

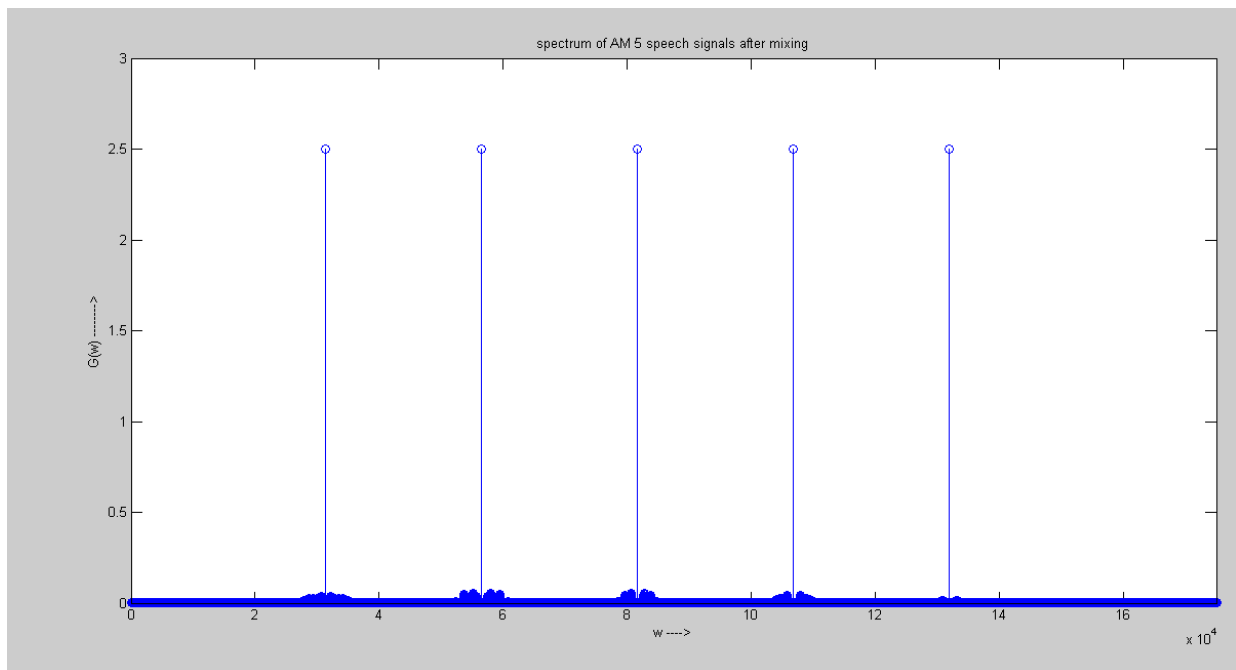
POC LAB-4 Report

Aniruddh Ramrakhyani

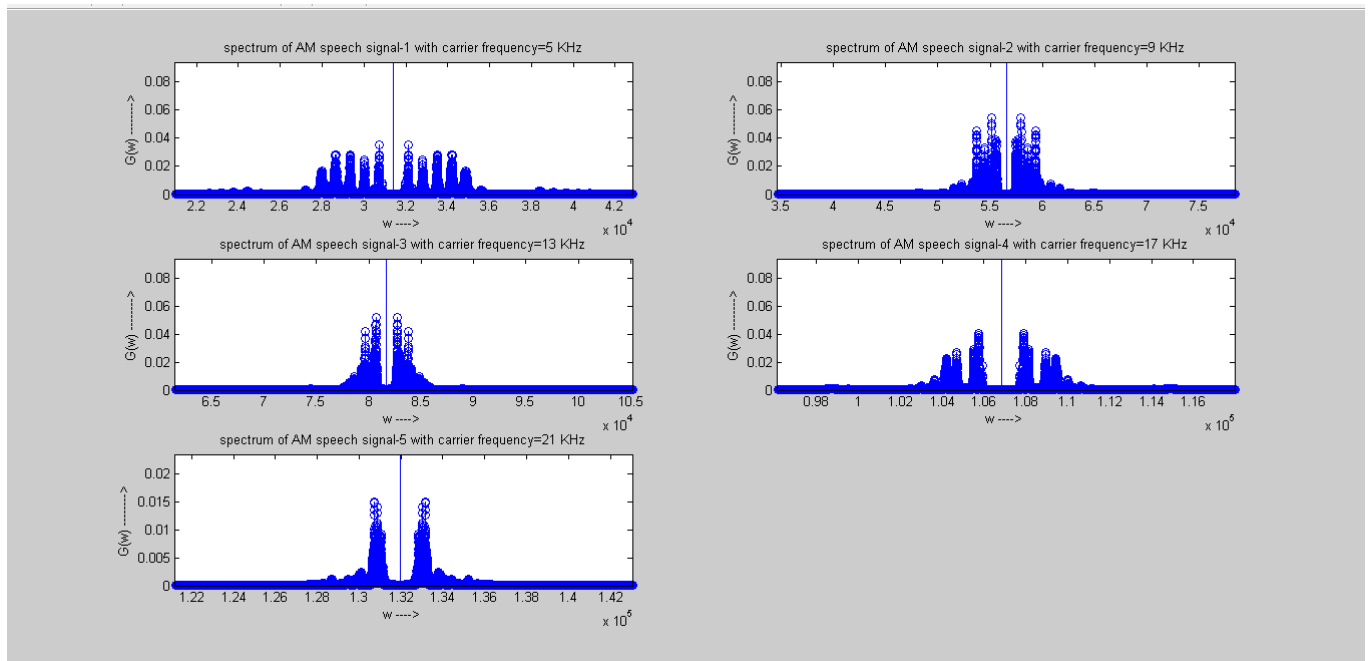
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Electrical Engineering

