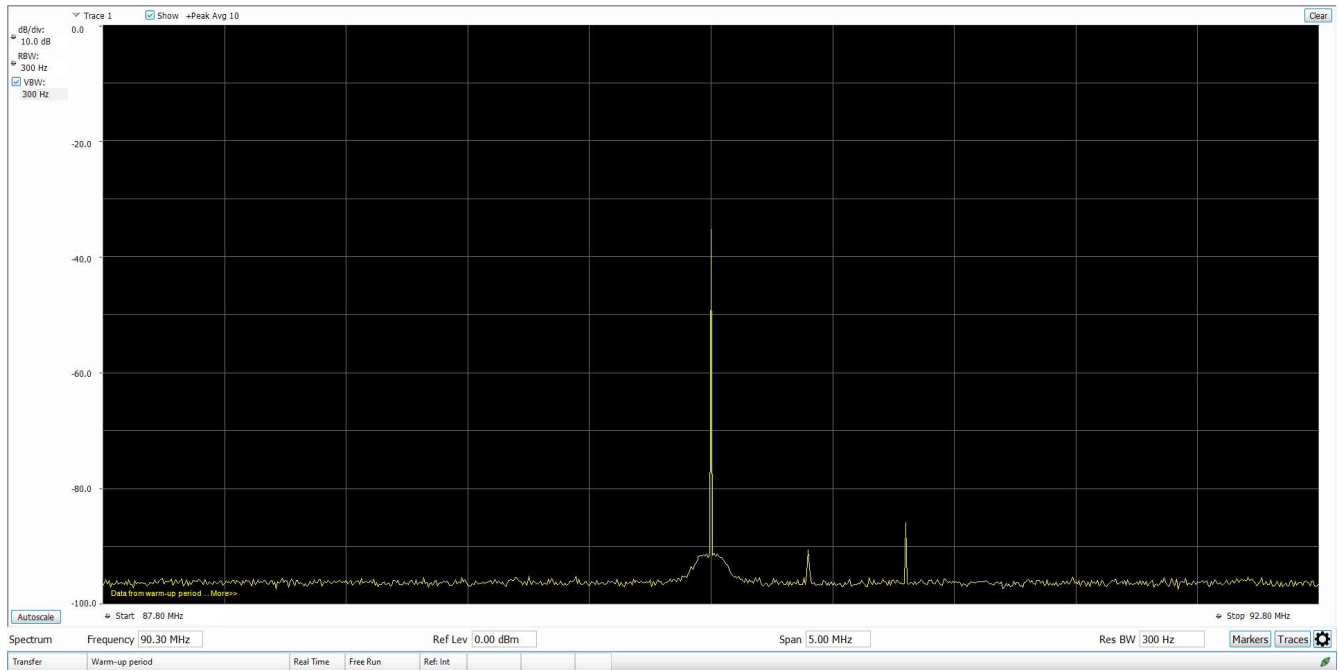


# Spurious Emissions Report KCIF 90.3 & K257GV 99.3 Hilo, HI

Prepared by,  
Jordan Bitz

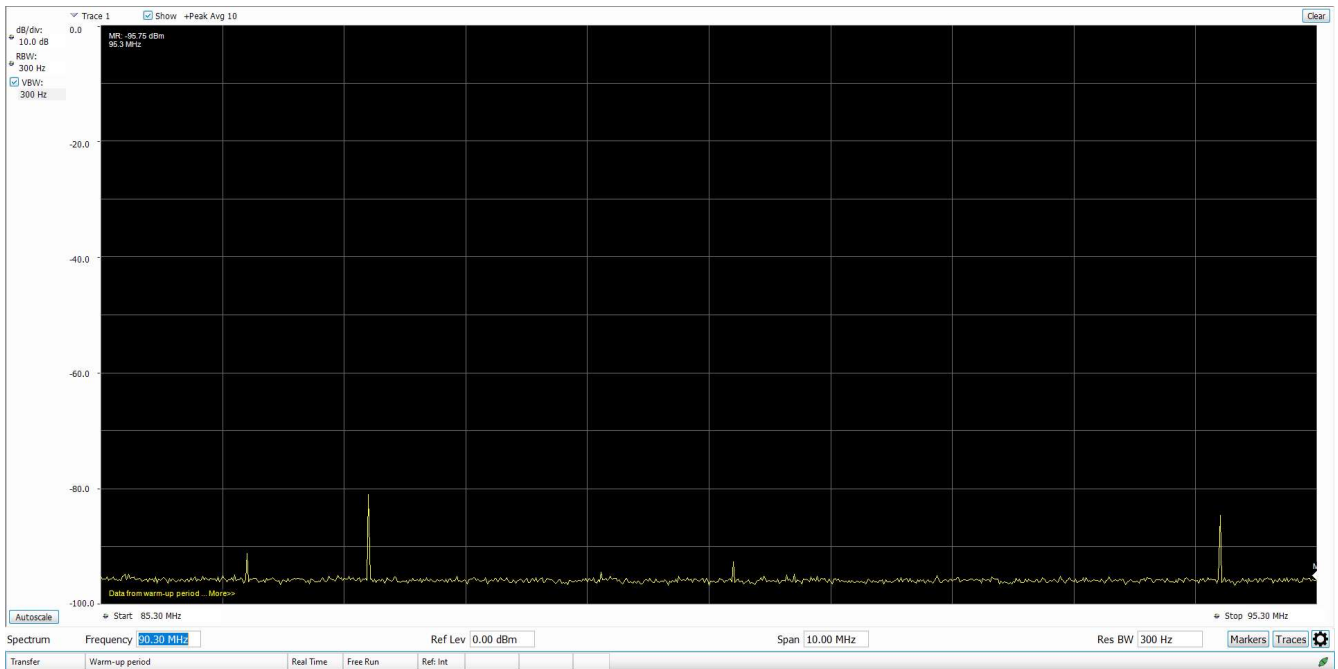
Sample was taken using a sample port on the combined output of an American Amplifier Technologies two station combiner. The samples were also passed through -20db of attenuation to prevent front end equipment overload.

