Communication Systems
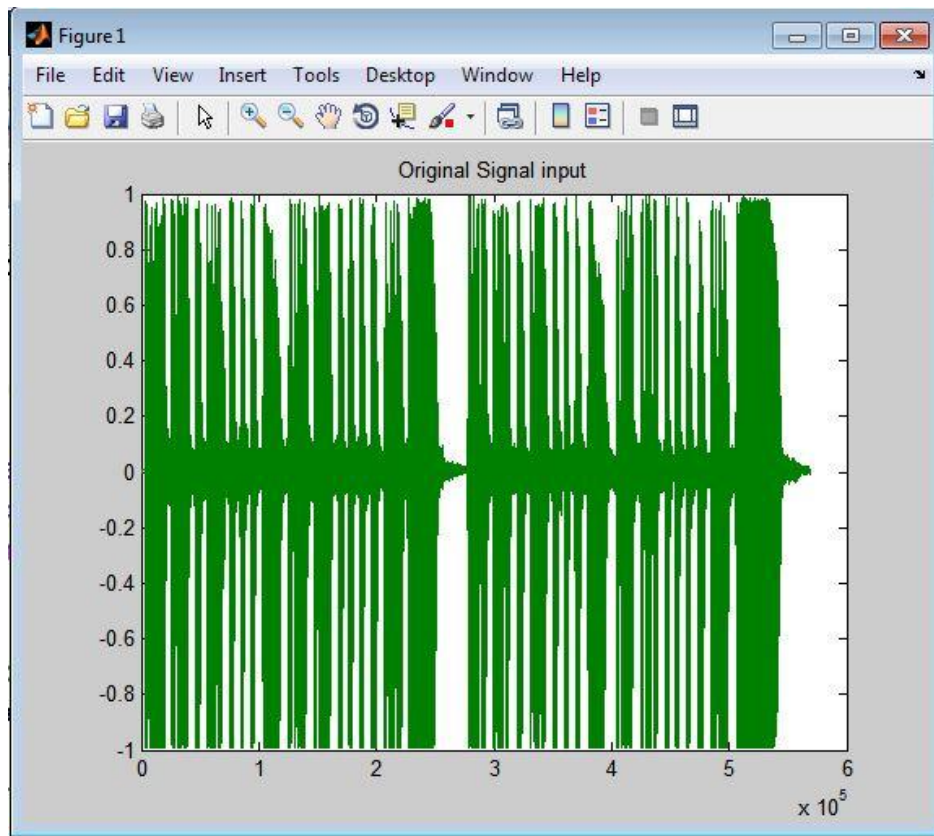
Final Project
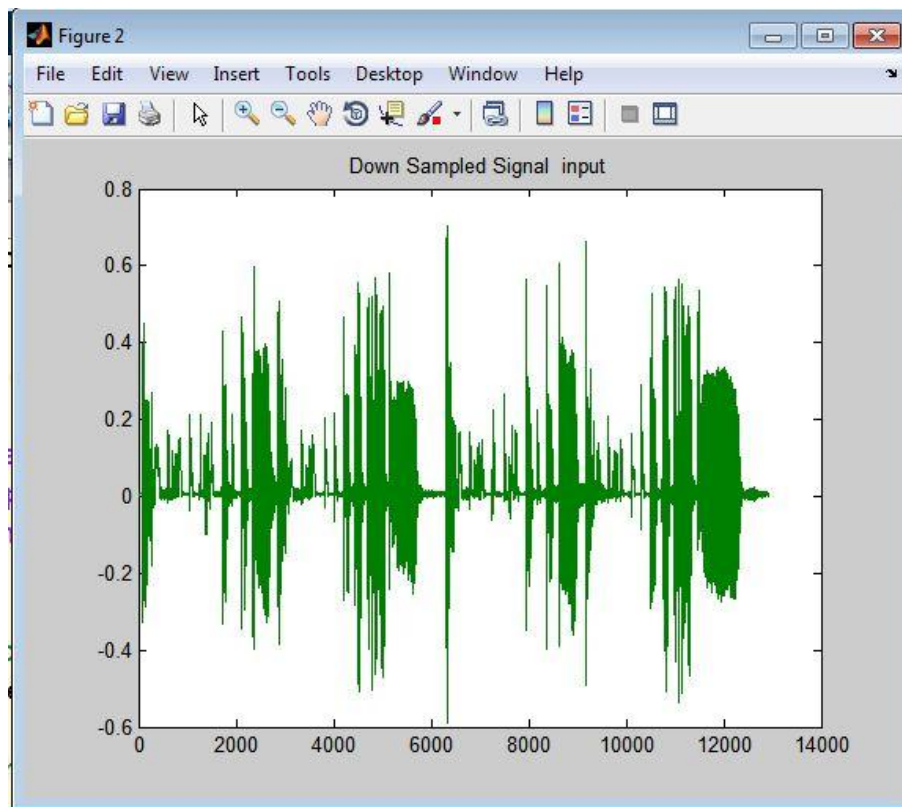
GSM (TX And Rx)

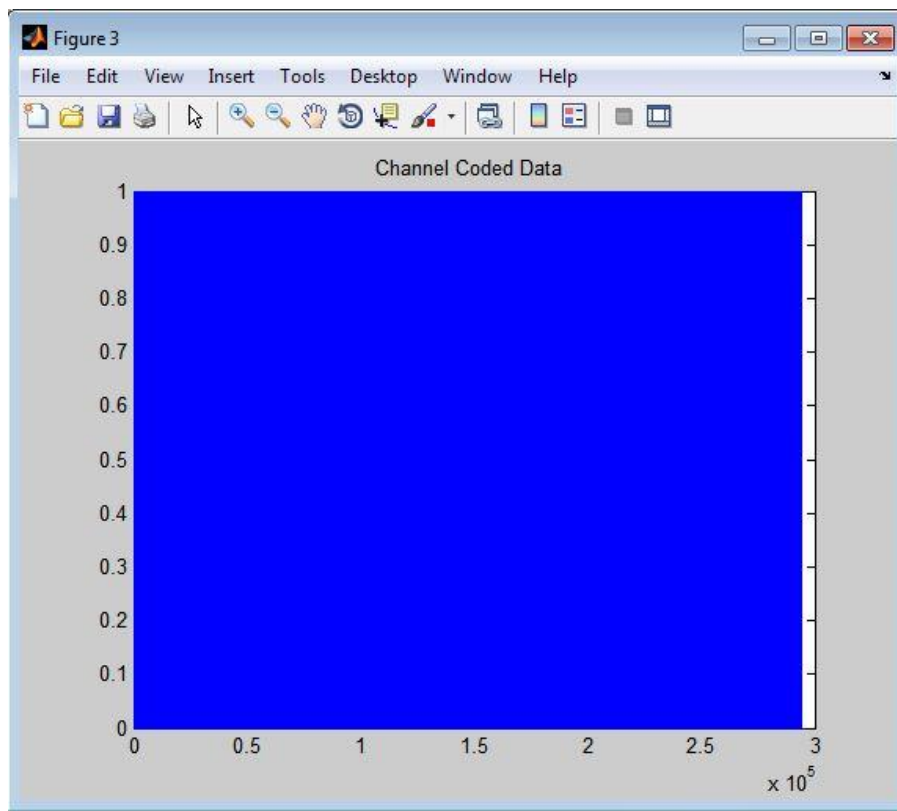