

Efficient microwave assisted regioselective one pot direct ortho-formylation of phenol derivatives in the presence of MgO nano crystallines as solid base catalyst under solvent free conditions

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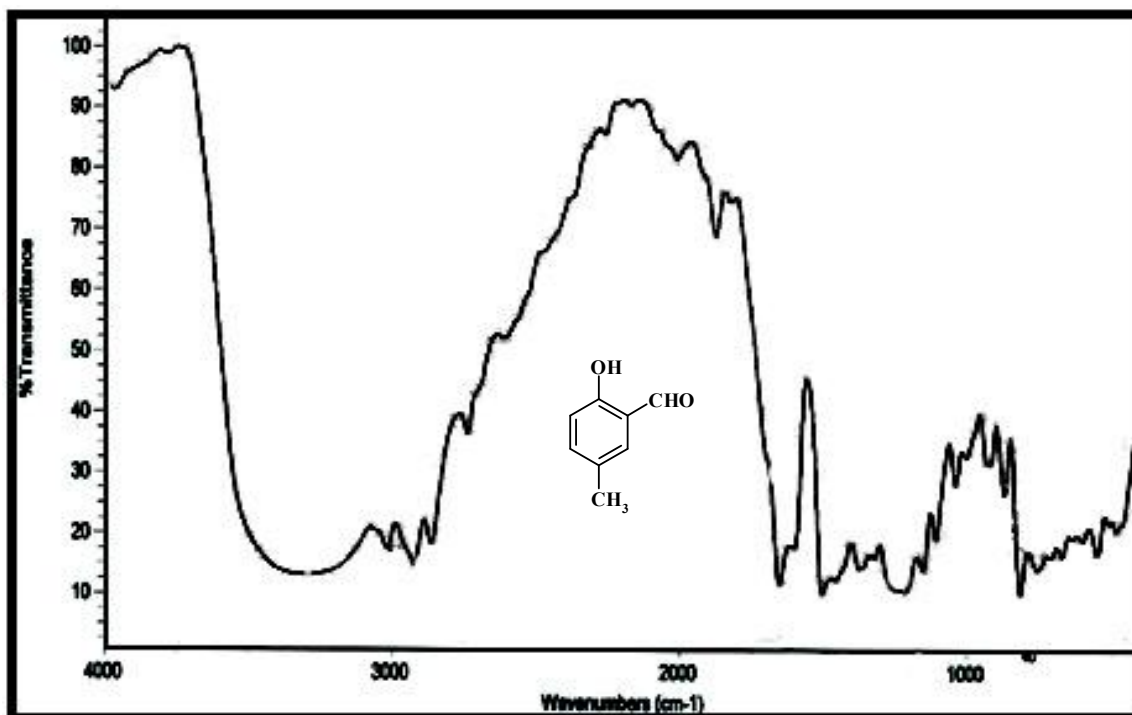
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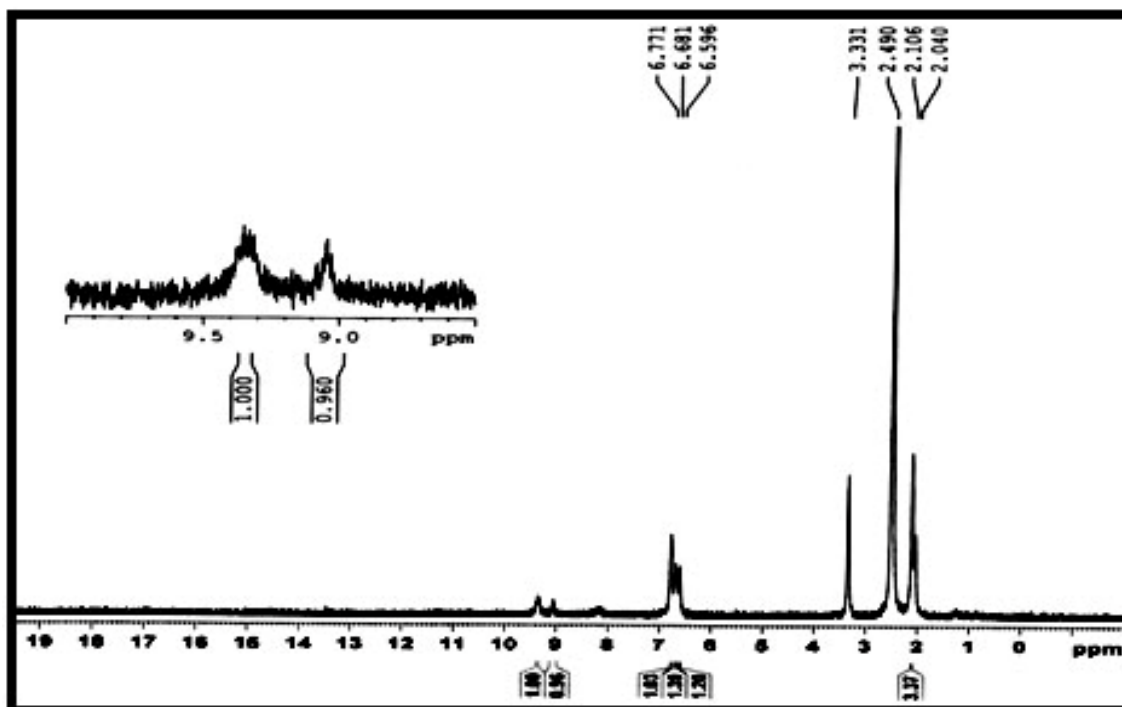
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Spectra of 2-hydroxy-5-methyl benzaldehyde

