

Figure 4: signal given to companding

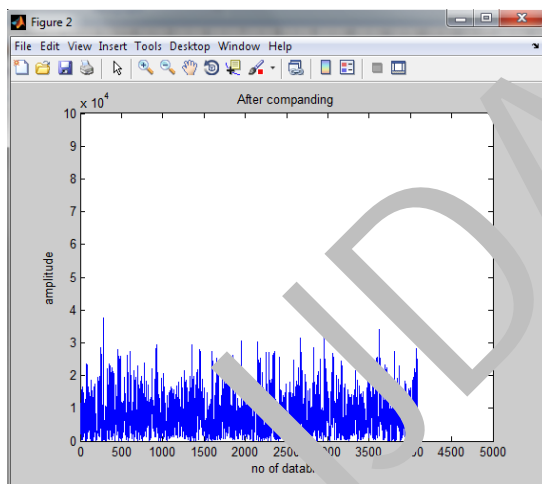


Figure 5: signal after companding

Figure 5 shows the signal with reduced peak-to-average power ratio.

IV. CONCLUSIONS

A new PAPR reduction scheme for OFDM systems is proposed in this project. Technique of reducing the PAPR of OFDM signals by Cascading of Selective and Companding methods has been presented. Simulation results has shown that the companded OFDM transmissions could overcome peak power problems, In general, these results have demonstrated that reduction in PAPR can be significant when companding is cascaded with Selective mapping technique.

Future research will concentrate on investigating and quantifying further the influence of PAPR as a

function of different modulation mapping schemes, OFDM subcarrier levels, and companding PR levels and phasing schemes.

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