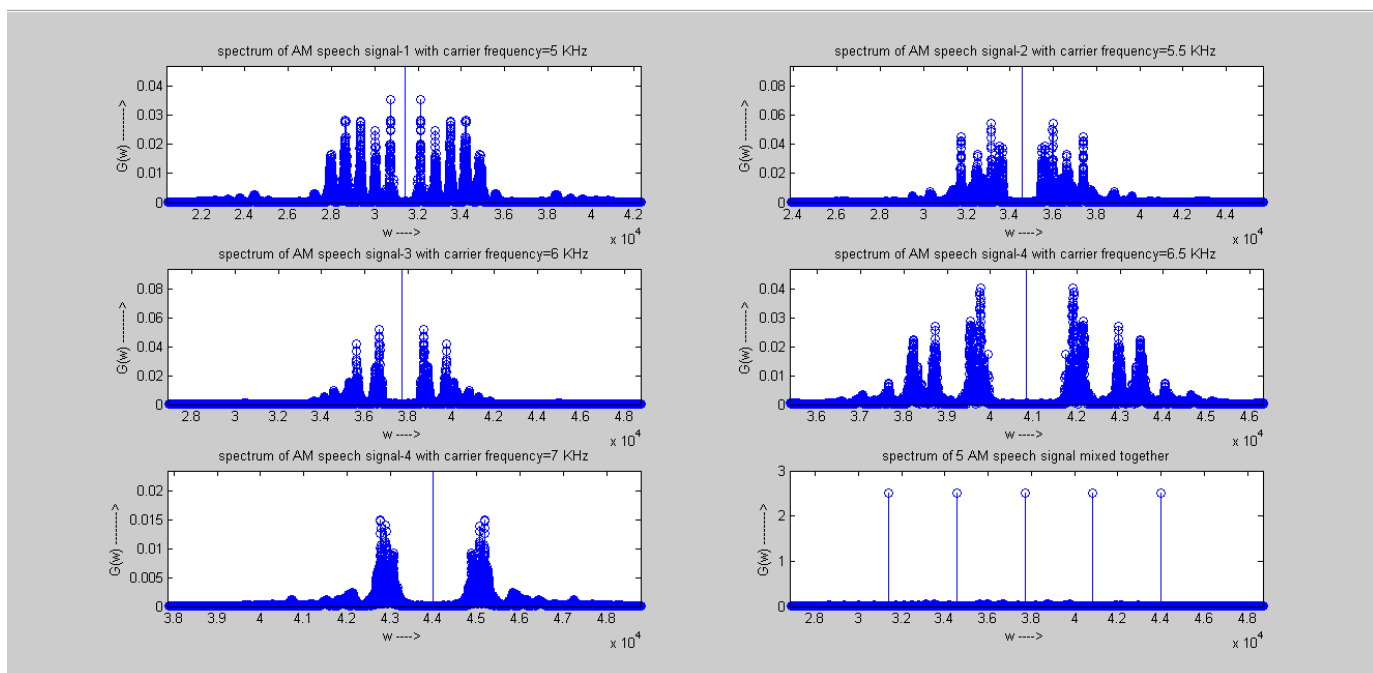
Batch-B2



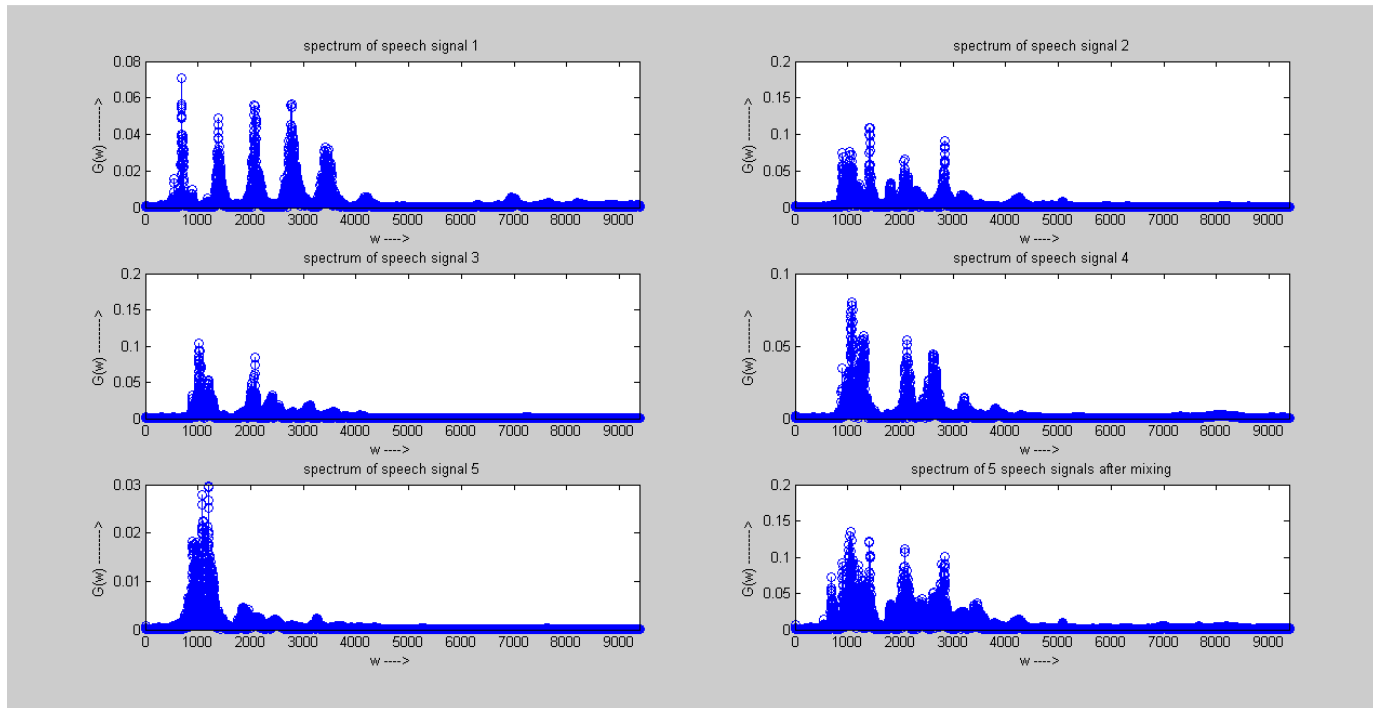
Spectrum of Amplitude modulated 5 speech signals after mixing with carrier frequency=4 KHz



