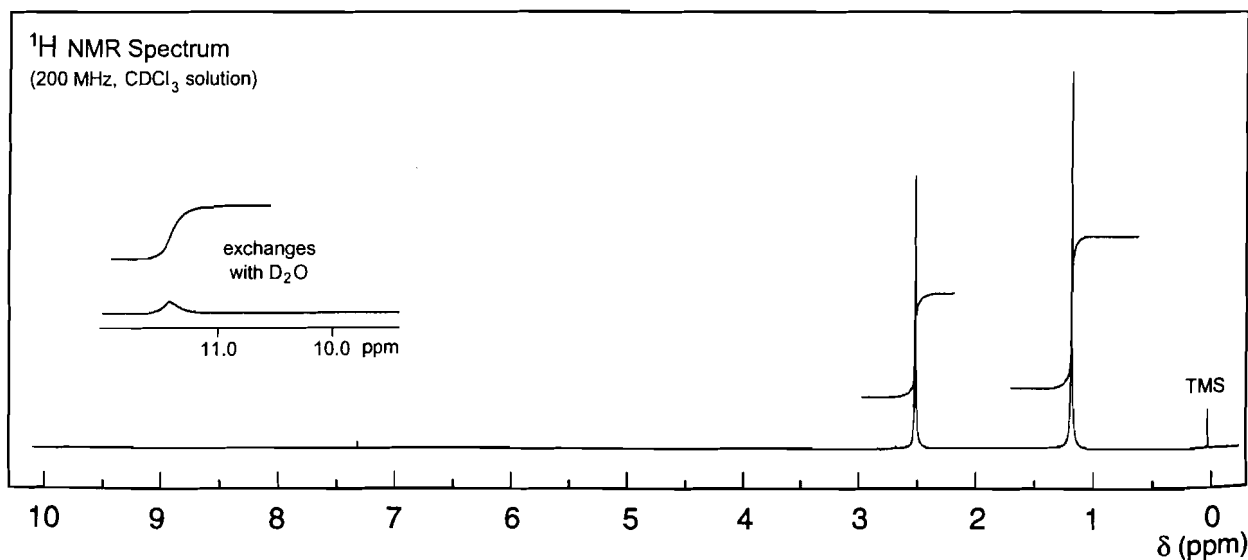
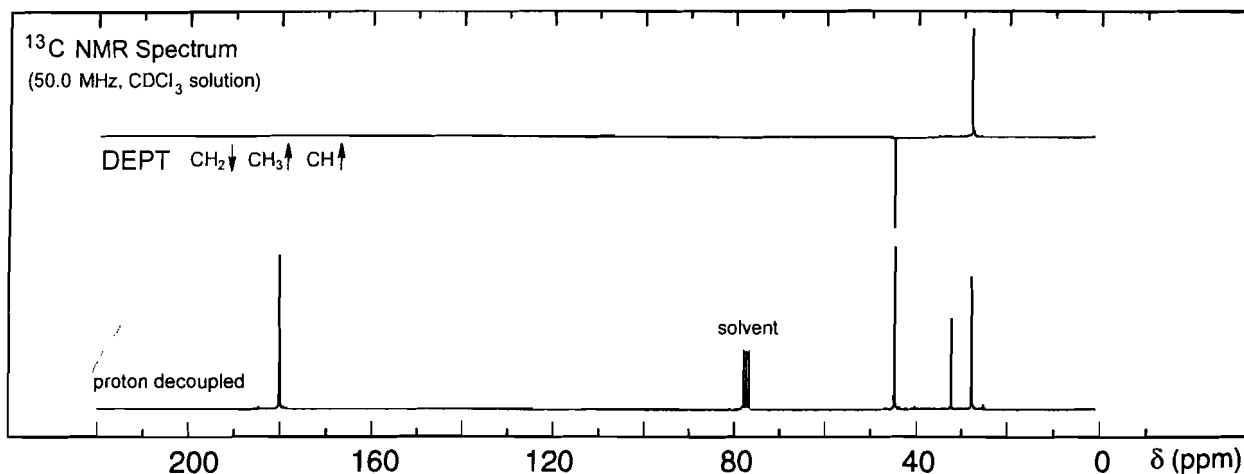
No significant UV
absorption above 220 nm



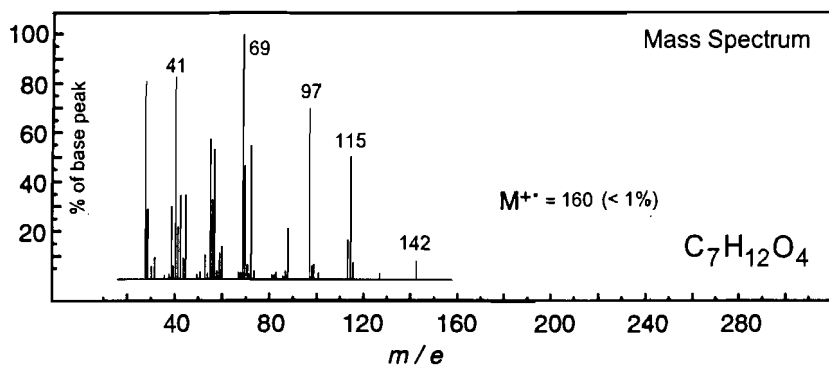
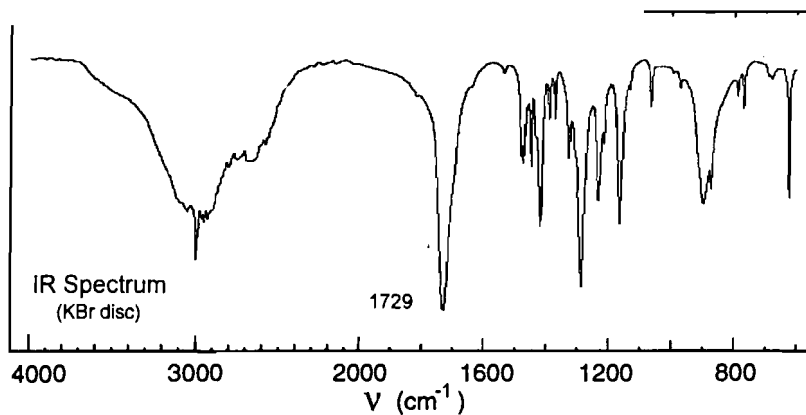
Problem 77



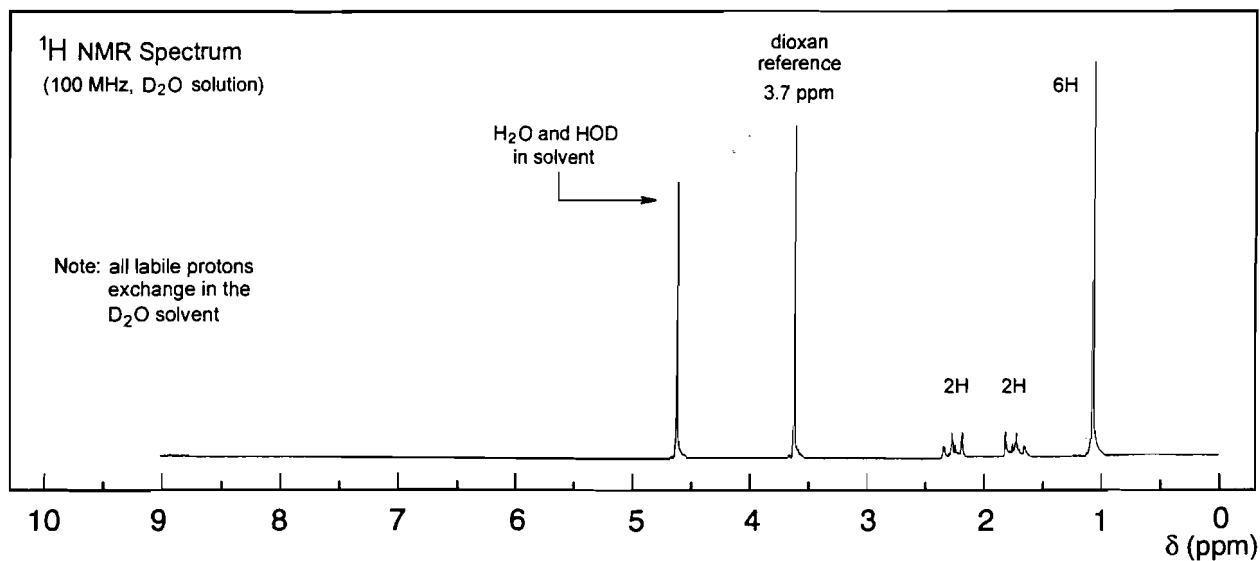
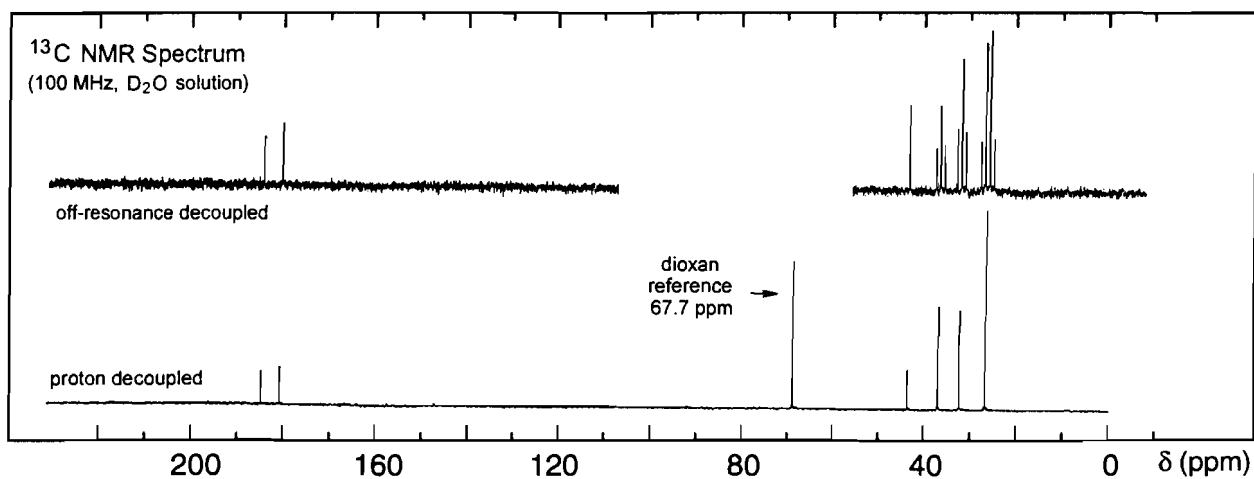
No significant UV
absorption above 220 nm



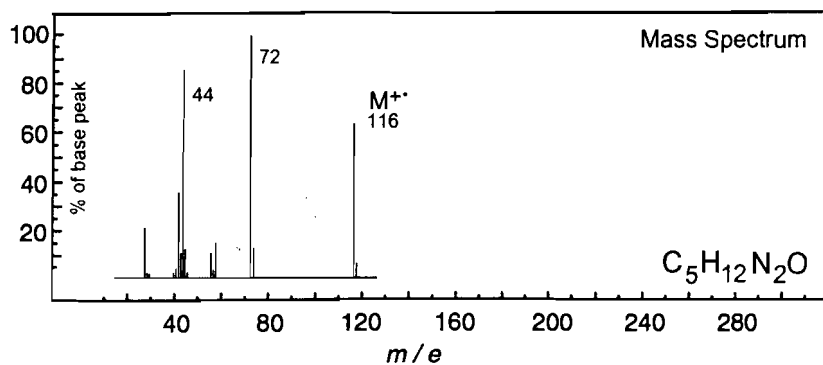
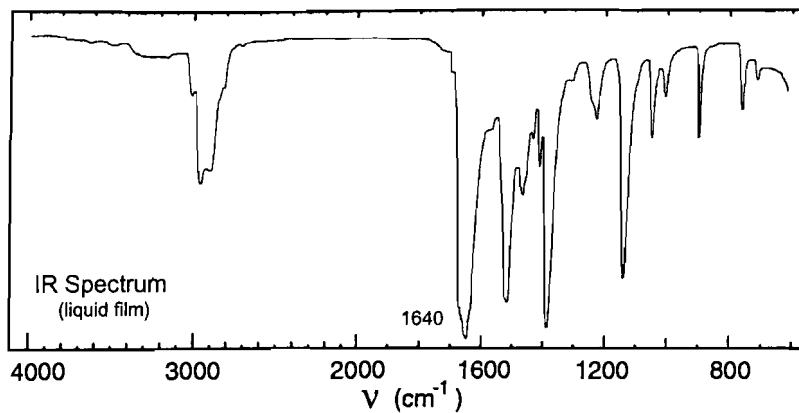
Problem 78



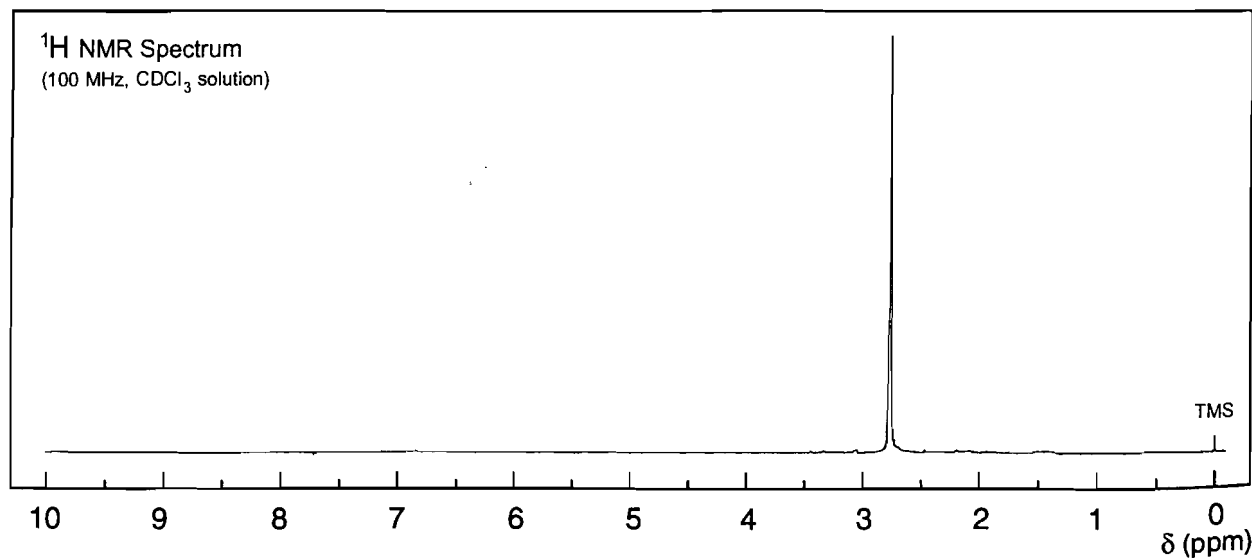
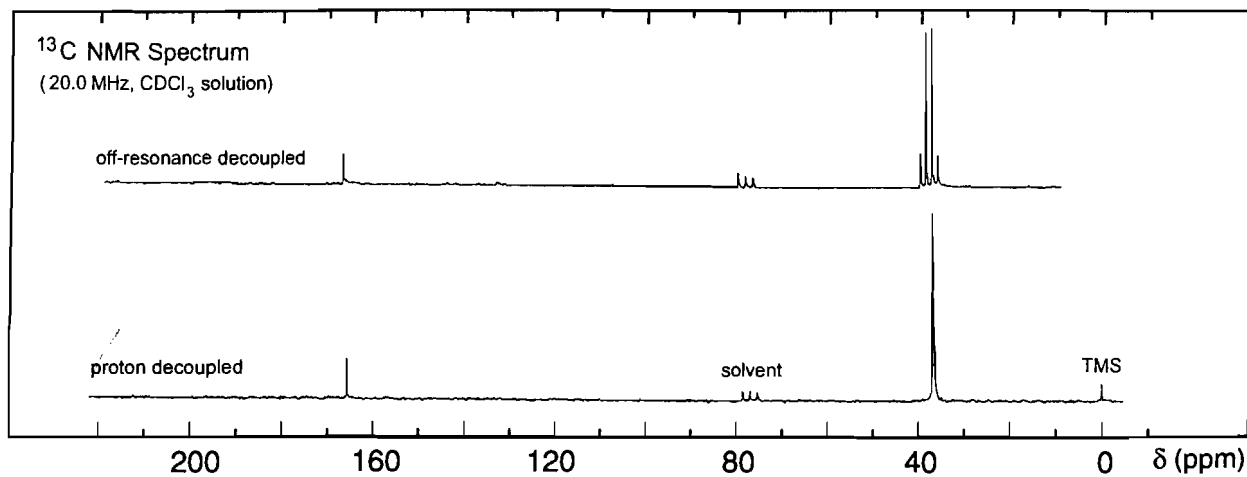
No significant UV
absorption above 220 nm



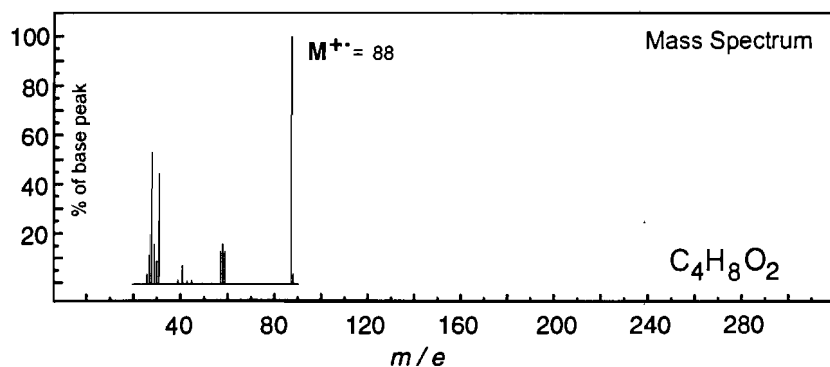
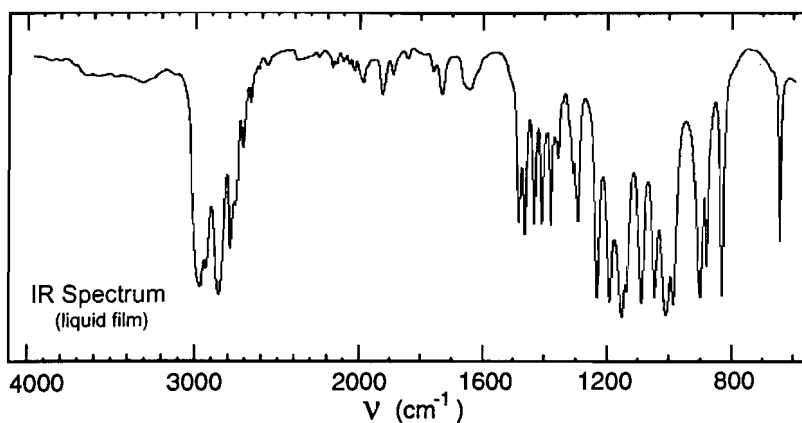
Problem 79



