AL250 Occupied Bandwidth and Emission Bandwidth Measurement

L. Yu
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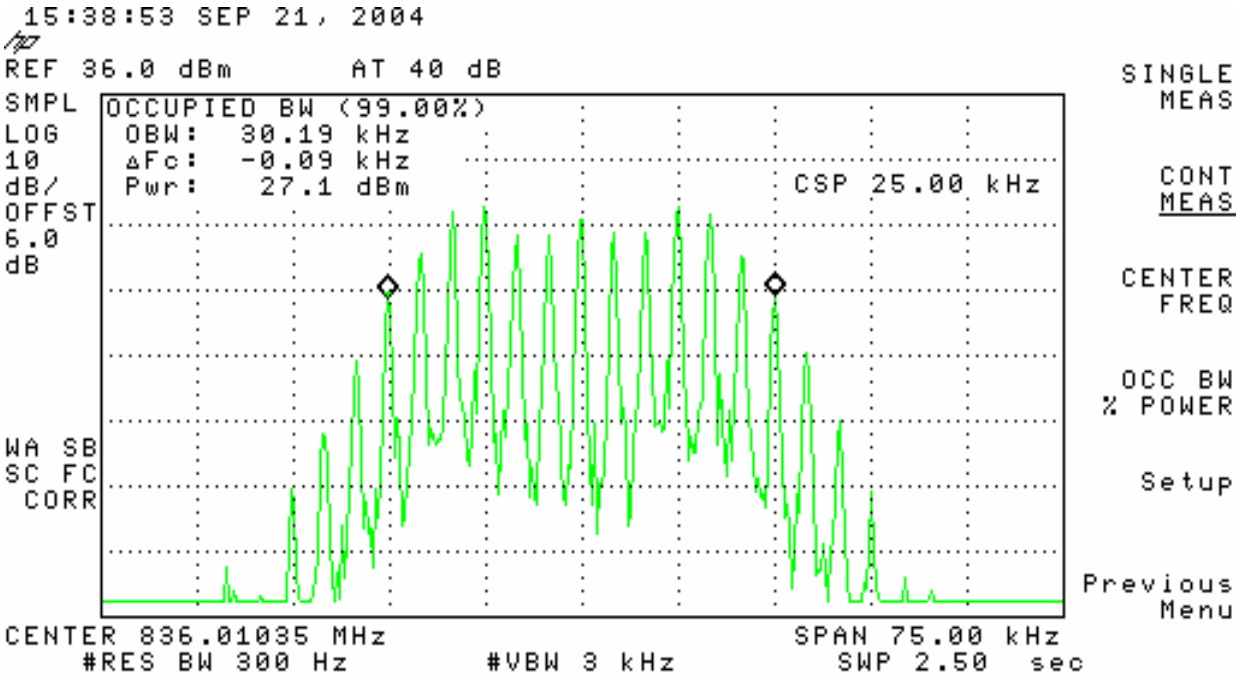
Modulation Input for both OBW and EBW:

Modulation input voltage required for 50% max modulation = 5.2mV (-43.5dBm) for 6kHz
16dB greater than 50% max modulation = -23.5dBm (51.8mV)
Modulation Frequency = 2500Hz
Noise level from unmodulated transmitter is 0.300 KHz (50Hz HPF, >99Khz LP)
Max Unmodulated Power on ch 367 was measured = 28.0dBm
Limit line set at +2dBm

