**Analog Matlab Report**

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**Experiment 1**

**Preparing the signal:**

[xin ,fs] = audioread('eric.wav');

%sound(xin,fs);

% Extract only one channel if the audio is stereo

x = xin(:,1);

% Create time axis

t = linspace(0,length(x)/fs, length(x));

%plot in time domain

figure(1)

subplot(4,1,1)

plot(t,xin)

title('Original signal in Time domain')

%fft

X = fftshift(fft(x));

X\_ABS = abs(X);

W = angle(X);

N = length(x);

F = linspace(-fs/2,fs/2,N);

%plot in frequency domain

subplot(4,1,2)

plot(F,X\_ABS)

title('Original signal in Frequency domain')

%--ideal LPF at 4000hz--%

N = length(x);

n = N/fs;

r\_limit = round((fs/2-4000)\*n);

l\_limit = (N-r\_limit+1);

X([1:r\_limit l\_limit:N]) = 0;

X\_ABS = abs(X);

%plot in frequency domain

subplot(4,1,3)

plot(F,X\_ABS)

title('LPF(4khz) Signal in Frequency domain')

x = real(ifft(ifftshift(X)));

%plot in time domain

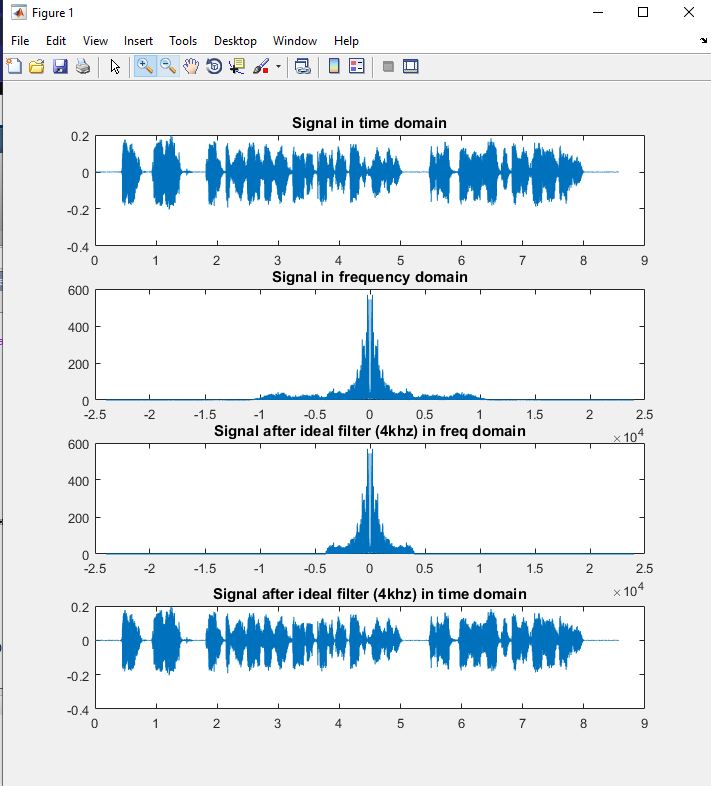
subplot(4,1,4)

plot(t,xin)

title('LPF(4khz) Signal in Time domain')

%sound(x,fs);

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\Original audio filtered.wav',x,fs);



* After reading the audio file, we used an ideal 4khz LPF in the time domain and plotted it.

**Computing the Double Side Band – Supressed Carrier transmitted signal:**

%%%%%%%%%DSB-SC%%%%%%%%%%%%%%%

fc = 100000; %Carrier frequency

new\_fs = 5\*fc; % new sample rate for message

% resampling message signal

msg\_resampled = resample(x,new\_fs,fs);

% Creating Time axis for resampled signal

t\_end = length(msg\_resampled)./new\_fs;

t = linspace(0,t\_end, length(msg\_resampled));

% modulating

carrier = cos(2\*pi\*fc\*t);

carrier = carrier'; % transpose to be a row matrix

% Shifting the signal to fc and -fc

send\_signal = msg\_resampled.\*carrier; % Multiplication in time domain

% freq domain

SEND\_SIGNAL = fftshift(fft(send\_signal));

SEND\_SIGNAL\_ABS = abs(SEND\_SIGNAL);

N = length(send\_signal);

F = linspace(-new\_fs/2,new\_fs/2,N);

figure(2)

subplot(5,1,1)

plot(t,msg\_resampled)

title('Msg signal in Time domain')

MSG\_resampled = fftshift(fft(msg\_resampled));

MSG\_resampled\_MG = abs(X);

MSG\_resampled\_PHASE = angle(X);

N = length(X);

MSG\_F = linspace(-new\_fs/2,new\_fs/2,N);

subplot(5,1,2)

plot(MSG\_F,MSG\_resampled\_MG)

title('Msg signal in Freq domain')

subplot(5,1,3)

plot(F,SEND\_SIGNAL\_ABS)

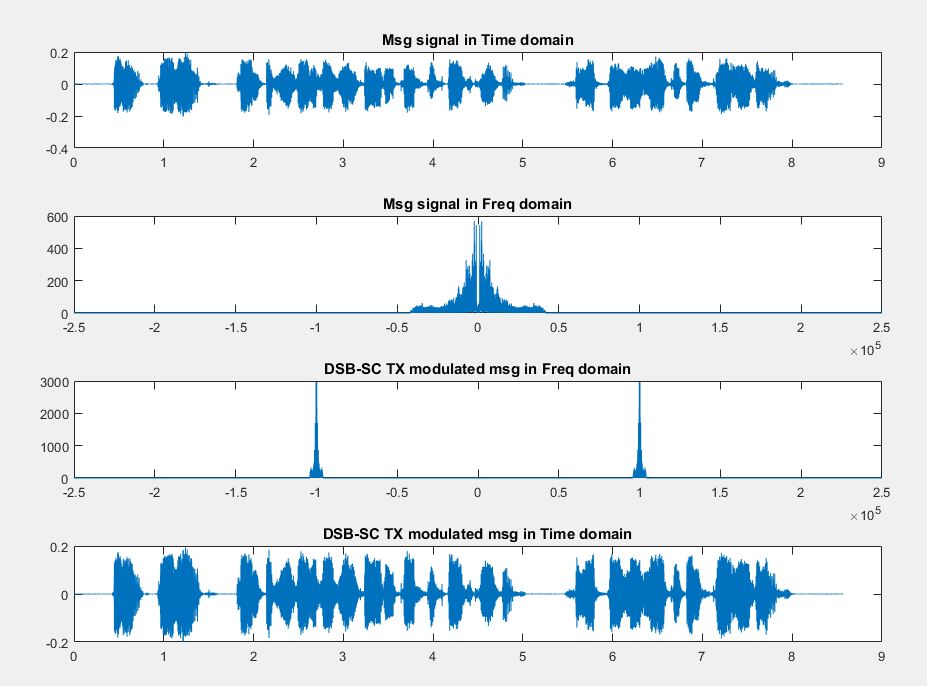
title('DSB-SC TX modulated msg in Freq domain')

subplot(5,1,4)

plot(t,send\_signal)

title('DSB-SC TX modulated msg in Time domain')

* Using carrier frequency of 100 KHz multiplied by the message signal. Plotting its frequency and time domain signals.



