



Spurious Emissions Measurements

November 22, 2022

On November 22nd, 2022, I Martin Foglia Jr (Electronic Engineering Enterprises), performed a measurement of actual in band signal emissions for WSSI, WBQO, WRJY, and WXMK, respectively.

Results show compliance with the Federal Communications Commission's rules and regulations regarding out of band emissions.

The following images demonstrate, through visual inspection, compliance by examination of the three markers used. Markers #1 on each spectrum analyzer image are indicating the measured signal level at 100 kHz below their fundamental frequency. Markers #2 on each image displays the measured on channel signal strength as a reference to the other two markers, #1 and #3. Finally, markers #3 show the amplitude of the measured signals 100 kHz above the fundamental frequency of each main channel signal.

All indications display emissions well within the federal limits. All stations were operated at full power and at the following parameters:

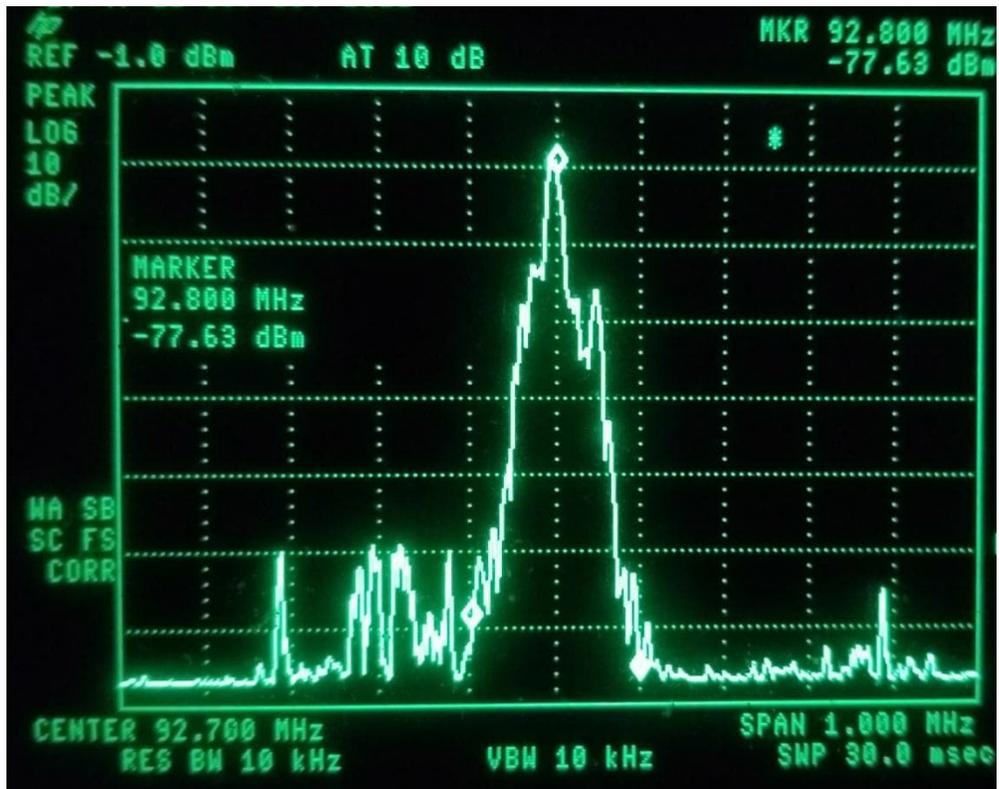
WSSI at 92.7 MHz
Transmitter Output Power: 9.8 kW
Modulation: 75 kHz deviation