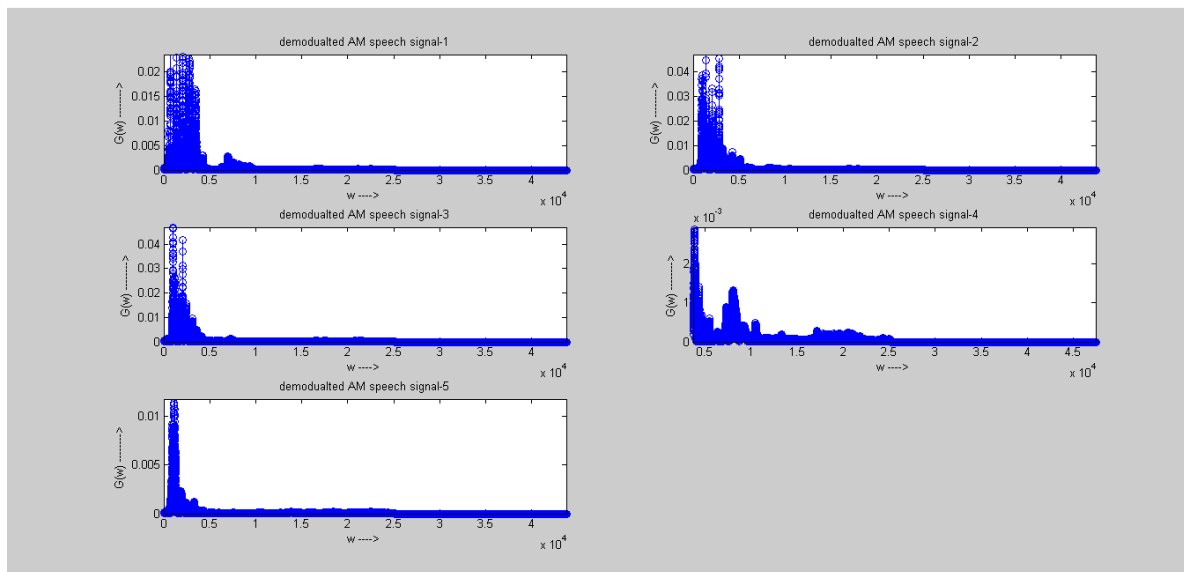
Spectrums of 5 different Amplitude Modulated speech signals with different carrier frequencies in less than 25 KHz range



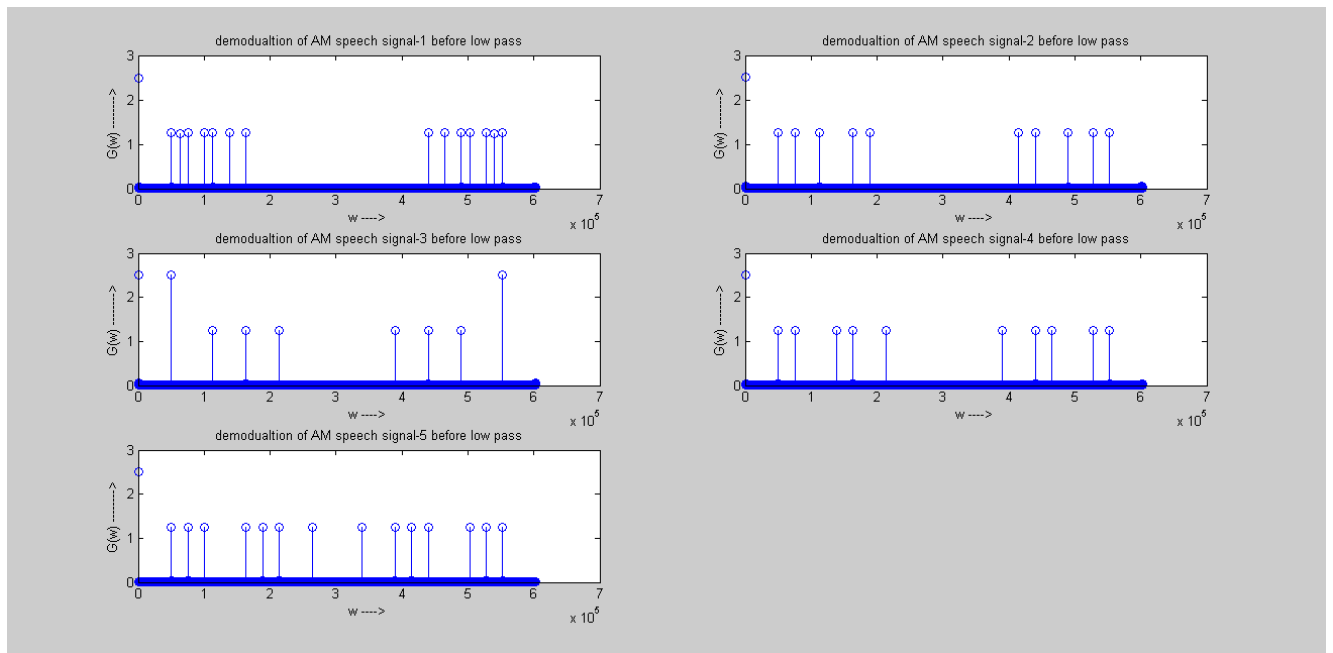
Spectrums of 5 different Amplitude Modulated speech signals with different carrier frequencies in 5 KHz range