**DSB-SC envelope detector receiver:**

%%%%%DSB-SC Envelope Receiver%%%%%%

envelop = abs(hilbert(send\_signal));

subplot(5,1,5)

plot(t,envelop)

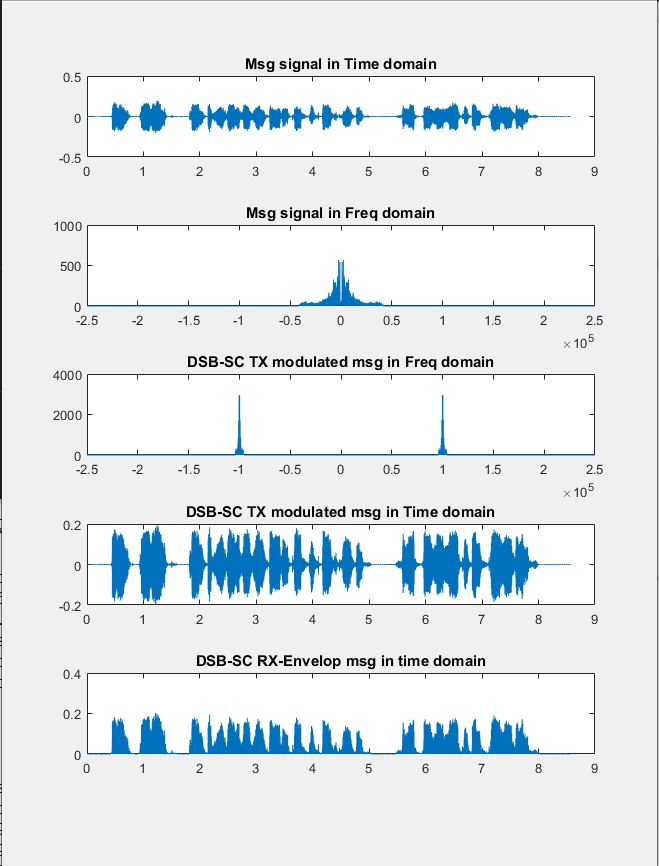
title('DSB-SC RX-Envelop msg in time domain')

% Resample down to play audio

original\_audio = resample(envelop,fs,new\_fs);

%sound(original\_audio,fs);

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\DSB-SC Envelope.wav',original\_audio,fs);



* Using an envelope detector we reobtain the message, but it seems malformed as it has some ticking noises also the bottom half of sent signal is missing.

**DSB-SC Coherent detector receiver without noise:**

%%%%%%%%COHERENT Detector 0 SNR %%%%%%%%

carrier = cos(2\*pi\*fc\*t);

carrier = carrier'; % transpose to be a row matrix

% coherent (multiply msg with carrier)

coherent\_detector\_signal = send\_signal.\*carrier;

COHERENT\_DETECTOR\_SIGNAL = fftshift(fft(coherent\_detector\_signal));

% freq domain plot (befor Ideal LBF)

N = length(coherent\_detector\_signal);

F = linspace(-new\_fs/2,new\_fs/2,N);

figure(3)

subplot(7,1,1)

plot(t,msg\_resampled)

title('Msg signal in Time domain')

subplot(7,1,2)

plot(MSG\_F,MSG\_resampled\_MG)

title('Msg signal in Freq domain')

subplot(7,1,3)

plot(F,SEND\_SIGNAL\_ABS)

title('DSB-SC TX modulated msg in Freq domain')

subplot(7,1,4)

plot(t,send\_signal)

title('DSB-SC TX modulated msg in Time domain')

subplot(7,1,5)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (SNR=0) msg in frequency domain (befor Ideal LBF)')

%------------- LBF ---------------%

N = length(coherent\_detector\_signal);

n = N/new\_fs;

r\_limit = round((new\_fs/2-4000)\*n);

l\_limit = (N-r\_limit+1);

COHERENT\_DETECTOR\_SIGNAL([1:r\_limit l\_limit:N]) = 0;

coherent\_detector\_signal\_LPF = real(ifft(ifftshift(COHERENT\_DETECTOR\_SIGNAL)));

%------------- LBF ---------------%

% As a result of multipling the received signal with carrier there will be high freq components

% at 2fc. So, we put the filter to remove them.

% freq domain plot (after Ideal LBF)

subplot(7,1,6)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (SNR=0) msg in frequency domain ')

% time domain plot

subplot(7,1,7)

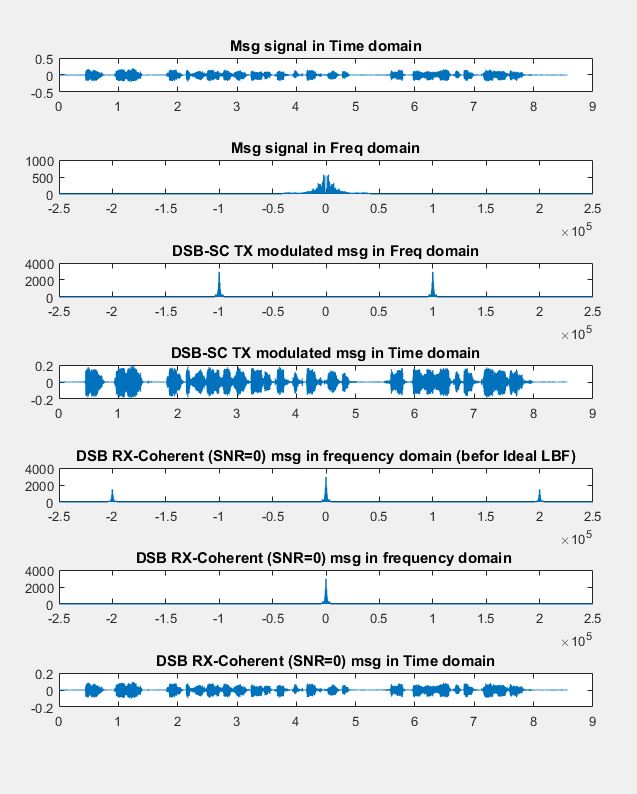
plot(t,coherent\_detector\_signal\_LPF)

title('DSB RX-Coherent (SNR=0) msg in Time domain')

original\_msg = resample(coherent\_detector\_signal\_LPF,fs,new\_fs);

%sound(original\_msg,fs)

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\DSB-SC Coherent 0 SNR.wav',original\_msg,fs)



* Sound is perfectly audible.

**DSB-SC Coherent detector receiver with 10dB SNR:**

%%%%%%%%%%%%%%%%% COHERENT Detector 10 SNR %%%%%%%%%%%%%%%%%%%%

% add noise

send\_signal\_noisy = awgn(send\_signal,10);

figure(4)

subplot(7,1,1)

plot(t,msg\_resampled)

title('Msg signal in Time domain')

subplot(7,1,2)

plot(MSG\_F,MSG\_resampled\_MG)

title('Msg signal in Freq domain')

send\_signal\_noisy\_FREQ = fftshift(fft(send\_signal\_noisy));

N = length(send\_signal\_noisy\_FREQ);

F = linspace(-new\_fs/2,new\_fs/2,N);

subplot(7,1,3)

plot(F,abs(send\_signal\_noisy\_FREQ))

title('DSB-SC with 10 SNR signal in Freq domain')

subplot(7,1,4)

plot(t,send\_signal\_noisy)

title('DSB-SC with 10 SNR signal in Time domain')

carrier = cos(2\*pi\*fc\*t);

carrier = carrier'; % transpose to be a row matrix

% coherent (multiply msg with carrier)

coherent\_detector\_signal = send\_signal\_noisy.\*carrier;

COHERENT\_DETECTOR\_SIGNAL = fftshift(fft(coherent\_detector\_signal));

% freq domain plot (befor Ideal LBF)

N = length(coherent\_detector\_signal);

F = linspace(-new\_fs/2,new\_fs/2,N);

subplot(7,1,5)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (SNR=10) msg in frequency domain (befor Ideal LBF)')

%------------- LBF ---------------%

N = length(coherent\_detector\_signal);

n = N/new\_fs;

r\_limit = round((new\_fs/2-4000)\*n);

l\_limit = (N-r\_limit+1);

COHERENT\_DETECTOR\_SIGNAL([1:r\_limit l\_limit:N]) = 0;

coherent\_detector\_signal\_LPF = real(ifft(ifftshift(COHERENT\_DETECTOR\_SIGNAL)));

%------------- LBF ---------------%

% As a result of multipling the received signal with carrier there will be high freq components

% at 2fc. So, we put the filter to remove them.