FT IR

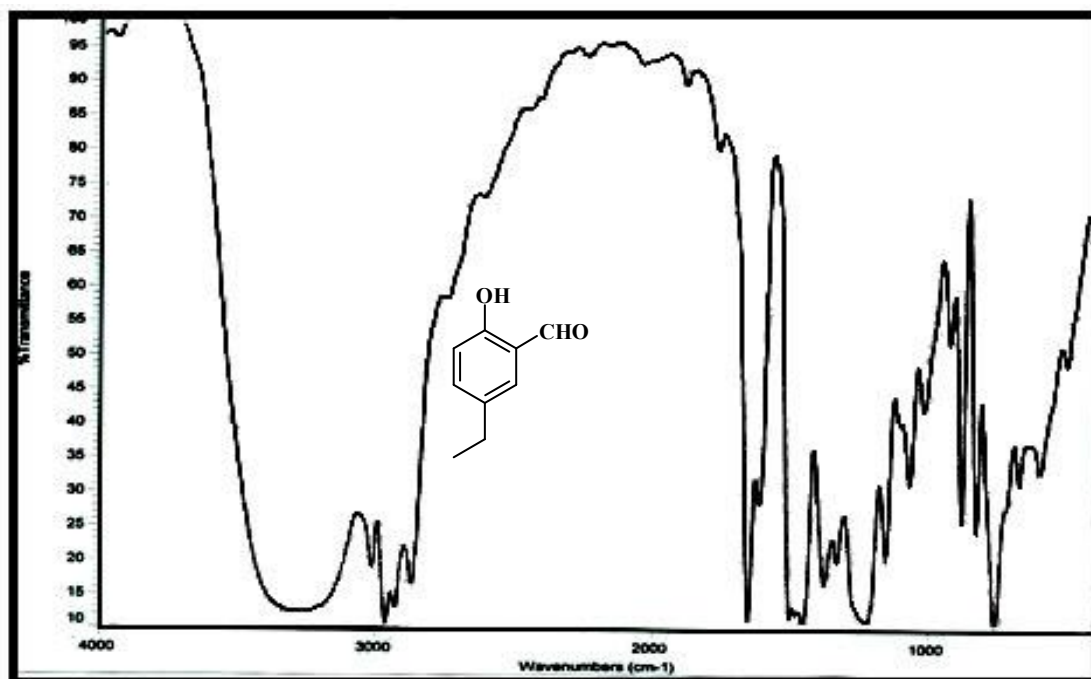


$^1\text{H NMR}$

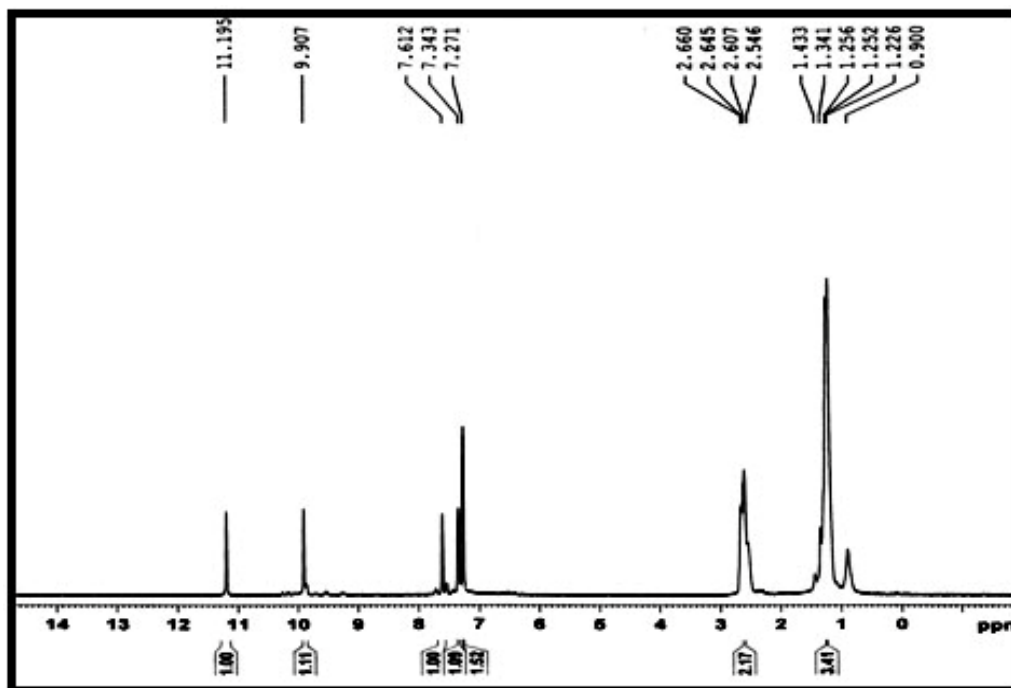


Spectra of 2-hydroxy 5-ethyl benzaldehyde

