

Datasheet described max value of R2 is 160kohm and set R1 to 12.5kohm. So the minimum Vout calculated is $(0.8 * (1 + R1/R2)) = 0.8 * (1 + 12.1k/160k) = 0.875625V$.

To achieve Vout between 0.8V to 0.875625V, R1 can be decreased. Decreasing R1 can also reduce PSRR and noise. Suggest to keep R2 value below 160kohm.