% freq domain plot (after Ideal LBF)

subplot(7,1,6)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (SNR=10) msg in frequency domain ')

% time domain plot

subplot(7,1,7)

plot(t,coherent\_detector\_signal\_LPF)

title('DSB RX-Coherent (SNR=10) msg in Time domain')

original\_msg = resample(coherent\_detector\_signal\_LPF,fs,new\_fs);

%sound(original\_msg,fs)

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\DSB-SC Coherent 10 SNR.wav',original\_msg,fs);

![Timeline

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhZ2FpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5MQAAkpIAAgAAAAM5MQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Sound is has so much static it is barely audible.

**DSB-SC Coherent detector receiver with 30dB SNR:**

%%%%%%%%%%%%%%%%% COHERENT Detector 30 SNR %%%%%%%%%%%%%%%%%%%%

% add noise

send\_signal\_noisy = awgn(send\_signal,30);

figure(5)

subplot(7,1,1)

plot(t,msg\_resampled)

title('Msg signal in Time domain')

subplot(7,1,2)

plot(MSG\_F,MSG\_resampled\_MG)

title('Msg signal in Freq domain')

send\_signal\_noisy\_FREQ = fftshift(fft(send\_signal\_noisy));

N = length(send\_signal\_noisy\_FREQ);

F = linspace(-new\_fs/2,new\_fs/2,N);

subplot(7,1,3)

plot(F,abs(send\_signal\_noisy\_FREQ))

title('DSB-SC with 30 SNR signal in Freq domain')

subplot(7,1,4)

plot(t,send\_signal\_noisy)

title('DSB-SC with 30 SNR signal in Time domain')

carrier = cos(2\*pi\*fc\*t);

carrier = carrier'; % transpose to be a row matrix

% coherent (multiply msg with carrier)

coherent\_detector\_signal = send\_signal\_noisy.\*carrier;

COHERENT\_DETECTOR\_SIGNAL = fftshift(fft(coherent\_detector\_signal));

% freq domain plot (befor Ideal LBF)

N = length(coherent\_detector\_signal);

F = linspace(-new\_fs/2,new\_fs/2,N);

subplot(7,1,5)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (SNR=30) msg in frequency domain (befor Ideal LBF)')

%------------- LBF ---------------%

N = length(coherent\_detector\_signal);

n = N/new\_fs;

r\_limit = round((new\_fs/2-4000)\*n);

l\_limit = (N-r\_limit+1);

COHERENT\_DETECTOR\_SIGNAL([1:r\_limit l\_limit:N]) = 0;

coherent\_detector\_signal\_LPF = real(ifft(ifftshift(COHERENT\_DETECTOR\_SIGNAL)));

%------------- LBF ---------------%

% As a result of multipling the received signal with carrier there will be high freq components

% at 2fc. So, we put the filter to remove them.

% freq domain plot (after Ideal LBF)

subplot(7,1,6)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (SNR=30) msg in frequency domain ')

% time domain plot

subplot(7,1,7)

plot(t,coherent\_detector\_signal\_LPF)

title('DSB RX-Coherent (SNR=30) msg in Time domain')

original\_msg = resample(coherent\_detector\_signal\_LPF,fs,new\_fs);

%sound(original\_msg,fs)

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\DSB-SC Coherent 30 SNR.wav',original\_msg,fs);

![Timeline

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhZ2FpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM0MAAAkpIAAgAAAAM0MAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ms7YY3Ku9xvbvuYANjsCoIzmuuoAKKKKACiiigAorl/Fr6w1/p1vpKar9nKTSXL6Z5AcEbAi5m+Xncxx1+WtfQLyHUPD9ndW1xPcxyRDEtyoEjHod4AADZBBwOooA0aKKKACiiigAoorgdG8RXt9qlpfXV1qNvbXd/NboHt4jaOAXVYhyJFf5Qd5GCwI7gAA76iiigAooooAKKKqapbNd6fJGt/cafj5jcW5QMoHJ++rDH4UAW6K5vwQL+XRnv7/Ubu8ivX82zW7Cb44P4Cdqryw+bpxkDsSekoAKKKKACiiigAorg/GmuanZarex6dc3qi001biIWUKSJHMWcZuNykhMBcAc4Eh7Cu5gkEtvHIGRw6htyHKnI6g+lAD6KKKACiiigAoqOdpEt5GhTfIqEopP3jjgVwvhrxJPLrGjW0mq3GoTahbyG/gmhVBaTqobaAFBX+NdpJ4APuQDvqKKKACiiigAooooAKKKKACsvVNETUbuC8ivbqwu4I3iWe12bij43KQ6sCMqp6ZBH1zqUUAVtOsINL023sbNSsFvGI0BOTgDuT1PvVmiigAooooAKKKKAKT6XC+vRasWk8+K2e2VcjaVZlYnGM5yg7+tXaKKACiiigAooooAzPEGiR+IdHk06e6ubWKRlLtblNzAHO07lYFT3BHI46E1LpenTabC0c2p3eoA42G5SFfLA7ARxoMfXNXqKACiiigAooooAKxdV8NpqtxPJ/aV9aLdQC3uYrd02zIM8fMpKnDMMqQcH2BG1RQAyGGO2t44IECRRqERR0UAYAp9FFABRRRQAU2SNJY2jlVXRwVZWGQwPUEU6igDItPC+kWGttqljYwW85gEIEUKIqgEnIwM5O7BOegFa9FFABRRRQAUUUUAZup6OdQuobmDUbzT54keMPasnzK2Mgq6sp5AIOMj1wSDY0zTrfSNMgsLJSsECbV3HJPqSe5J5J9TVqigAooooAKKKKACsGHwlaQ30Uou7trWC6e7hsWZPJjlbJLD5d3VmIBbAJ6cDG9RQAUUUUAFFFFABVbUrFNT0q7sJpJI47qB4WeIgOoZSpKkg4PPHFWaKAGQwpb28cMS7Y41CKPQAYFPoooAKKKKACiiigDE1PwxDqV3czpf3tkbyAW90lsybZ0GcZ3KxBwzDK4OD7DGvBBHbW8cECBIokCIo/hUDAFSUUAFFFFABRRRQAhGVIPQ1j6b4bi0+8huJb+9v3toWgthdureShIzghQWJ2qNzFjgdeTnZooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD//Z)

Sound is having static but is audible.

**DSB-SC Coherent detector with incorrect frequency:**

%%%%%%%%COHERENT Detector with frequency 100.1%%%%%%%%%%%%%%5

carrier = cos(2\*pi\*100100\*t);

carrier = carrier'; % transpose to be a row matrix

% coherent (multiply msg with carrier)

coherent\_detector\_signal = send\_signal.\*carrier;

COHERENT\_DETECTOR\_SIGNAL = fftshift(fft(coherent\_detector\_signal));

% freq domain plot (befor Ideal LBF)

N = length(coherent\_detector\_signal);

F = linspace(-new\_fs/2,new\_fs/2,N);

figure(6)

subplot(7,1,1)

plot(t,msg\_resampled)

title('Msg signal in Time domain')

subplot(7,1,2)

plot(MSG\_F,MSG\_resampled\_MG)

title('Msg signal in Freq domain')

subplot(7,1,3)

plot(F,SEND\_SIGNAL\_ABS)

title('DSB-SC TX modulated msg in Freq domain')

subplot(7,1,4)

plot(t,send\_signal)

title('DSB-SC TX modulated msg in Time domain')

subplot(7,1,5)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (FREQ=100.1KHz) msg in frequency domain (befor Ideal LBF)')

%------------- LBF ---------------%

N = length(coherent\_detector\_signal);

n = N/new\_fs;

r\_limit = round((new\_fs/2-4000)\*n);

l\_limit = (N-r\_limit+1);

COHERENT\_DETECTOR\_SIGNAL([1:r\_limit l\_limit:N]) = 0;

coherent\_detector\_signal\_LPF = real(ifft(ifftshift(COHERENT\_DETECTOR\_SIGNAL)));

%------------- LBF ---------------%

% As a result of multipling the received signal with carrier there will be high freq components

% at 2fc. So, we put the filter to remove them.

