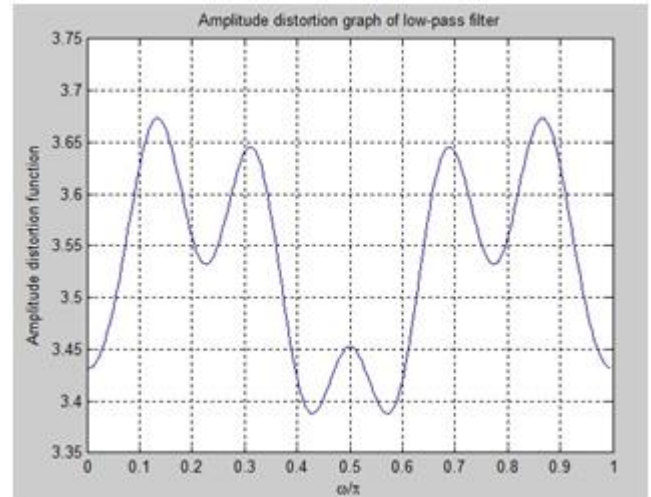
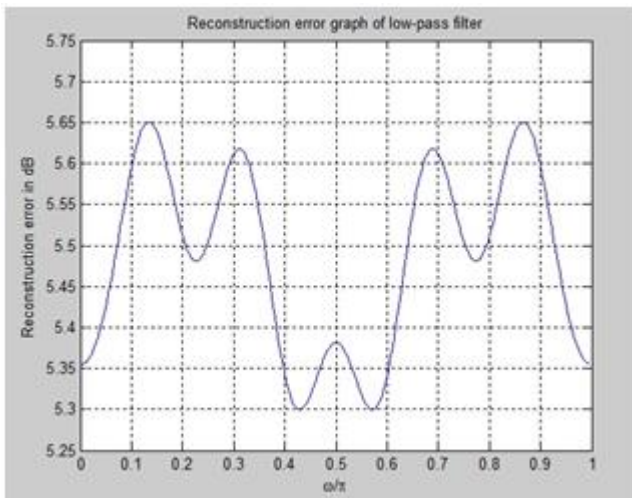


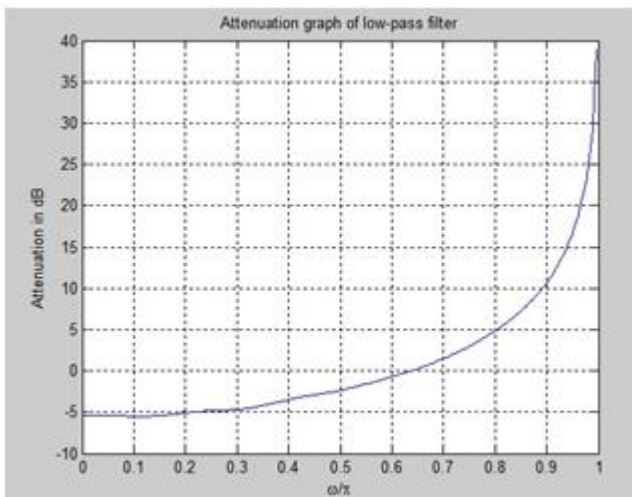
**Figure 4(a):** Gain of the analysis filter



**Figure 4(d):** Amplitude distortion function graph



**Figure 4(b):** Reconstruction error graph



**Figure 4(c):** Attenuation graph of analysis filter

Effectiveness of the proposed algorithm is shown in terms of sharp cut off, broader bandwidth, less NOI and less CPU time required. Graphs here shown is at  $N=32$ .

Figure 4(a) and 4(b), show the gain and reconstruction error graph of for the analysis filter respectively. While figure 4(c) and 4(d) gives the attenuation and distortion graph for the same respectively.

Table 1 gives performance summary of the proposed filter at the different filter orders.

**Table 1:** Performance Parameters of the Filter

Filter order	Bands	CPU time	NOI	$A_s$
20	2	0.0371	91	-2.4093
32	2	0.12458	91	-2.3966
40	2	0.102295	91	-2.3962
60	2	0.056411	91	-2.3975

Simulation result show that the proposed method gives the better result in terms of computation time, number of iteration and stop-band edge attenuation.

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