FT IR

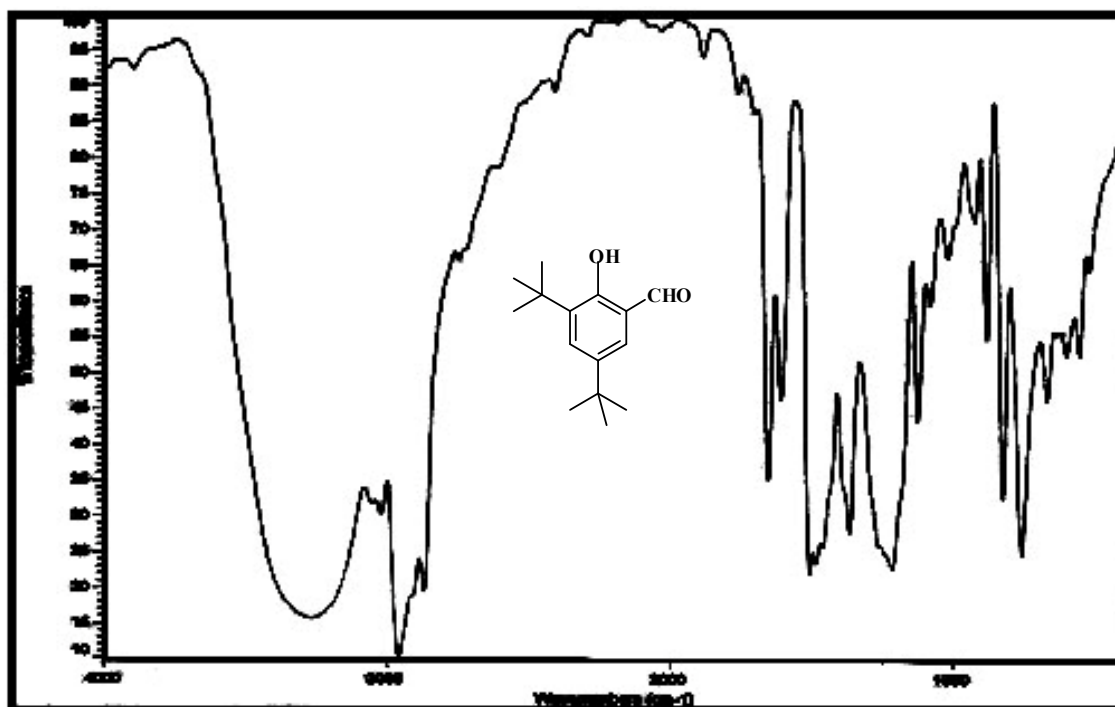


$^1\text{H NMR}$

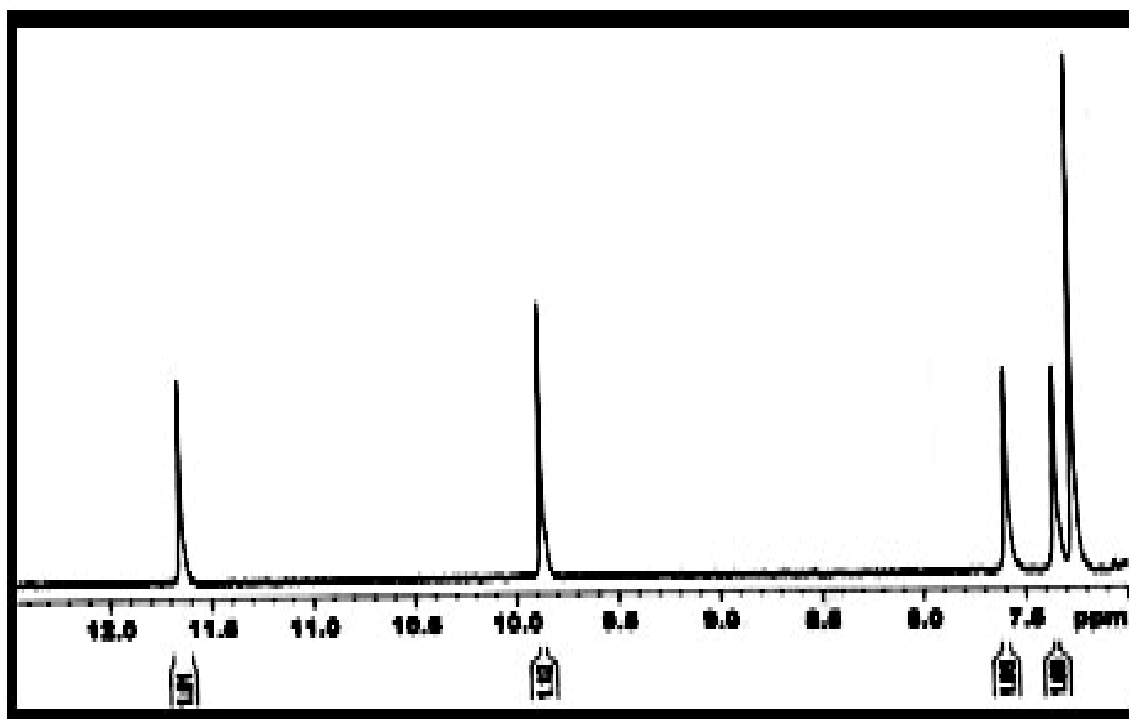
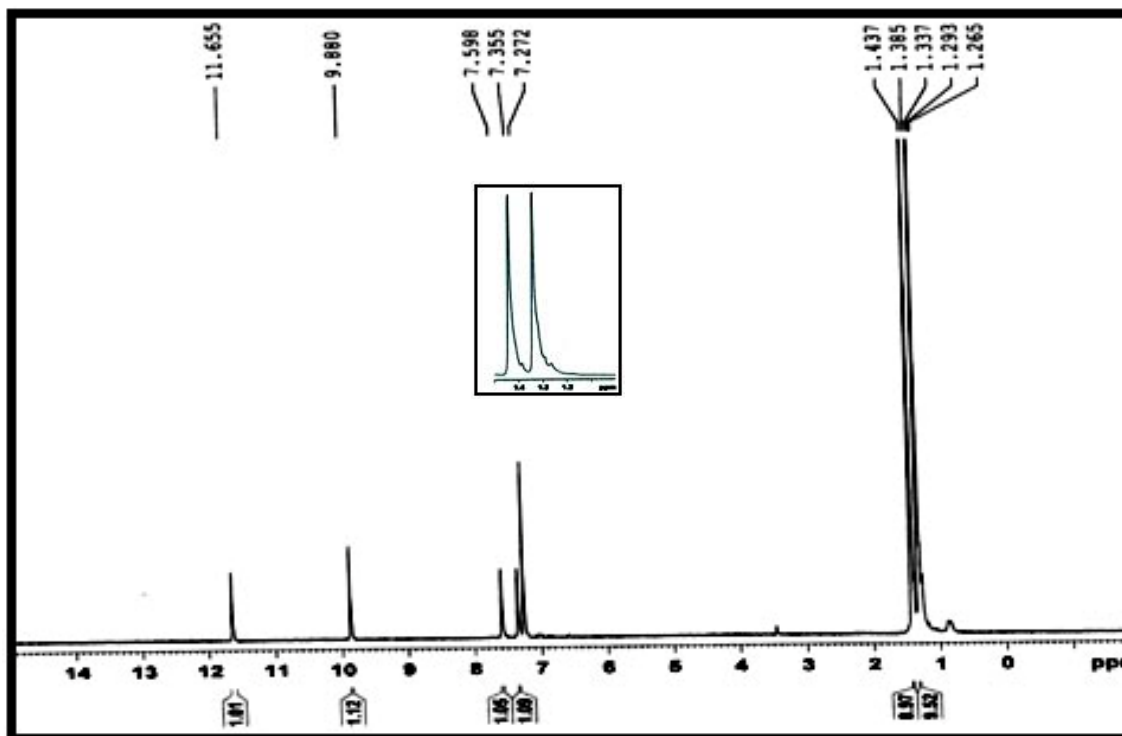