% freq domain plot (after Ideal LBF)

subplot(7,1,6)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (FREQ=100.1KHz) msg in frequency domain ')

% time domain plot

subplot(7,1,7)

plot(t,coherent\_detector\_signal\_LPF)

title('DSB RX-Coherent (FREQ=100.1KHz) msg in Time domain')

original\_msg = resample(coherent\_detector\_signal\_LPF,fs,new\_fs);

%sound(original\_msg,fs)

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\DSB-SC Coherent (FREQ=100.1KHz).wav',original\_msg,fs);

![Timeline

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhZ2FpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMxMwAAkpIAAgAAAAMxMwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Not only the sound is attenuated but the message is messed up.

**DSB-SC Coherent detector with incorrect Phase:**

%%%%%%%%COHERENT Detector with phase shift 20 degrees %%%%%%%%%%%%%%5

carrier = cos(2\*pi\*fc\*t+20/180\*pi);

carrier = carrier'; % transpose to be a row matrix

% coherent (multiply msg with carrier)

coherent\_detector\_signal = send\_signal.\*carrier;

COHERENT\_DETECTOR\_SIGNAL = fftshift(fft(coherent\_detector\_signal));

% freq domain plot (befor Ideal LBF)

N = length(coherent\_detector\_signal);

F = linspace(-new\_fs/2,new\_fs/2,N);

figure(7)

subplot(7,1,1)

plot(t,msg\_resampled)

title('Msg signal in Time domain')

subplot(7,1,2)

plot(MSG\_F,MSG\_resampled\_MG)

title('Msg signal in Freq domain')

subplot(7,1,3)

plot(F,SEND\_SIGNAL\_ABS)

title('DSB-SC TX modulated msg in Freq domain')

subplot(7,1,4)

plot(t,send\_signal)

title('DSB-SC TX modulated msg in Time domain')

subplot(7,1,5)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (PHASE=20 degrees) msg in frequency domain (befor Ideal LBF)')

%------------- LBF ---------------%

N = length(coherent\_detector\_signal);

n = N/new\_fs;

r\_limit = round((new\_fs/2-4000)\*n);

l\_limit = (N-r\_limit+1);

COHERENT\_DETECTOR\_SIGNAL([1:r\_limit l\_limit:N]) = 0;

coherent\_detector\_signal\_LPF = real(ifft(ifftshift(COHERENT\_DETECTOR\_SIGNAL)));

%------------- LBF ---------------%

% As a result of multipling the received signal with carrier there will be high freq components

% at 2fc. So, we put the filter to remove them.

% freq domain plot (after Ideal LBF)

subplot(7,1,6)

COHERENT\_DETECTOR\_SIGNAL\_ABS = abs(COHERENT\_DETECTOR\_SIGNAL);

plot(F,COHERENT\_DETECTOR\_SIGNAL\_ABS)

title('DSB RX-Coherent (PHASE=20 degrees) msg in frequency domain ')

% time domain plot

subplot(7,1,7)

plot(t,coherent\_detector\_signal\_LPF)

title('DSB RX-Coherent (PHASE=20 degrees) msg in Time domain')

original\_msg = resample(coherent\_detector\_signal\_LPF,fs,new\_fs);

%sound(original\_msg,fs)

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\DSB-SC Coherent(PHASE=20 degrees).wav',original\_msg,fs);