# KCIF 90.3 Carrier Reference

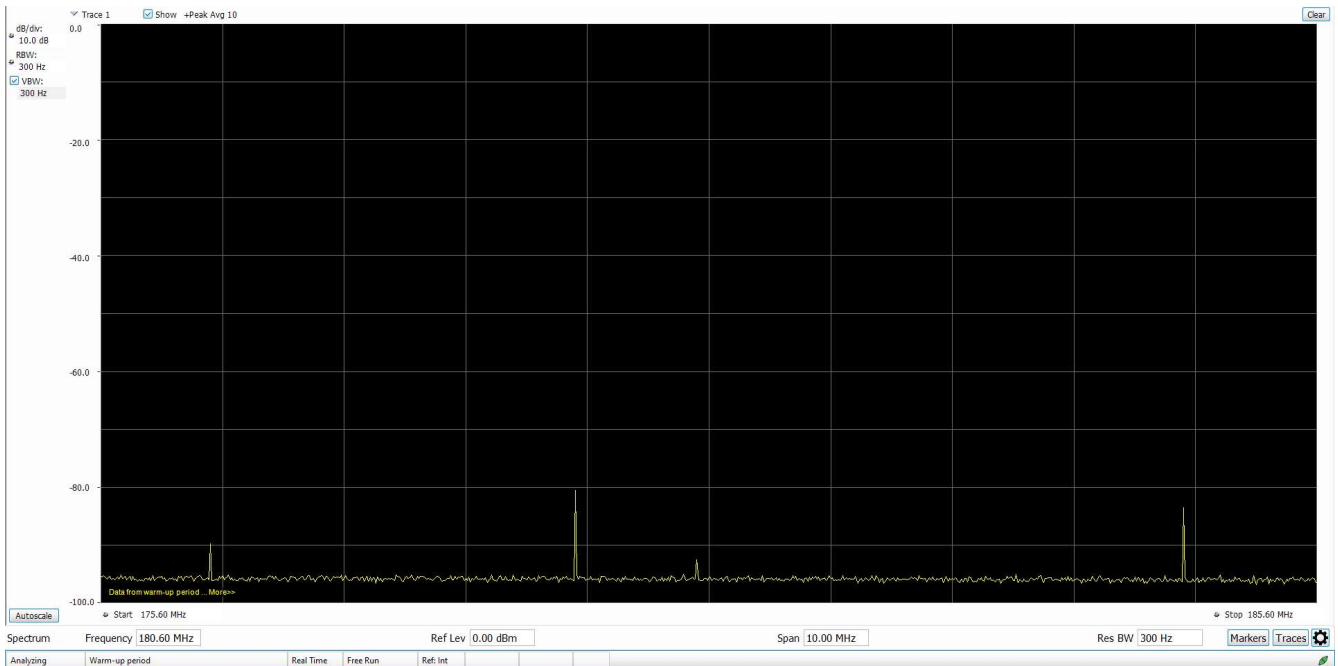


This sample was taken with a transmitter output power of 1460 watts.

