

LDO

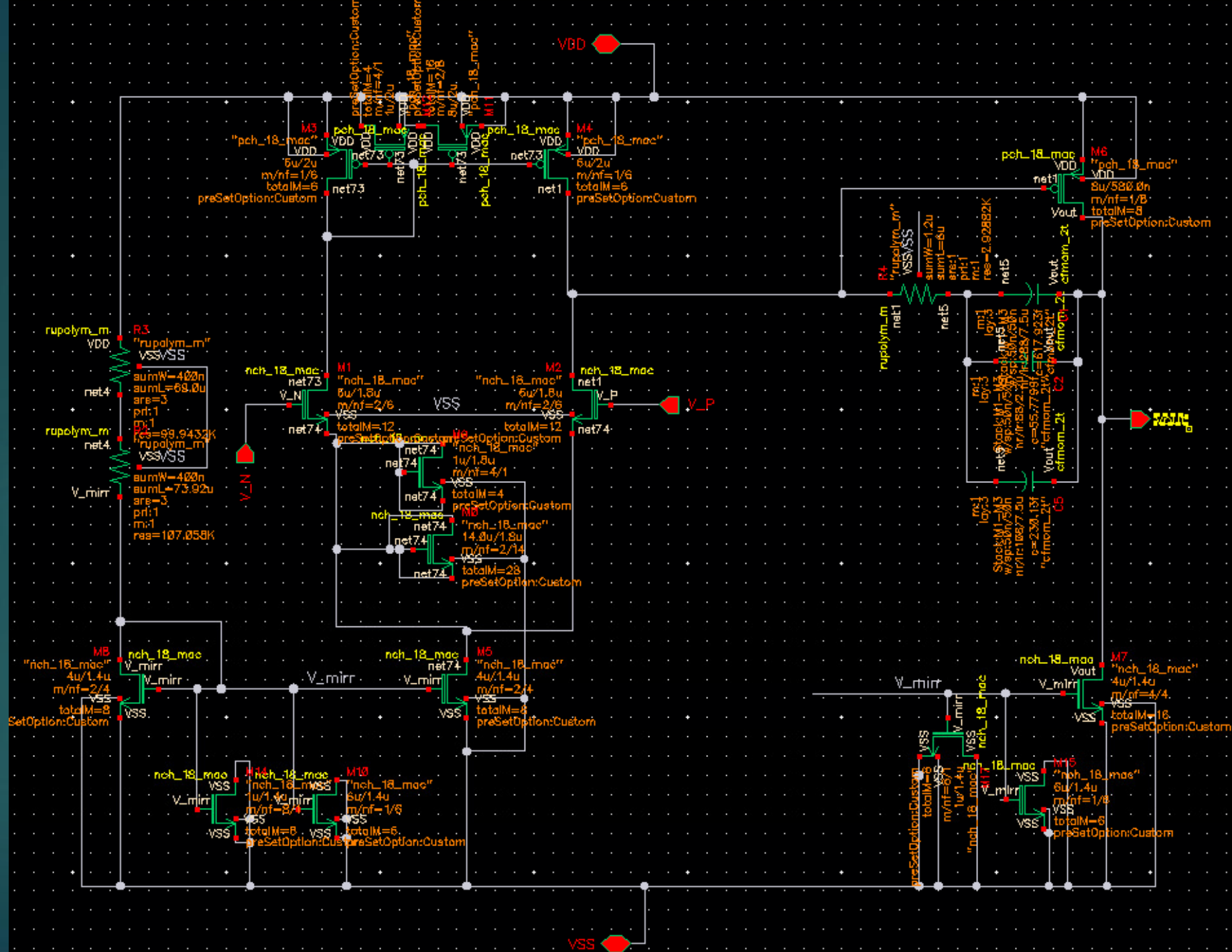


Previous Week:

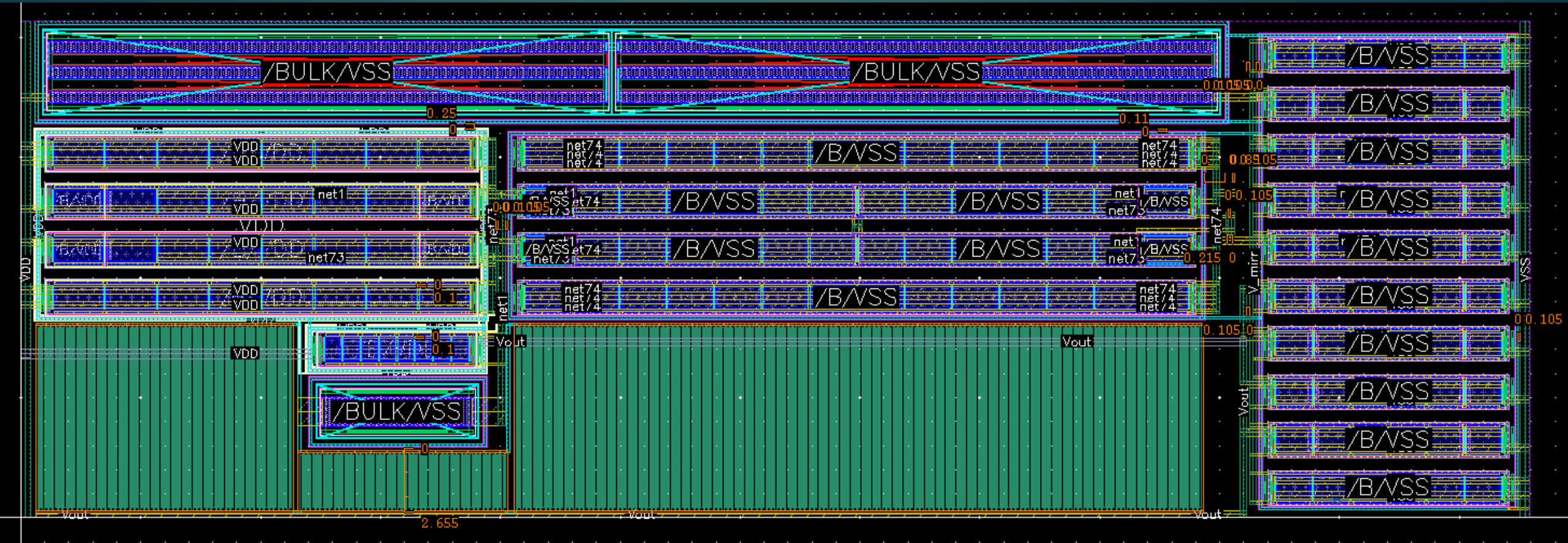
- Completed another OTA layout with additional dummies.
- Met with Pini to review and verify the design — aside from minor issues, it was accepted.
- Post-layout simulation results are fine.

Next:

- Continue building and testing the BGR layout.
- Poster

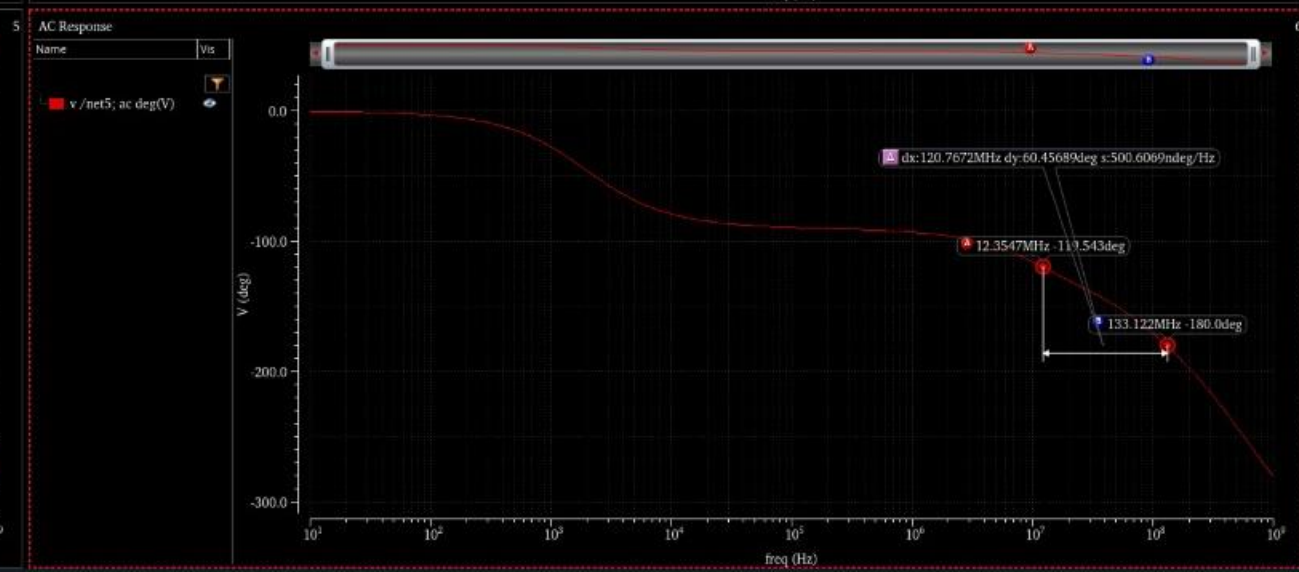
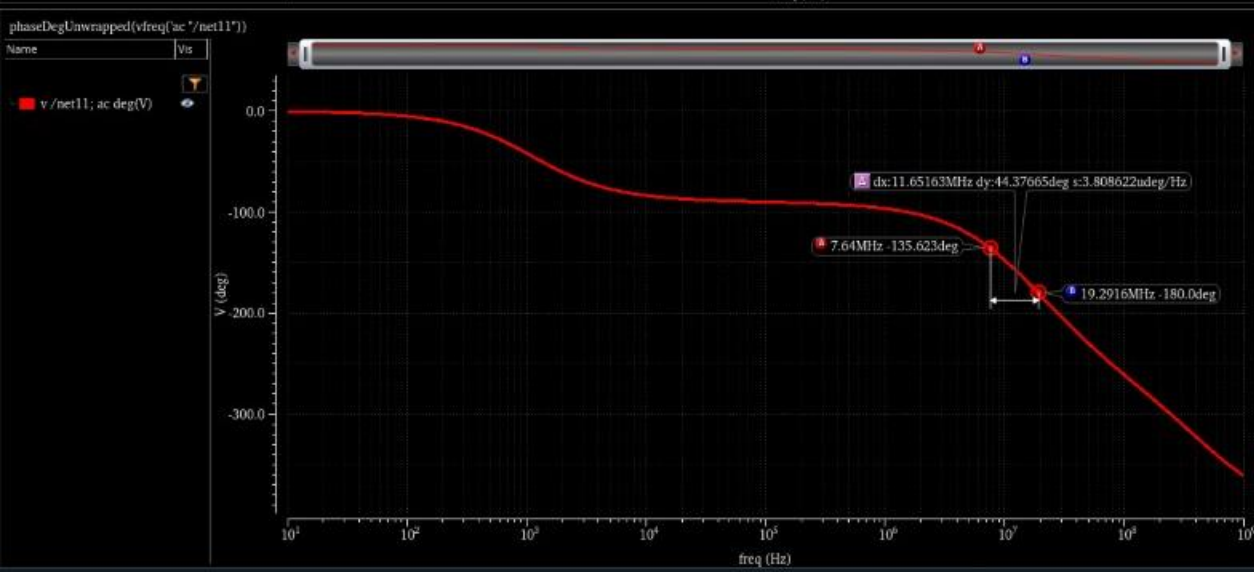
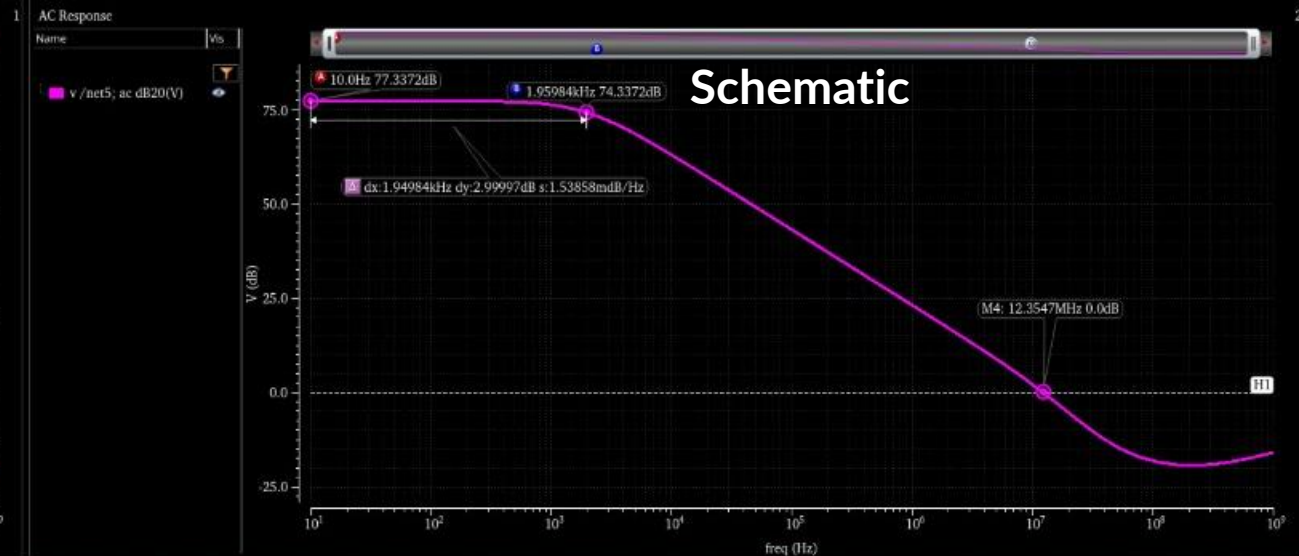
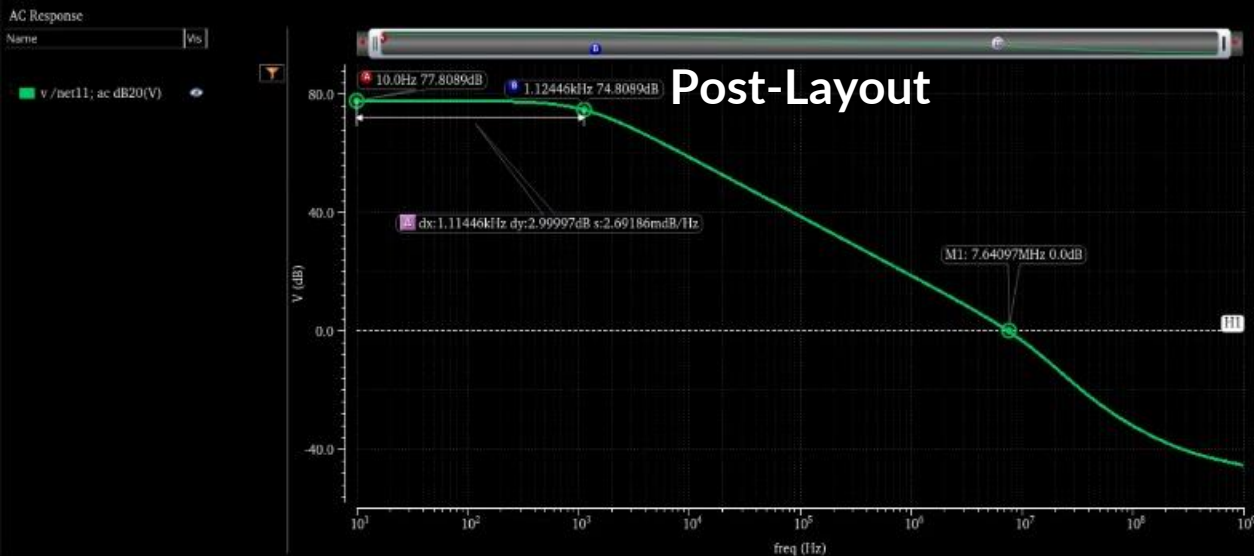


OTA - Layout



OTA – Post Layout AC Response

Post-layout, the GBW decreased from 12.5MHz to 7.6MHz. The PM decreased from 60deg to 52deg. Gain slightly increased to 77.8dB. Parasitic capacitances increased effective C_C . Non-dominant pole also shifted closer.



LDO Results With OTA QRC

Max fluctuation is 1mV, approx. $\frac{V_{refmax} - V_{refmin}}{V_{refavg} * \Delta T} * 10^6 = 6.7 \frac{ppm}{^{\circ}C}$