![Timeline

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhZ2FpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMxNwAAkpIAAgAAAAMxNwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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mdM4Ix7devWuE8xzGIyzbASwXPAPrj8BXrXxw0ed9Q0zVIIHkRomt5HRSdpDblB7DO5sfQ1gfD/AOHp8R30p1yG8trP7N5kLqhTzGLYGCRgjg/pXoYavRp4SNTZHnYrD1qmMlT3bOFhmkt5kmgdo5I2DI6nBUjuDXS+IvHGteIrPTf7Q/dS2okCXEQKeaGAUn68EEjjnoKmuPhp4mOsXNpY6VcTQxzMkcz7UV15KtknHIGfxA6kV6H448A3WqaX4X07S4VVbT/Rp5VjH7tSFy5x2ypP1NOricP7SDdnvr20/UVHC4l05pXW2nfX9Dyu18a+IrKKSO11a4jEkaxE7slVAwAp/h4A5GDxXs+k/EKb/hHYZ73w1rrSxxJuaO1LrICANwYkZz/nvXIeDfhP9o1TUI/E24LZSLGqRH5ZcpnIb2yp6V7RHGsMSRxjCIoVRnoBXl5hXwzajGN/wPWy3D4pRcpyt5PUyrbxAbmziuBpGqR+Z1jkt9rp9QTmpF1sNjOm6iuVJ5tj1A6depqaw1NL+91O3SNkOn3S2zEn75MMcuR+EoH4Vdrx+aPY9vln/MZg1sFGYabqOFODm3wT9BnJpx1cjP8AxLb/AIJH+pHOB16960aKXNHsPll3ILO6+2QmTyJ4MMV2zptJ98elT0UVL3KV7alXUNQh0y0NxcpcOgIGLa2knfn/AGI1ZvxxXMeGb2LUNW8TXVus6RyaomFuLd4XGLO2HKOAw6dxz16V2Ncro/8AyMXir/sKR/8ApFbUhmzRRRQAUUUUAFFFFABRRRQBBeyXMVnI9hBHcXCj93FJL5asfQtg4/I1wWqX4t5vEn/CTQwWV5qGkRx29v53mibHnL5cZKgu25lO0DOXHWvRKKAMm3hhu9Ih0bVZBJc/Y4zcxCQhmGMEkgg4JBHvyKofD+KODwbDFCixxx3V2qIowFAuZQAB2FdLVLWNTj0bRbvUZ0aRLWFpCifefA4Ue5PH40AVbnwzp9zfT3ZfUIJbhg8v2TU7m3V2ChQxWORVztVRnGcAVH/wilh/z+a3/wCD29/+O0ulaxezavNpesWkFtdpbpcp9nmMiOjEqRkqpBUjnjByD6gbVAGJ/wAIpYf8/mt/+D29/wDjtB8JaeSCbvWsjof7dveP/ItbdFAGJ/widgM4vNb56/8AE9vf/jtH/CKWH/P5rf8A4Pb3/wCO1t0UAYn/AAilh/z+a3/4Pb3/AOO1D/wg+jfvvn1b9+4kl/4nV5+8YKFDN+95OFUZPYAdq35ZBFC8jBiEUsQilicegHJPsKx/DevSa9HqDy2MlibS8NssUxG8gRo4ZgOhO/p2+tAEM3grSLlo2uJNWmMTB4zJrV42xgcgjMvB4HIqUeE7AdLzWx/3Hb3/AOO1t0U7vYVle5if8IpYf8/mt/8Ag9vf/jtH/CKWH/P5rf8A4Pb3/wCO1t0UhmJ/wilh/wA/mt/+D29/+O0f8InYZz9s1vP/AGHb3/47W3Ve+uJbXT557e2e7ljjLJBGQGlYDhQTwM+tAGRH4M0qGSV4Z9YjeZ98rLrd4DI20LuY+bydqqMnsAO1O/4Q/TPO837TrPmbdu/+3LzdjrjPm9KdpWs302uXGk6ta28NzFbx3Ia1nMibWZl2tlVIOVP1H0rboAxP+EUsP+fzW/8Awe3v/wAdpG8I6c6lXu9aZWGCDrt6QR/39rcooAxB4TsAMC81sD/sO3v/AMdo/wCEUsP+fzW//B7e/wDx2tuigDE/4RSw/wCfzW//AAe3v/x2o4/BmlQySvDPrEbzPvlZdbvAZG2hdzHzeTtVRk9gB2rYvZpbaxnmt7ZrqWONmSBGCmRgOFBPAz05rK0PW7q/1O+06/gtkuLNY3d7Scyx5fd8hJUEOuzkejKe+KAF/wCEUsP+fzW//B7e/wDx2j/hFLD/AJ/Nb/8AB7e//Ha26KAMT/hFLD/n81v/AMHt7/8AHaP+EUsP+fzW/wDwe3v/AMdrbooAxB4TsB0vNbH/AHHb3/47R/wilh/z+a3/AOD29/8AjtbdIzBVLMQFAyST0oAwY/BmlQySvDPrEbzPvlZdbvAZG2hdzHzeTtVRk9gB2qT/AIRSw/5/Nb/8Ht7/APHaTw74j/4SCbUfLtmht7aZUgkY8zoyBhJjsDnI9sHvitygDE/4RSw/5/Nb/wDB7e//AB2j/hFLD/n81v8A8Ht7/wDHa26KAMT/AIRSw/5/Nb/8Ht7/APHaP+EUsP8An81v/wAHt7/8drbooAxP+EUsP+fzW/8Awe3v/wAdqOPwZpUMkrwz6xG8z75WXW7wGRtoXcx83k7VUZPYAdq365Pwl4vn8Tz70bR/s5iMoitr8y3KKT8u+PYAuR154oA0f+EUsP8An81v/wAHt7/8do/4RSw/5/Nb/wDB7e//AB2tuigDE/4RSw/5/Nb/APB7e/8Ax2j/AIRSw/5/Nb/8Ht7/APHa26KAMT/hFLD/AJ/Nb/8AB7e//HaP+EUsP+fzW/8Awe3v/wAdrbpksqQwvLKdqIpZj6AdaAMOPwZpUMkrwz6xG8z75WXW7wGRtoXcx83k7VUZPYAdqk/4RSw/5/Nb/wDB7e//AB2qfhvxXNr16qCGx8qSDzilvfLJPbZxtWaPAKlgc8ZwQQexrp6AMT/hFLD/AJ/Nb/8AB7e//HaP+EUsP+fzW/8Awe3v/wAdrbooAxP+EUsP+fzW/wDwe3v/AMdo/wCEUsP+fzW//B7e/wDx2tuigDE/4RSw/wCfzW//AAe3v/x2o4/BmlQySvDPrEbzPvlZdbvAZG2hdzHzeTtVRk9gB2refdsbywC2PlDHAJrmtL1rXp/FD6VqOn6cscMHnTzWl3JJ5RY4RSGjXlsE47AZPUZALMng/TZU2S3OsupIO1tcvSODkf8ALWnf8IpYf8/mt/8Ag9vf/jtbdFAGJ/wilh/z+a3/AOD29/8AjtH/AAilh/z+a3/4Pb3/AOO1t0UAYn/CKWH/AD+a3/4Pb3/47R/wilh/z+a3/wCD29/+O1t0UAYEfgzSoZJXhn1iN5n3ysut3gMjbQu5j5vJ2qoyewA7VJ/wilh/z+a3/wCD29/+O1n+HPGM2t6jb28trbxrdWr3KCC4MklsFZRsnXaNjHd055Vh2zXV0AYn/CKWH/P5rf8A4Pb3/wCO0f8ACKWH/P5rf/g9vf8A47W3RQBif8IpYf8AP5rf/g9vf/jtH/CKWH/P5rf/AIPb3/47W3RQBif8IpYf8/mt/wDg9vf/AI7V7TNJtNIimSyEx8+TzZXnuJJ3kfaq5LyMWPyqo69AKtTSrb28k0mdkalmwOwGa53R/E93eXWmJqVjBbR6vbtcWZiuDIwACttcbQAdrA5BI4I9CQDpaKKKACiiigAooooAKKKKACiiigArP17TDrPh++05ZfJa5hZEkxnY2ODjvg44rQooAwtL03UX8QTaxrKWsMxtEtYorWVpAAGLMxZlXqSABjgL1543aKKACiiigAooooAKytF0ubTbrWJZ2jZb6/NzHsJOFMUaYOR1yh9e1atFABRRRQAUUUUAFVdU+3nSrkaP9n+3GMiA3JIjD9i2ATj8KtUUAc94V0zUtMSZdUs7RZZsSTXkd89xLcydMvuiQAY6AcAcAAV0NFFABRRRQAUUUUAV79LqTT500+ZILpoyIZJE3Kr44JHcZrF0XR76HxDd6vfW9lYme3SE29lIXWRgxYyOSi5POBx0784HRUUAFFFFABRRRQAVT1bTItZ0m40+4kljiuE2O0TANjuOQevQ+oJq5RQBz+geHLjRtY1S6m1G4u4rto/LWVlJAVFXLYUc5GBjjGK6CiigAooooAKKKKAGupaNlBwSCASM4rmdO0TVn1fSrnVY9PgXSreSJDZM378uAv3SoEa4XO0Fucc8ZPUUUAFFFFABRRRQAVFc26XdpNby/cmRkbHoRg1LRQByOheGNQsbvRRerYwwaLaPbRSWrsWudwVcspUBBhdxGW+Y9eOeuoooAKKKKACiiigArK0LS5tO/tGa8aN7i+vpbhmQk/JnbGOR1EaoD2zn61q0UAFFFFABRRRQAUyaMywSRq7Rl1Kh16rkdRT6KAOP8P8Aha+07UNLluINPtE061e3eWydi96TgZcFBgcbuSx3Hr3PYUUUAFFFFABRRRQAjDKkDuO4rjtA8HTWOtWd9d2tha/YYZEQWc0jiV3wCwVwBEmAfkXIy3X5RnsqKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//Z)

* Sound is attenuated but is intact.

**DSB-TC Sender and envelope detector:**

%%%%%%%%% DSP TC %%%%%%

A = max(msg\_resampled)\*2 ; % Amplitude of carier is double max value m=0.5

% modulating

carrier = cos(2\*pi\*fc\*t);

carrier = carrier';

send\_signal = (A + msg\_resampled).\*carrier;

% freq domain

SEND\_SIGNAL = fftshift(fft(send\_signal));

SEND\_SIGNAL\_ABS = abs(SEND\_SIGNAL);

N = length(send\_signal);

F = linspace(-new\_fs/2,new\_fs/2,N);

figure(7)

subplot(2,1,1)

plot(F,SEND\_SIGNAL\_ABS)

title('DSB-TC TX modulated msg in freq domain')

%------------------------- RX --------------------------%

%------------- Envelop--------------%

envelop = abs(hilbert(send\_signal));

subplot(2,1,2)

plot(t,envelop)

title('DSB-TC RX-Envelop msg in time domain')

original\_msg = resample(envelop,fs,new\_fs);

%sound(original\_msg,fs)

%audiowrite('C:\Users\Ragai\Desktop\Analog Project\DSB-TC.wav',original\_msg,fs);

![Graphical user interface

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJhZ2FpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3OQAAkpIAAgAAAAM3OQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Experiment 2**