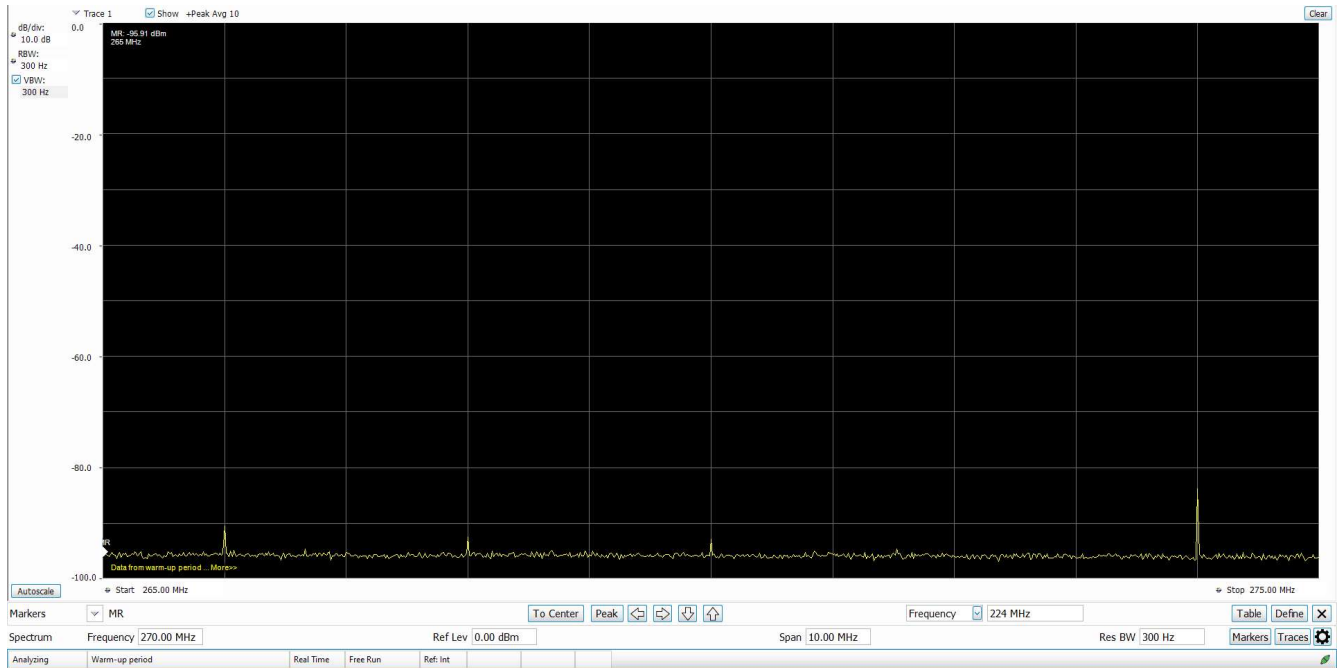
# 90.3 FM with KCIF carrier off



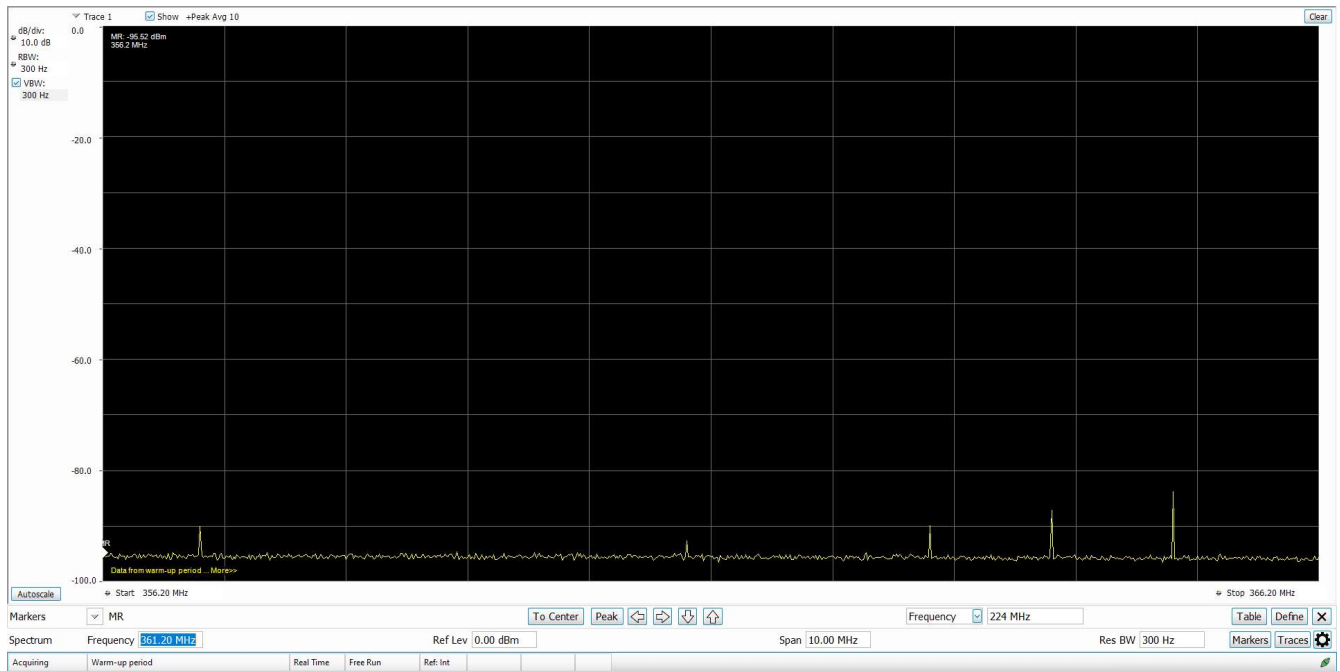
# KCIF Second Harmonic w/ bandstop and notch filter



