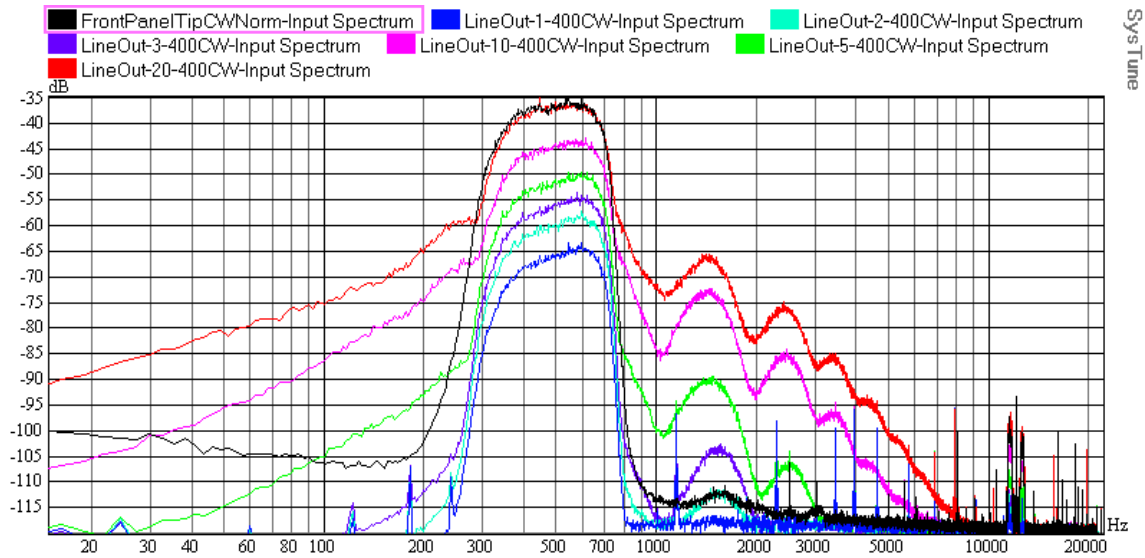
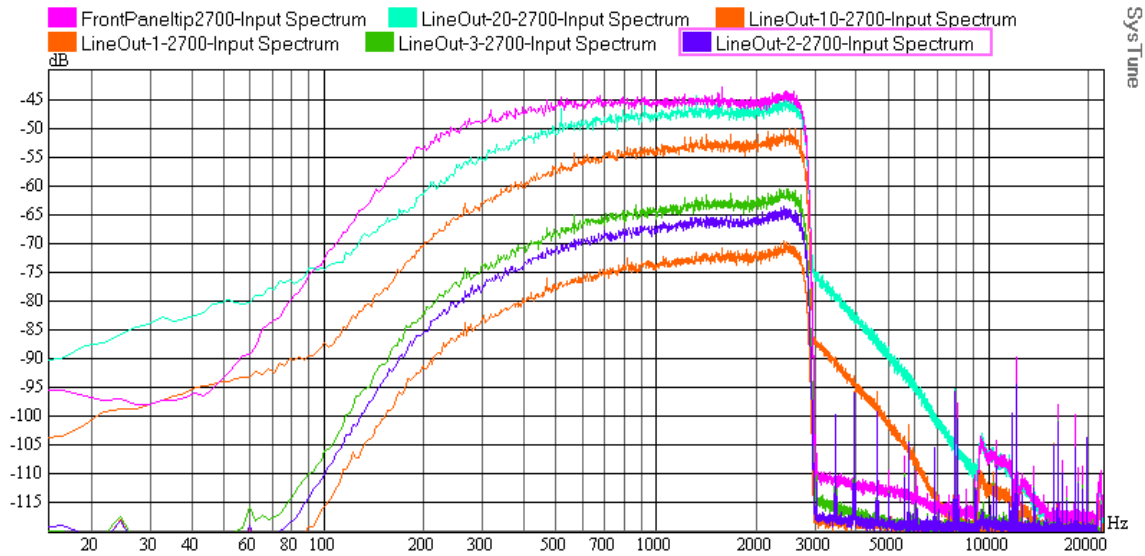
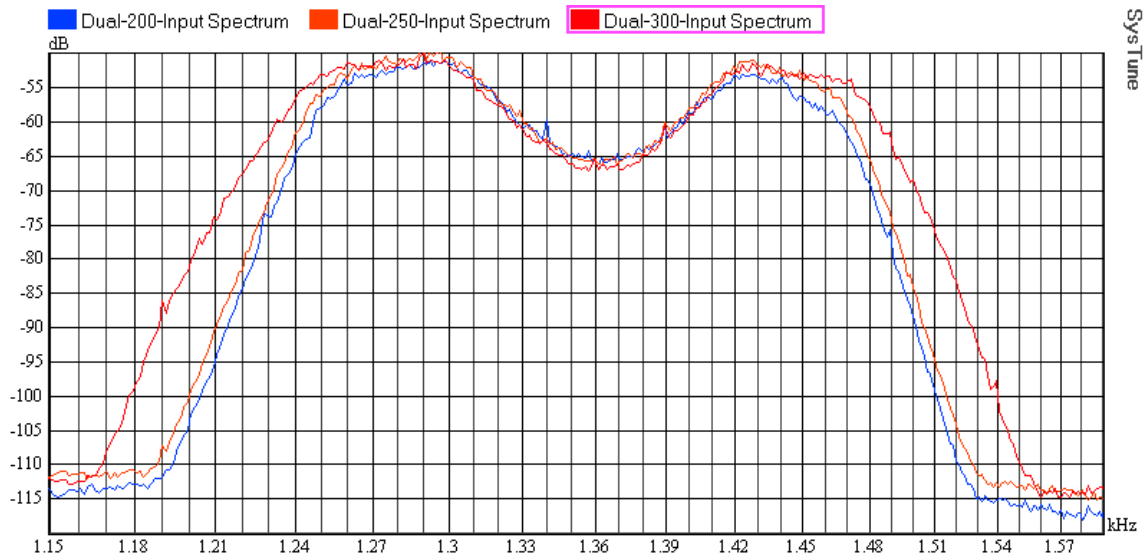


