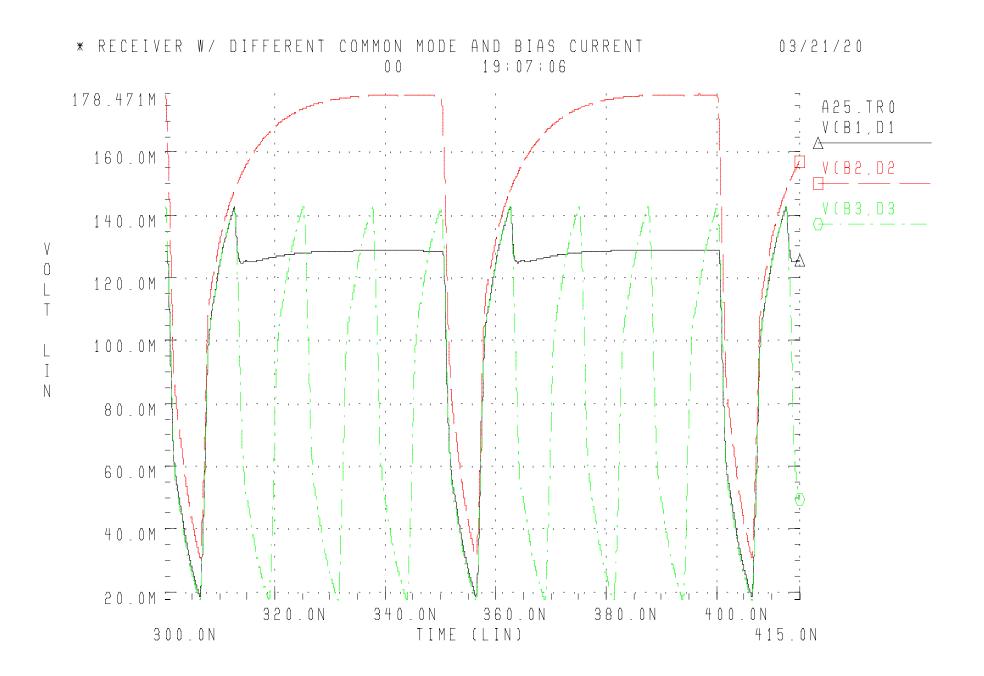
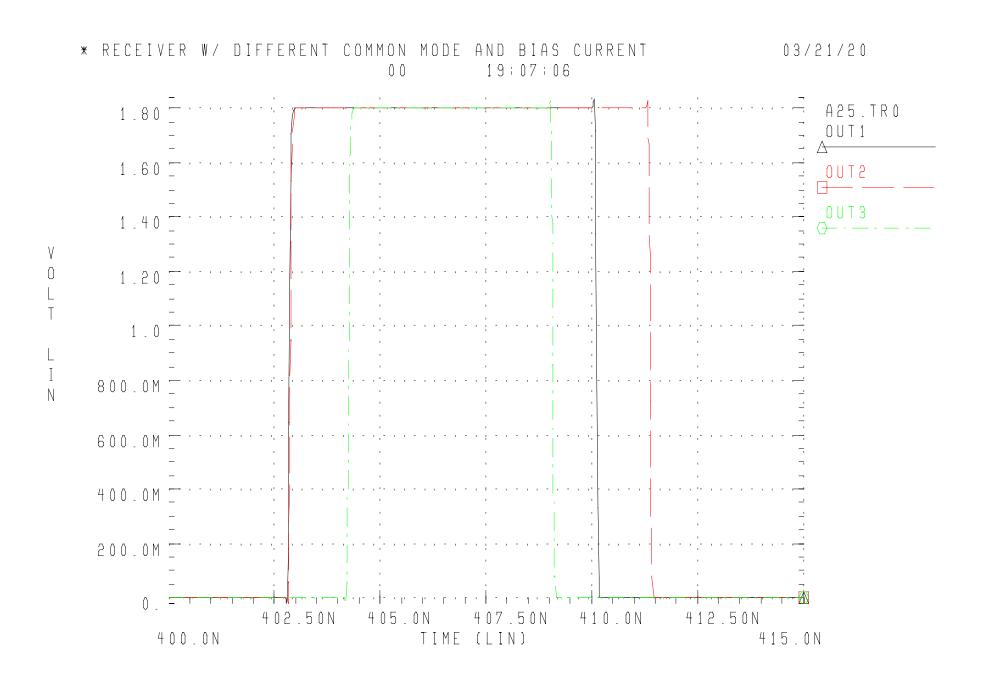