# KCIF Third Harmonic with bandstop and notch filter:

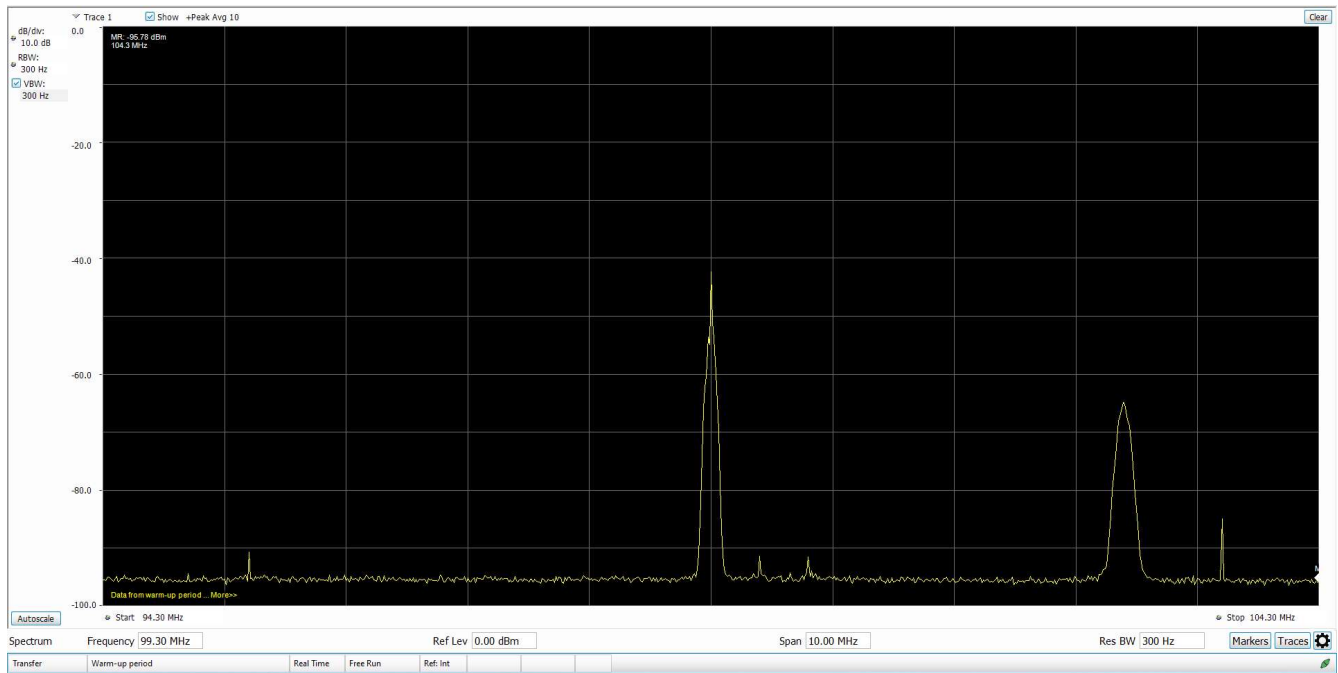


# KCIF Fourth Harmonic with filters:

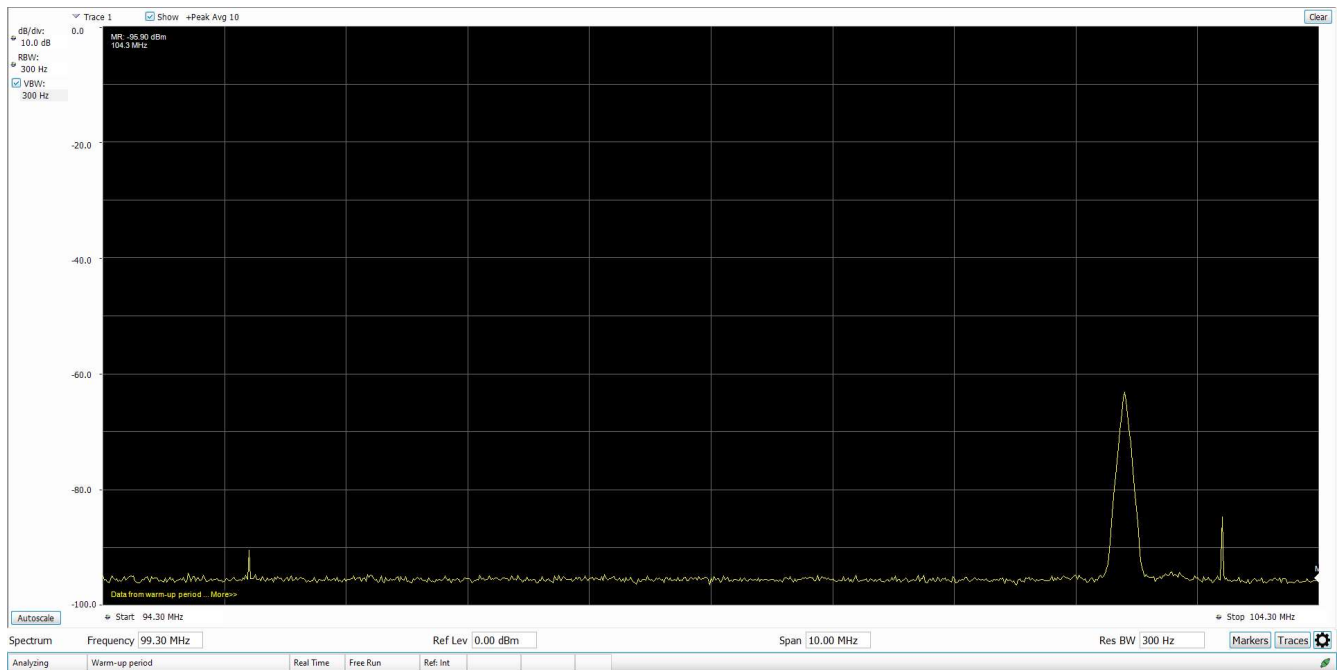