Spectra of 2-hydroxy-3, 5-ditertbutyl benzaldehyde

FT IR

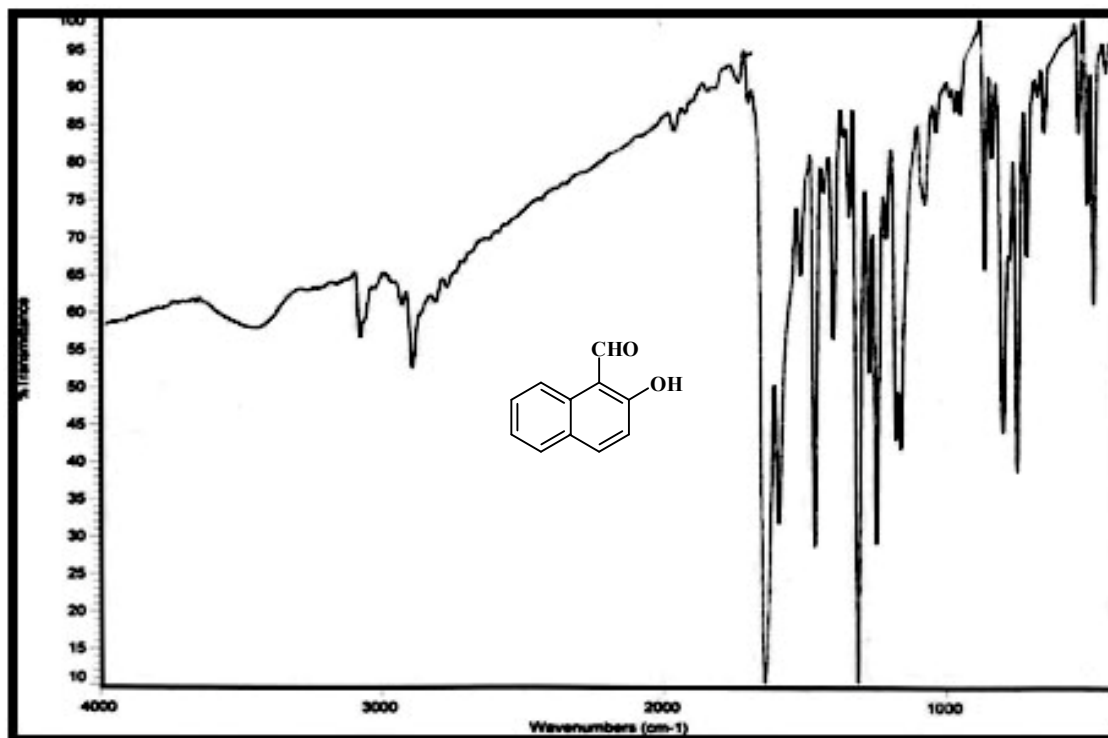


$^1\text{H NMR}$

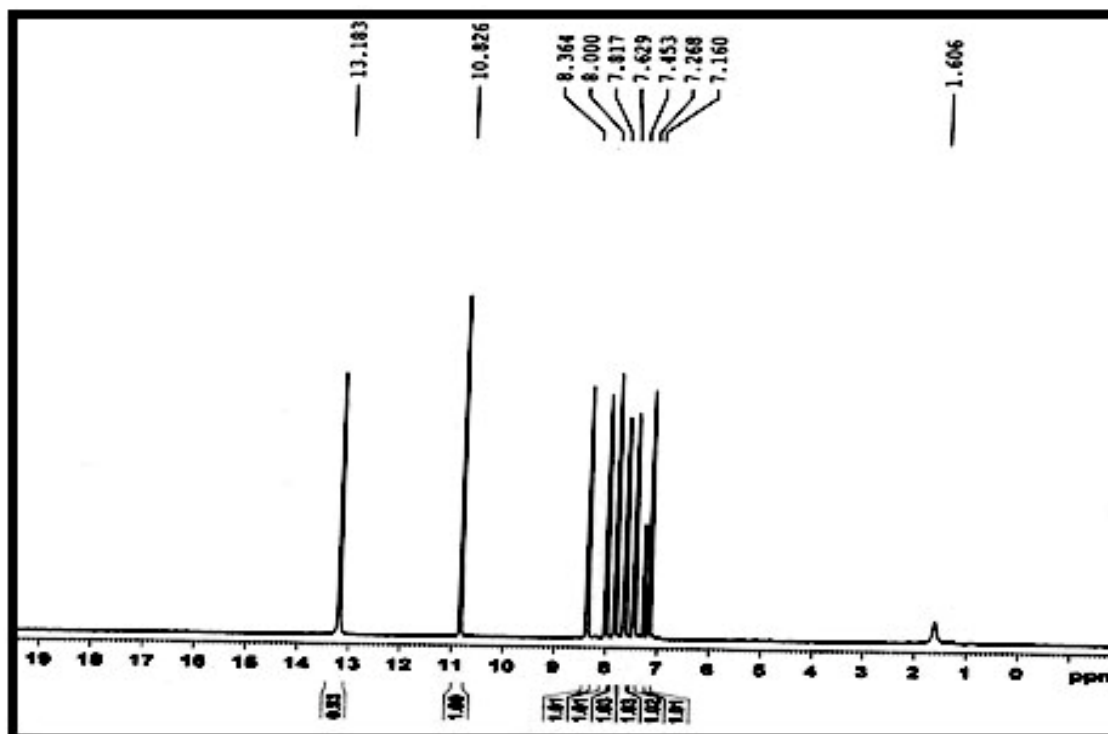