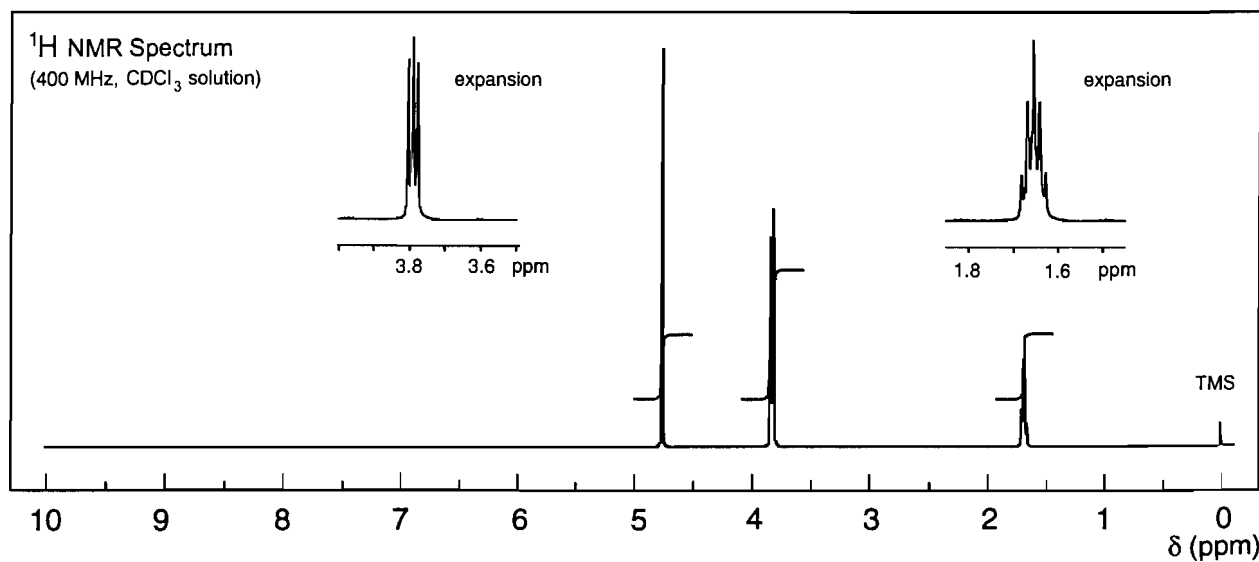
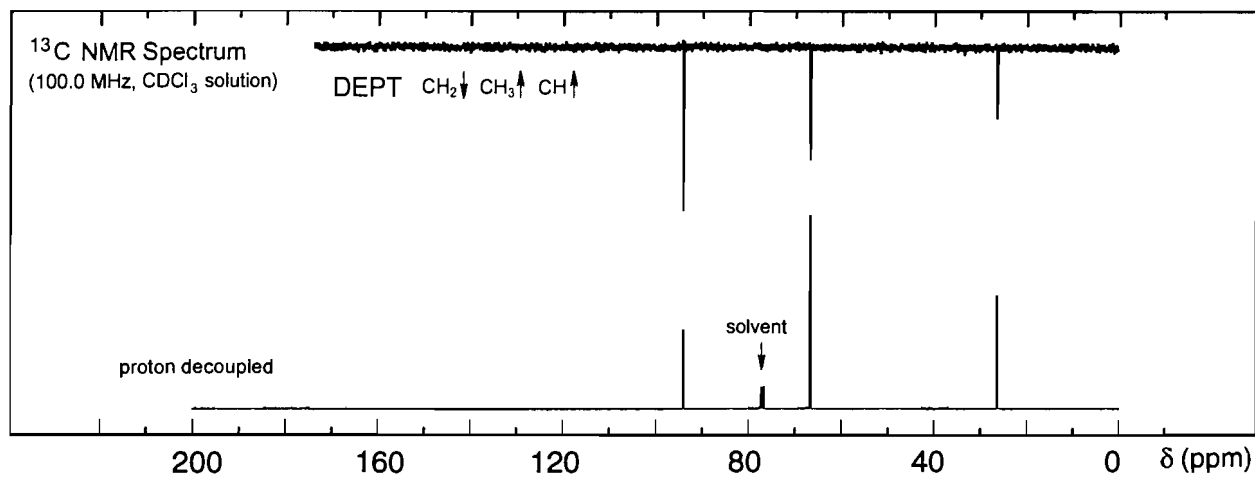
No significant UV
absorption above 220 nm



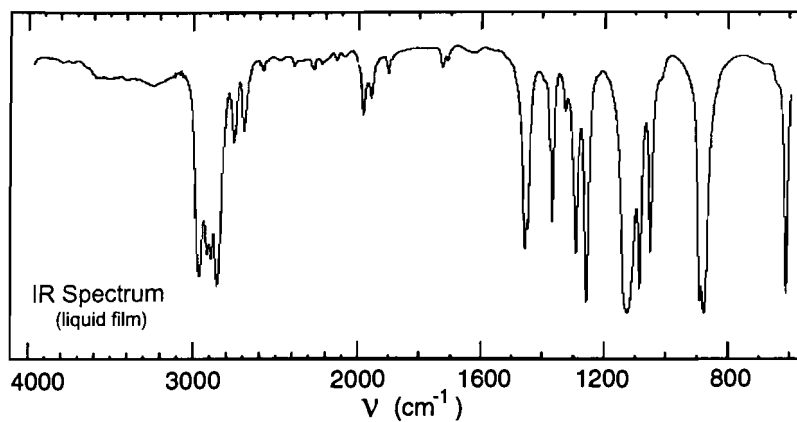
Problem 80



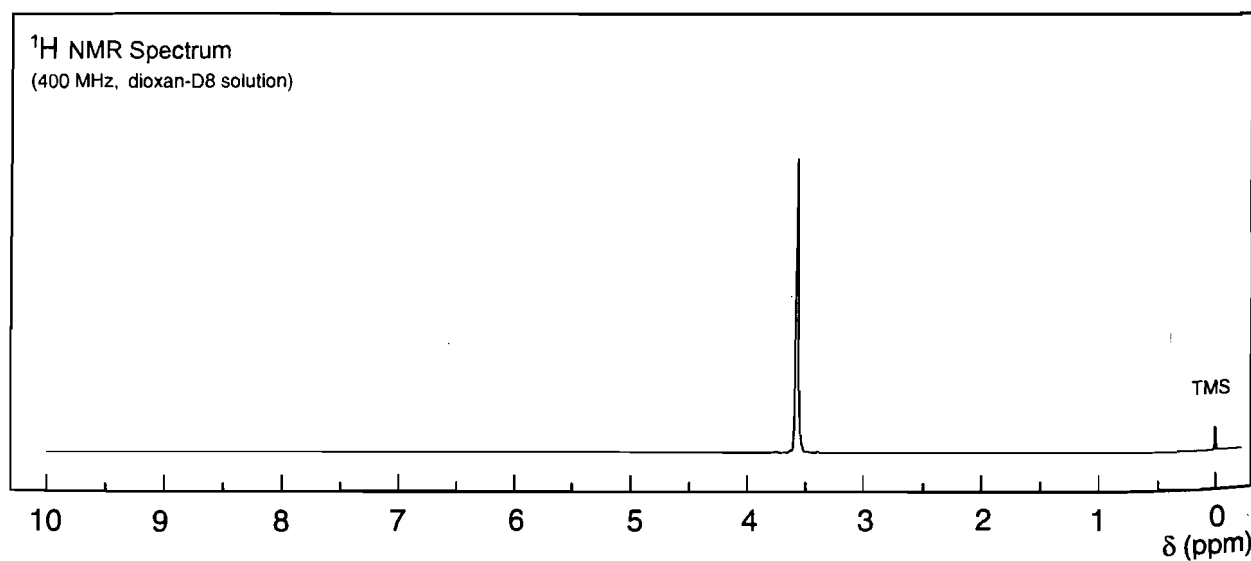
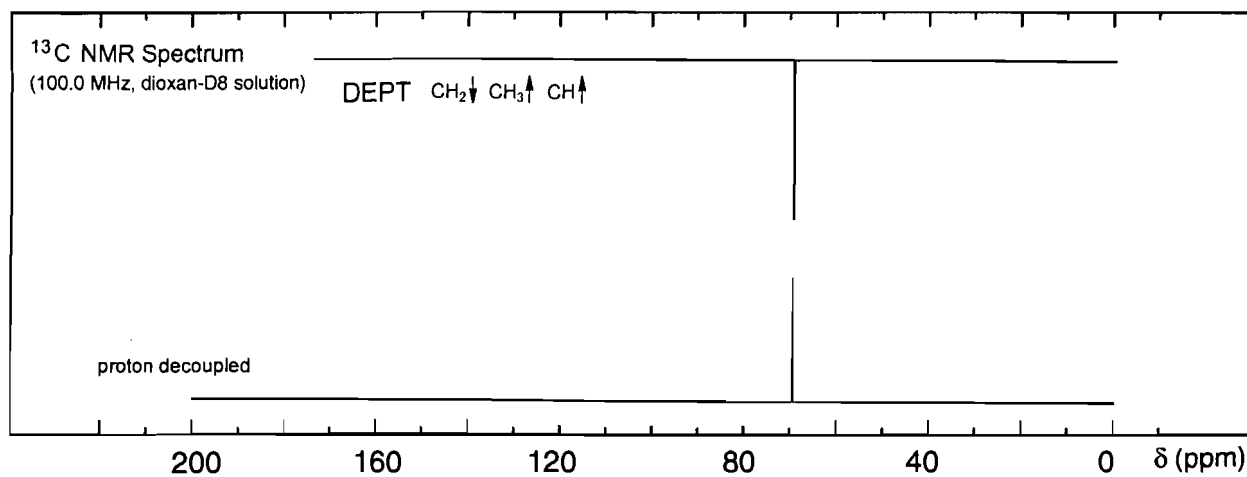
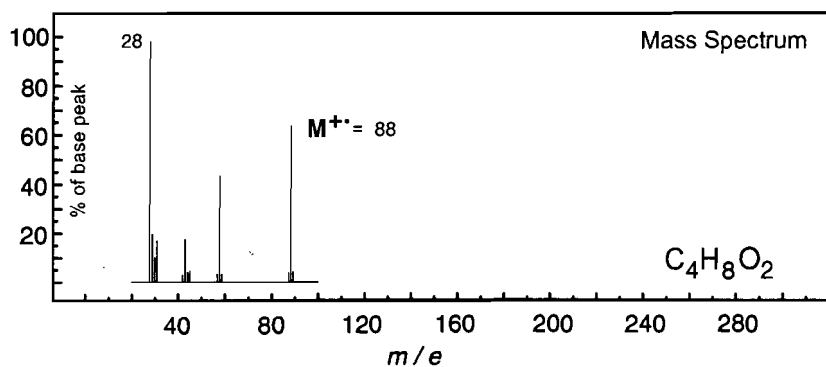
No significant UV
absorption above 220 nm



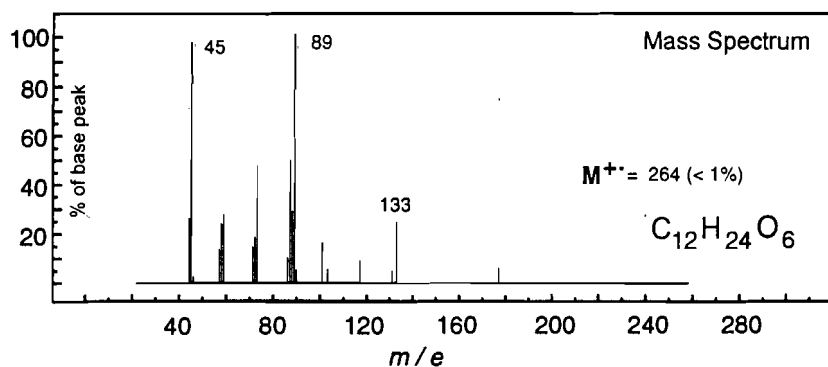
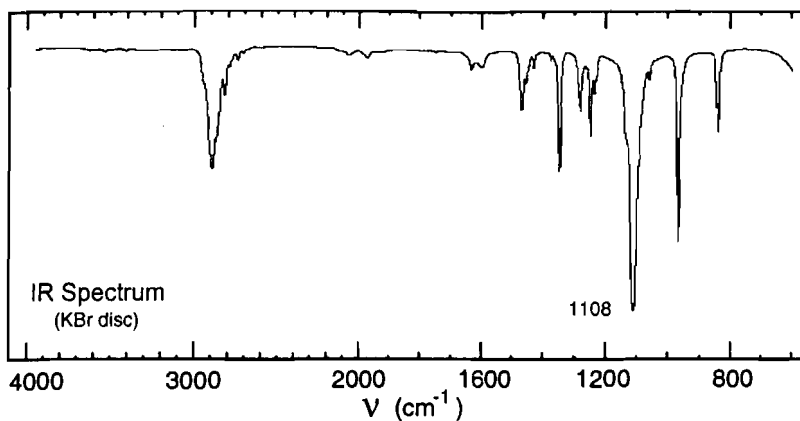
Problem 81



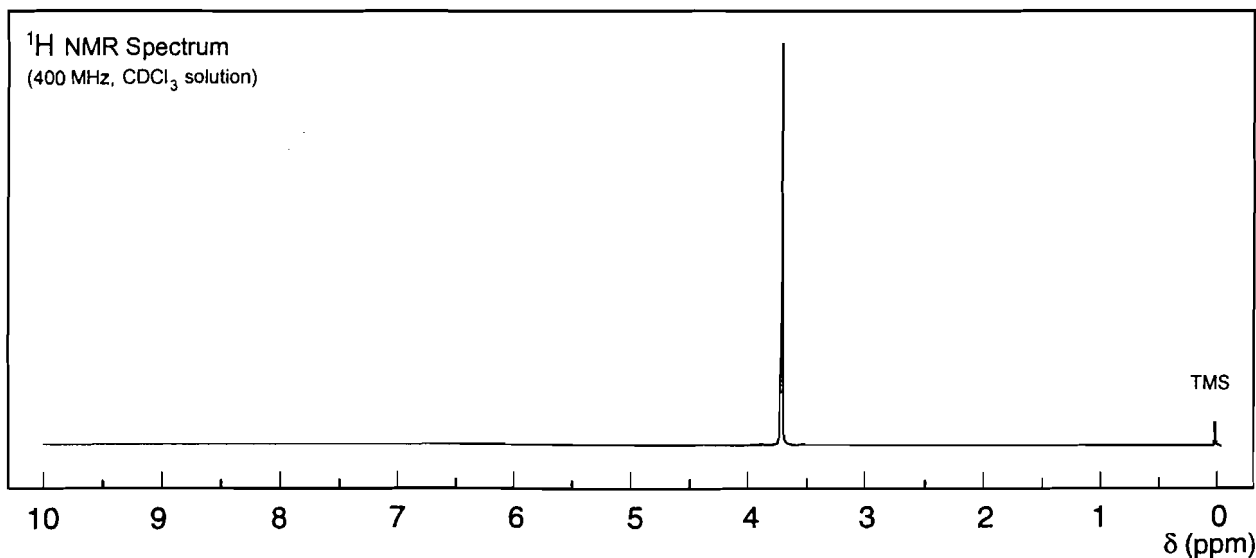
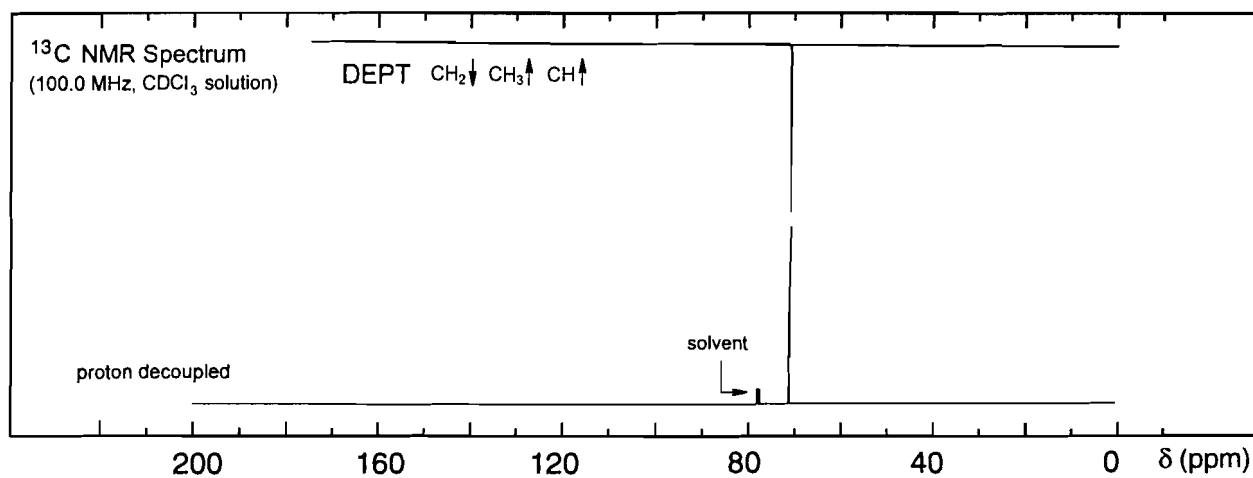
No significant UV
absorption above 220 nm



