

FM Transmitter & Combiner Equipment Performance Measurements

KVOQ Greenwood Village

March 23, 2021

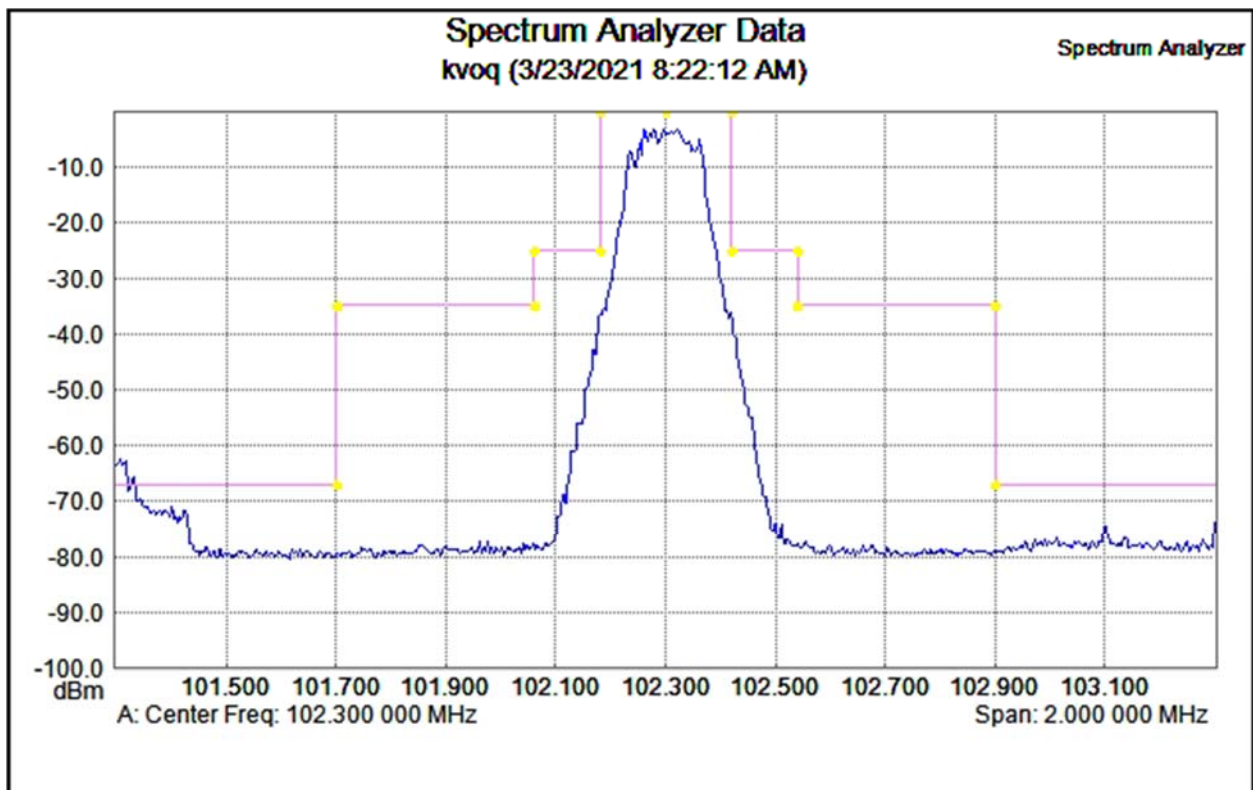
John Van Milligan

Measurements were made with Anritsu model S322E.

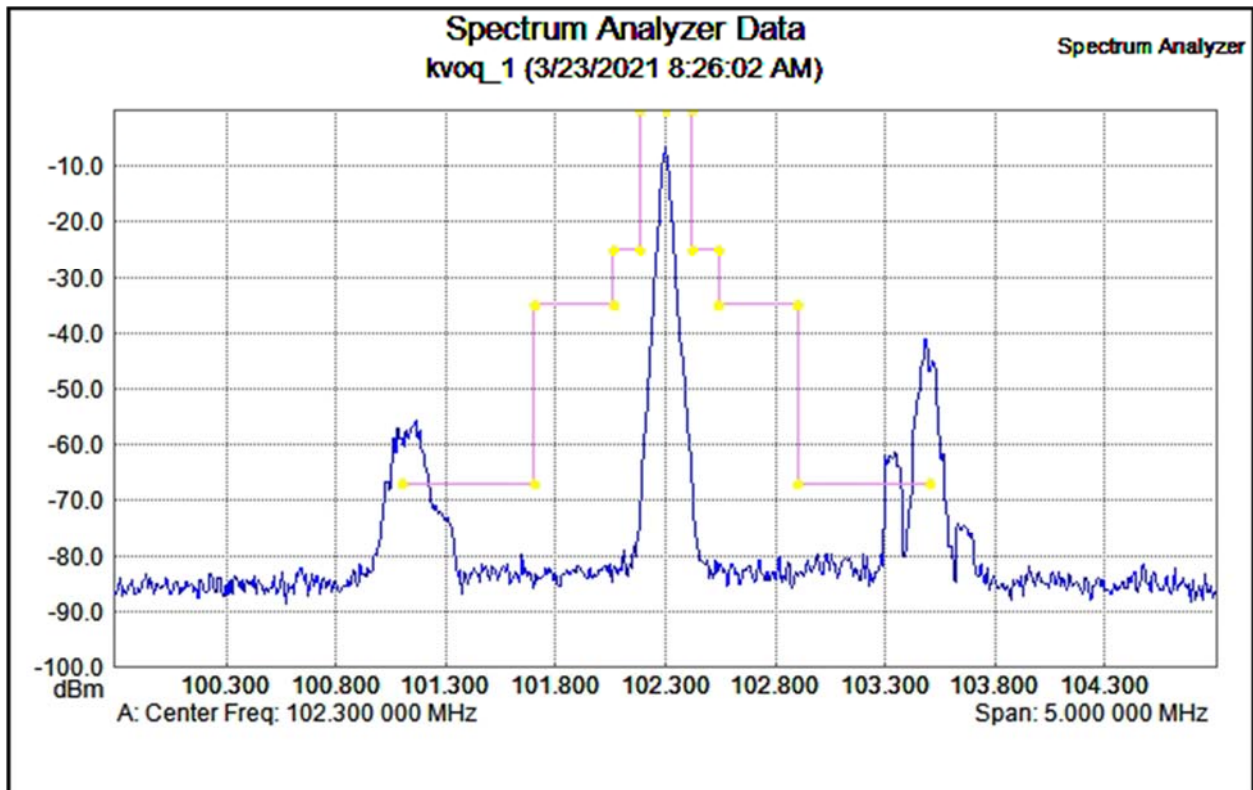
First measurements at the input to the combiner.

Transmitter output power 239 watts. Input to the combiner 213 watts.

All harmonics measured more than 67 dB below carrier level.



An Intermod product was produced on 101.1MHz from significant incoming power from KRFX on 103.5MHz on the combiner. This signal at 101.1MHz was 55db below the carrier at the input to the combiner. **The combiner input filter attenuation at 101.1MHz is 38 db so the intermod product from KVOQ at the combiner output should be more than 80db below carrier.** Significant incoming signal from KOSI at 101.1 MHz prevented actual measurement of the intermod product on the output of the combiner.



All other intermod products were measured at the output of the combiner. All other intermod products were measured more than 67 dB below carrier level.