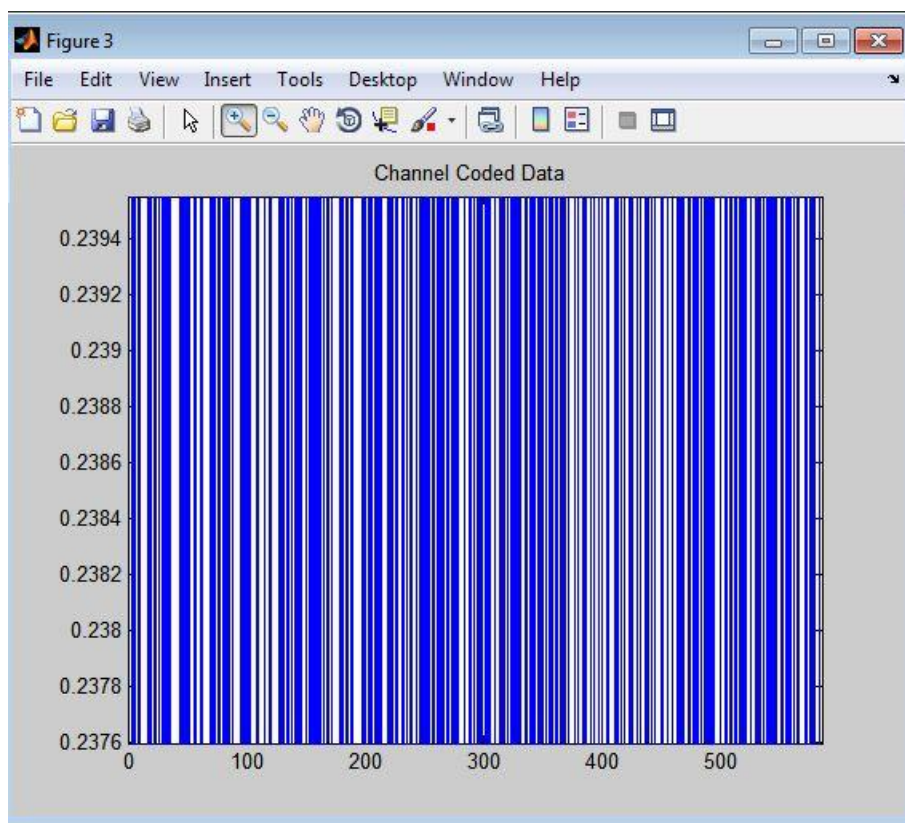|	
Aya Ahmed Mahmoud	4
Ahmed Reda Refaat	20
Dina Ahmed Kamal	95
Mahmoud Muhammed Ramdan	203
Wessam Saeid Elsayed	265