WBQO at 93.7 MHz
Transmitter Output Power: 7.1 kW
Modulation: 75 kHz deviation

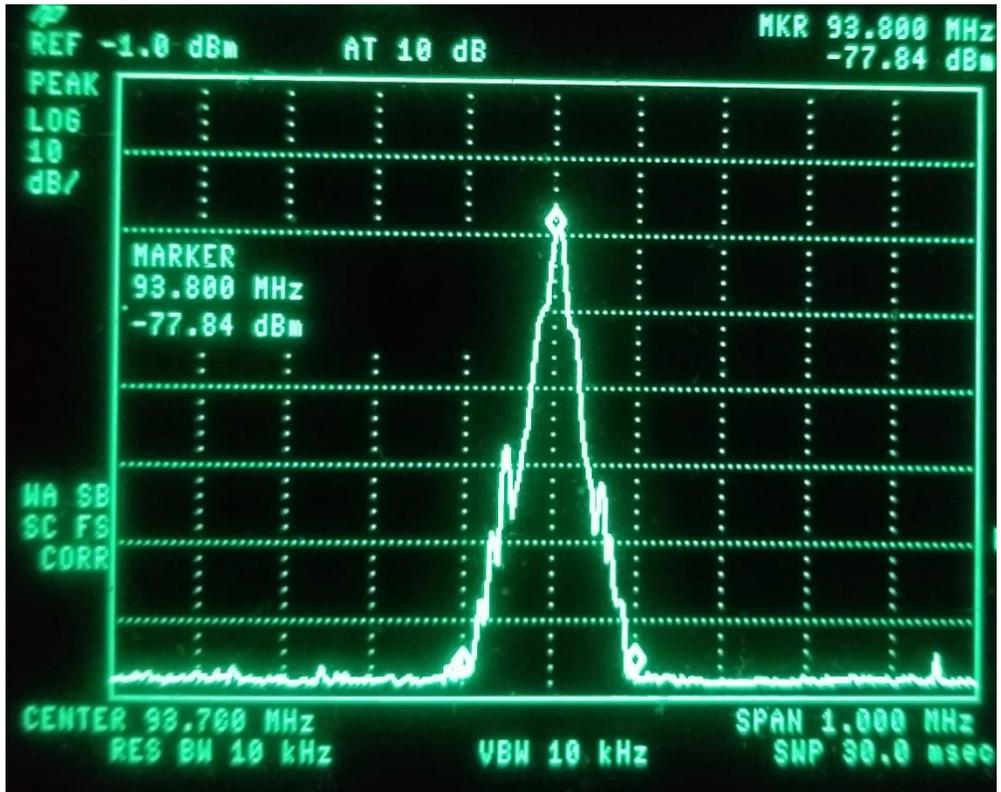
WRJY at 104.1 MHz
Licensed Transmitter Output Power 3.9 kW
Modulation: 75 kHz deviation

WXMK at 105.9 MHz
Licensed Transmitter Output Power: 11.9 kW
Modulation: 75 kHz deviation

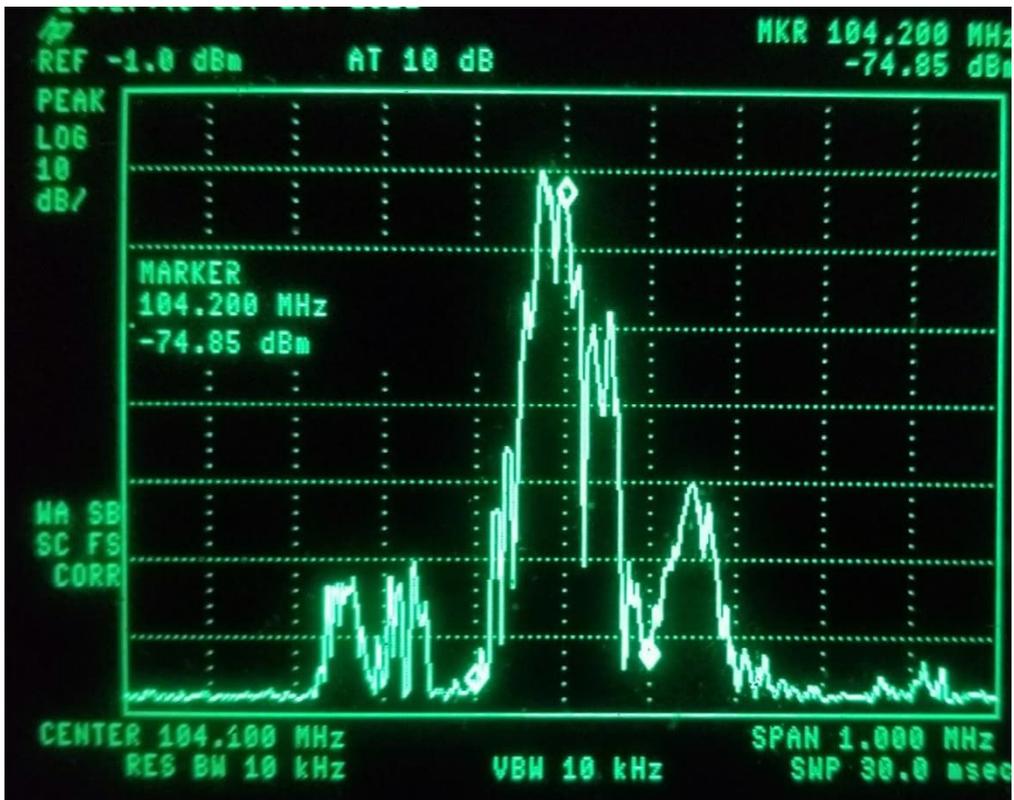
Additionally, attached are images of the actual power output wattmeters for each station taken at the time of the measurements.