Spectra of 2-hydroxy naphthaldehyde

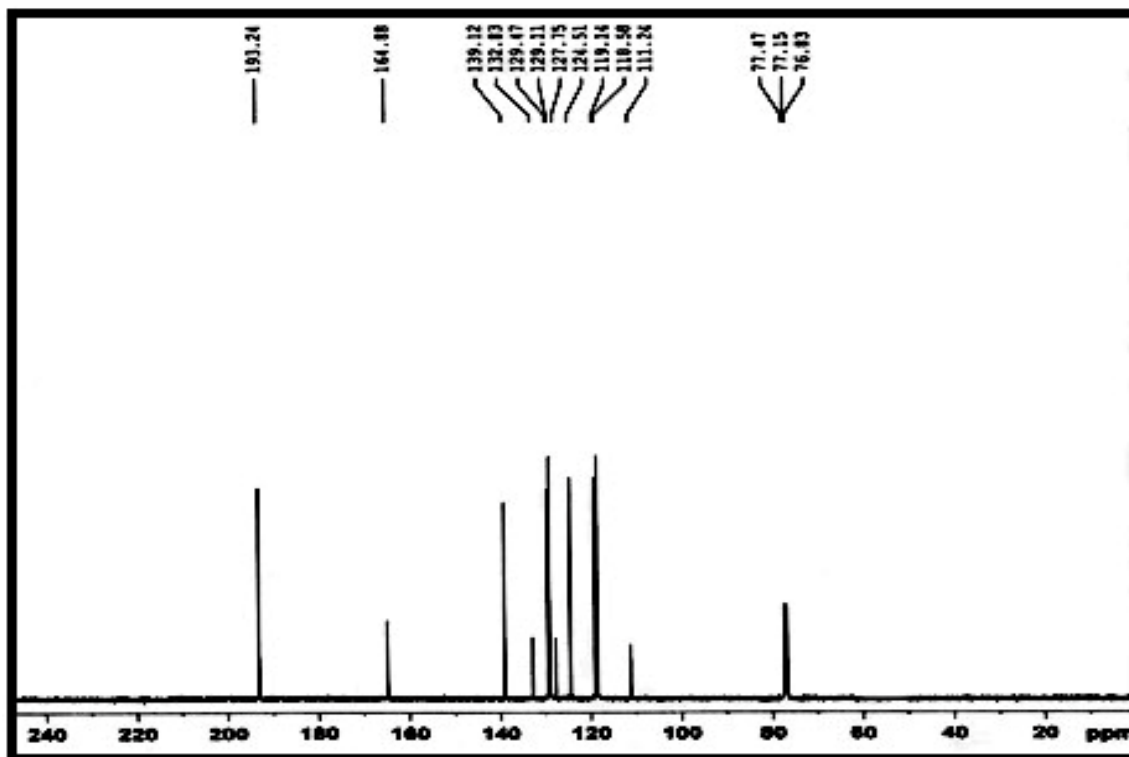
FT IR



¹H NMR

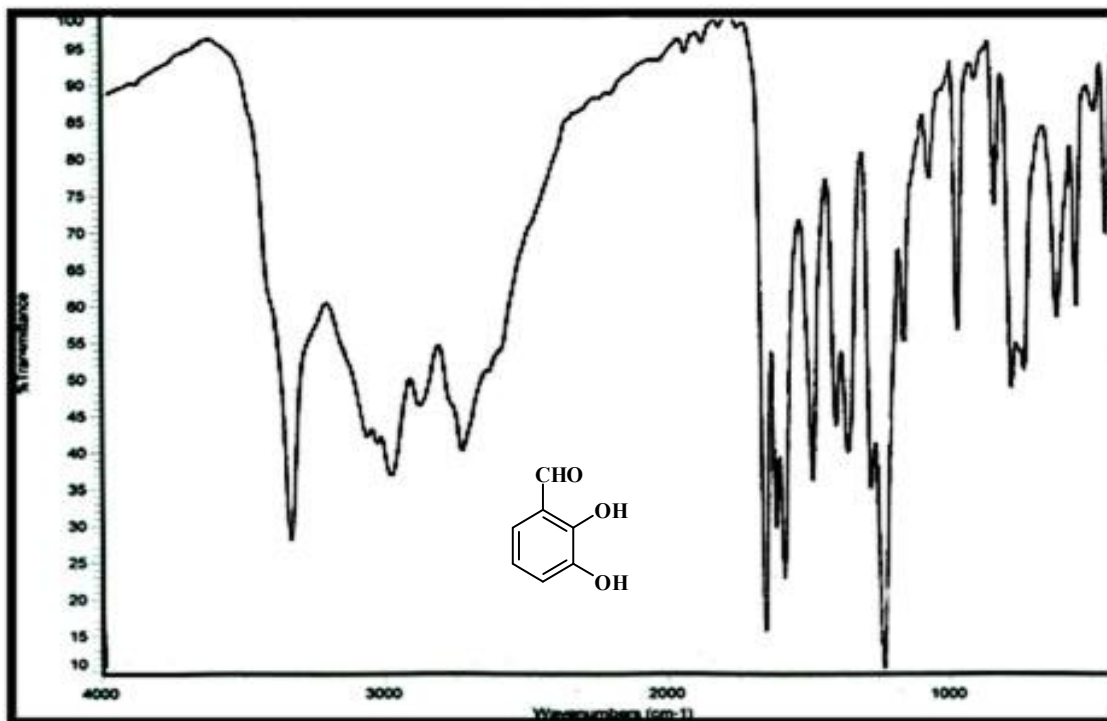


^{13}C NMR

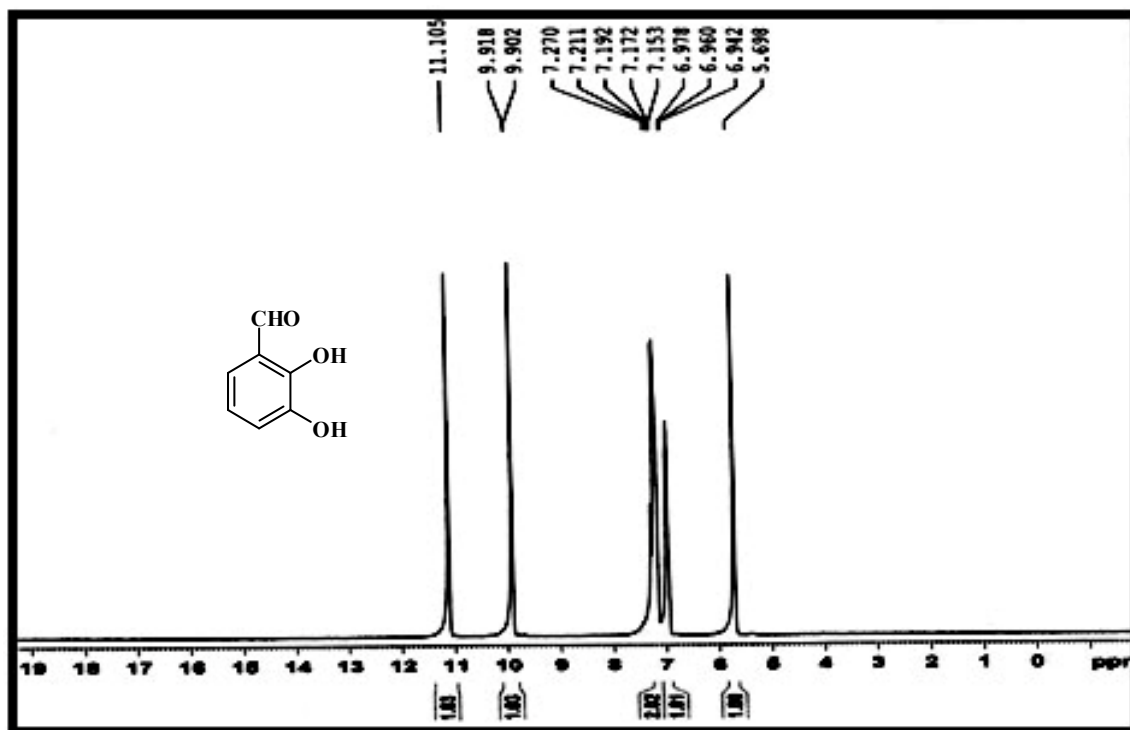