*Original Song

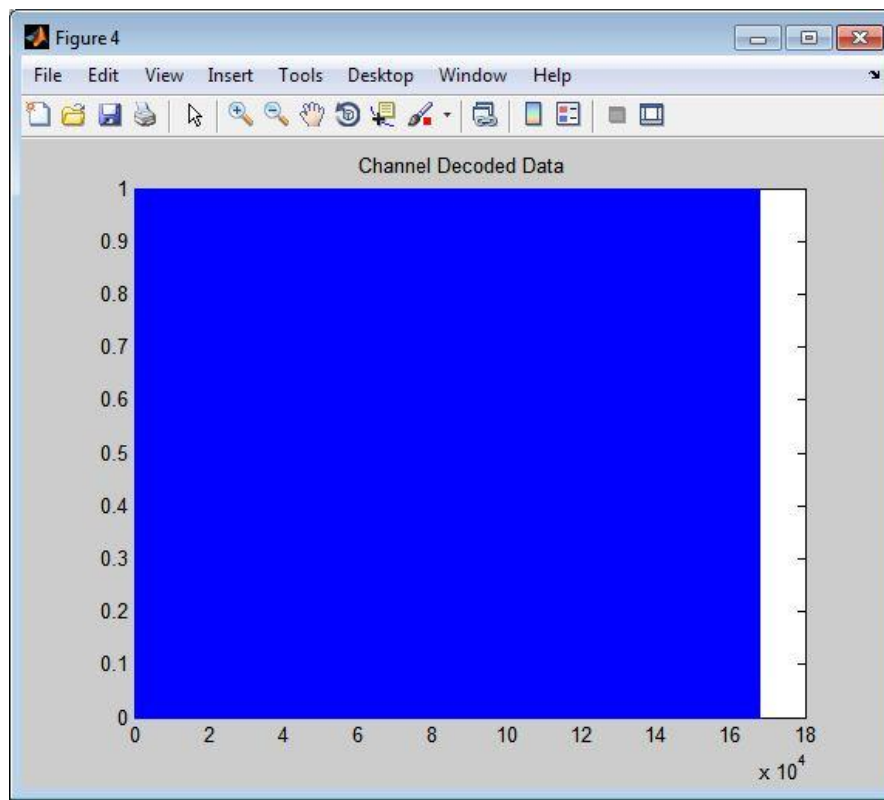## *Downsampled original siginal (1000 sample per second)
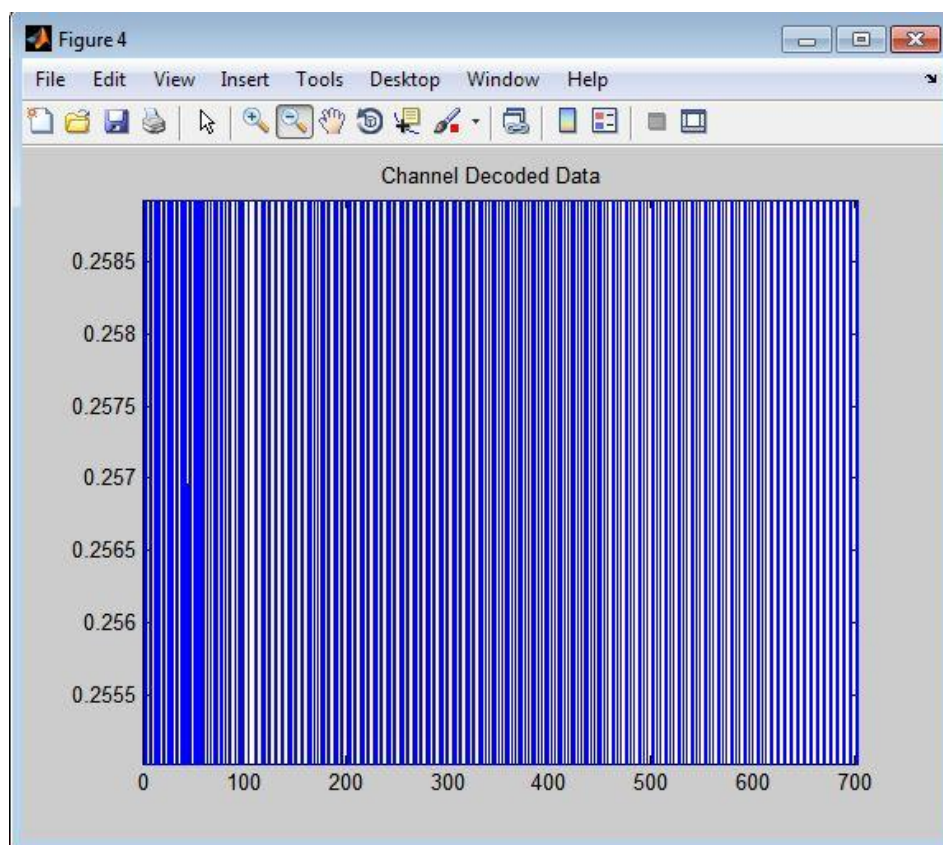
*Channel Coding