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| clear; clc;  % orignal sound  [xin ,fs] = audioread('eric.wav'); audio\_length= length(xin)./fs; t=linspace(0,audio\_length,length(xin));  figure (1) subplot(2,1,1) plot(t,xin) title('signal in Time domain')  f\_xin=fftshift(fft(xin)); f\_xin\_mg= abs(f\_xin); N = length(xin);  f\_vec = linspace(-fs/2,fs/2,N);  subplot(2,1,2) plot(f\_vec,f\_xin\_mg) title(' signal in Frequency domain')    %%%%%%%%%LPF%%%%%%%%% %filter at 4khz n = N/fs;  right\_band = round((fs/2-4000)\*n); left\_band = (N-right\_band+1); f\_xin([1:right\_band left\_band:N]) = 0;  figure(2) subplot(2,1,2) plot(f\_vec,abs(f\_xin))  title('LPF(4khz) Signal in Frequency domain') xin = real(ifft(ifftshift(f\_xin)));    subplot(2,1,1) plot(t,xin) title('LPF(4khz) Signal in Time domain') |

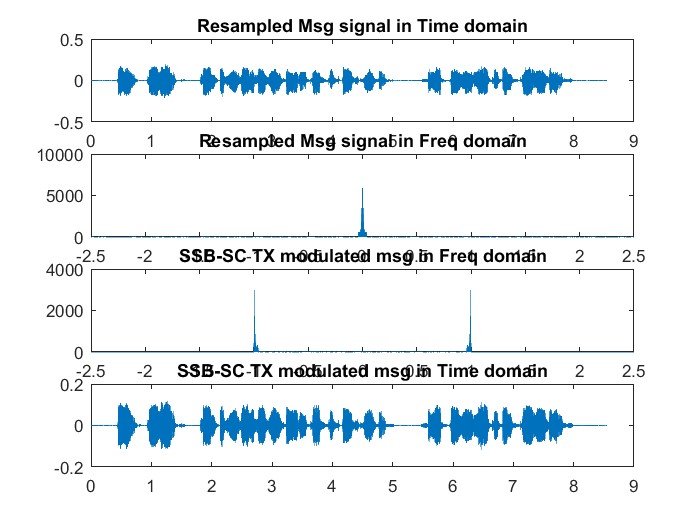
**transmitter**

fc = 100000; fs\_new = 5\*fc; msg\_resampled = resample(xin,fs\_new,fs); t\_end = length(msg\_resampled)./fs\_new;

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| t = linspace(0,t\_end, length(msg\_resampled));    % modulation  carrier = cos(2\*pi\*fc\*t); carrier = carrier';  transmitted\_m = msg\_resampled.\*carrier; f\_transmitted\_m= fftshift(fft(transmitted\_m));    f\_t\_magnitude= abs(f\_transmitted\_m); N=length(transmitted\_m);  f\_vec = linspace(-fs\_new/2,fs\_new/2,N);    % get the LSB usin LPF N = length(msg\_resampled); n = N/fs\_new; right\_band = round((fs\_new/2-100000)\*n); left\_band = (N-right\_band+1);  f\_transmitted\_m([1:right\_band left\_band:N]) = 0; f\_t\_magnitude = abs(f\_transmitted\_m);  transmitted\_m = real(ifft(ifftshift(f\_transmitted\_m)));    t\_end = length(transmitted\_m)./fs\_new; t = linspace(0,t\_end, length(transmitted\_m));    figure (3) subplot(4,1,1) plot(t,msg\_resampled)  title('Resampled Msg signal in Time domain')    f\_resampled=fftshift(fft(msg\_resampled)); f\_resampled\_mg=abs(f\_resampled); N = length(f\_transmitted\_m);  f\_vec = linspace(-fs\_new/2,fs\_new/2,N);    subplot(4,1,2)  plot(f\_vec,f\_resampled\_mg)  title('Resampled Msg signal in Freq domain')    subplot(4,1,3) plot(f\_vec,abs(f\_transmitted\_m))  title('SSB-SC TX modulated msg in Freq domain') |

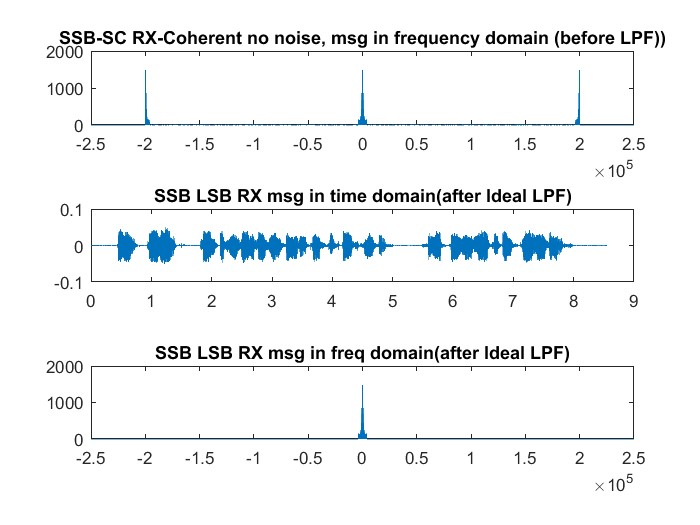
subplot(4,1,4) plot(t,transmitted\_m)

title('SSB-SC TX modulated msg in Time domain')



**receiver**

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| %%%%%% Ideal LPF receiver %%%%%%%%%%%%% ideal\_rx(transmitted\_m,t,f\_vec,fs\_new,fs);    function ideal\_rx(transmitted\_m,t,f\_vec,fs\_new,fs) received\_message = transmitted\_m.\*(cos(2\*pi\*100000\*t)'); f\_received\_message = fftshift(fft(received\_message)); received\_message\_mg = abs(f\_received\_message);  figure subplot(3,1,1)  plot(f\_vec,received\_message\_mg)  title('SSB-SC RX-Coherent no noise, msg in frequency domain (before LPF))')  %%%%%%%%%%%%%%%%%%%%%%%%%%%%%Ideal LPF%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  %LPF to remove signal @ 2fc left\_band = (N-right\_band+1); f\_received\_message([1:right\_band left\_band:N]) = 0; received\_message\_mg = abs(f\_received\_message); |
| received\_message = real(ifft(ifftshift(f\_received\_message)));  subplot(3,1,2) plot(t,received\_message) title('SSB LSB RX msg in time domain(after Ideal LPF)')  subplot(3,1,3)  plot(f\_vec,received\_message\_mg) title('SSB LSB RX msg in freq domain(after Ideal LPF)') original\_msg = resample(received\_message,fs,fs\_new);  %sound(original\_msg, fs) |



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| %%%%%%%%%%%%%%%%%%%%%%%%%%%%%Butterworth filter%%%%%%%%%%%%%%%%%%%%%%%%%%%%% transmitted\_m = msg\_resampled.\*carrier;    f\_transmitted\_m = fftshift(fft(transmitted\_m)); f\_transmitted\_mg = abs(f\_transmitted\_m); N = length(transmitted\_m);  f\_vec = linspace(-fs\_new/2,fs\_new/2,N);    %plot in freq figure(5) subplot(2,1,1)  plot(f\_vec,f\_transmitted\_mg)  title('SSB TX modulated msg in freq domain') |

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| --- |
| % butterworth bandpass filter to filterout the USB  [b, a]= butter(4, [(fc-4000)/(fs\_new/2) fc/(fs\_new/2)], 'bandpass');  tx\_msg\_LSB = filter(b,a,transmitted\_m);  %plot in freq figure(5) subplot(2,1,2) plot(f\_vec,TX\_msg\_LSB\_F\_mg)  title('SSB LSB TX modulated msg in freq domain (Butterworth)')    tr\_msg\_coh = tx\_msg\_LSB.\*carrier;    tr\_msg\_coh\_F = fftshift(fft(tr\_msg\_coh)); tr\_msg\_coh\_F\_mg = abs(tr\_msg\_coh\_F);    %plot in freq figure(6) subplot(3,1,1) plot(f\_vec,tr\_msg\_coh\_F\_mg)  title('SSB LSB RX msg in freq domain(before LPF)')  %------------- LBF ---------------% N = length(tr\_msg\_coh); n = N/fs\_new;  right\_band = round((fs\_new/2-4000)\*n); left\_band = (N-right\_band+1);  tr\_msg\_coh\_F([1:right\_band left\_band:N]) = 0; tr\_msg\_coh\_F\_mg = abs(tr\_msg\_coh\_F);  tr\_msg\_coh\_LPF = real(ifft(ifftshift(tr\_msg\_coh\_F)));  %------------- LBF ---------------% subplot(3,1,2)  plot(f\_vec,tr\_msg\_coh\_F\_mg)  title('SSB LSB RX msg in freq domain(after LPF)')    subplot(3,1,3) plot(t,tr\_msg\_coh\_LPF) title('SSB LSB RX msg in time domain(after LPF)')  %original\_msg = resample(tr\_msg\_coh\_LPF,fs,fs\_new); |