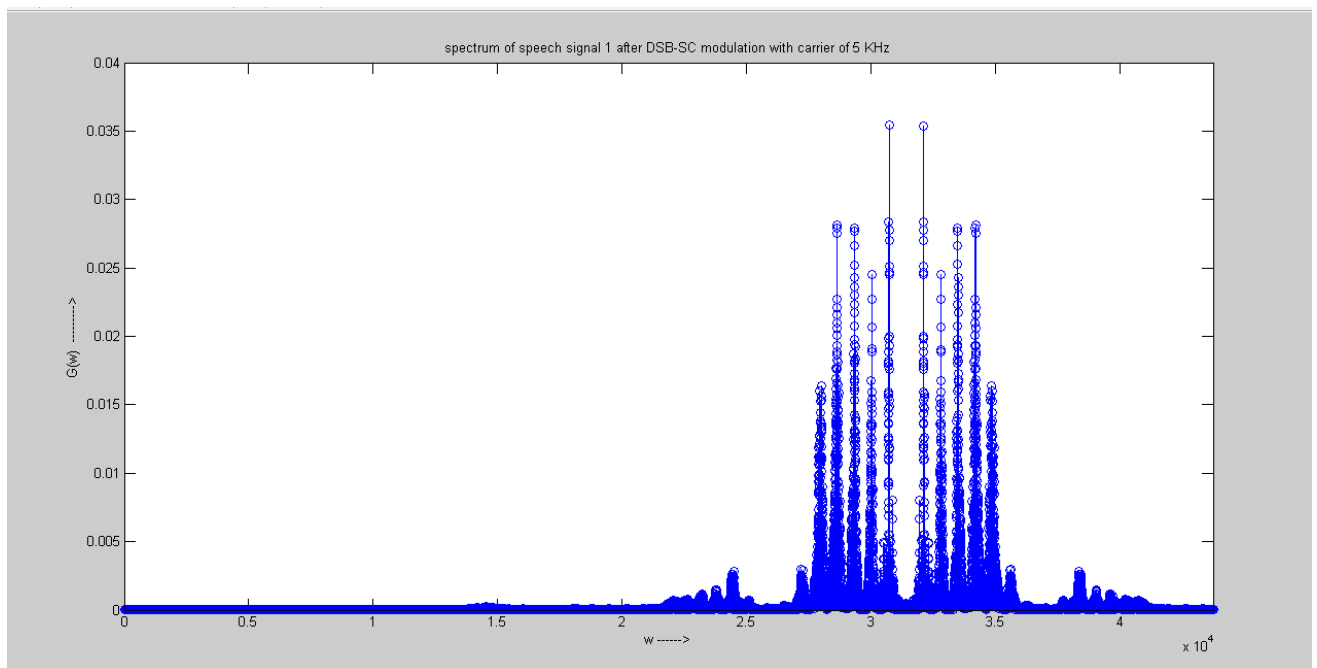
Spectrum of five different speech signals individually and after mixing.