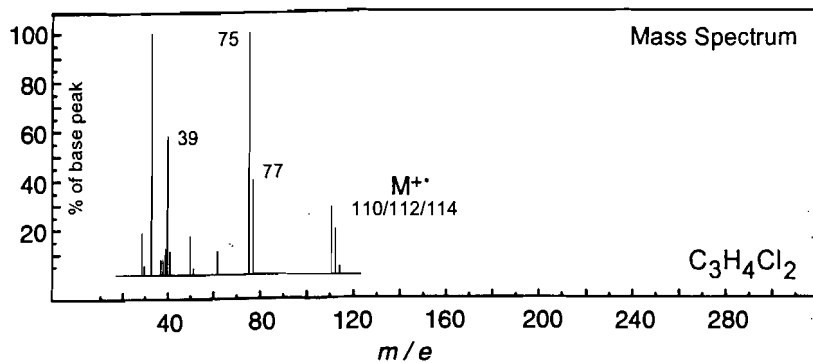
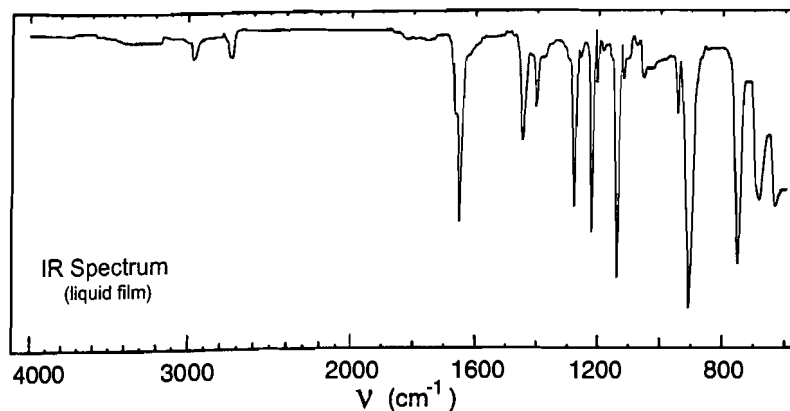
Problem 82



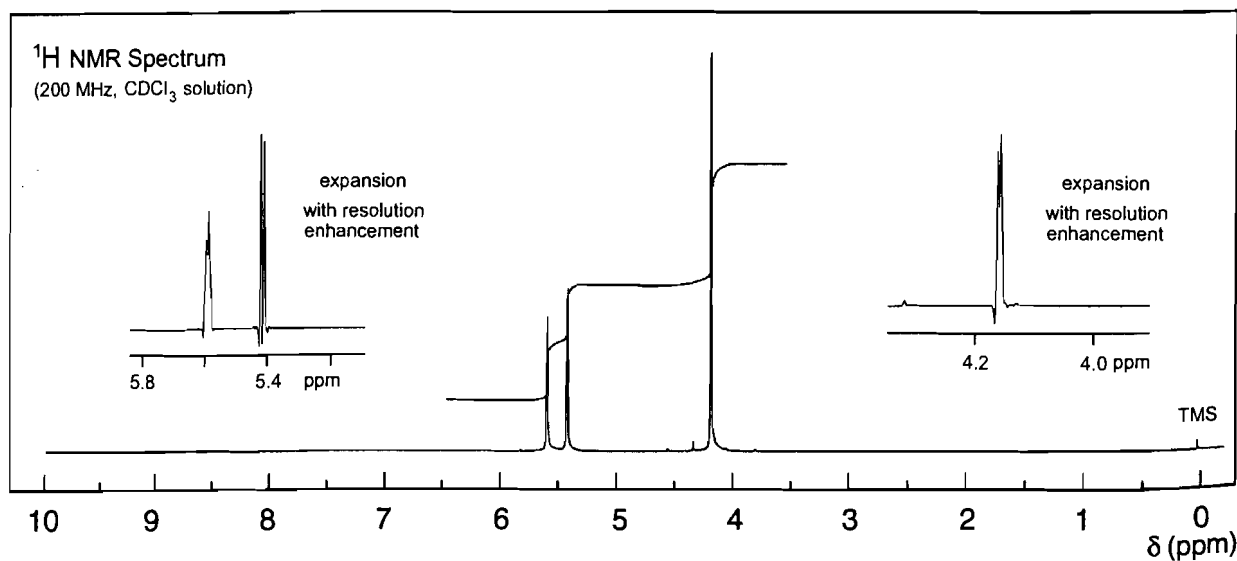
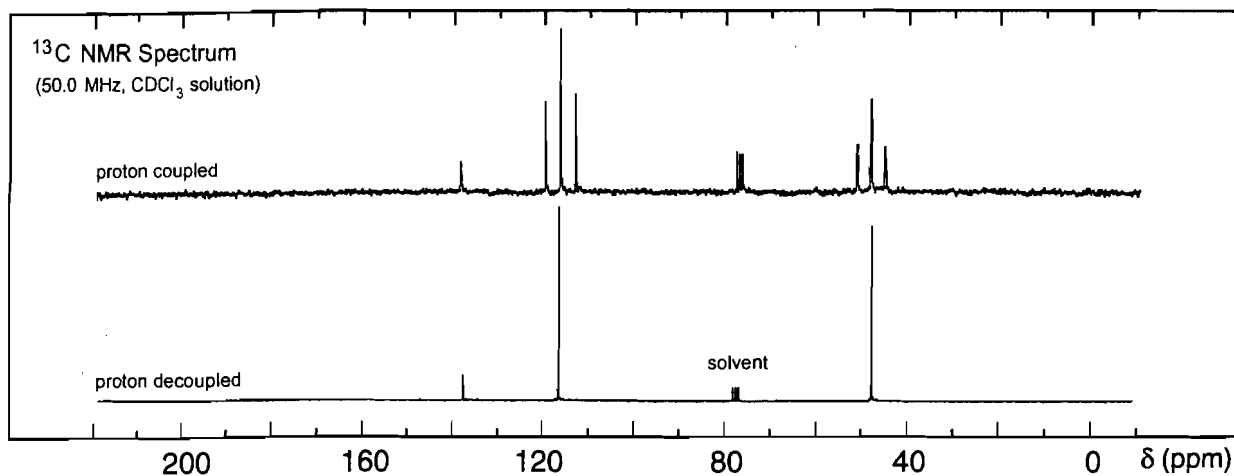
No significant UV
absorption above 220 nm



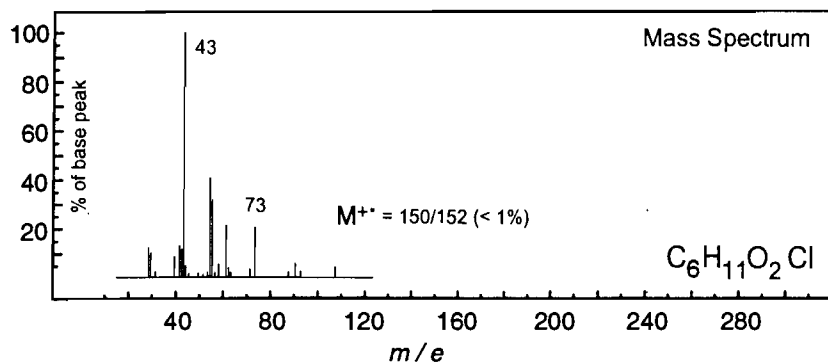
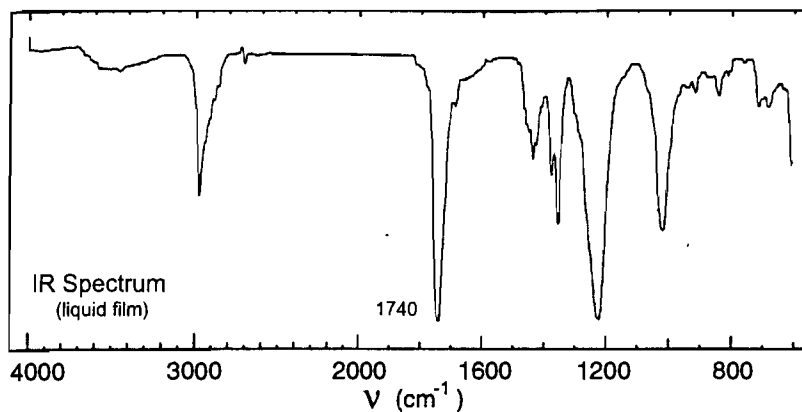
Problem 83



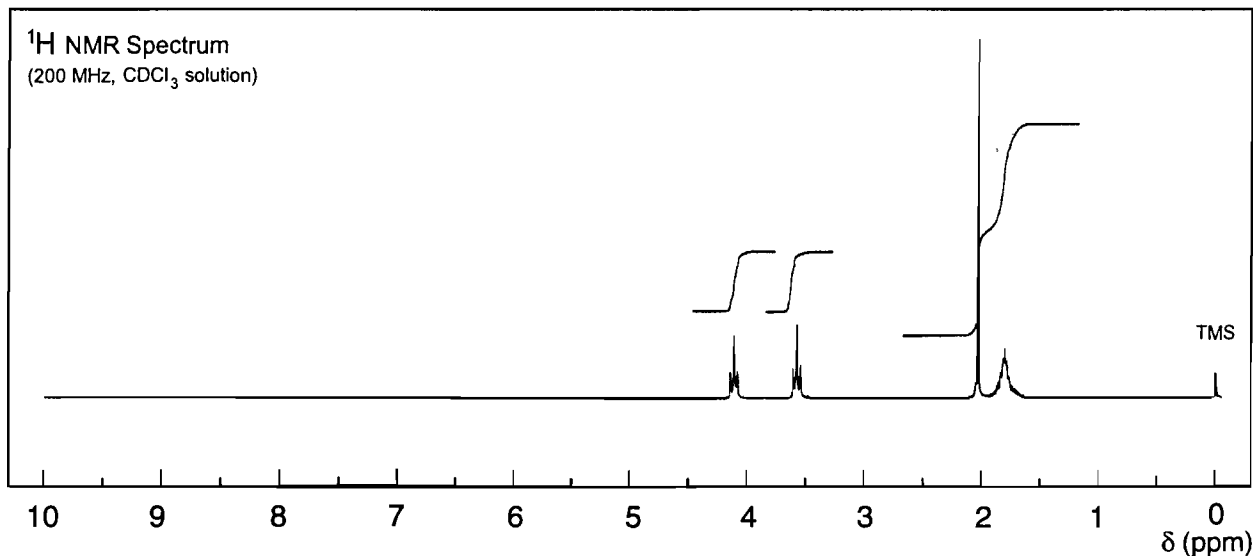
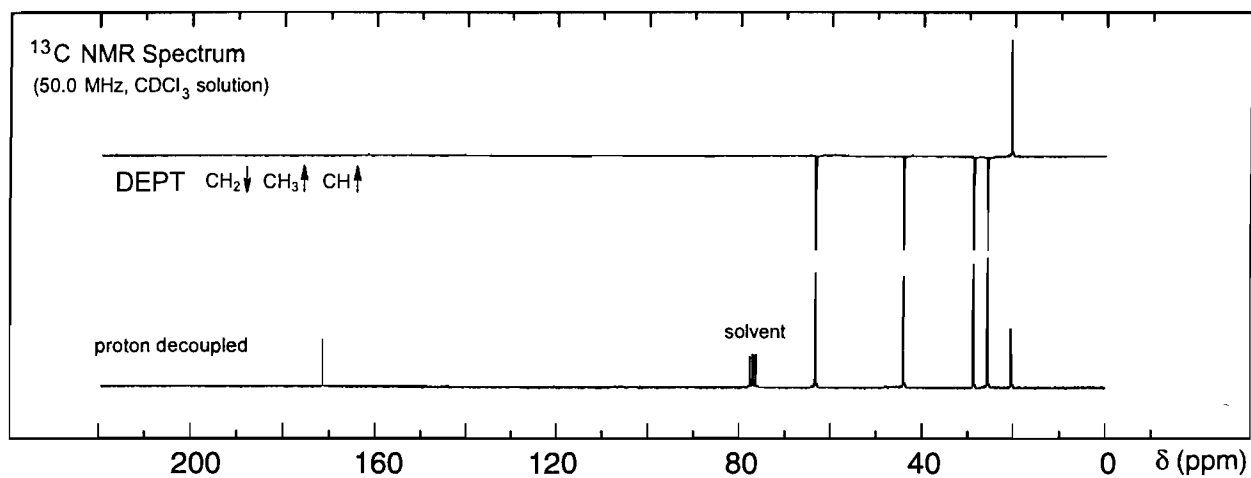
No significant UV
absorption above 220 nm



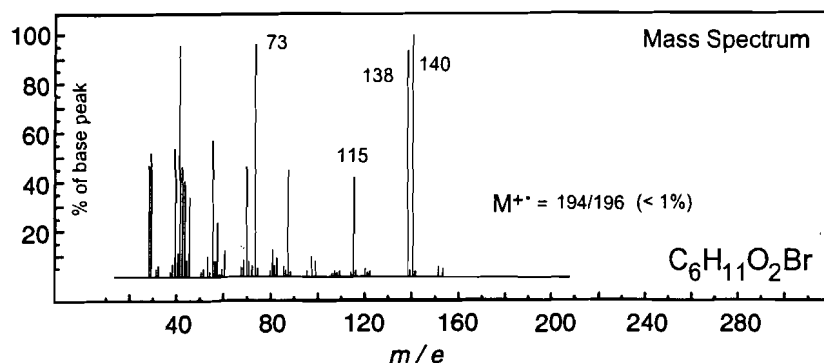
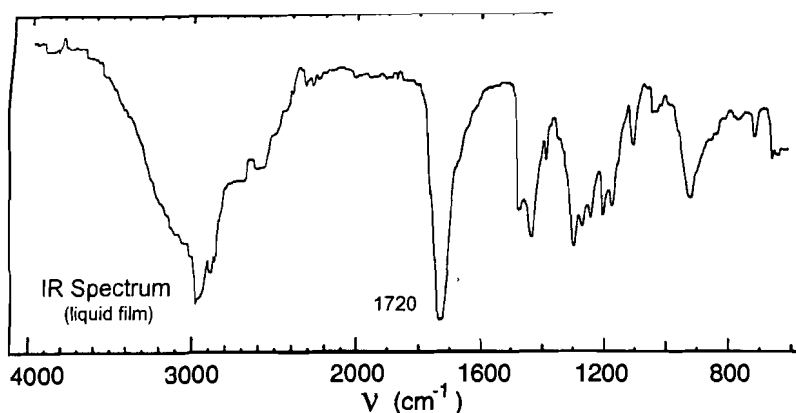
Problem 84



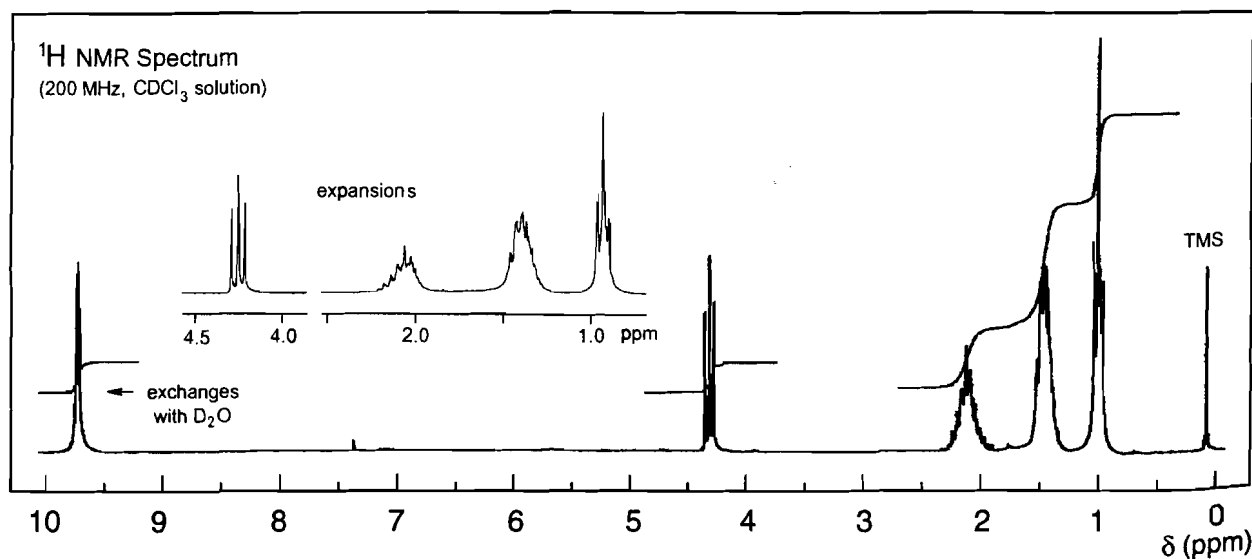
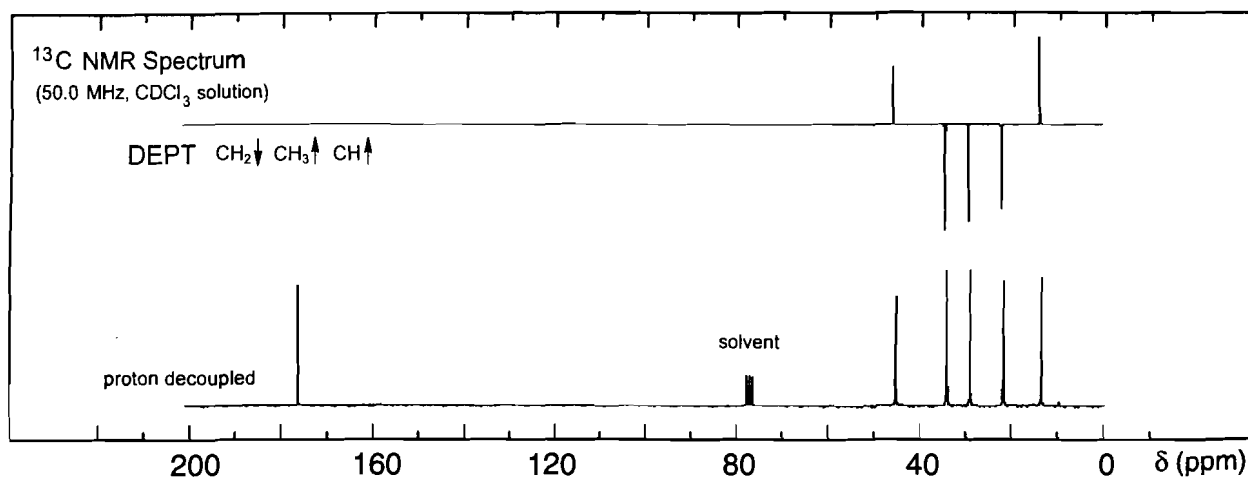
No significant UV
absorption above 220 nm