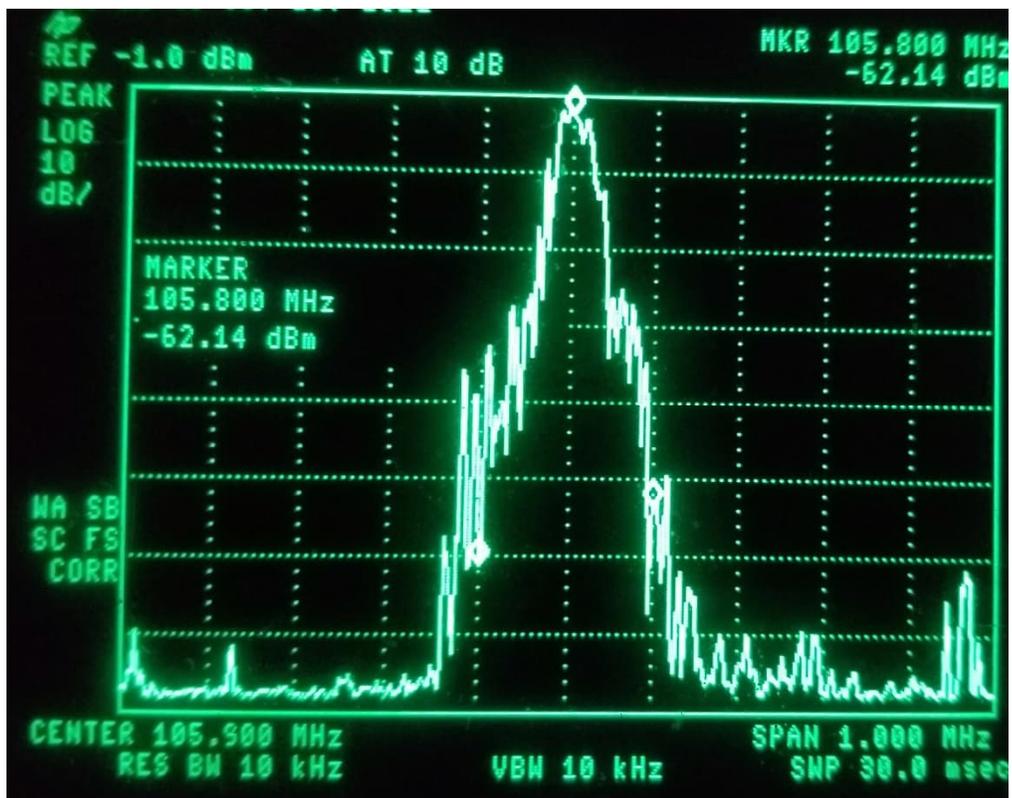
WSSI spurious measurement Marker #3



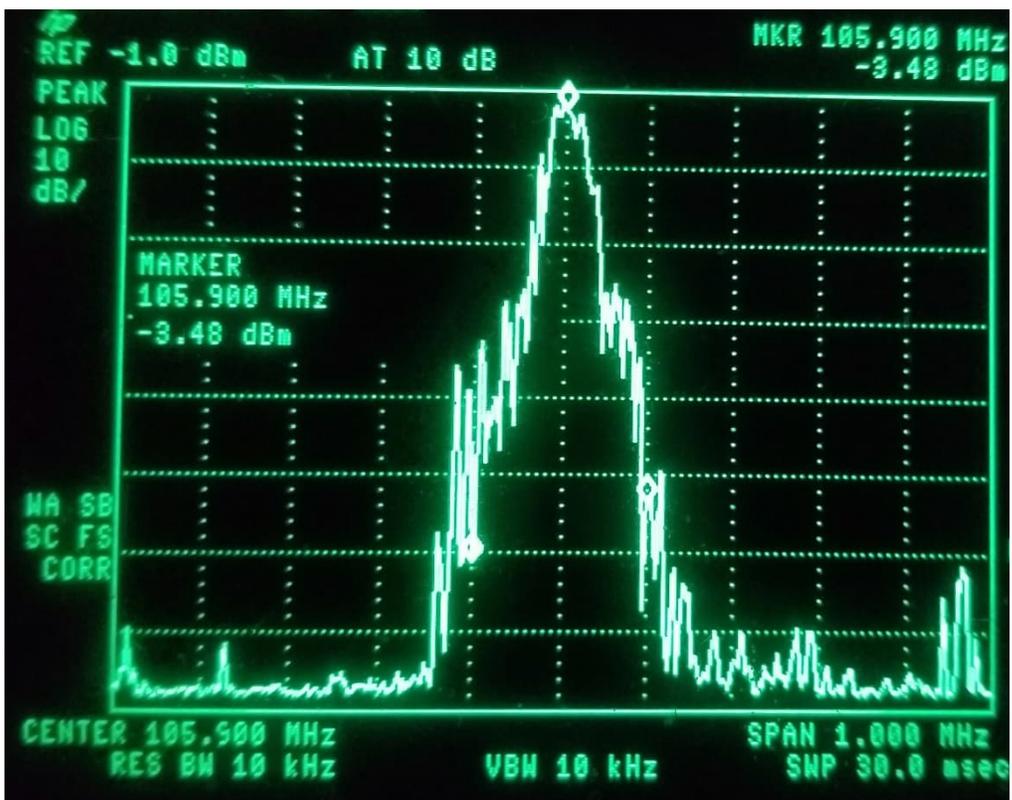
WBQO spurious measurement Marker #3