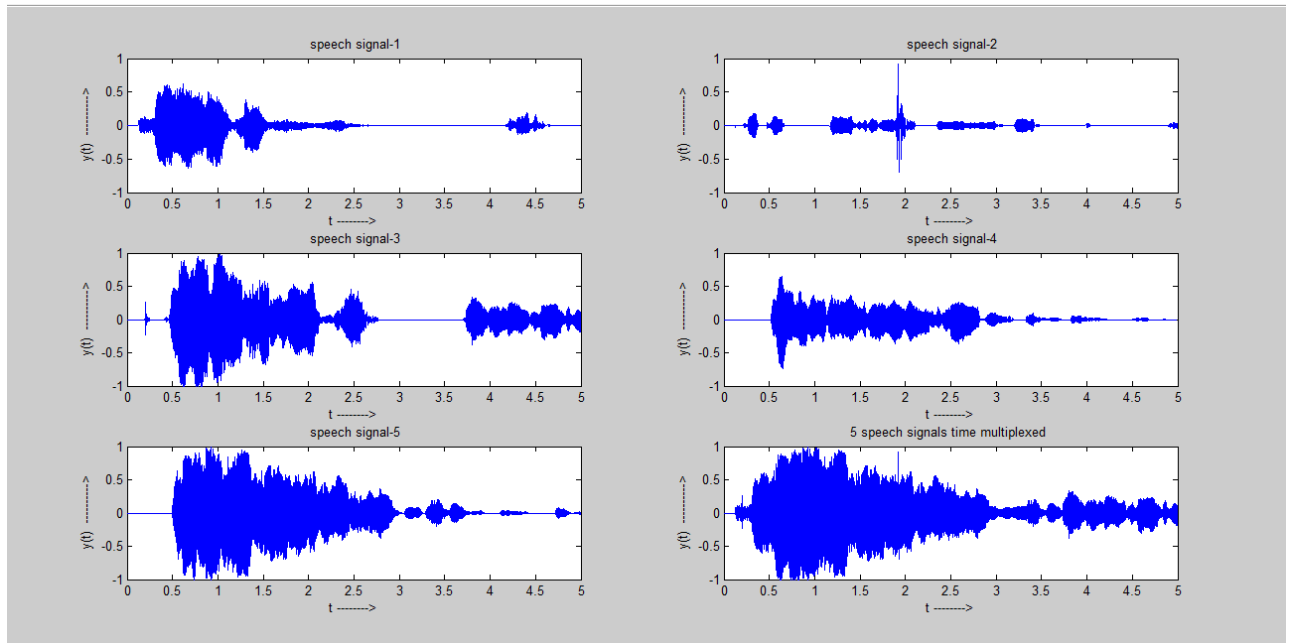
Spectrum of Amplitude modulated signals after demodulation.