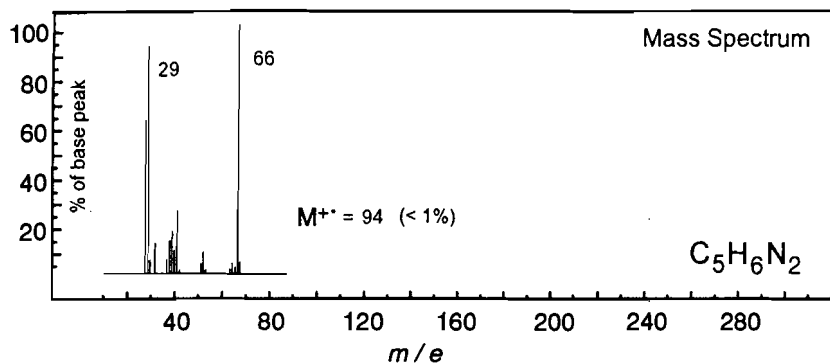
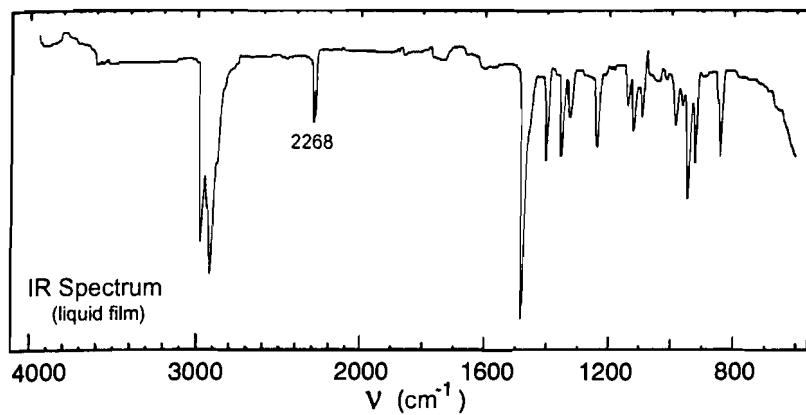
Problem 85



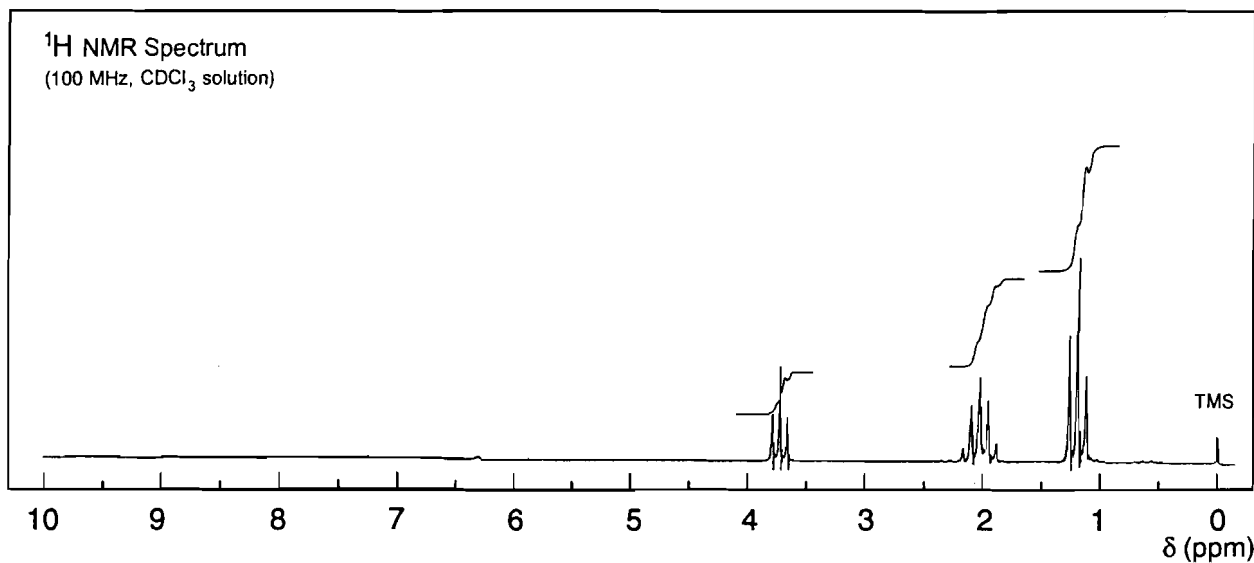
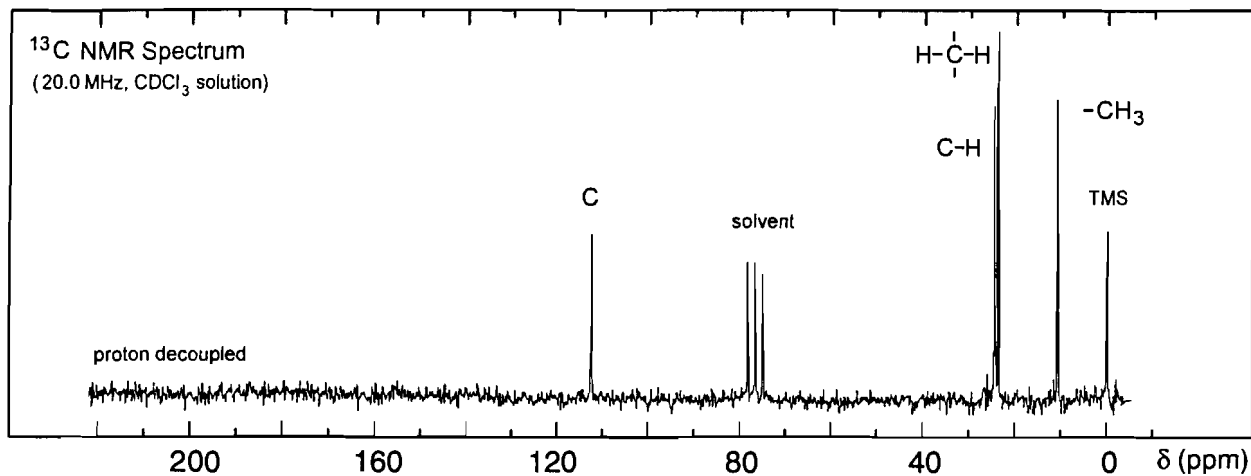
No significant UV
absorption above 220 nm



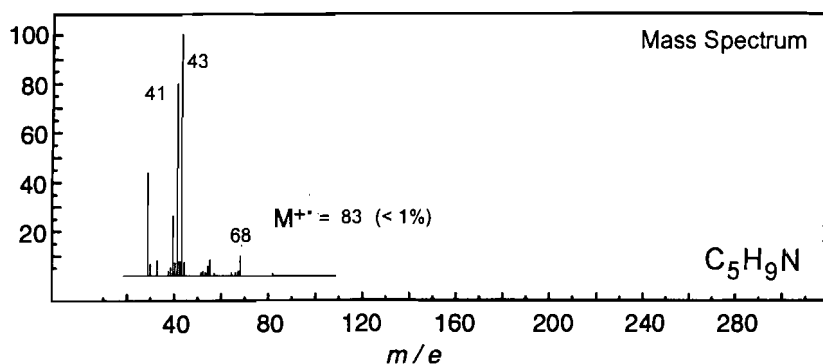
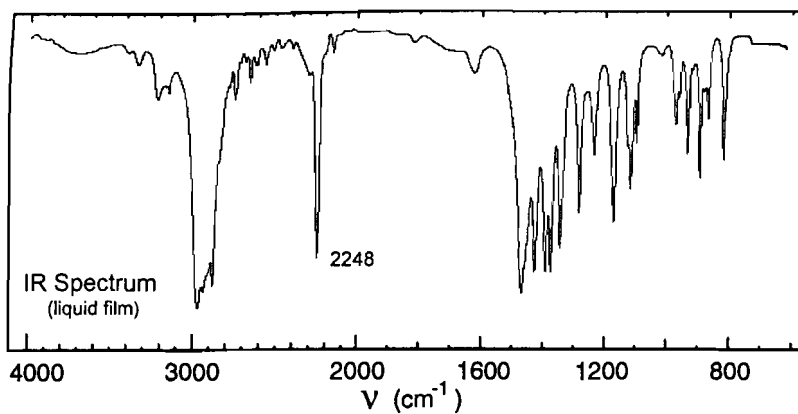
Problem 86



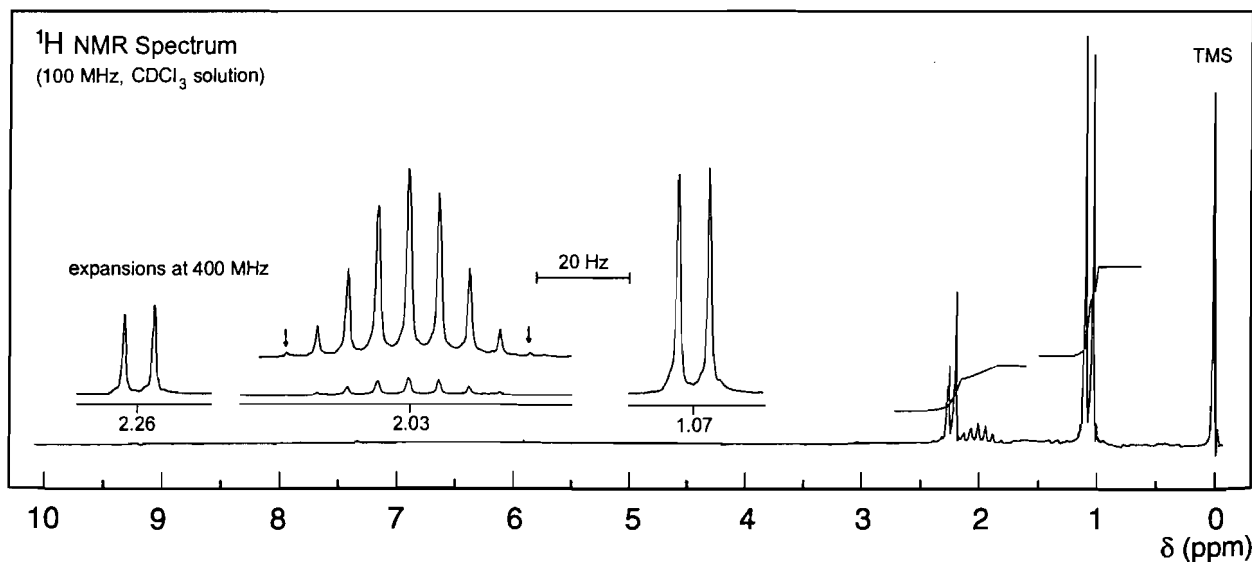
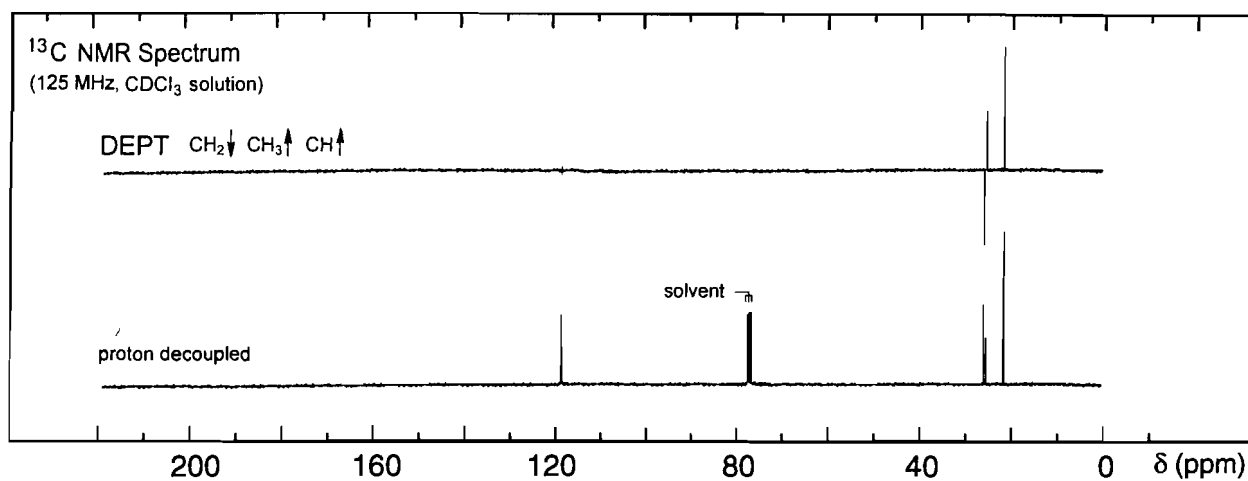
No significant UV
absorption above 220 nm



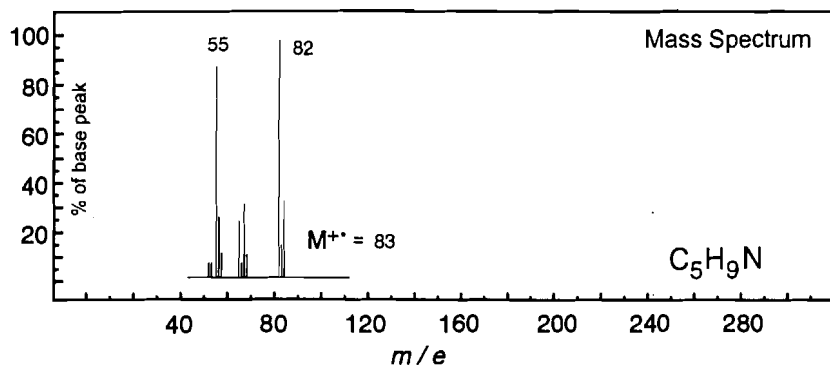
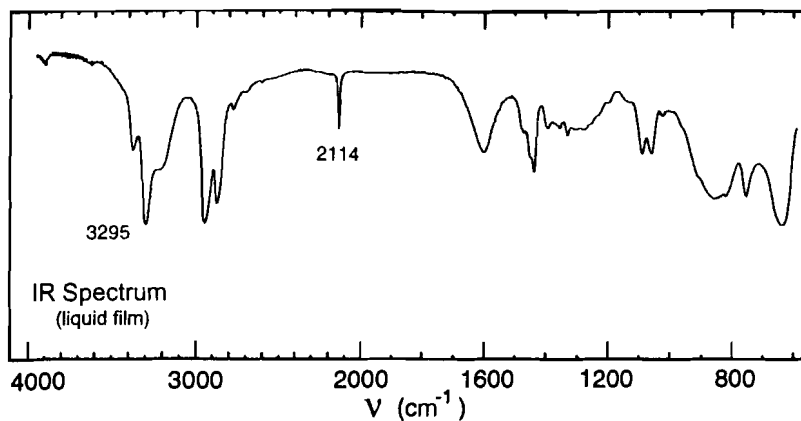
Problem 87



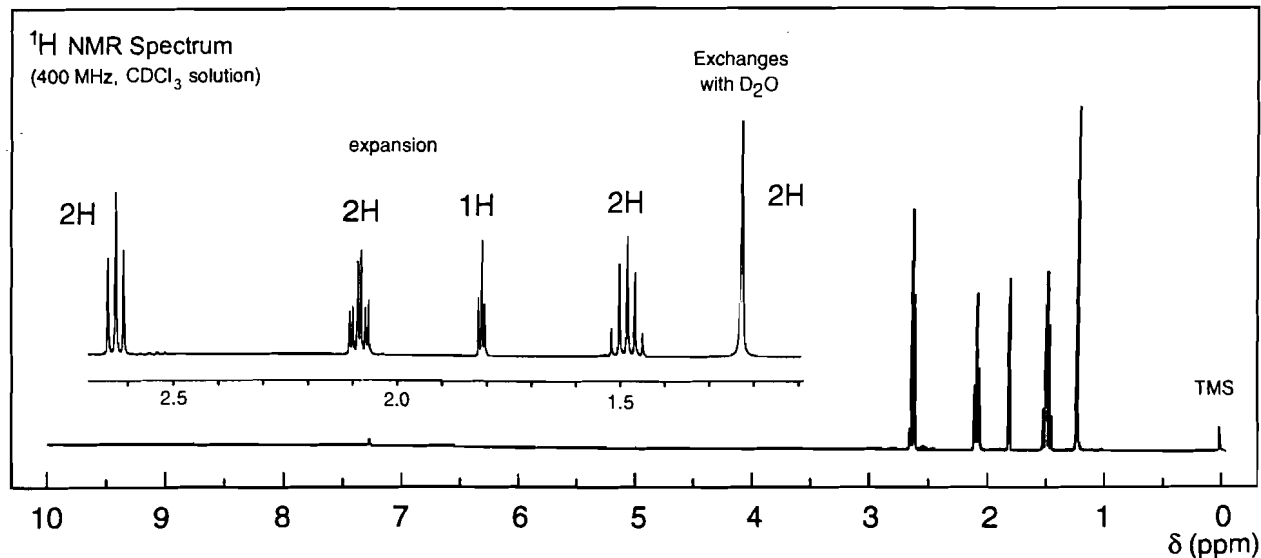
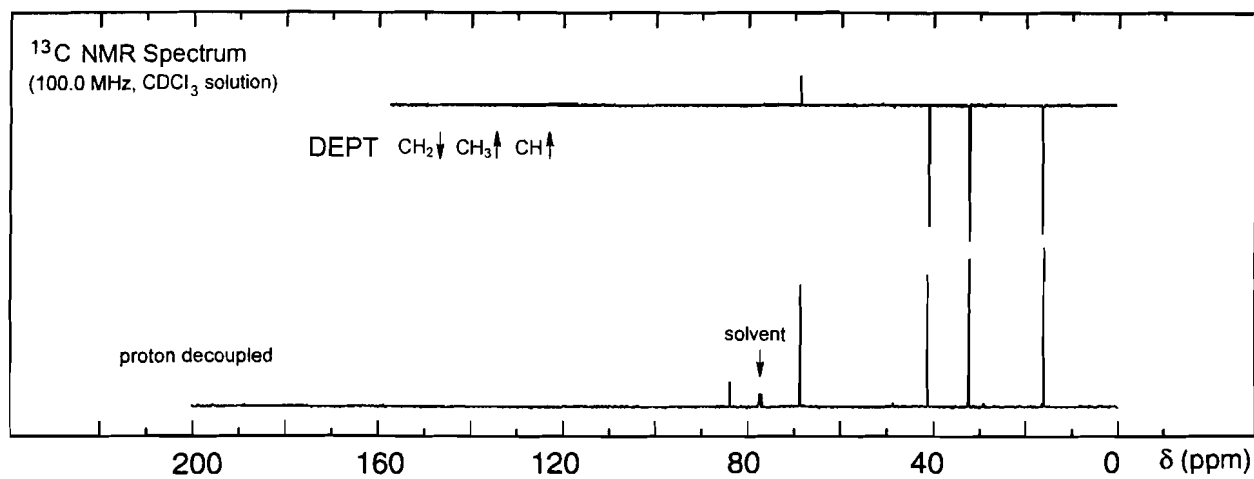
No significant UV
absorption above 220 nm