\*The carriers seen in the above snapshots were also observed with both transmitters powered off.

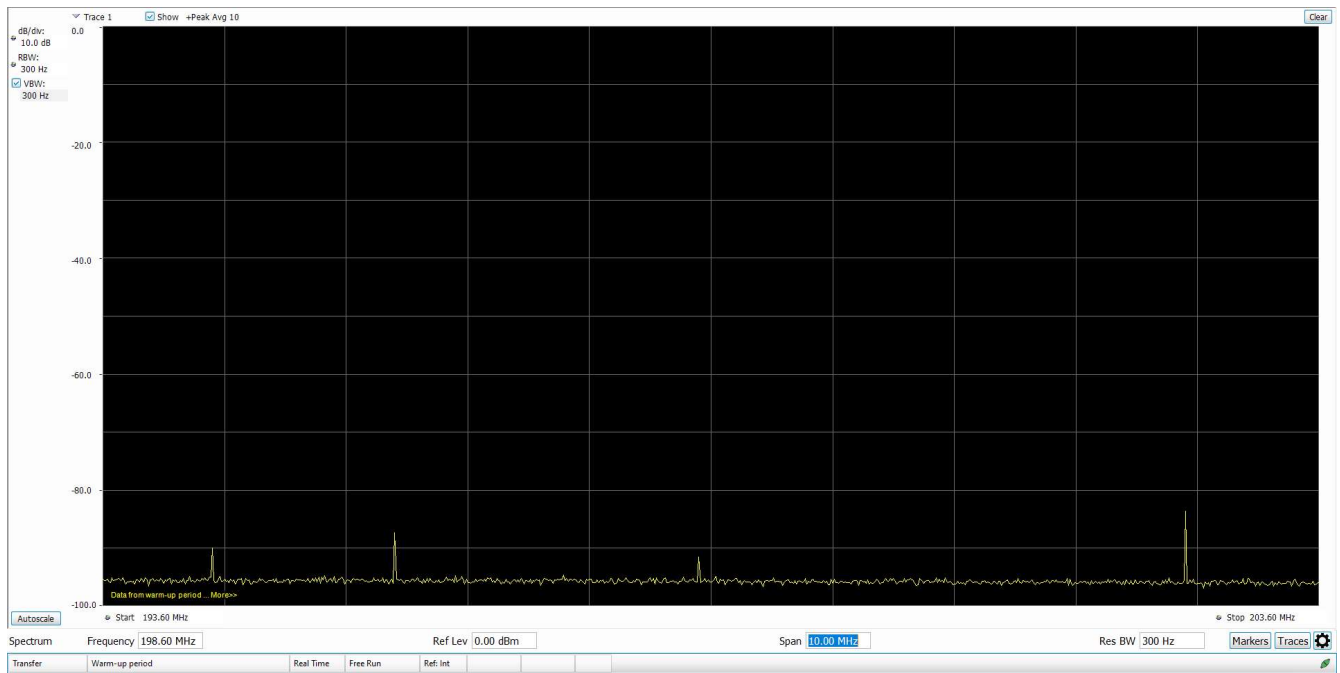
# K257GV Carrier Reference:



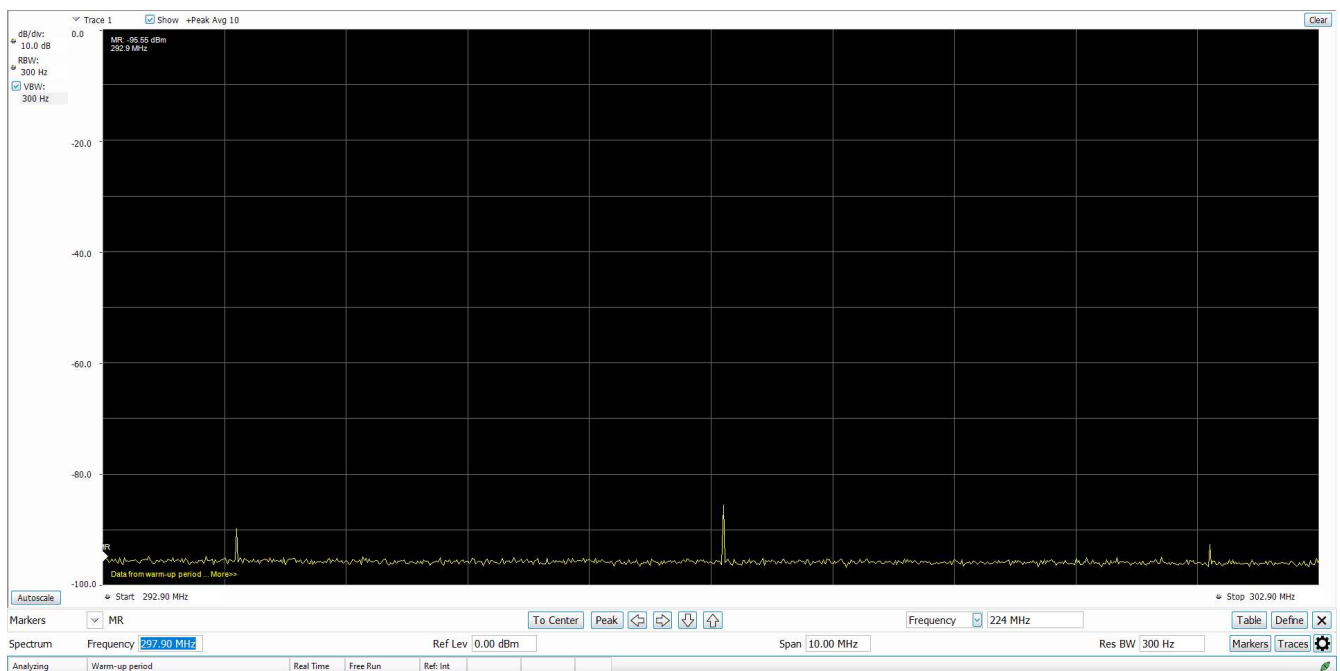
# K257GV Carrier Off:



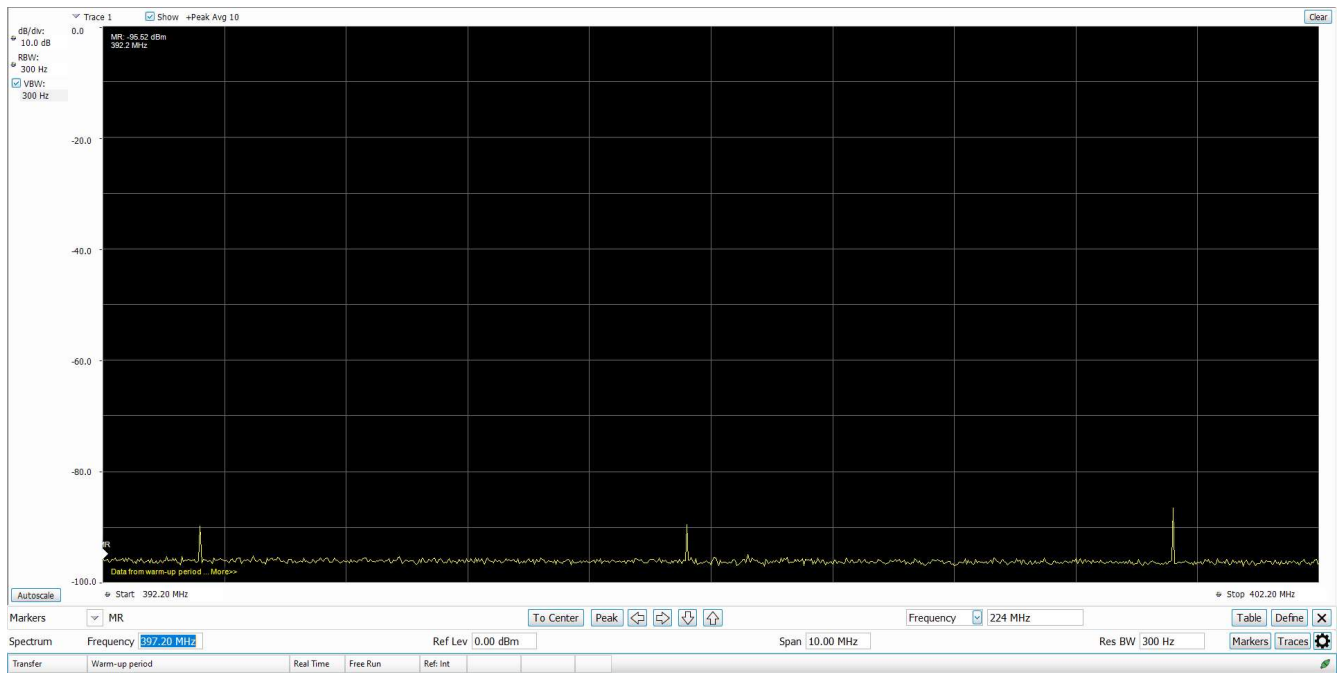
# K257GV Second Harmonic with Filters:



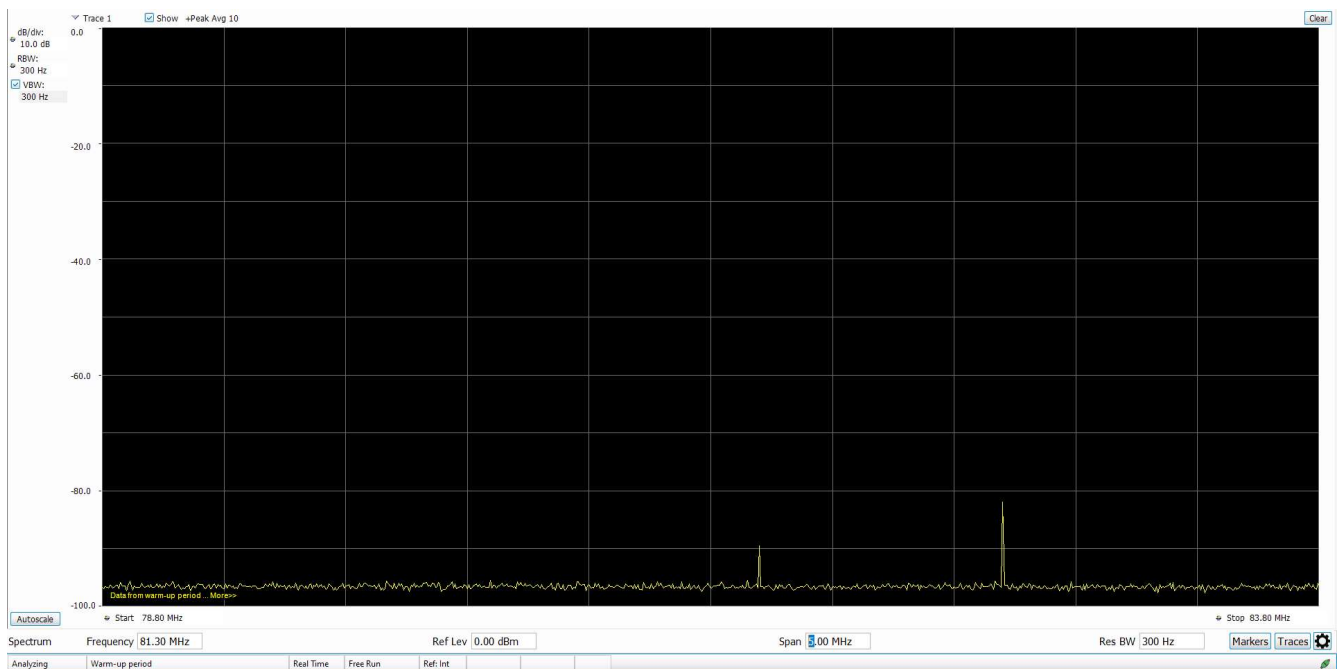
# K257GV Third Harmonic with Filters:



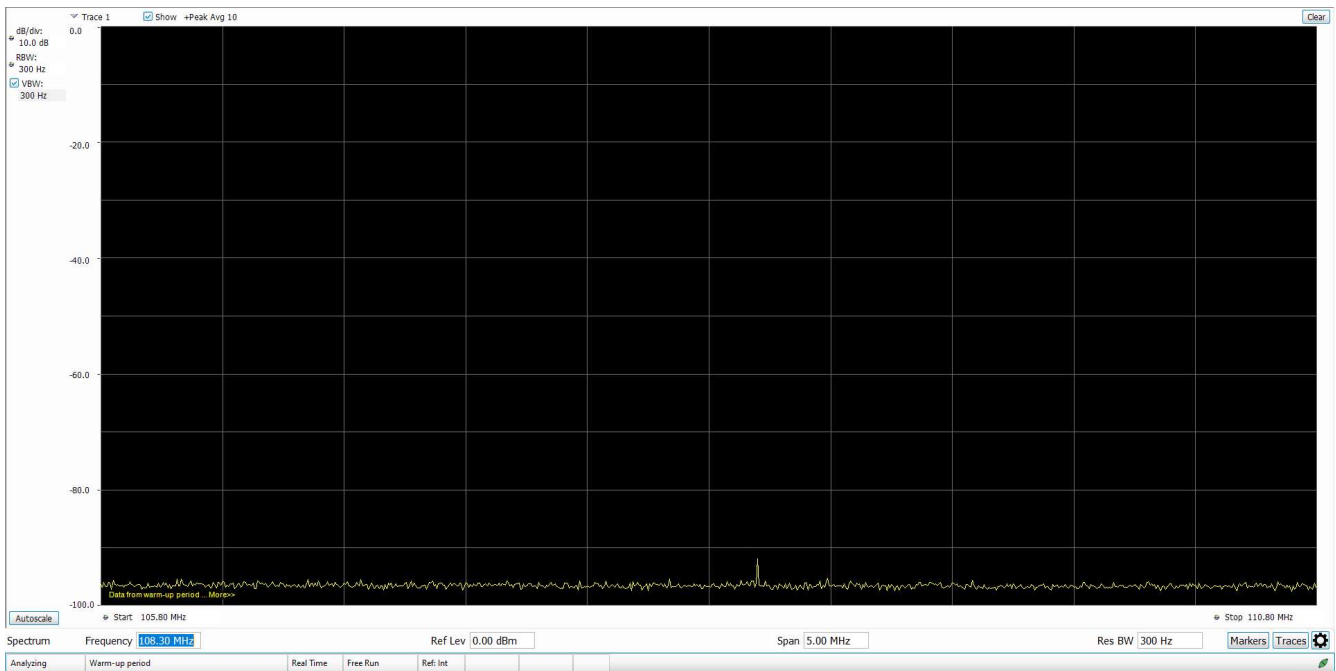
# K257GV Fourth Harmonic with Filters:



$$2 \times 90.3 - 99.3 = 81.3$$



$$2 \times 99.3 - 90.3 = 108.3$$



Samples were also taken of 100 MHz to 1 GHz in 100 MHz intervals and with and without FM carriers and nothing of concern was observed.

KCIF and K257GV are believed to be in full compliance with section 73.317 of the commission's rules.

All information in this report was gathered by the undersigned. I certify that the preceding is true and correct to the best of my knowledge and ability.

Jordan R. Bitz  
CSN International