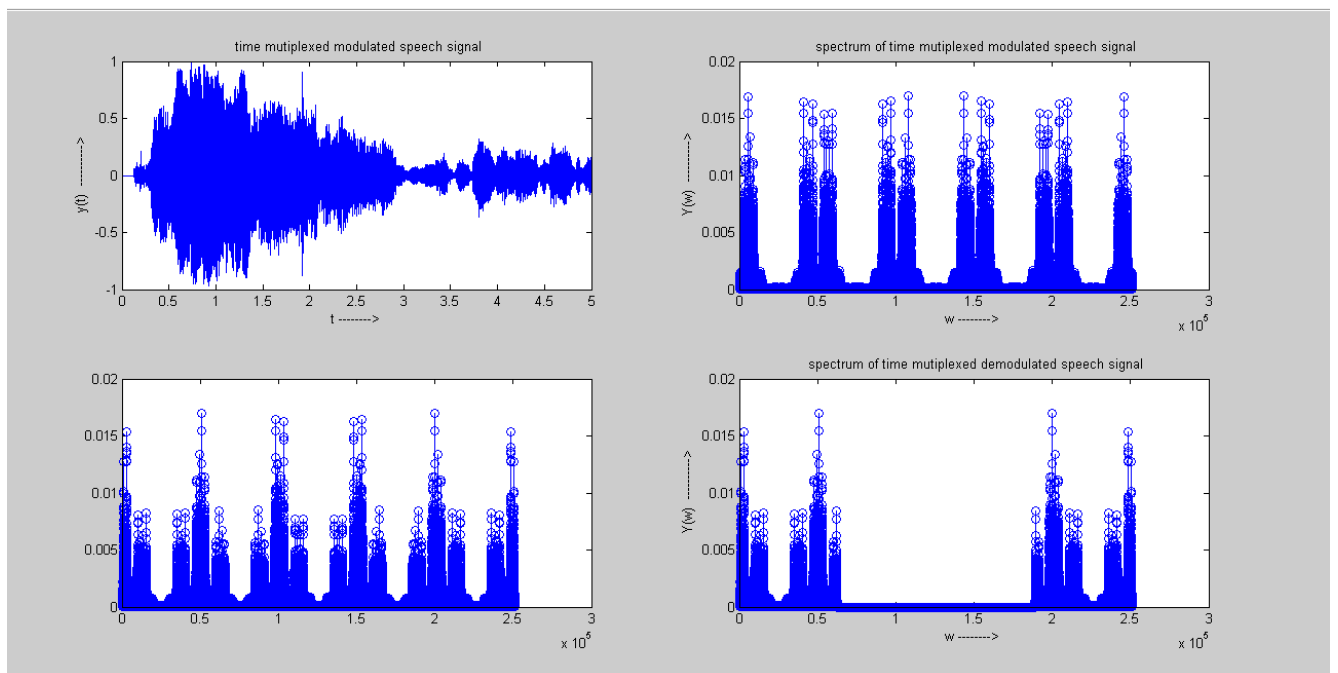
Spectrum of Amplitude modulated signals during synchronous demodulation before passing through low pass filter.



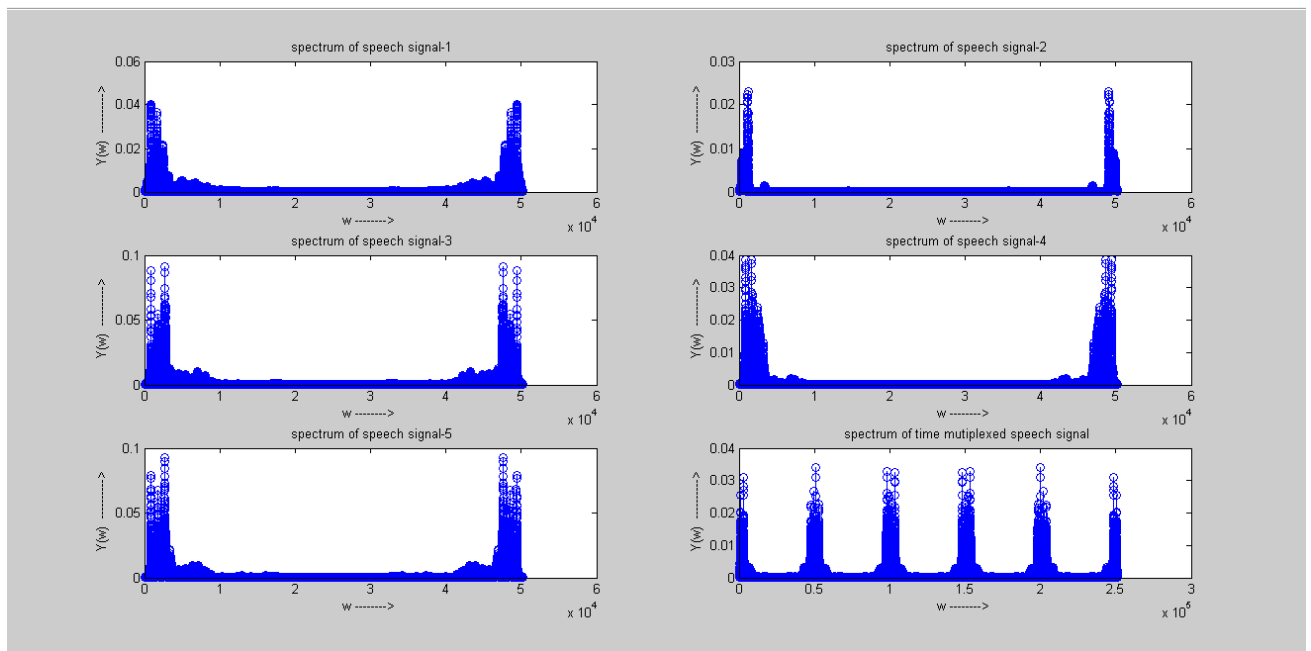
Spectrum of speech signal-1 after DSB-SC modulation with carrier of 5 KHz