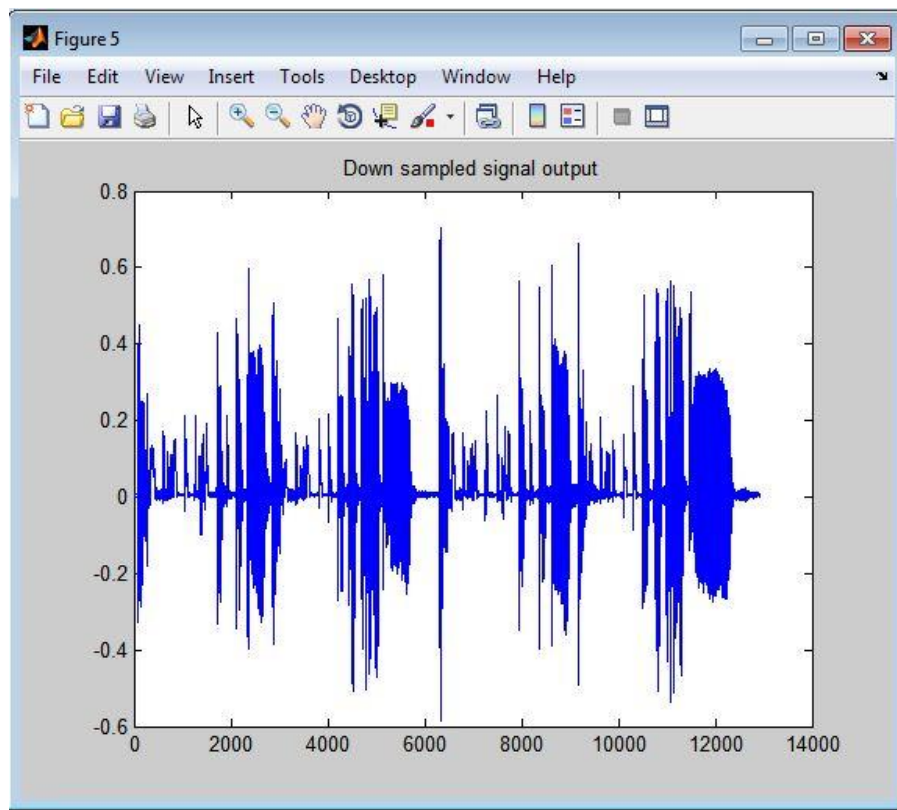# *Channel Coding with zooming
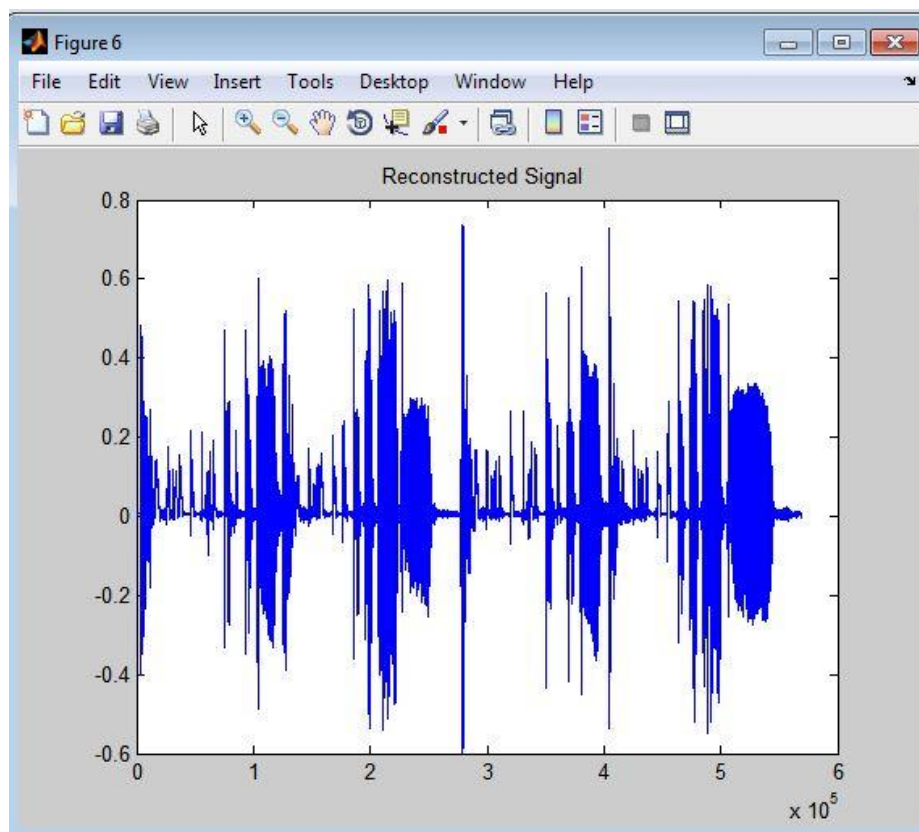
*Channel Decoding

*Channel Decoding with zooming