%sound(original\_msg, fs)

Chart, box and whisker chart

Description automatically generated

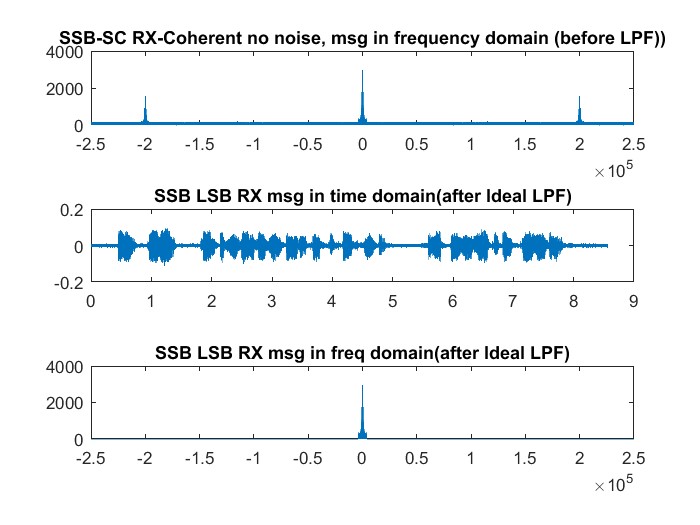
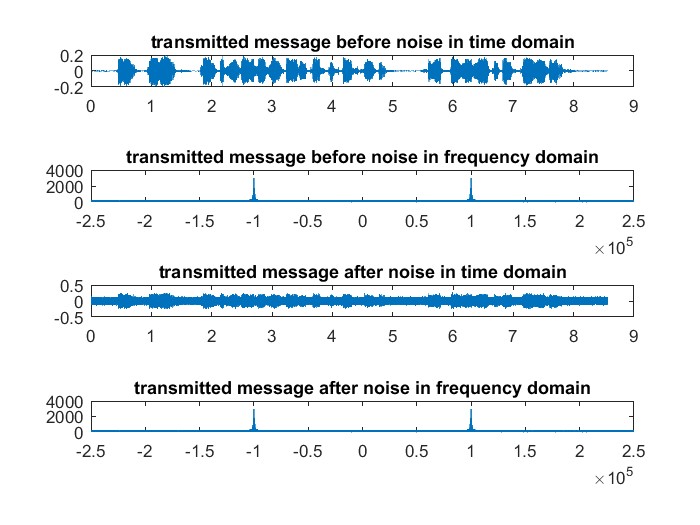
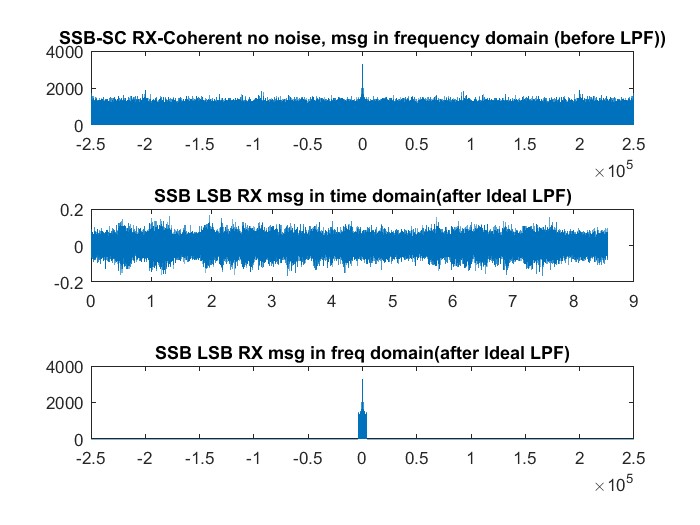
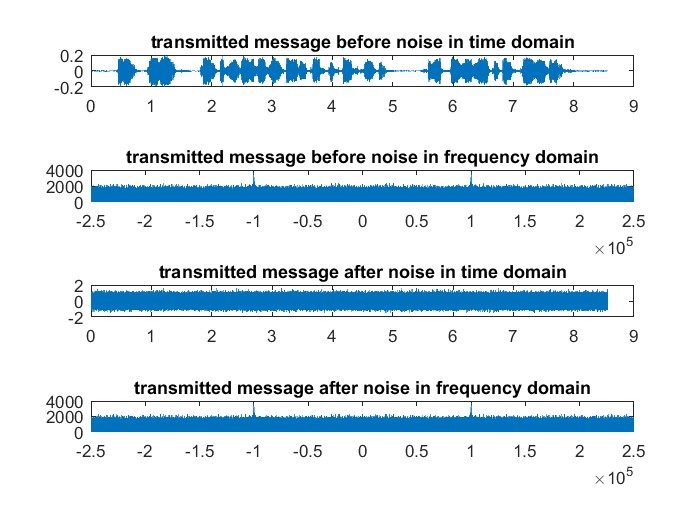
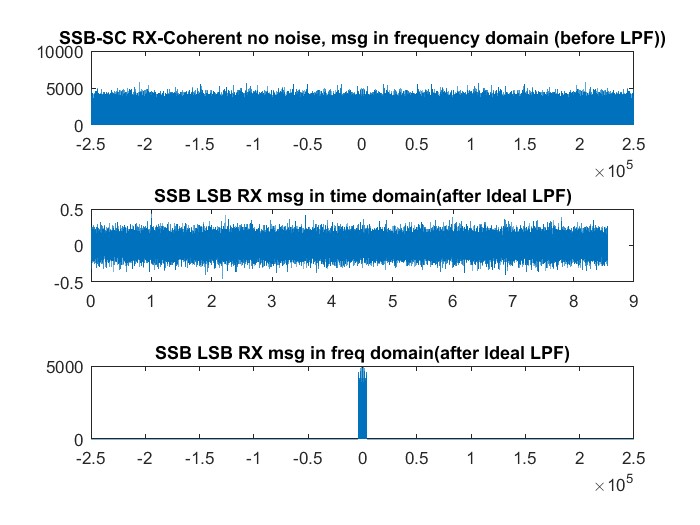
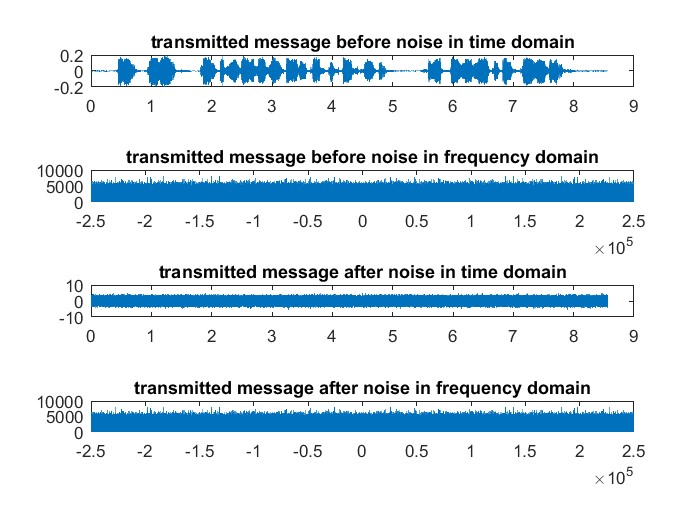
**A picture containing chart