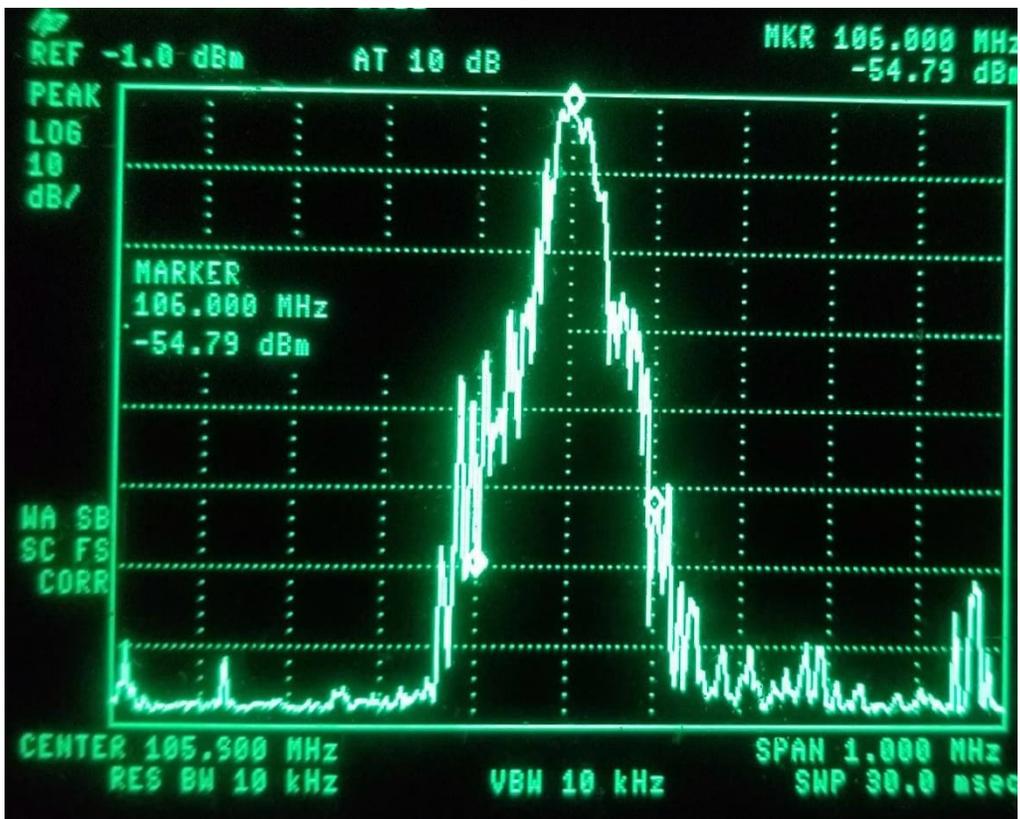
WRJY spurious measurement Marker #3



WXMK spurious measurement Marker #1



WXMK spurious measurement Marker #2



WXMK spurious measurement marker #3