









Figure.5: PSD of SDM in real time condition with optimized gain values

#### IV. CONCLUSION

In this paper, GA has been successfully used to improve the performance of a 2-2 cascaded feed forward sigma-delta ADC, which is proposed for WLAN applications. The coefficients were optimized using GA which results in an extended dynamic range. It has also been applied to a traditional second order feedback topology to find peak SNR values with good stability. Design examples and numerical results demonstrate the effectiveness of our proposed method.

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