The Line output has a serious distortion problem. The K3 is set up in the CW normal position with a 400 Hz roofing filter. For the curves below, the first numeric is the setting of the Line Out level in the Config Menu. Note that for any setting higher than 2, the distortion rises rapidly. The response at the Front Panel Headphone Jack is included for comparison.

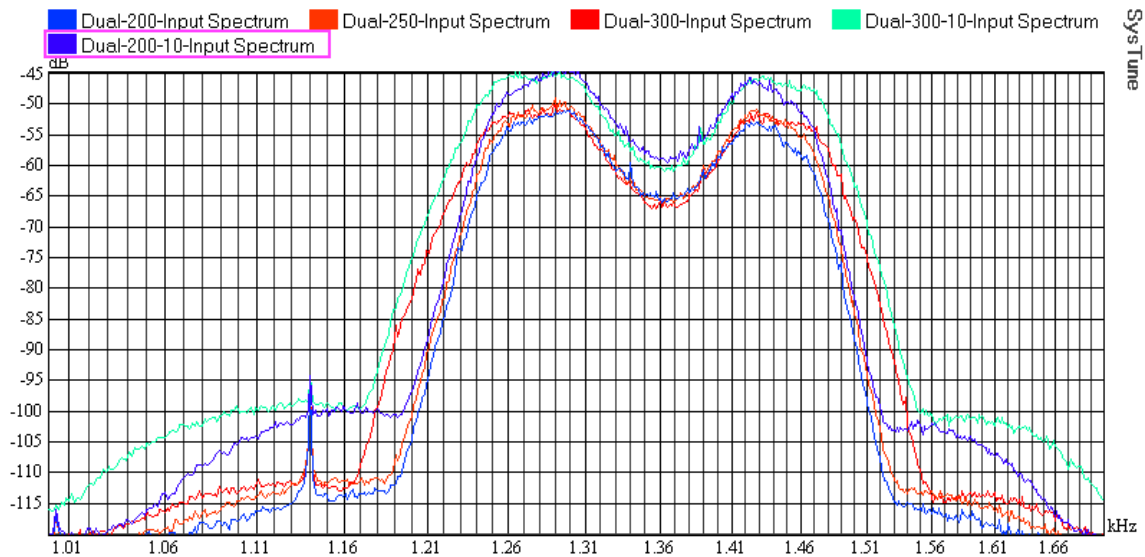


The same set of measurements for SSB NORM.





A close look at the dual-tone filter with bandwidth settings of 200 Hz, 250 Hz, and 300 Hz. All with 400 Hz roofing filter. Measured at the line output with a Line Out Gain setting of 5.



The same dual-tone measurements as above, with the addition of 200 Hz and 300 Hz curves with an output Gain of 10. Note the broadening of the response in the form of “shoulders” on the two higher output curves.

Comparing this data with the CW and SSB data causes me to suspect the output transformers as the major source of the distortion. That’s because transformer distortion is typically inversely proportional to frequency and increases with level.

I’d say that it is quite important that the default output gain setting for the Line Outputs be reduced significantly unless or until this distortion problem can be corrected. Since line outs are primarily used for data, I suggest a setting of 5-10.