Spectra of 2, 3-dihydroxy benzaldehyde

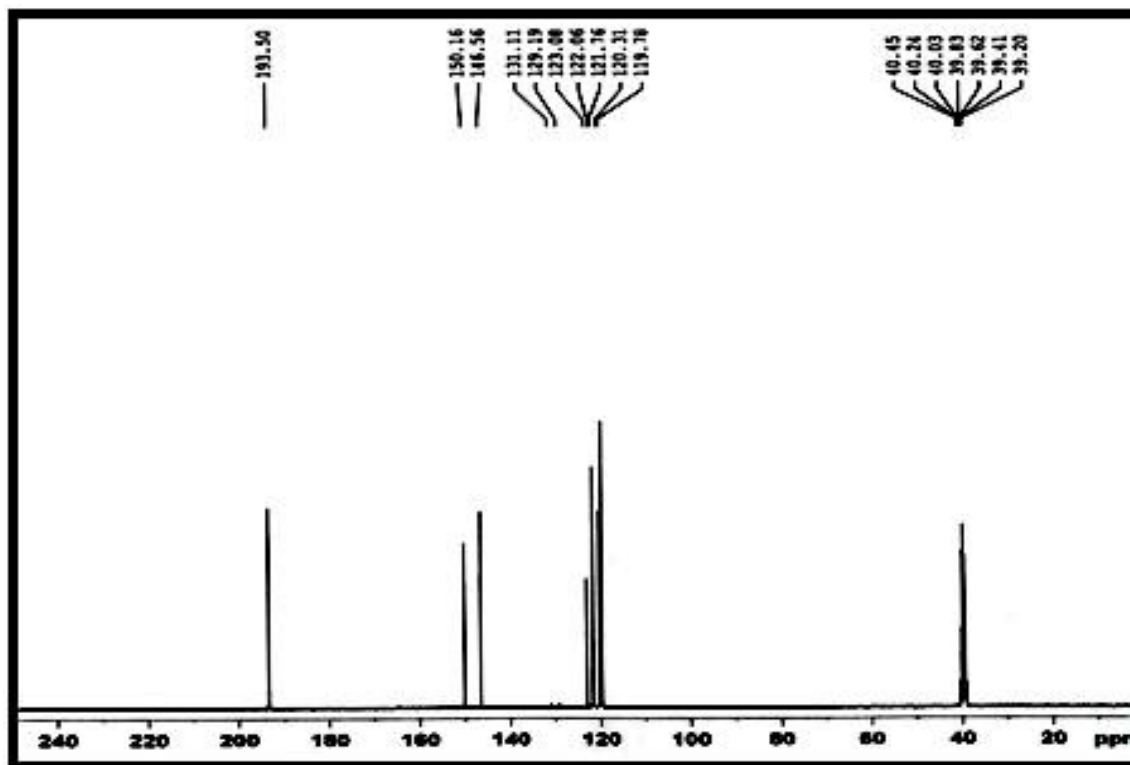
FT IR



^1H NMR

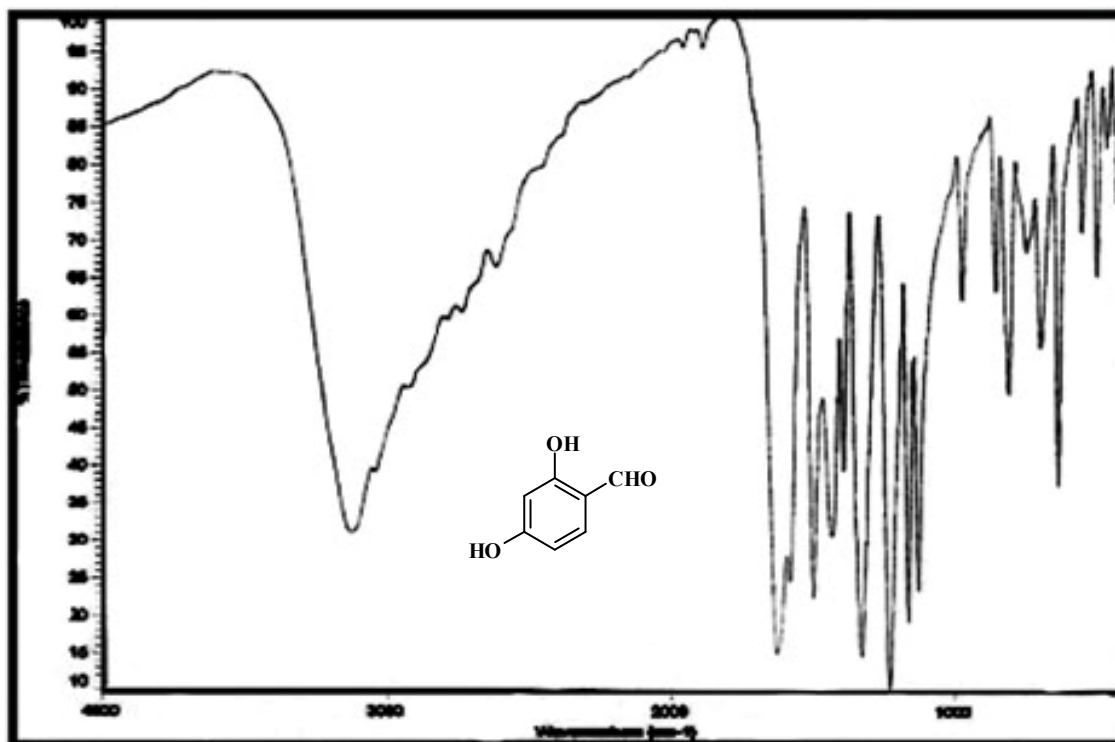


^{13}C NMR