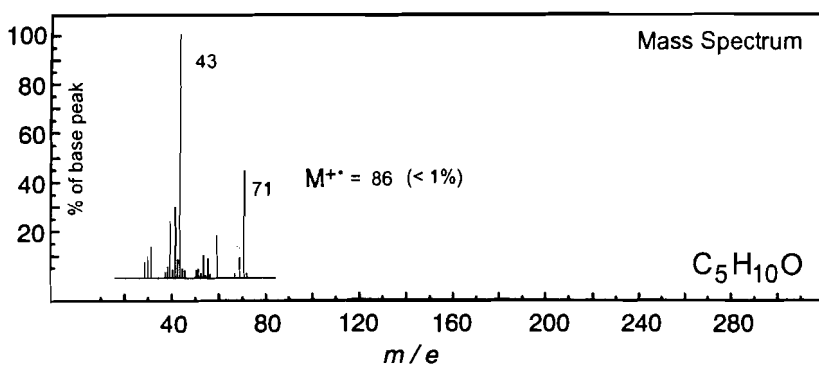
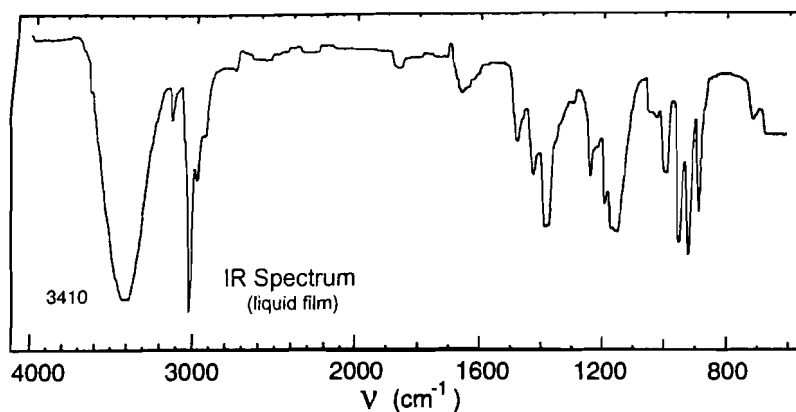
Problem 88



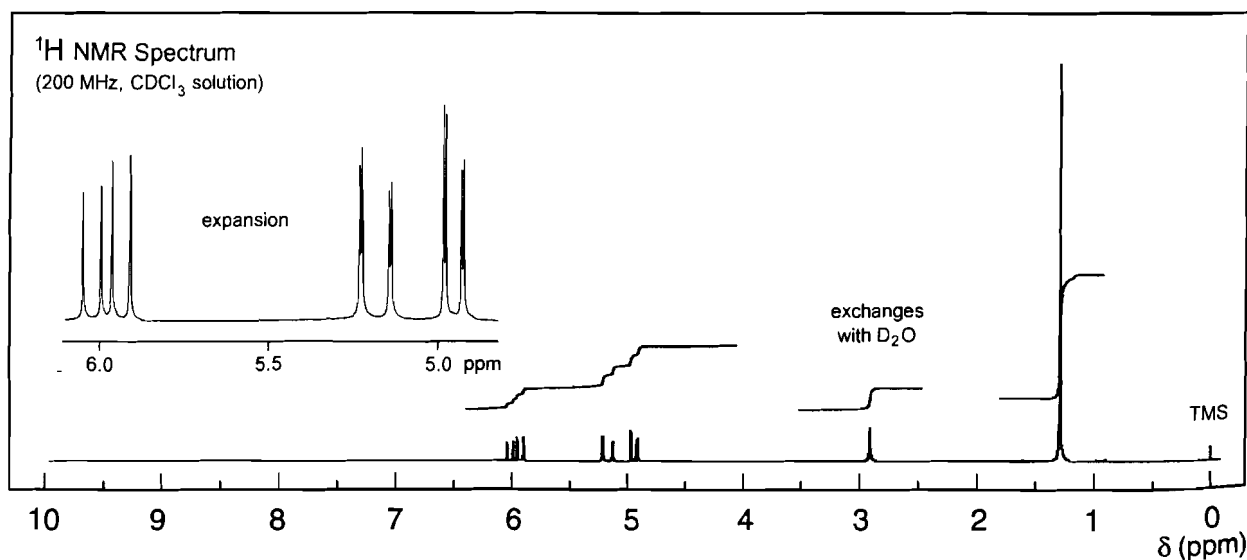
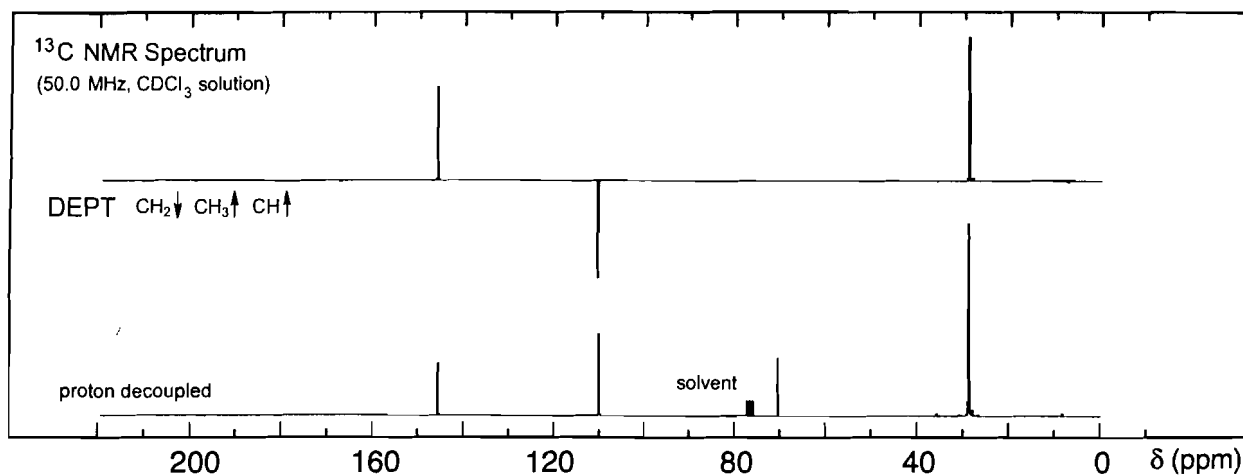
No significant UV
absorption above 220 nm



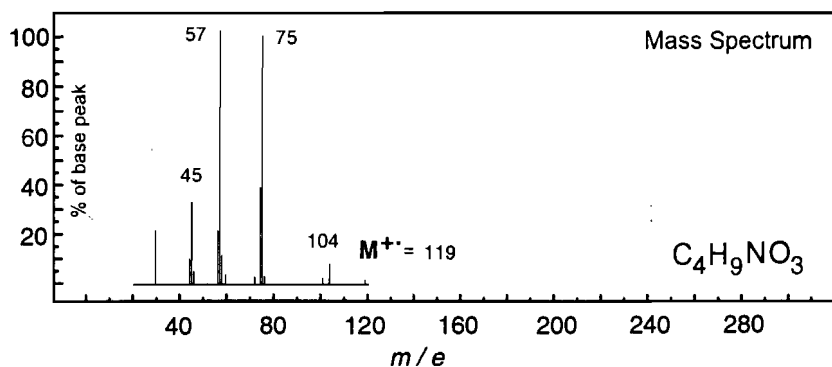
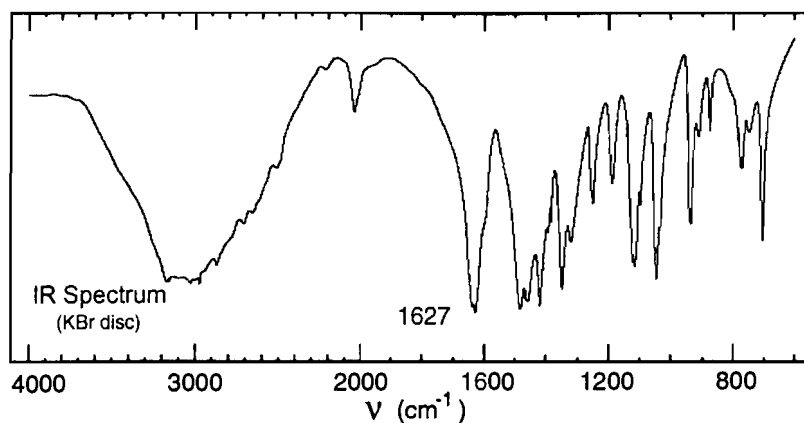
Problem 89



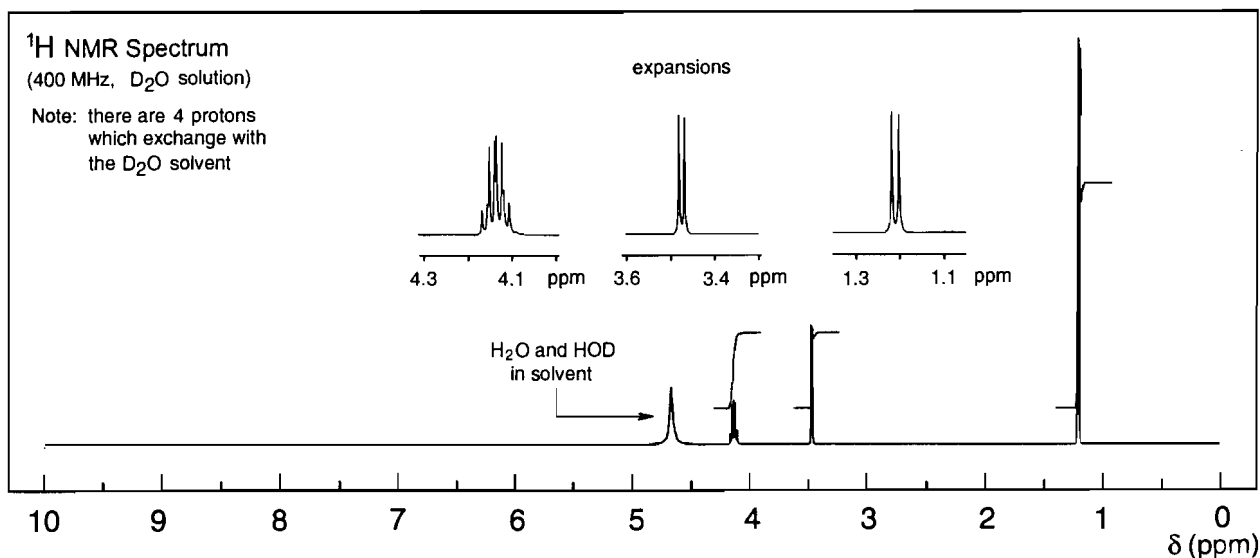
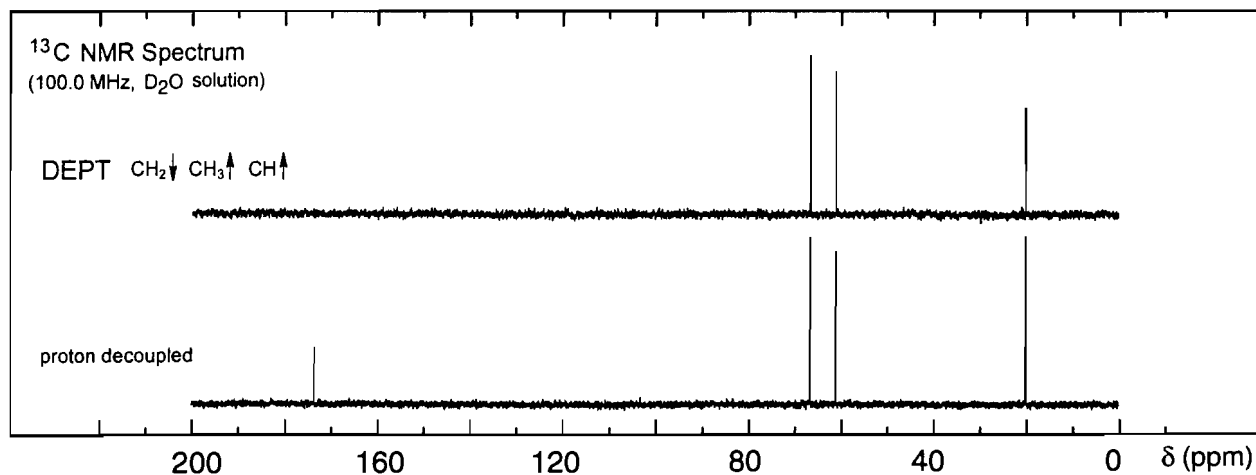
No significant UV
absorption above 220 nm



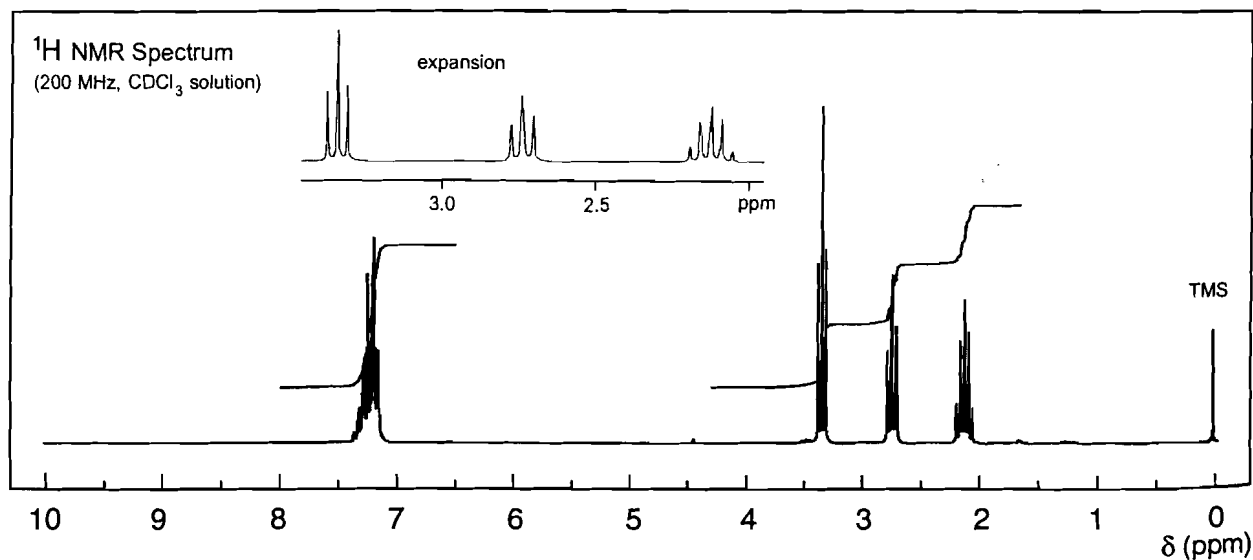
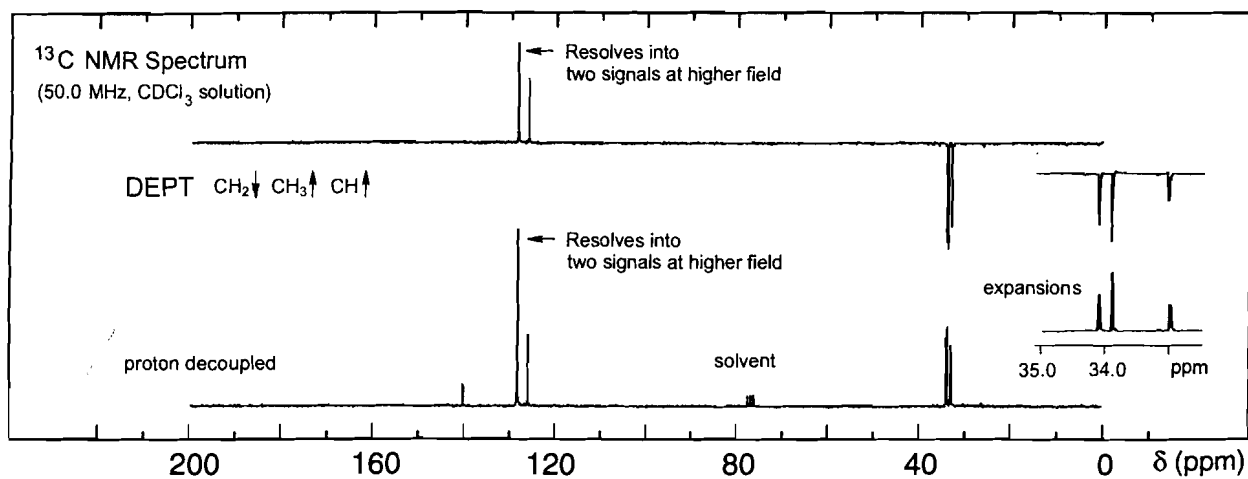
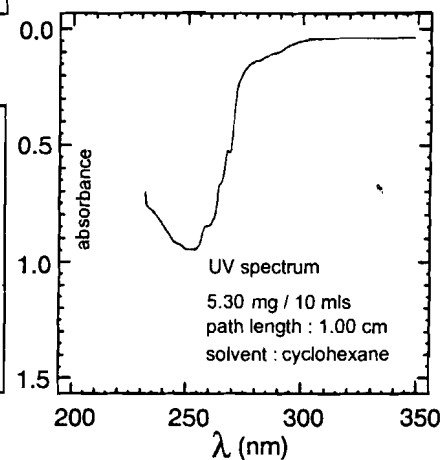
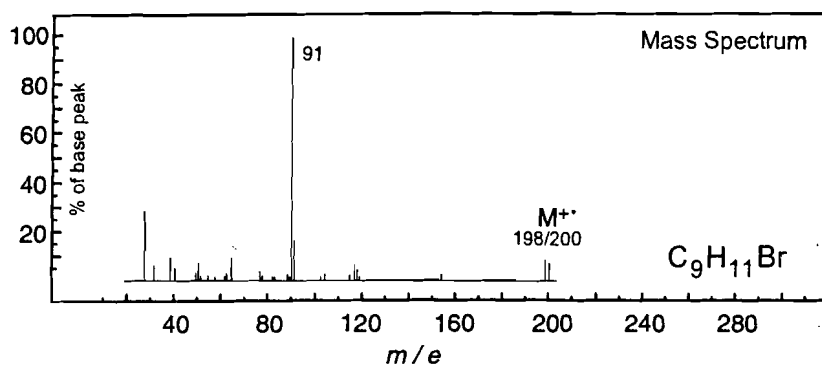
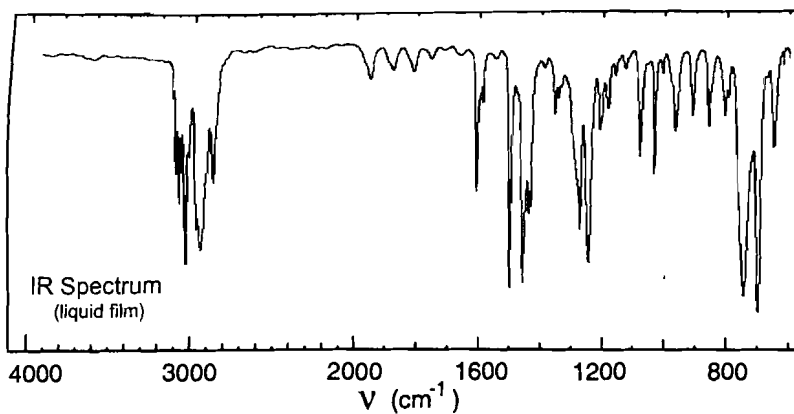
Problem 90