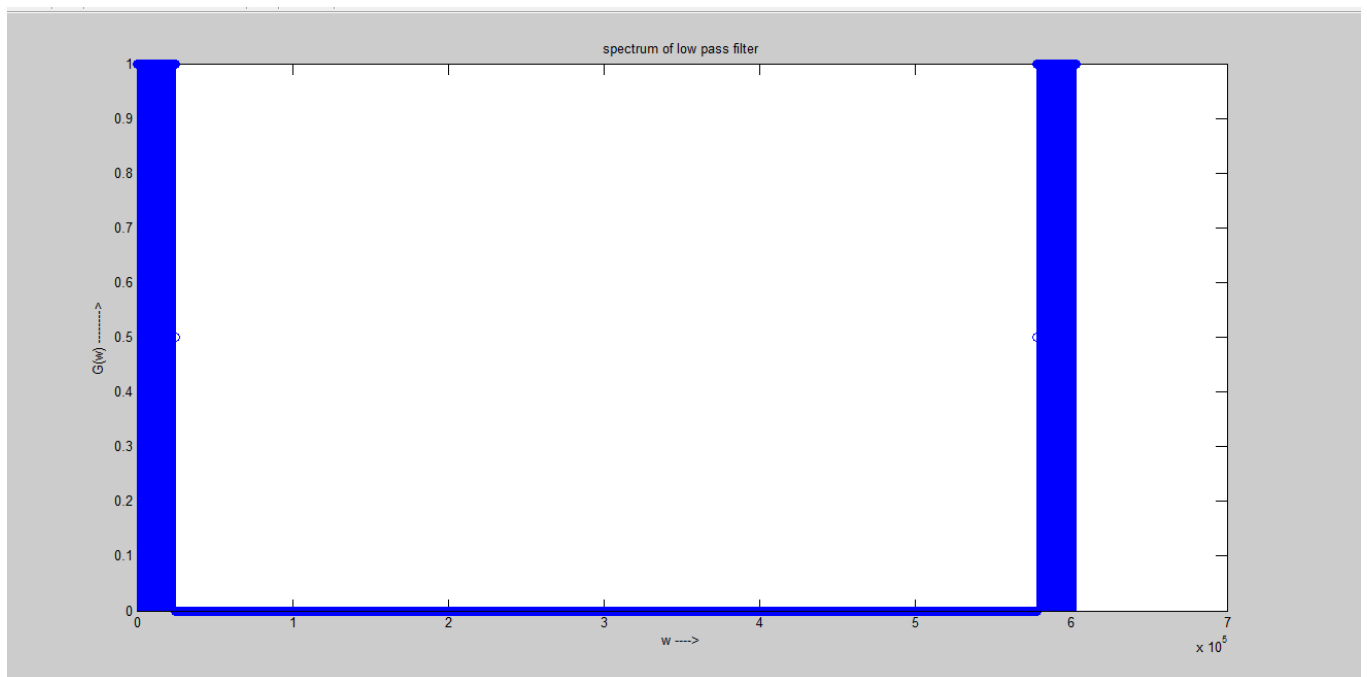
Spectrum of 5 different speech signals and the spectrum of the Time multiplexed signal.



Modulation of time division multiplexed speech signal.



Spectrum of 5 different speech signals individually and after time division multiplexing



Transfer Function of low pass filter in frequency domain.