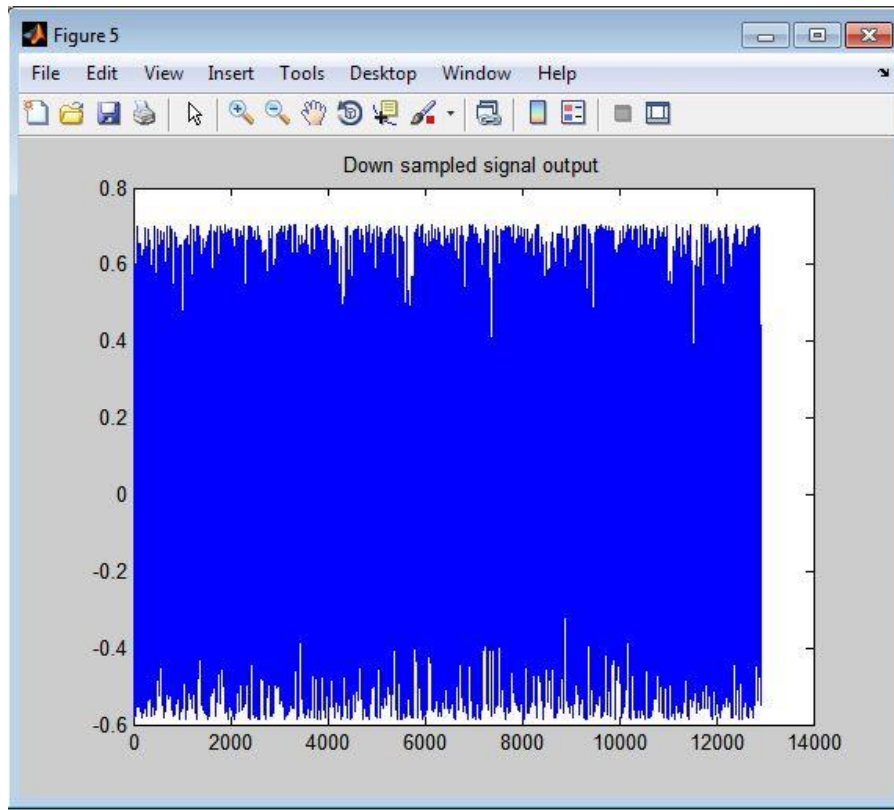***<u>Reconstructed downsampled signal (1000 sample per second)</u>**

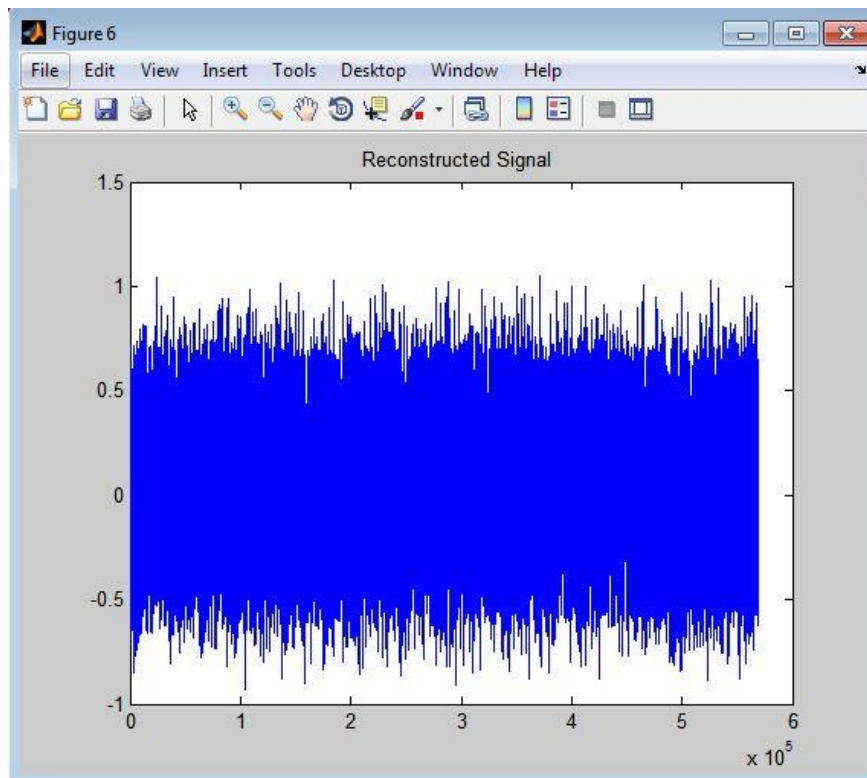***<u>Reconstructed The