

Figure 10: Mixer output

The CIC filter filtered this base band signal and obtained some droop in the signal as shown in figure 11.



Figure 11: CIC Filter Output

The droop which is obtained in the CIC filter as shown in figure 12.

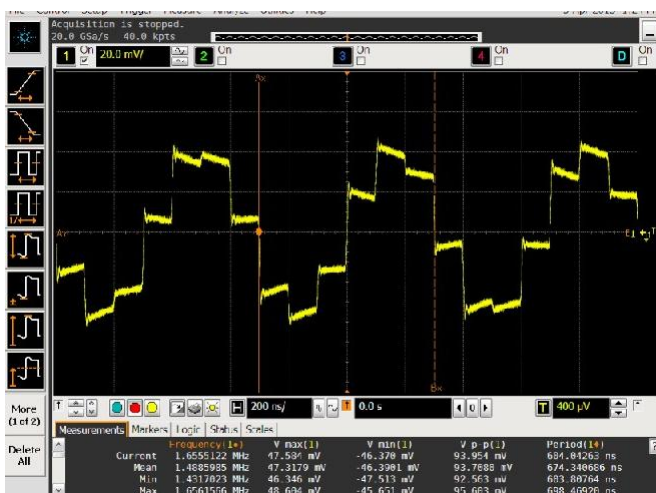


Figure 12: CFIR Output

4. Conclusions

In this paper, implemented a digital receiver having band width 5 MHz with intermediate carrier frequency of 70 MHz using Xilinx IP cores. This IF signal is decimated and filtered through different filtering sections in DDC and got base band signal. Finally, obtained the base band signal with minimum noise and more spectral density.

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