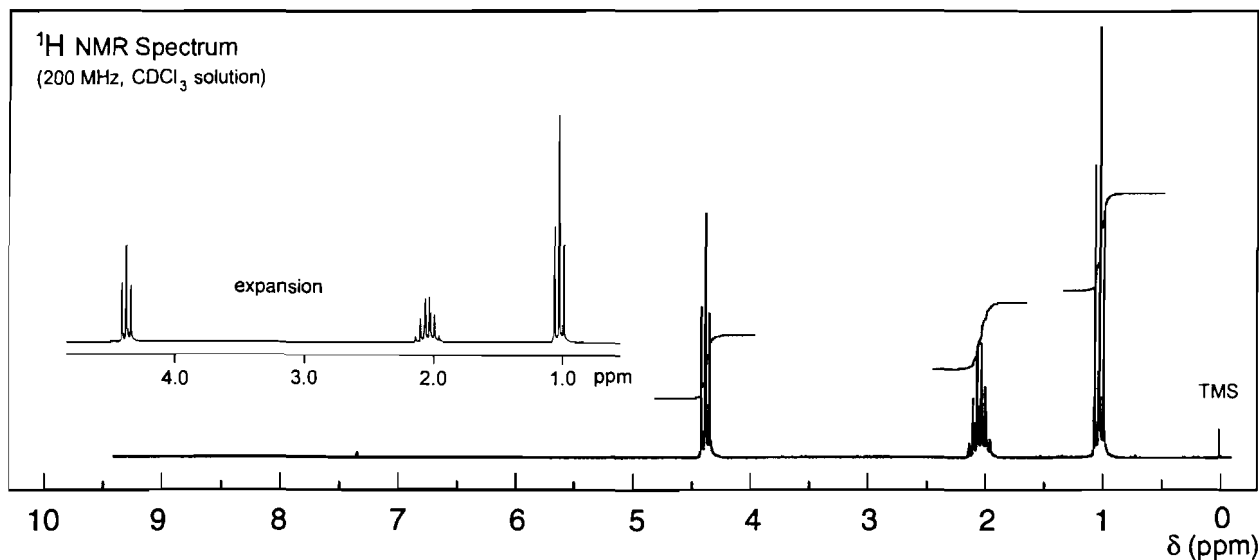
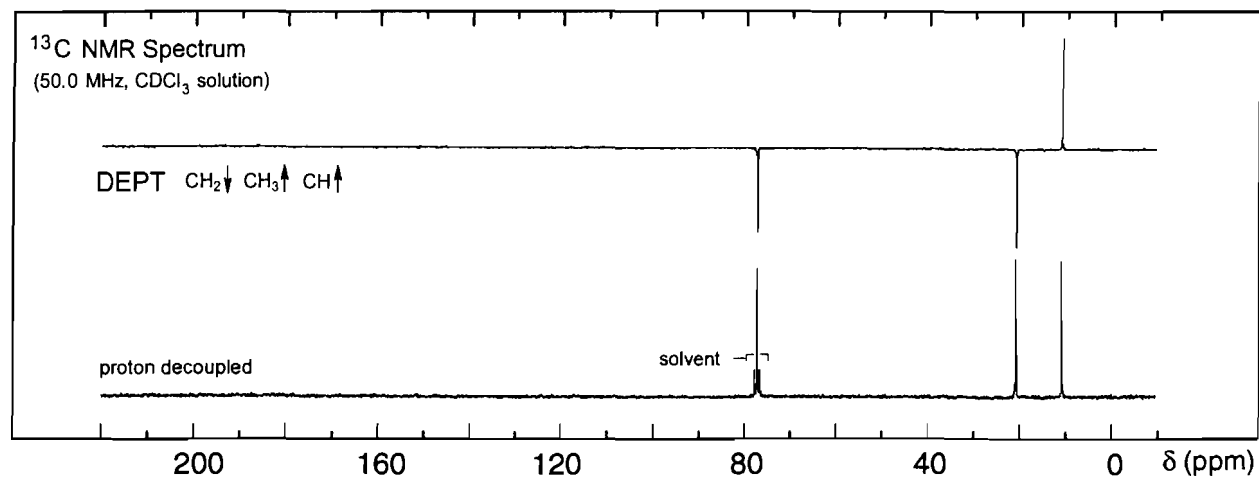
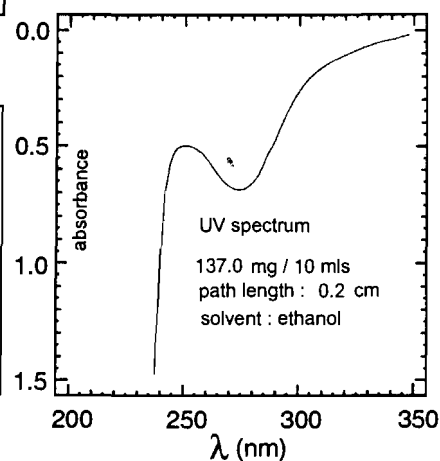
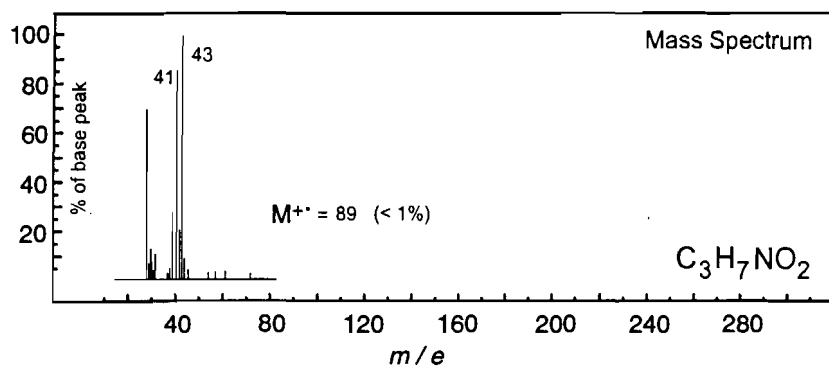
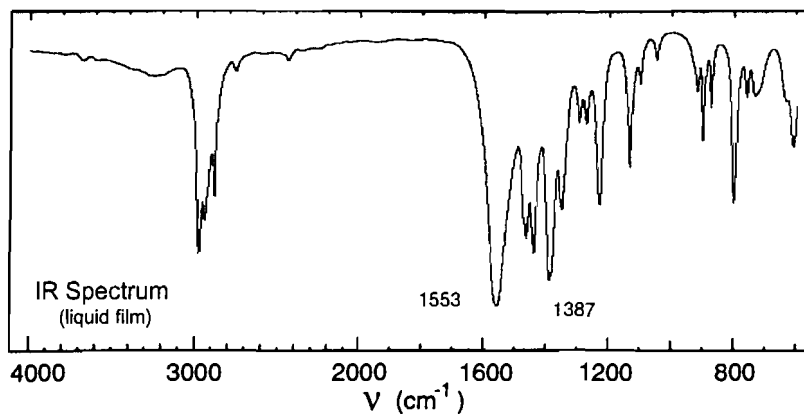
No significant UV
absorption above 220 nm



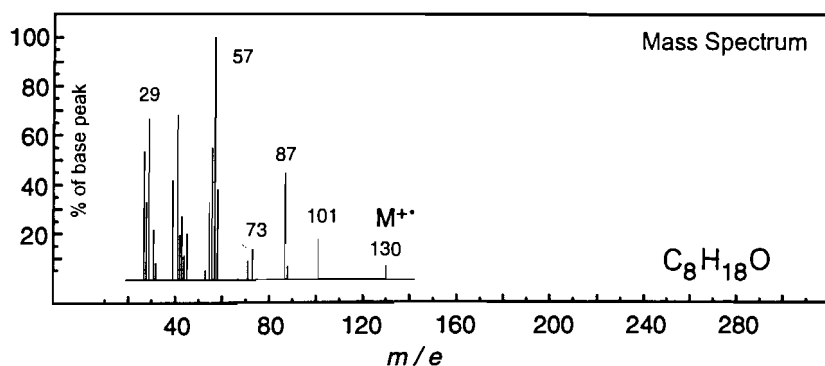
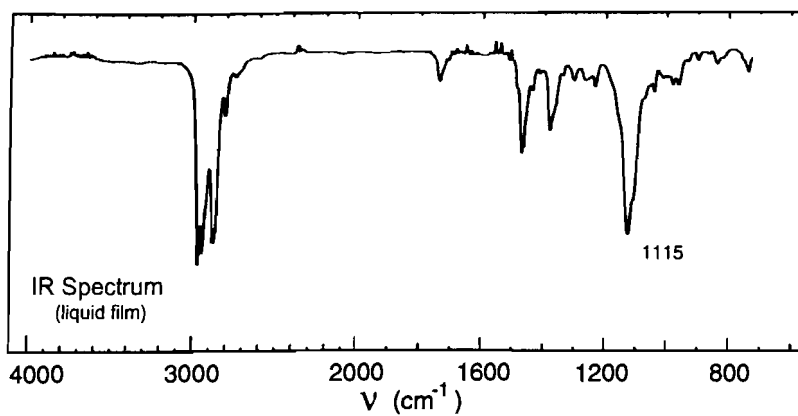
Problem 91



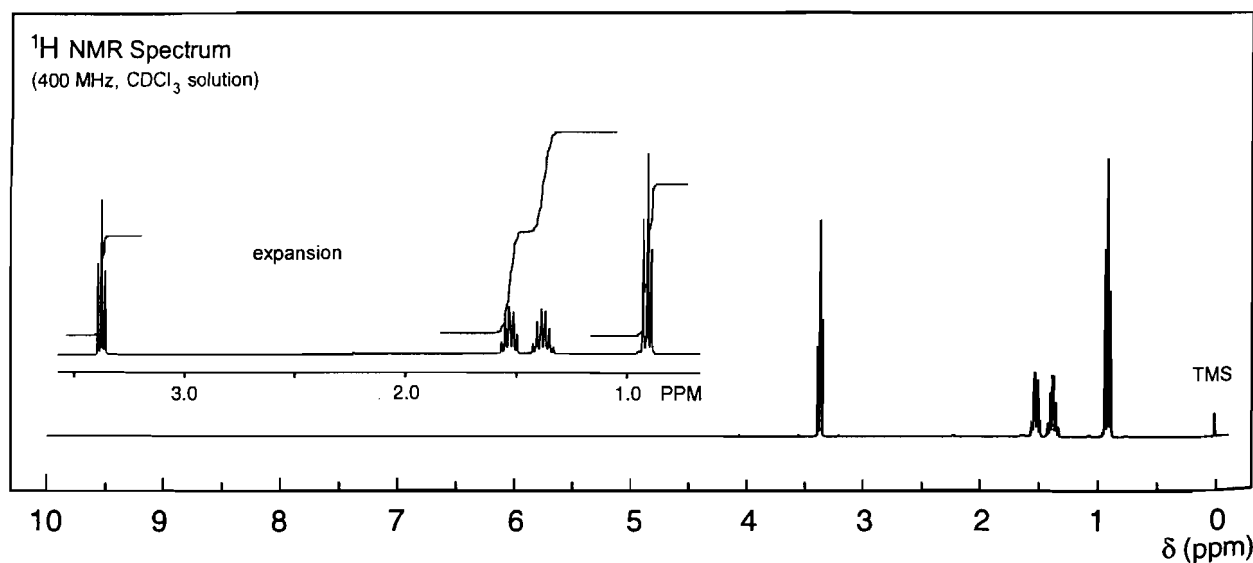
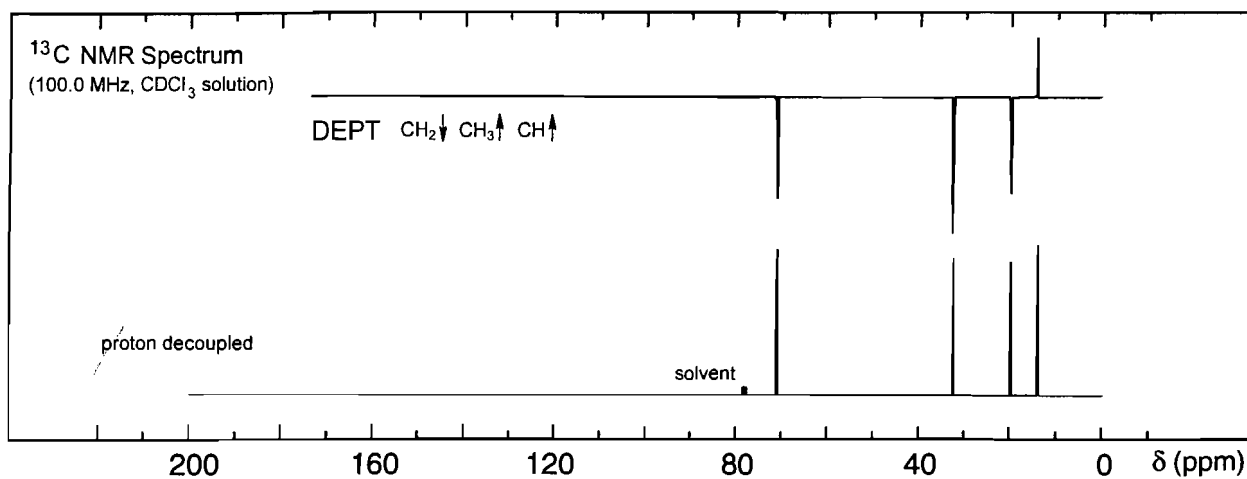
Problem 92



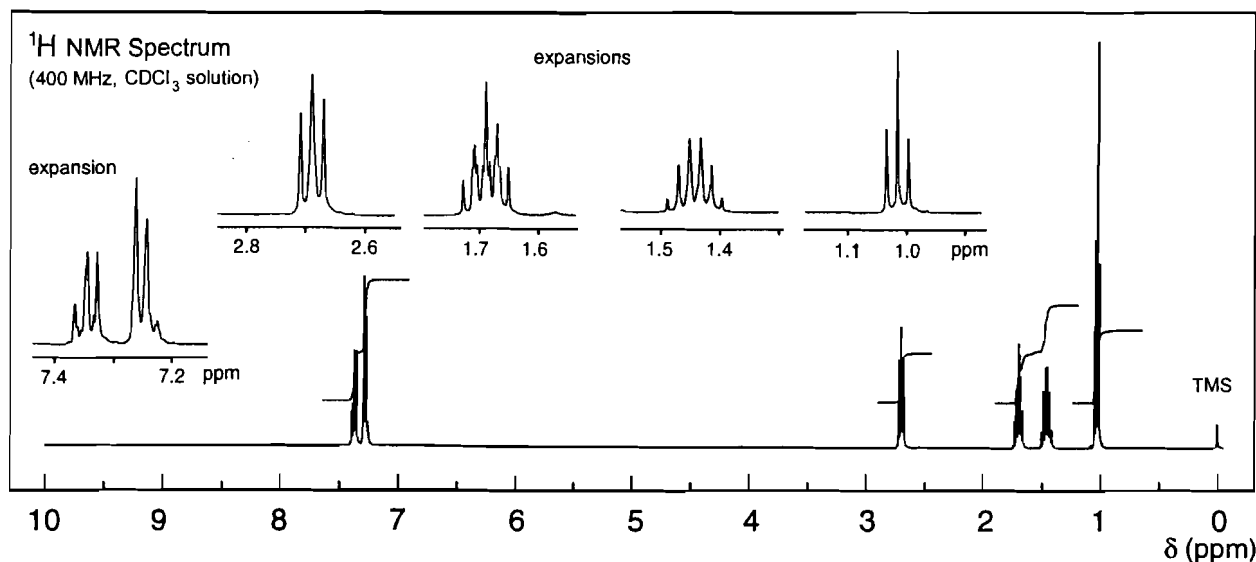
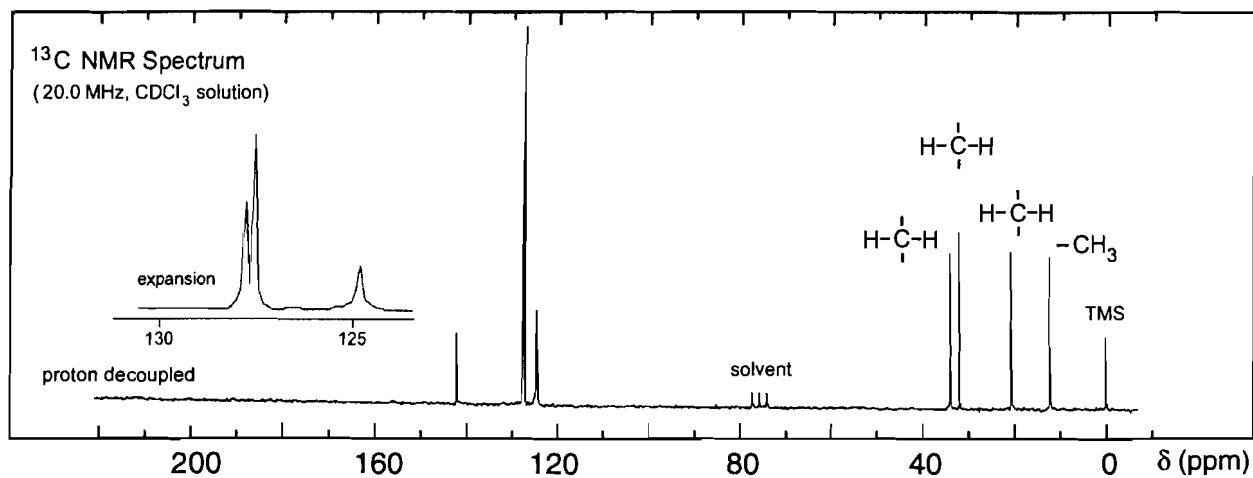
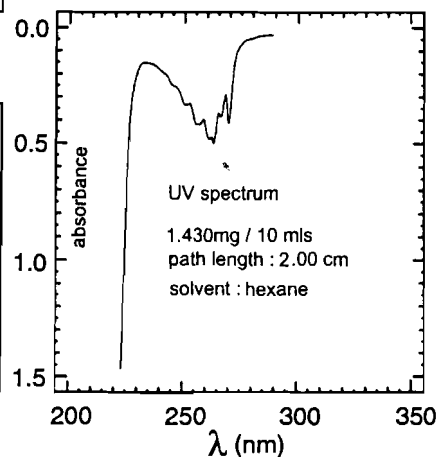
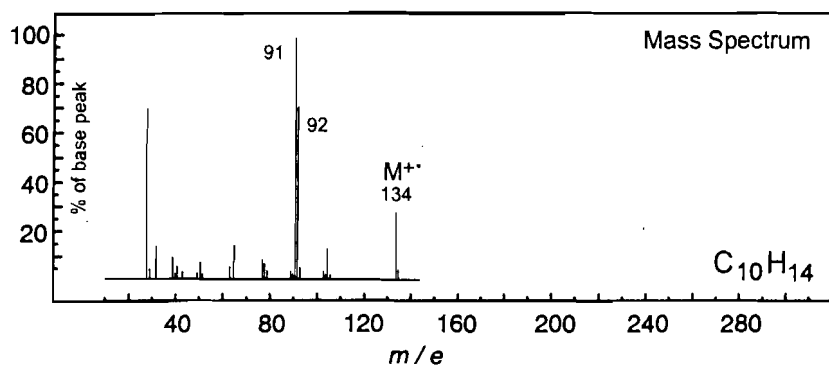
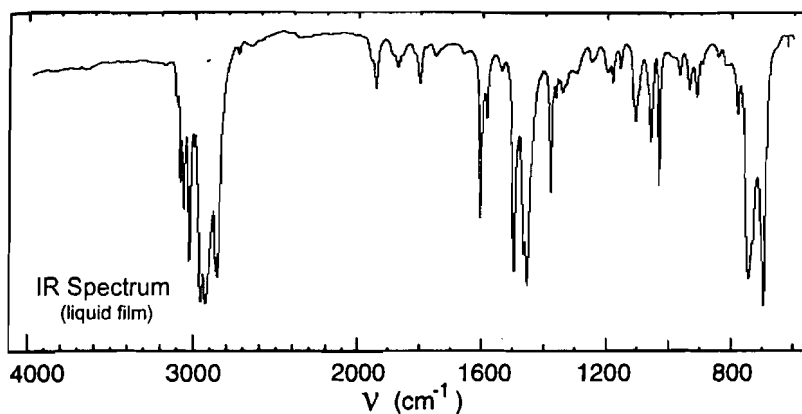
Problem 93