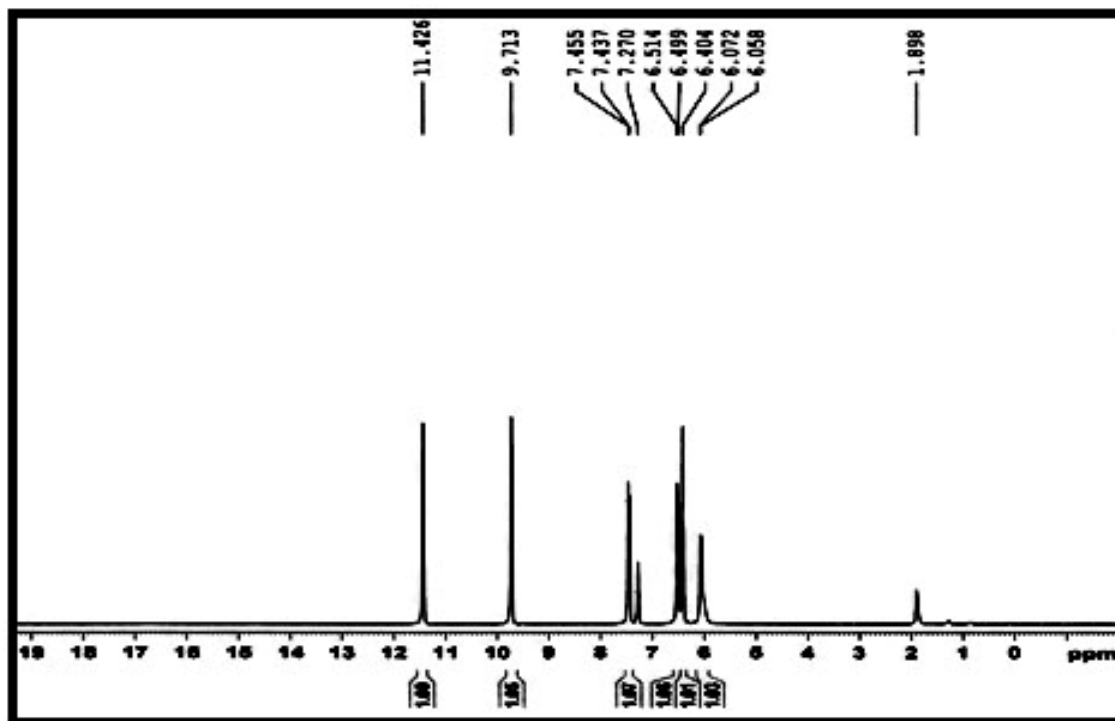


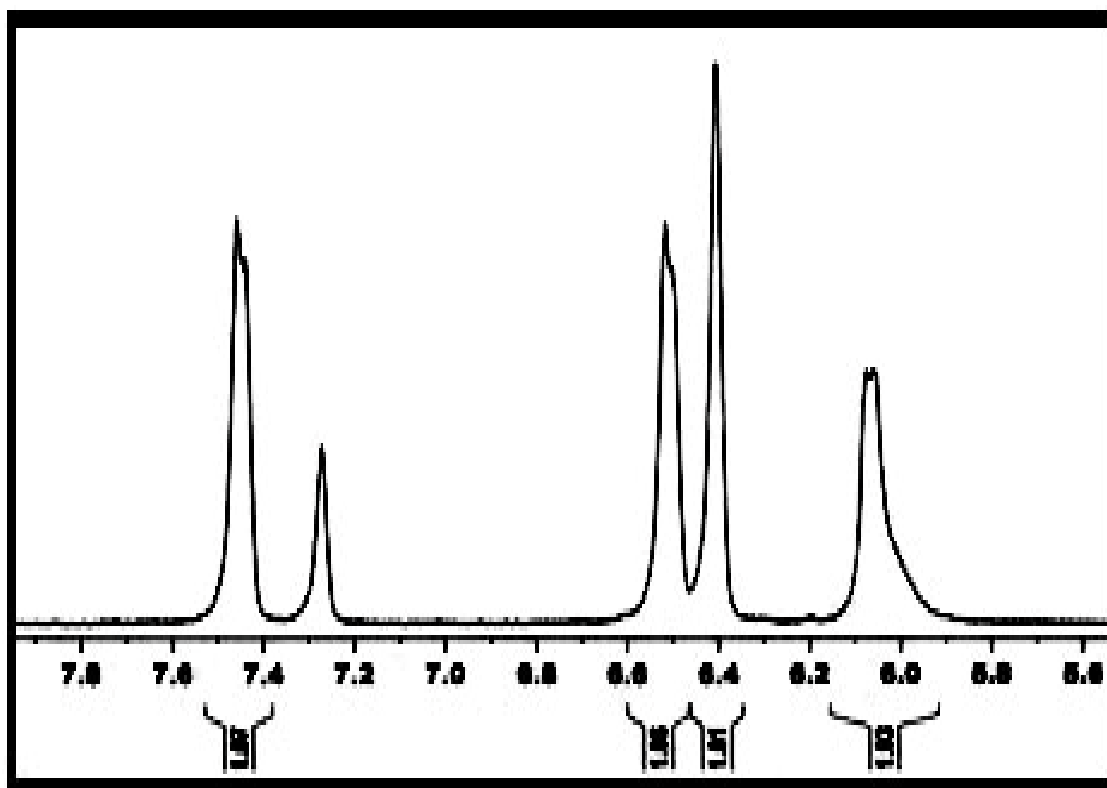
Spectra of 2,4-dihydroxy benzaldehyde

FT IR

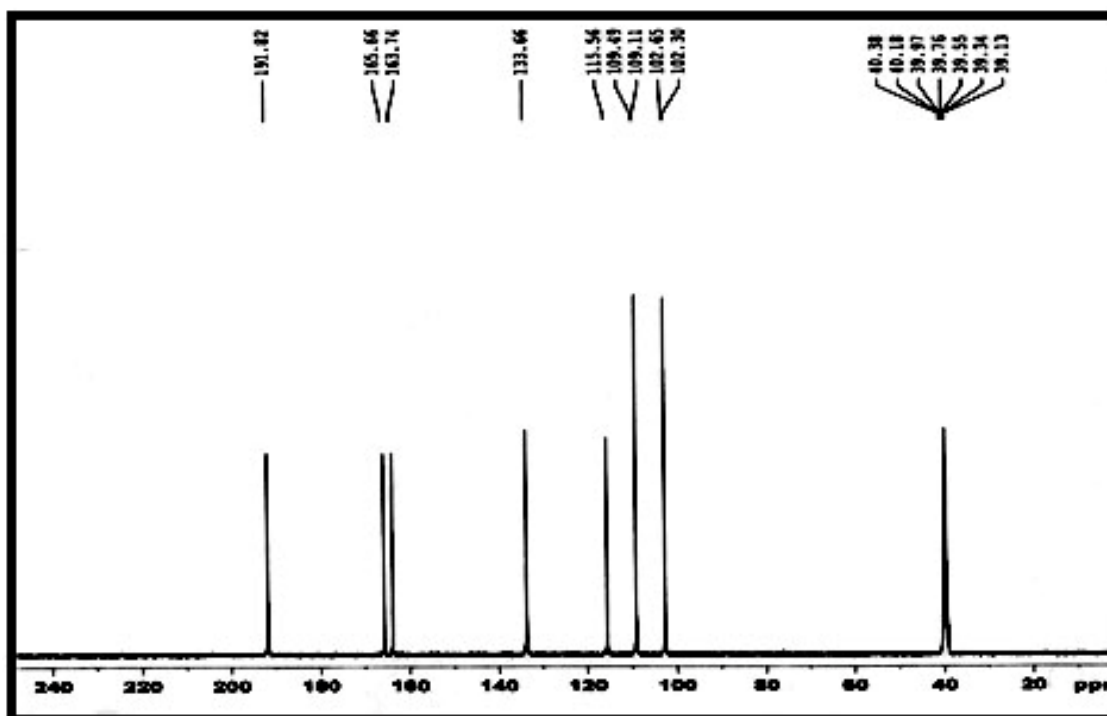


