

Spurious Emissions Data For W277DG Corning, NY

W277DG Corning, NY

Technician: Gordon Ichikawa, FCC License PG-11-20154

Readings taken: 10-25-2019 at 4:00 pm EDT

Transmitter (Exciter): Armstrong FMX-150B, serial # 803681

Calibrated at frequency 103.3 MHz

Spectrum Analyzer used: Agilent model E440B, serial # MY45111278

Source of Analyzer: GRI Telcom, Inc.

Measurements: All readings in dBm

1. 120 kHz to 240 kHz above and below the unmodulated carrier

Minus 120 kHz = -80 Plus 120 kHz = -80

Minus 180 kHz = -88 Plus 180 kHz = -88

Minus 240 kHz = -88 Plus 240 kHz = -88

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

All points between 120 kHz and 240 kHz inclusive were attenuated at least 25 dB below the level of the unmodulated carrier.

2. 240 kHz to 600 kHz above and below the unmodulated carrier

Minus 240 Khz = -85 Plus 240 kHz = -85

Minus 300 kHz = -88 Plus 300 kHz = -88

Minus 350 kHz = -88 Plus 350 kHz = -88

Minus 400 kHz = -88 Plus 400 kHz = -88

Minus 500 kHz = -88 Plus 500 kHz = -88

Minus 600 kHz = -88 Plus 600 kHz = -88

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

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

3. Greater than 600 kHz from the carrier:

Based on the formula in 73.317(d) and a TPO of 14 watts, the minimum attenuation level is 80 dB.

Minus 700 kHz = -85 Plus 700 kHz = -85

Minus 800 kHz = -85 Plus 800 kHz = -85

Minus 1.0 mHz = -85 Plus 1.0 mHz = -85

Minus 1.5 mHz= -85 Plus 1.5 mHz= -85
Minus 2.0 mHz= -85 Plus 2.0 mHz= -85
Minus 3.0 mHz= -85 Plus 3.0 mHz= -85
Minus 5.0 mHz= -85 Plus 5.0 mHz= -85
Minus 6.0 mHz= -85 Plus 6.0 mHz= -85

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

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

Comment: Scanned all frequencies between 80 mHz and 450 mHz. No spurious emissions or harmonics were detected.

4. Pre-emphasis was set at 75 microseconds.