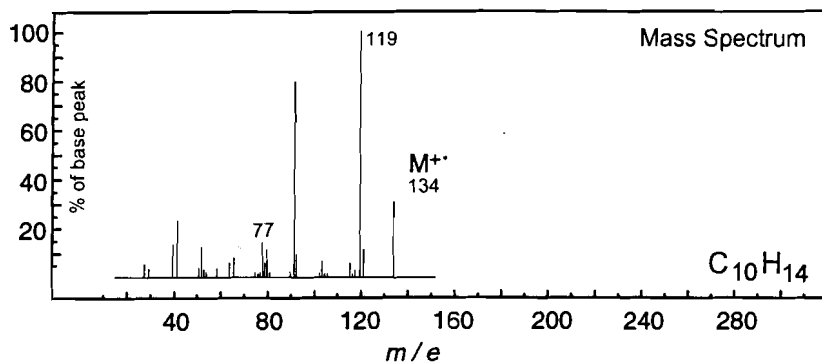
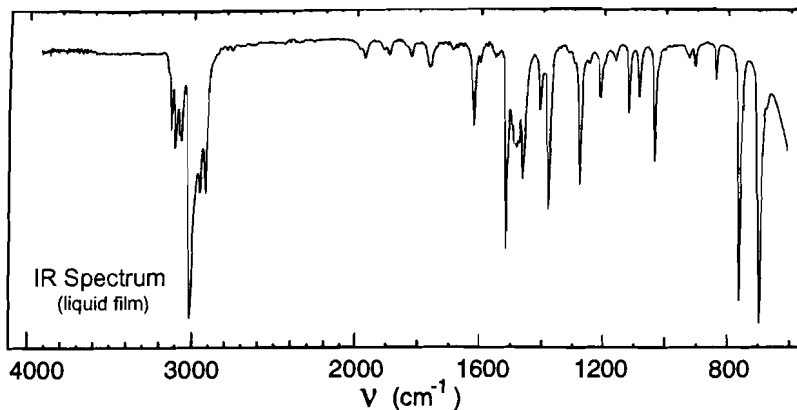
No significant UV
absorption above 220 nm



Problem 94



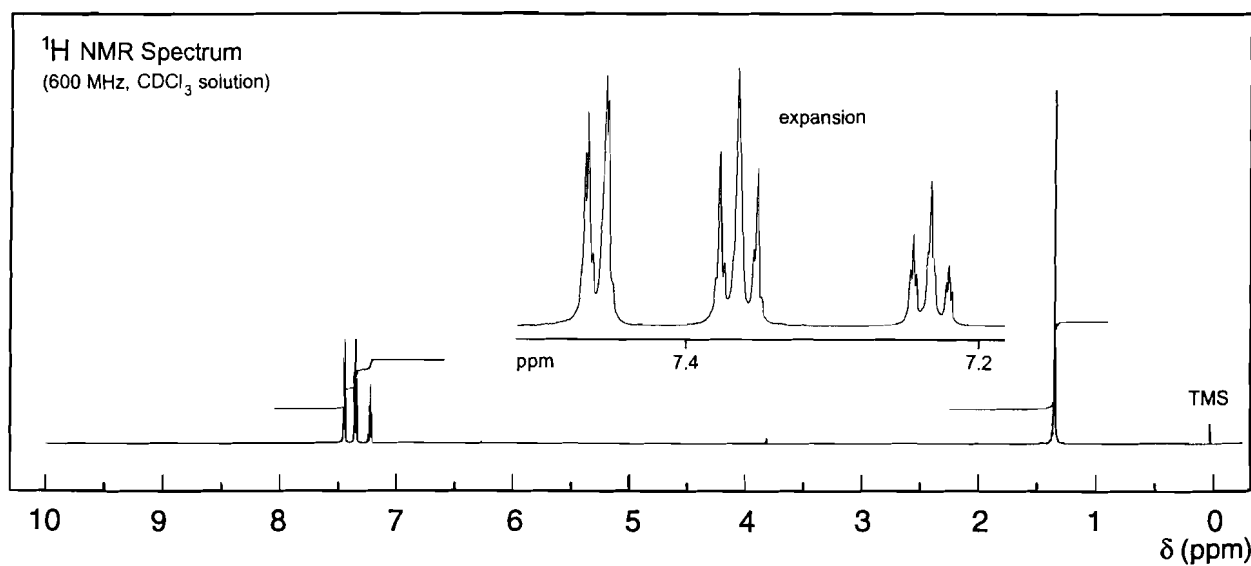
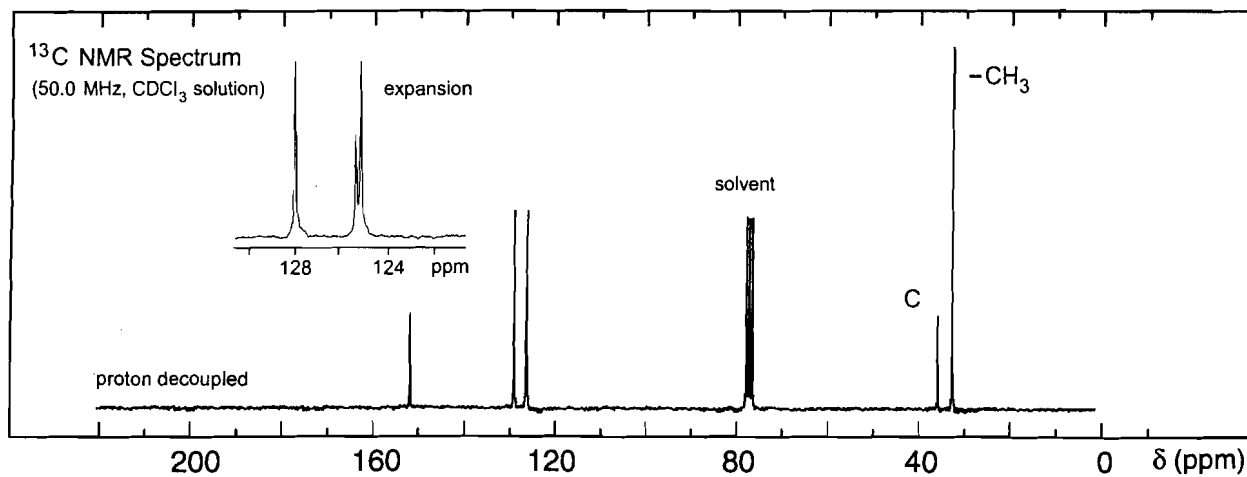
Problem 95



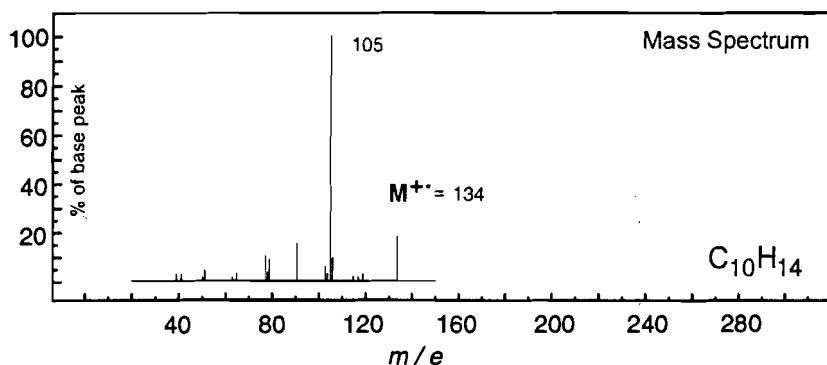
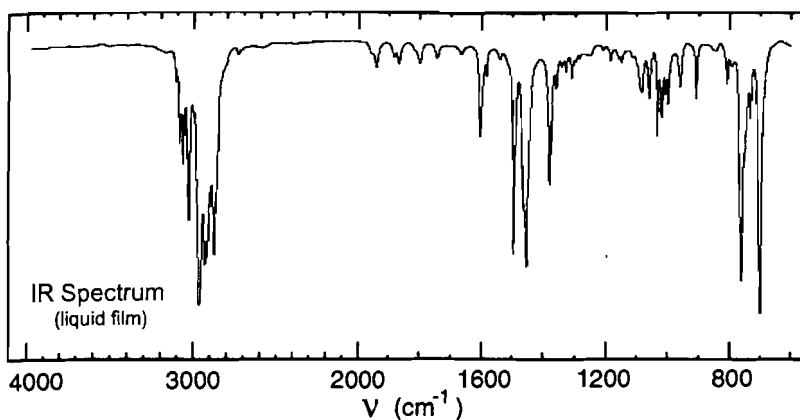
UV Spectrum

λ_{max} 262 nm ($\log_{10} \epsilon$ 2.5)

solvent: ethanol

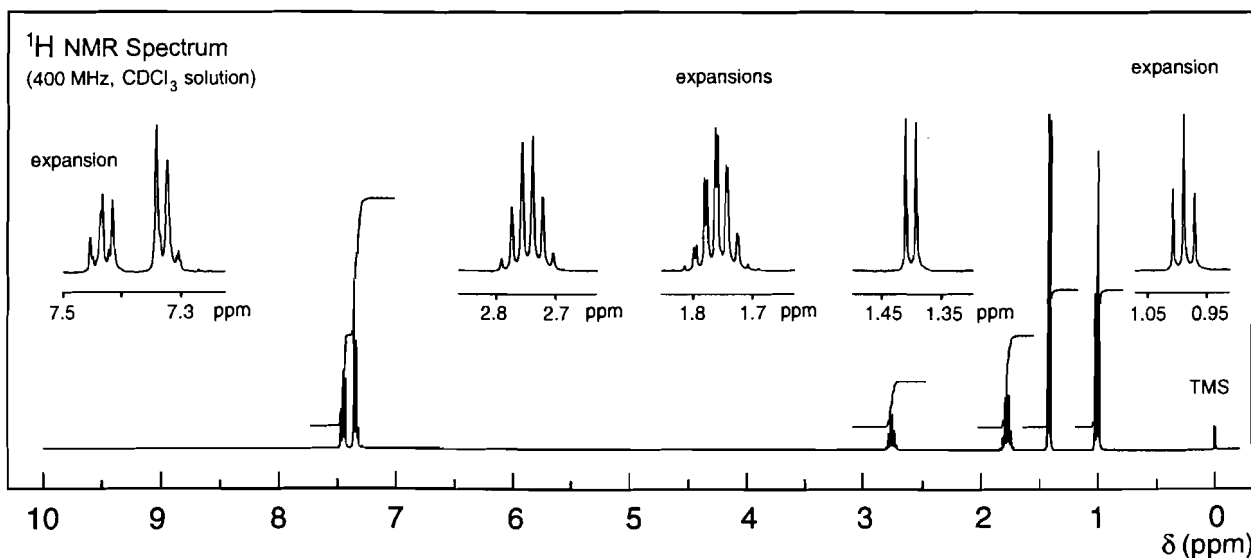
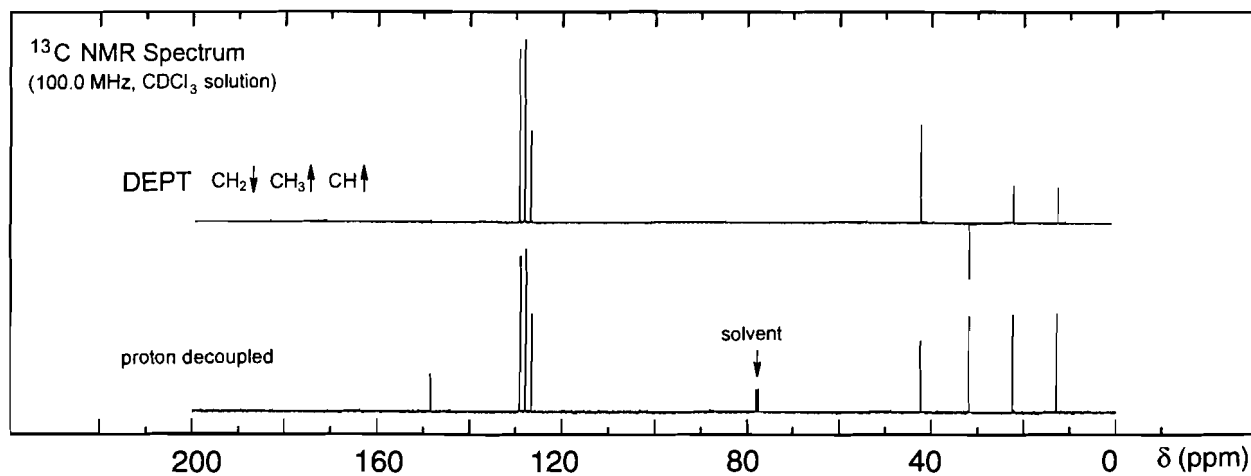


Problem 96

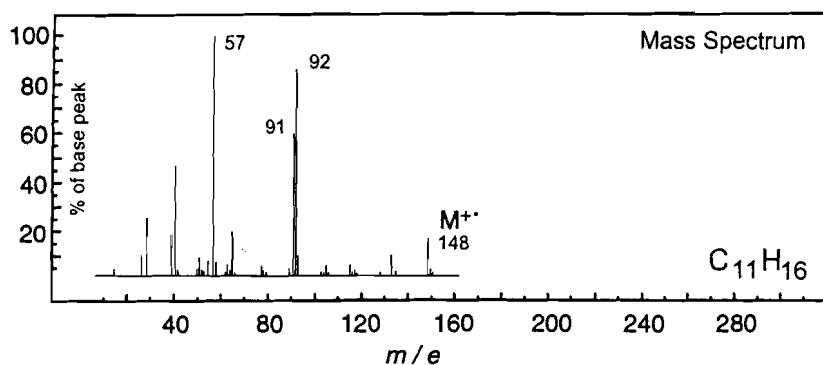
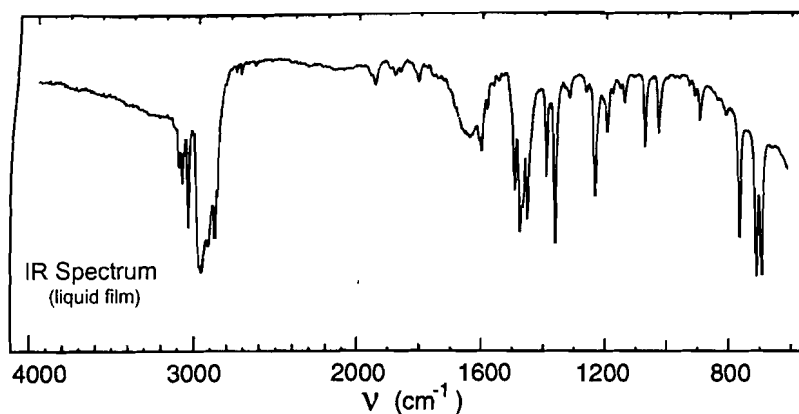