Original Signal </u>**(after up sampling)

After Appling AWGN
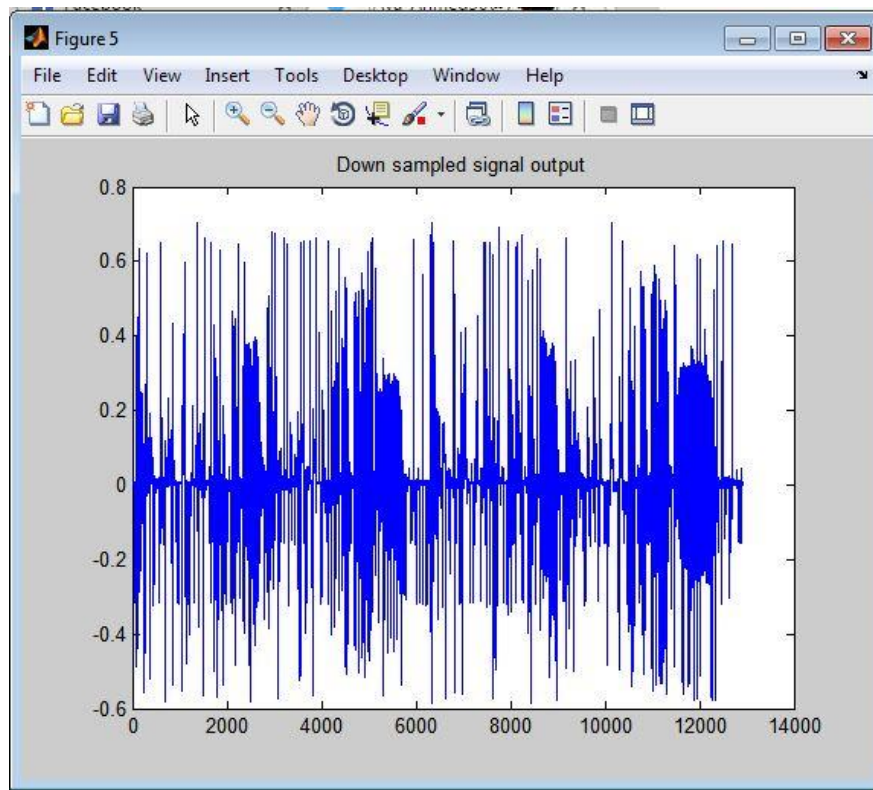
SNR=0 **(Received noise only)**
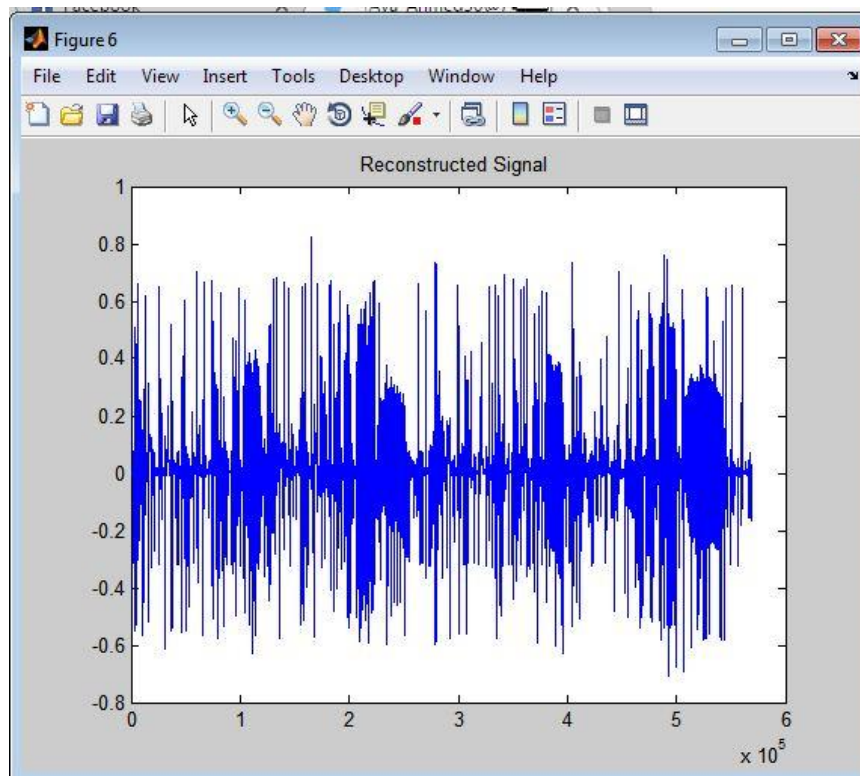