

Equipment Performance Measurements (FM)

Call Letters - W296BS Community Of License Johnson City, NY
 Technician - Kevin Fitzgerald Date & Time - 5/8/13 9:00 PM
 Transmitter Make & Model - OMB AM 500
 Exciter Make & Model - OMB EM 20-30
 Frequency - 107.1 Frequency Calibrated? - Y
 Analyzer Brand & Model - Winradio WR-6 305e
 Serial Number - 0309/09129006FB Source Of Analyzer - Kevin Fitzgerald
 Analyzer Calibration Date - 1/2011 Other _____
 * Measurements at transmitter site with wire antenna.

Measurements

1) 120 kHz to 240 kHz from the carrier:

Below Level Of Unmodulated Carrier Below Level Of Unmodulated Carrier

Minus 120 kHz	<u>63dB</u>	Plus 120 kHz	<u>62dB</u>
Minus 180 kHz	<u>62dB</u>	Plus 180 kHz	<u>65dB</u>
Minus 240 kHz	<u>29dB (WRRO)</u>	Plus 240 kHz	<u>69dB</u>

Any point between 120 kHz and 240 kHz inclusive attenuated to a lower dB level of the unmodulated carrier than the 3 listed above: No

All points between 120 kHz and 240 kHz inclusive attenuated at least 25 dB below the level of the unmodulated carrier lower: Yes

2) 240 kHz to 600 kHz from the carrier:

Below Level Of Unmodulated Carrier Below Level Of Unmodulated Carrier

Minus 240 kHz	<u>29dB (WRRO)</u>	Plus 240 kHz	<u>69dB</u>
Minus 300 kHz	<u>50dB (WRRO)</u>	Plus 300 kHz	<u>66dB</u>
Minus 350 kHz	<u>33dB (WRRO)</u>	Plus 350 kHz	<u>65dB (WBBI)</u>
Minus 400 kHz	<u>27dB (WRRO)</u>	Plus 400 kHz	<u>70dB (WBBI)</u>
Minus 500 kHz	<u>55dB (WRRO)</u>	Plus 500 kHz	<u>75dB</u>
Minus 600 kHz	<u>39dB (WRRO)</u>	Plus 600 kHz	<u>79dB</u>

Any point between 240 kHz and 600 kHz inclusive attenuated to a lower dB level of the unmodulated carrier than the 6 listed above: No

All points between 240 kHz and 600 kHz inclusive attenuated at least 35 dB below the level of the unmodulated carrier: Yes

3) Greater than 600 kHz from the carrier:

Based on the formula in 73.317(d) and a TPO of 344W the minimum attenuation level is 68.37 dB.

Below level of Unmodulated carrier		Below level of Unmodulated carrier	
Minus 700 kHz	82 dB	Plus 700 kHz	81 dB
Minus 800 kHz	81 dB	Plus 800 kHz	81 dB
Minus 1 MHz	83 dB	Plus 1 MHz	81 dB
Minus 1.5 MHz	82 dB	Plus 1.5 MHz	82 dB
Minus 2 MHz	83 dB	Plus 2 MHz	83 dB
Minus 3 MHz	85 dB (WWYL)	Plus 3 MHz	86 dB
Minus 5 MHz	84 dB	Plus 5 MHz	90 dB
Minus 6 MHz	85 dB	Plus 6 MHz	91 dB

Any point greater than 600 kHz from the carrier attenuated to a lower dB level of the unmodulated carrier than the 8 listed above: No

All points greater than 600 kHz from the carrier attenuated at least 80 dB below the level of the unmodulated carrier: Yes

(Note: WRRQ + WRRQ-HD, 106.7 received (minus 240 kHz to minus 600 kHz); WBB1, 107.5 received (minus 350 + 400 kHz); WWYL, 104.1 received (minus 3 MHz).

Comments: This site, Ingraham Hill, NY, has a very high noise floor. Noted spur at 112.899 MHz (-30 dB) and at 112.846 (40 dB); turned off W 296 BS, W 283 AB, W 225 BC, & WRRQ (all Equinox and Fitzgerald/Hawkins facilities and spur was still present, thus showing that the noise around 112.899 was not being generated from W 283 AB, W 296 BS, or by any related Equinox Broadcasting Facility.

4) Preemphasis set at: 75 μsec

Scanned wide range of points plus & minus 10 MHz, no spurious emissions other than noted above.