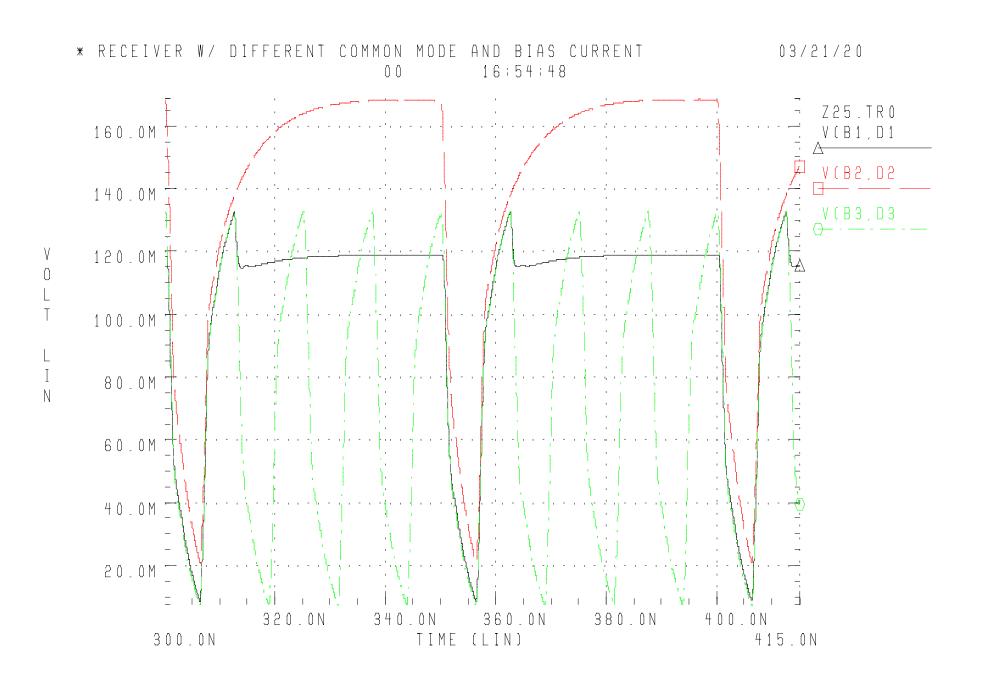
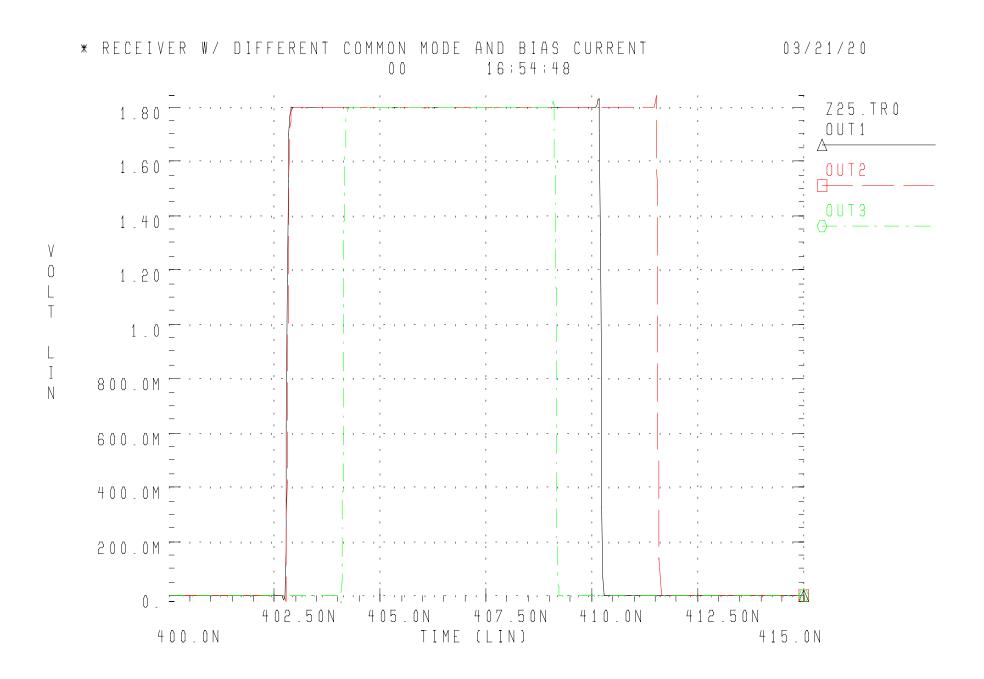
Plot A25.1



