```
clc; clear all;
%%least Square finished
f = [0 0.249 0.25 0.5 0.501 1]; % Set the bandpass frequencies Works pakka!!
a=[0 0 1 1 0 0];                % Amplitude values at each region
w=[0.075,0.1,0.075];              % Scaling values at each region
Mls=49;
b=firls(Mls,f,a,w);             % Coefficients of Least square filter
N = 1024;
z = [0:2*N]*pi/N;
[H,W]=freqz(b,1,z);           % Magnitude and phase response

%%Cheby
Mcheby=6;             %order of the filter 3.54%
[b3,a3] = cheby2(Mcheby,20.0206,[0.2495 0.5115],'bandpass'); %Coefficients
[Hc,Wc]=freqz(b3,a3,z);

%%REMEZ
M=45;
a=[0 0 1 1 0 0];                 % Amplitude values at each region
w=[0.8,0.09,0.8];               % Scaling values at each region
N = 1024;
z = [0:2*N]*pi/N;
f1=[0 0.2 0.255 0.5 0.5475 1]; % frequencies
b1=firpm(M,f1,a,w);            % Coefficients of filter
[H1,W1]=freqz(b1,1,z);
```

Published with MATLAB® R2014b