UV Spectrum

$$\lambda_{\max} \approx 260 \text{ nm } (\log_{10} \epsilon \approx 2.5)$$



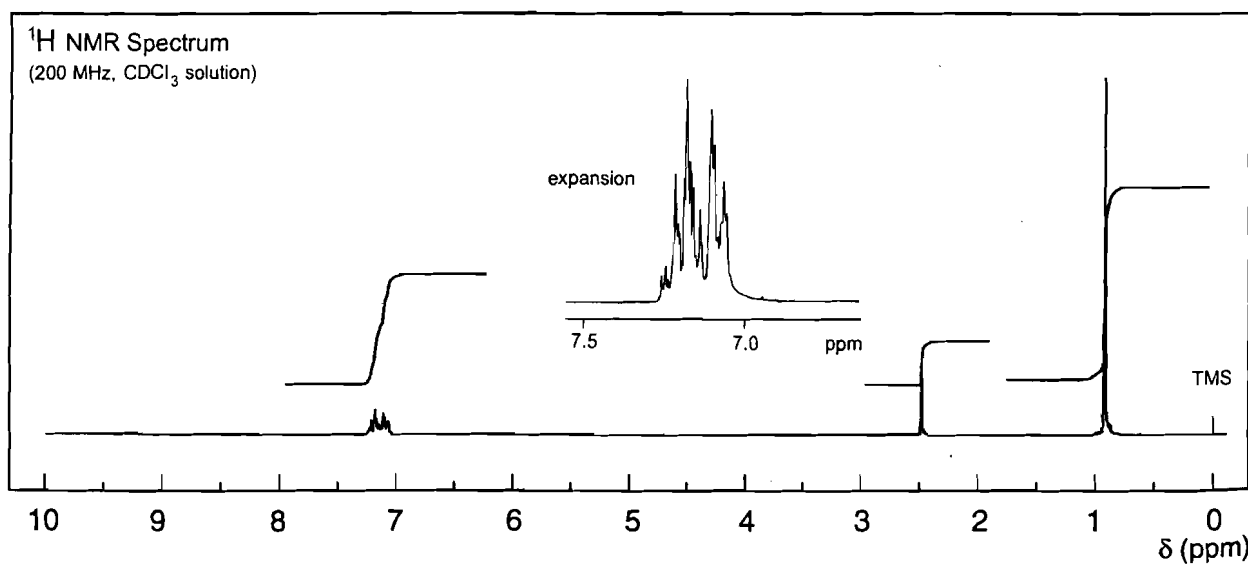
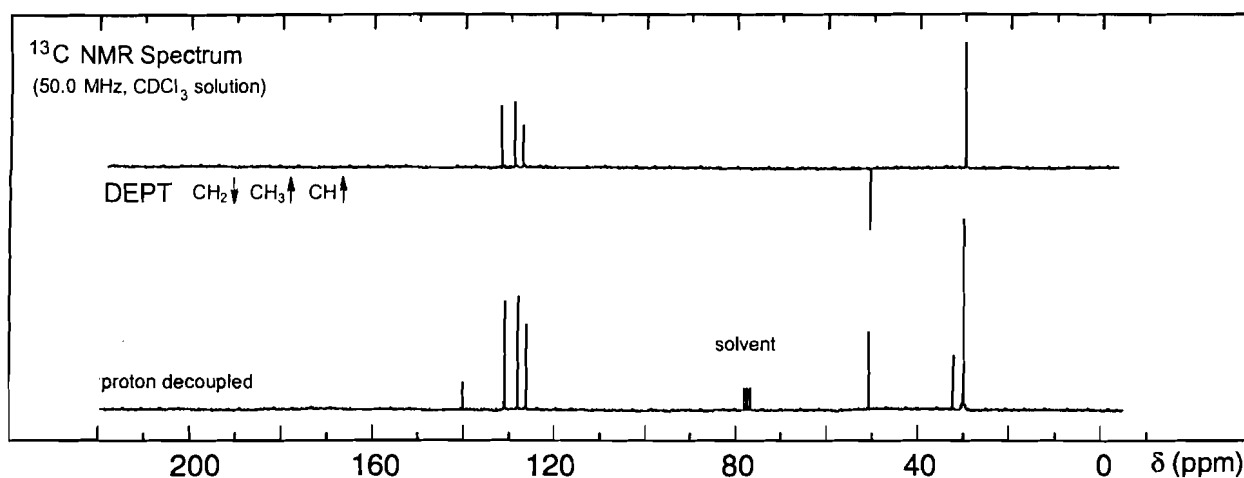
Problem 97



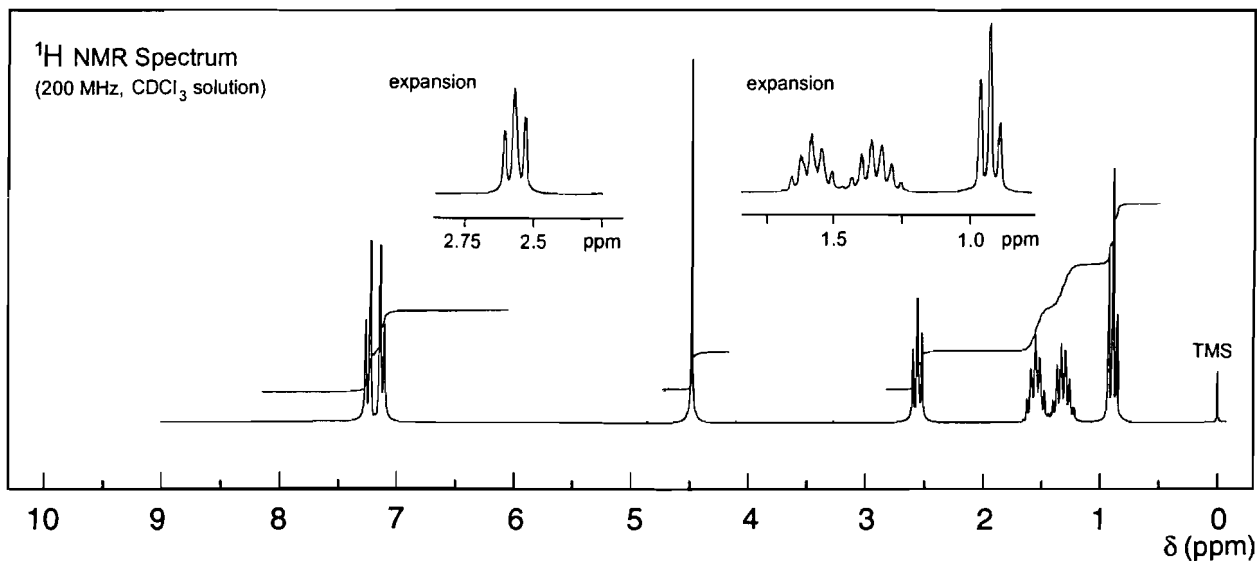
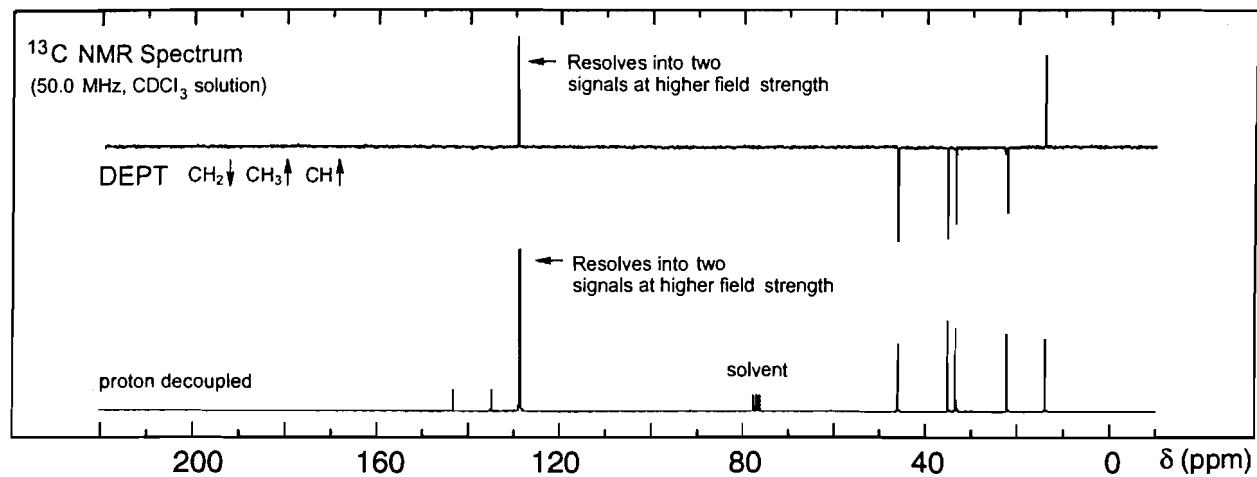
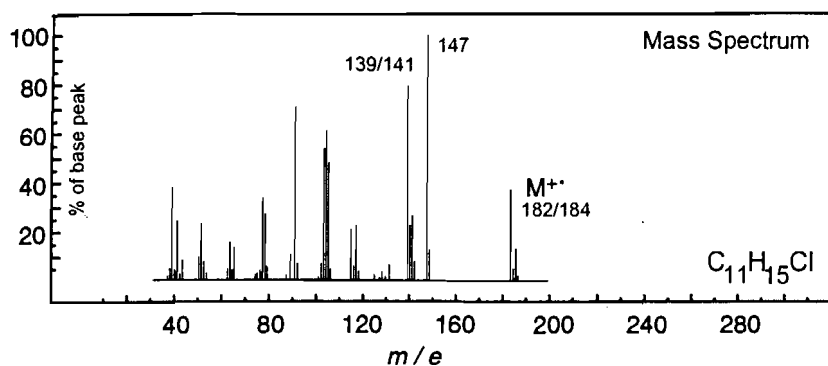
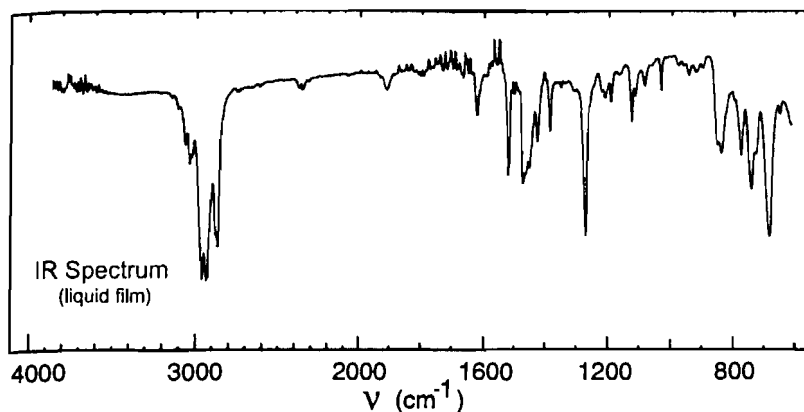
UV Spectrum

λ_{max} 260 nm ($\log_{10} \epsilon$ 2.5)

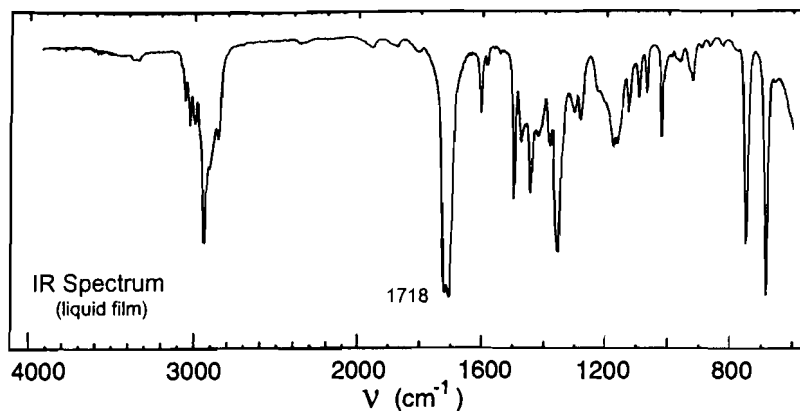
solvent : methanol



Problem 98



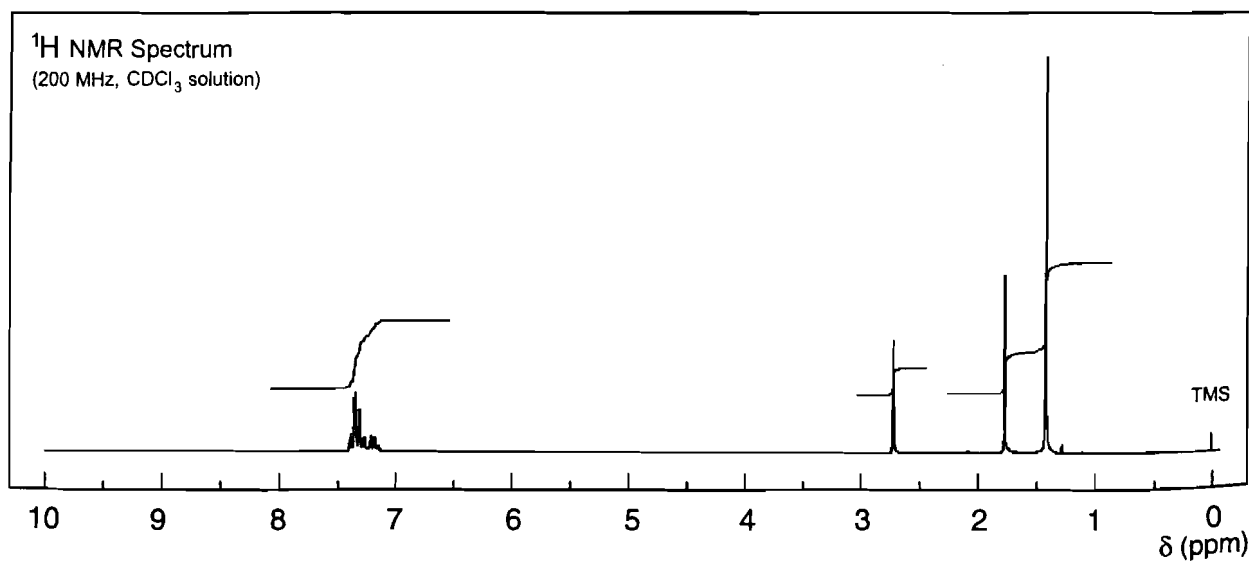
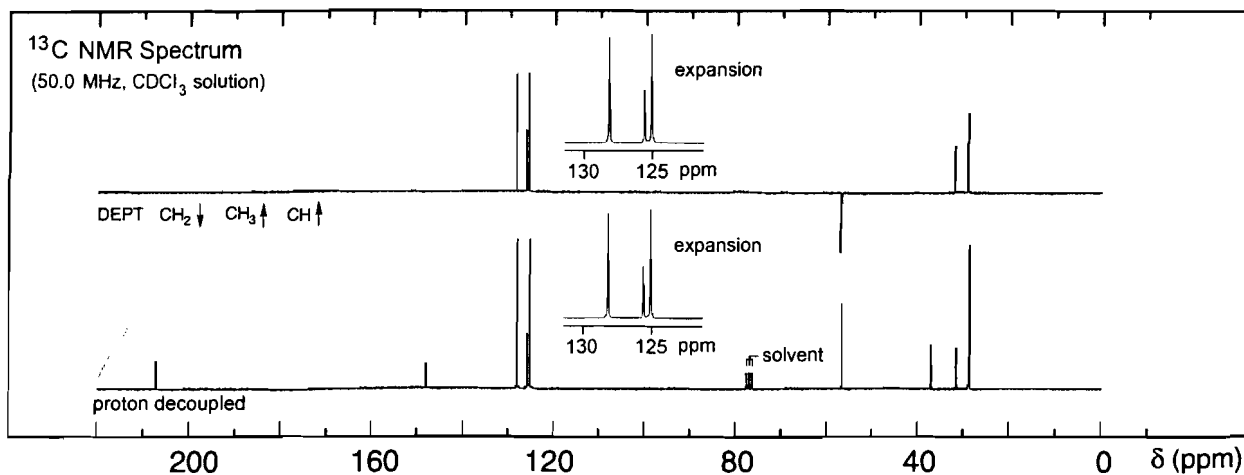
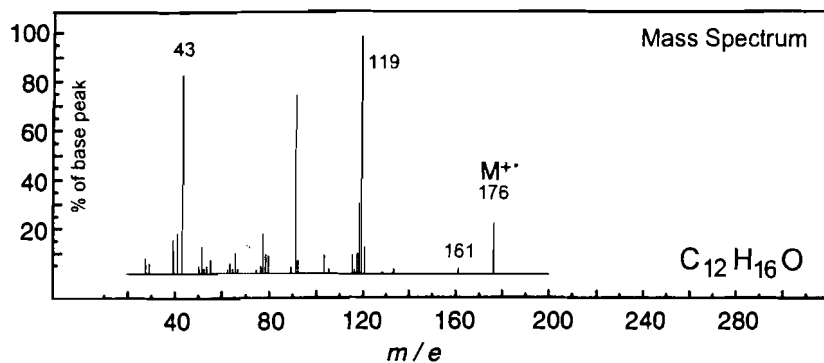
Problem 99



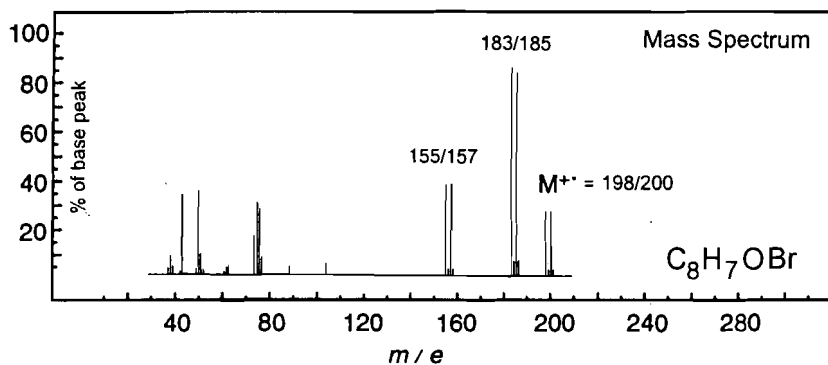
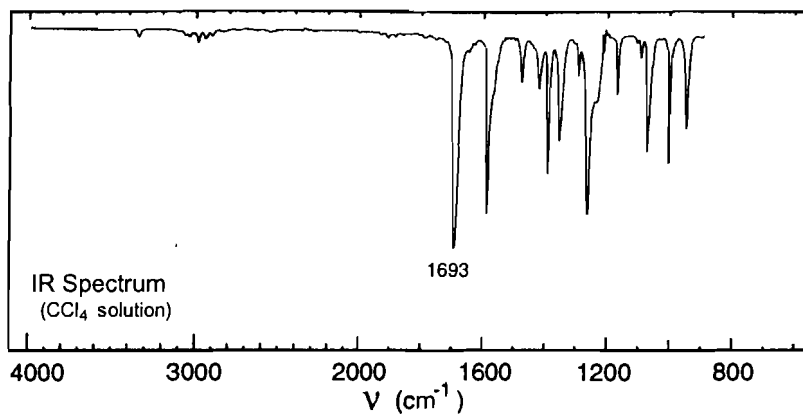
UV Spectrum

λ_{max} 262 nm ($\log_{10} \epsilon$ 2.5)

solvent : methanol



Problem 100



UV Spectrum

$\lambda_{\max} 258 \text{ nm (log}_{10} \epsilon 4.2)$

solvent: ethanol