Description automatically generated**

**noise**

|  |
| --- |
| n\_snr=0;  add\_noise(transmitted\_m,t,f\_vec,n\_snr); message\_noise= awgn(transmitted\_m, n\_snr); ideal\_rx(message\_noise,t,f\_vec,fs\_new,fs);  n\_snr=10; add\_noise(transmitted\_m,t,f\_vec,n\_snr); message\_noise= awgn(transmitted\_m, n\_snr); ideal\_rx(message\_noise,t,f\_vec,fs\_new,fs);  n\_snr=30; add\_noise(transmitted\_m,t,f\_vec,n\_snr); message\_noise= awgn(transmitted\_m, n\_snr); ideal\_rx(message\_noise,t,f\_vec,fs\_new,fs);  %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% function add\_noise(transmitted\_m,t,f\_vec, n\_snr)    message\_noise= awgn(transmitted\_m, n\_snr); f\_transmitted\_m=abs(fftshift(fft(message\_noise))); f\_message\_noise=fftshift(fft(message\_noise)); f\_noise\_mg=abs(f\_message\_noise);  figure subplot(4,1,1) |

|  |
| --- |
| plot(t,transmitted\_m)  title('transmitted message before noise in time domain')    subplot(4,1,2) plot(f\_vec,f\_transmitted\_m)  title('transmitted message before noise in frequency domain')    subplot(4,1,3) plot(t,message\_noise)  title('transmitted message after noise in time domain')    subplot(4,1,4) plot(f\_vec,f\_noise\_mg)  title('transmitted message after noise in frequency domain') |



|  |
| --- |
| **9) SSB-TC:**  clear; clc;  [xin ,fs] = audioread('eric.wav'); audio\_length= length(xin)./fs; t=linspace(0,audio\_length,length(xin));    f\_xin=fftshift(fft(xin)); f\_xin\_mg= abs(f\_xin); N = length(xin);  f\_vec = linspace(-fs/2,fs/2,N);      %%%%%%%%%LPF%%%%%%%%% %filter at 4khz n = N/fs; right\_band = round((fs/2-4000)\*n); left\_band = (N-right\_band+1); f\_xin([1:right\_band left\_band:N]) = 0;  figure(1) subplot(2,1,2) plot(f\_vec,abs(f\_xin))  title('LPF(4khz) Signal in Frequency domain') xin = real(ifft(ifftshift(f\_xin)));  subplot(2,1,1) plot(t,xin) title('LPF(4khz) Signal in Time domain') |

**transmitter**

fc = 100000;

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| fs\_new = 5\*fc;  msg\_resampled = resample(xin,fs\_new,fs); A=max(msg\_resampled)\*2;  t\_end = length(msg\_resampled)./fs\_new; t = linspace(0,t\_end, length(msg\_resampled));    % modulation  carrier = cos(2\*pi\*fc\*t); carrier = carrier';  transmitted\_m = (A+msg\_resampled).\*carrier; f\_transmitted\_m= fftshift(fft(transmitted\_m)); f\_transmitted\_mg= abs(f\_transmitted\_m); N=length(transmitted\_m); f\_vec = linspace(-fs\_new/2,fs\_new/2,N);          % get the LSB usin LPF N = length(transmitted\_m); f\_vec = linspace(-fs\_new/2,fs\_new/2,N); index = f\_vec>=fc+1; f\_transmitted\_mg(index) = 0;  % remove frequencies < -fc (remove negative HSB) index2 = f\_vec<=(-fc); f\_transmitted\_mg(index2) = 0; f\_transmitted\_mg = abs(f\_transmitted\_mg);  t\_end = length(transmitted\_m)./fs\_new; t = linspace(0,t\_end, length(transmitted\_m));    figure (2) subplot(4,1,1) plot(t,msg\_resampled)  title('Resampled Msg signal in Time domain')    f\_resampled=fftshift(fft(msg\_resampled)); f\_resampled\_mg=abs(f\_resampled); N = length(f\_transmitted\_mg); f\_vec = linspace(-fs\_new/2,fs\_new/2,N);  subplot(4,1,2) |
| plot(f\_vec,f\_resampled\_mg)  title('Resampled Msg signal in Freq domain')    subplot(4,1,3) plot(f\_vec,abs(f\_transmitted\_mg))  title('SSB-SC TX modulated msg in Freq domain')    subplot(4,1,4) plot(t,transmitted\_m)  title('SSB-SC TX modulated msg in Time domain') |

A screenshot of a computer

Description automatically generated with medium confidence

Zoomed version of the SSB-SC in frequency domain

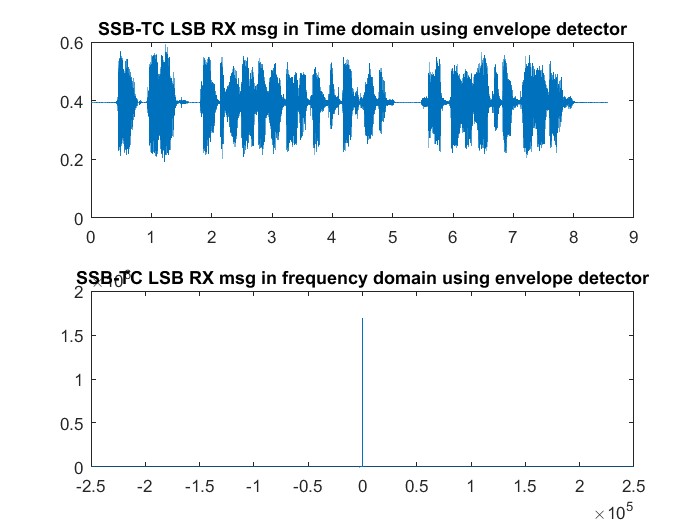
Timeline

Description automatically generated with medium confidence

**receiver**

transmitted\_m = real(ifft(ifftshift(f\_transmitted\_m))); t\_end = length(transmitted\_m)./fs\_new; t = linspace(0,t\_end, length(transmitted\_m)); envelope = abs(hilbert(transmitted\_m)); figure(3) subplot(2,1,1) plot(t,envelope)

|  |
| --- |
| title('SSB-TC LSB RX msg in Time domain using envelope detector') f\_envelope= fftshift(fft(envelope)); f\_envelope\_mg= abs(f\_envelope); subplot(2,1,2) plot(f\_vec,f\_envelope\_mg)  title('SSB-TC LSB RX msg in frequency domain using envelope detector') original\_msg = resample(envelope,fs,fs\_new); sound(original\_msg, fs) |



Zoomed SSB-TC after envelope detector

Chart

Description automatically generated

**Experiment 3**

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**Chart

Description automatically generated**

**Chart, histogram

Description automatically generated**

**Chart

Description automatically generated**

**Chart, histogram

Description automatically generated**

**Text

Description automatically generated**

**Chart, histogram

Description automatically generated**

Chart

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Chart

Description automatically generated

Chart

Description automatically generated

Chart

Description automatically generated

**Comments:**

* Frequency has a latent immunity against noise. Since it resides “away” from the amplitude, any changes in the amplitude would be completely irrelevant to the frequency. In other words, there is no direct correlation between the variation in amplitude and frequency, thus making FM a better candidate over AM with respect to noise immunity.
* what FM gains in noise immunity lacks in bandwidth efficiency. Since FM usually occupies larger bandwidth, AM is considered more bandwidth wise.
* The output signal of NBFM is same as the original signal but it contains little noise.
* In NBFM, the BW of the modulated signal is equal to 2fm, this means that the spectrum, modulator, and demodulator are same as DSB-Tc.