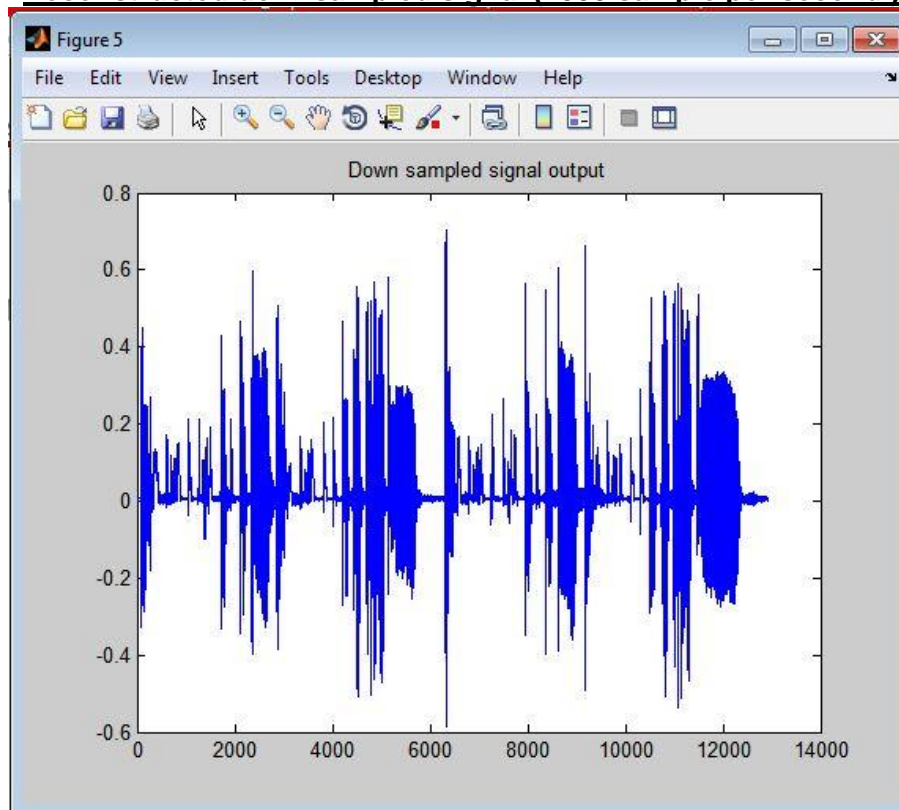

Reconstructed The Original Signal (after up sampling

*SNR=10

*Reconstructed downsampled signal (1000 sample per second)

Reconstructed The Original Signal (after up sampling

*Reconstructed downsampled signal (1000 sample per second)

Reconstructed The Original Signal (after up sampling