¹H NMR



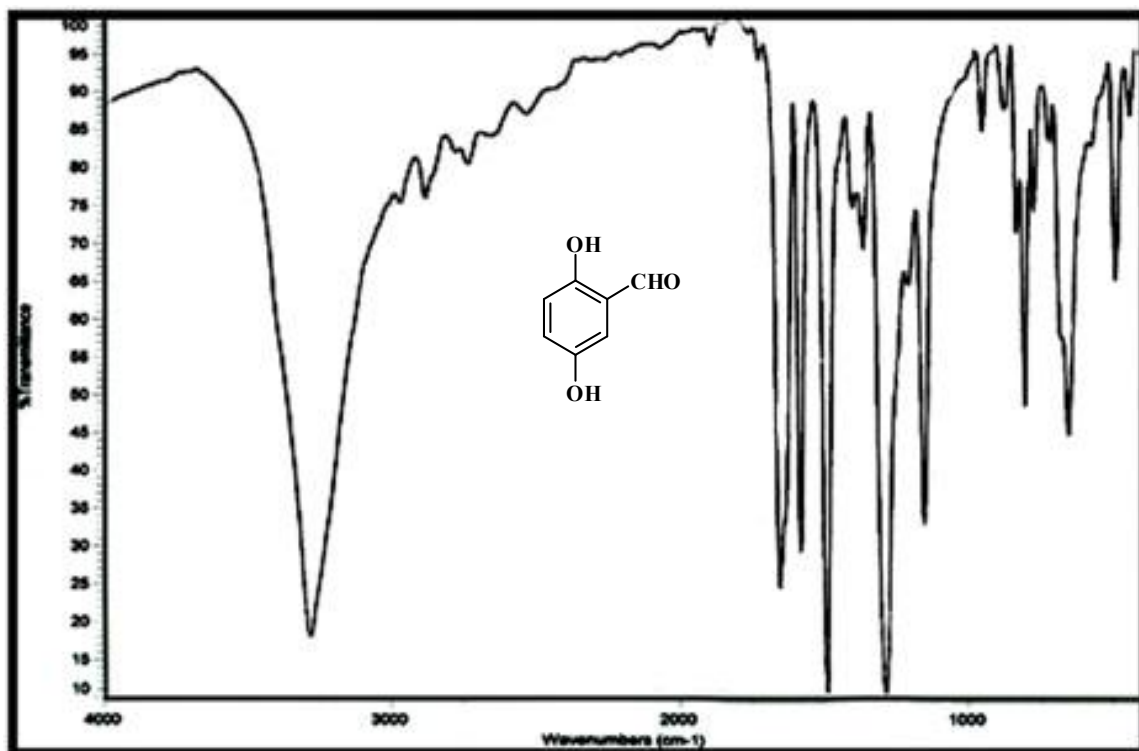


¹³C NMR

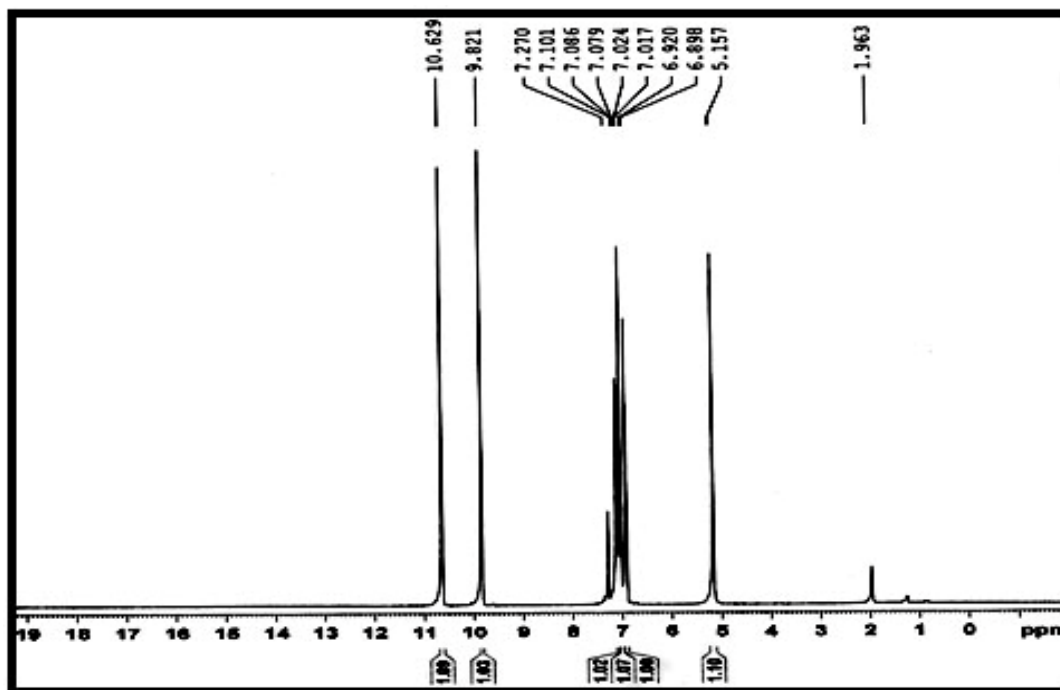


Spectra of 2, 5-dihydroxy benzaldehyde

FT IR



¹H NMR



^{13}C NMR