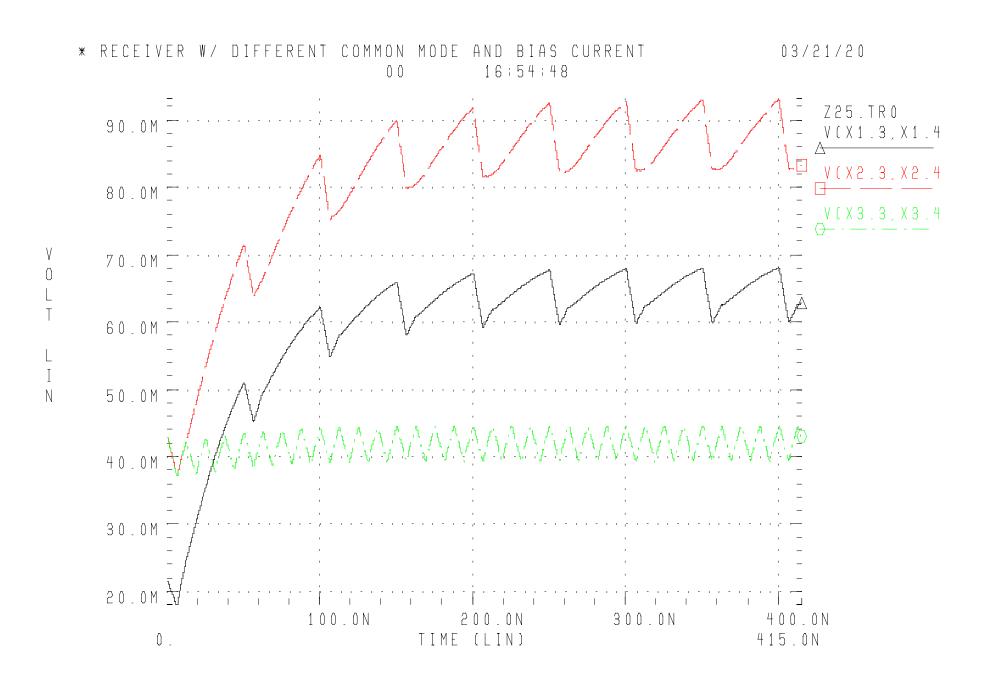


Plot Z25.1

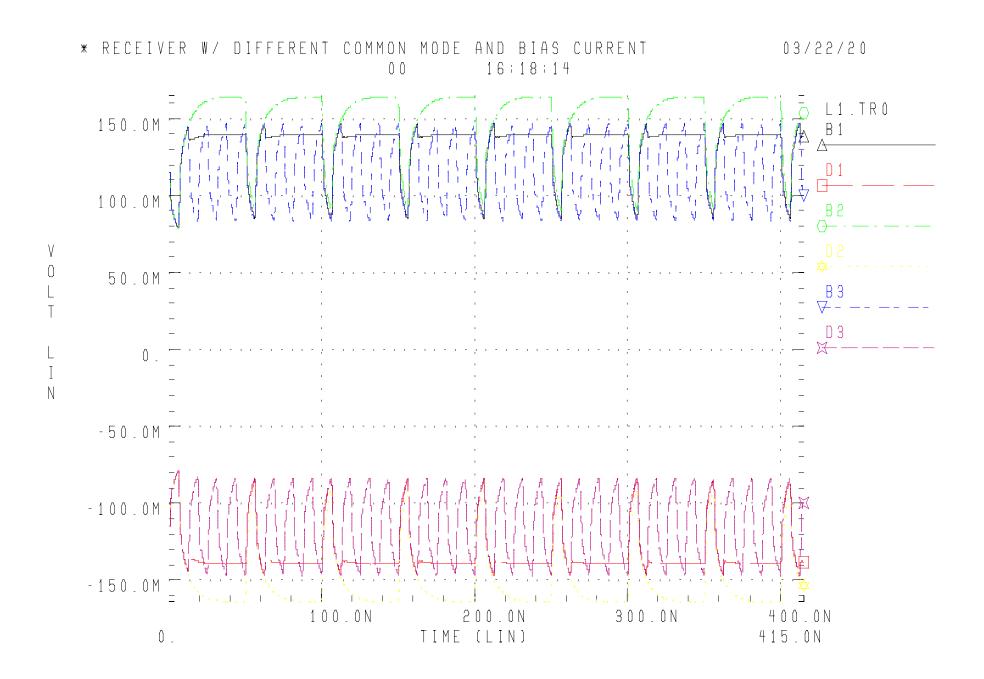




Plot Z25.3



Plot L1.1



Plot L1.2



Explanation of Plots

- A25.1 shows waveform into the equalizer at the IC, with 20mV of non-zero crossing
- A25.2 shows the output of the comparator, notice that the 101010 signal is almost broken at this amount of non-zero crossing
- Z25.1 shows waveform into the equalizer at the IC, with 10mV of non-zero crossing
- Z25.2 shows the output of the comparator, notice that the 101010 signal is about 0.5ns more for this amount of non-zero crossing
- Z25.3 shows the output of the equalizer, notice that the 10101010 has a much lower amplitude than the other 2 signals. This is a effect of going to an edge based detection, as opposed to level based detection as we do now. **ARE WE READY FOR EDGE BASED DETECTION??**
- L1.1 shows the plus & the minus signals instead of v(plus,minus), this is to remind you that the signals do not cross zero, or get even close to it. L1.1 has about 167mV of non-zero crossing.
- In L1.2 you can see that the 10101010 signal is no longer detected by the comparator. It looks like the precomped signal will go away next. The problem with equalization that this slide shows, how much you could be affected by noise. An equalizer can make noise signals appear to be data signals.