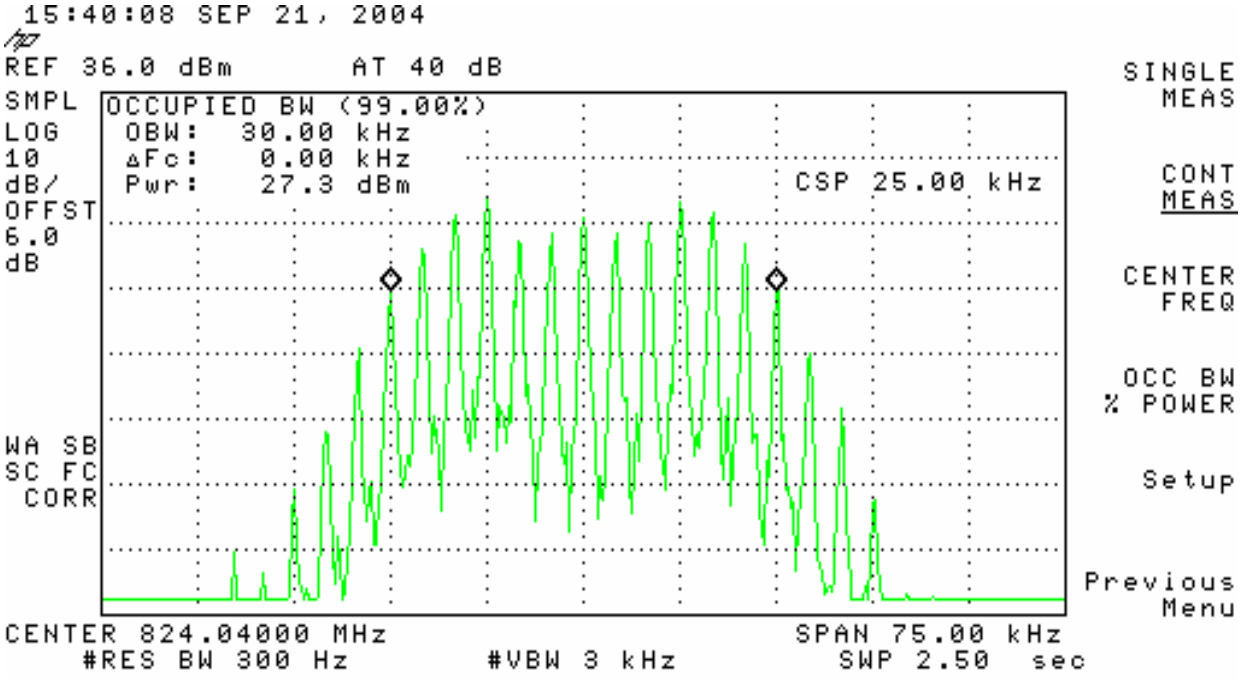
The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

FCC part 2.1049 (c) (1)

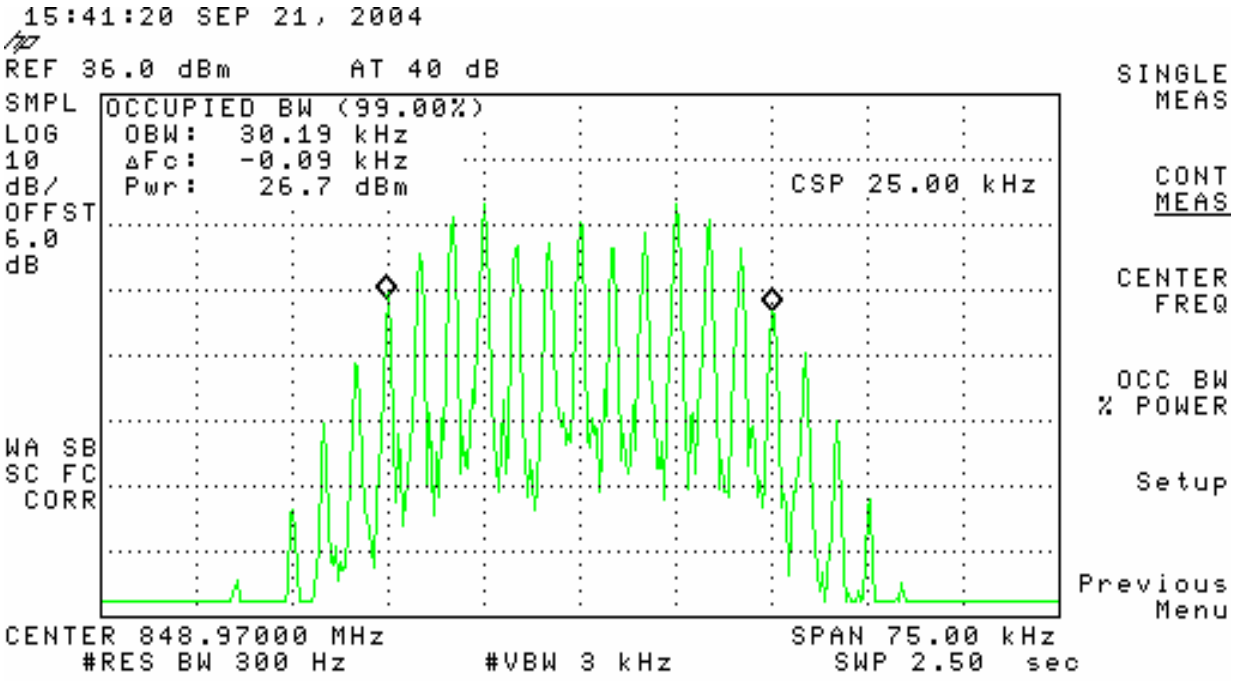
Occupied Bandwidth - Channel 367
OBW = 30.19 Khz



Occupied Bandwidth - Channel 991
OBW = 30.00 kHz



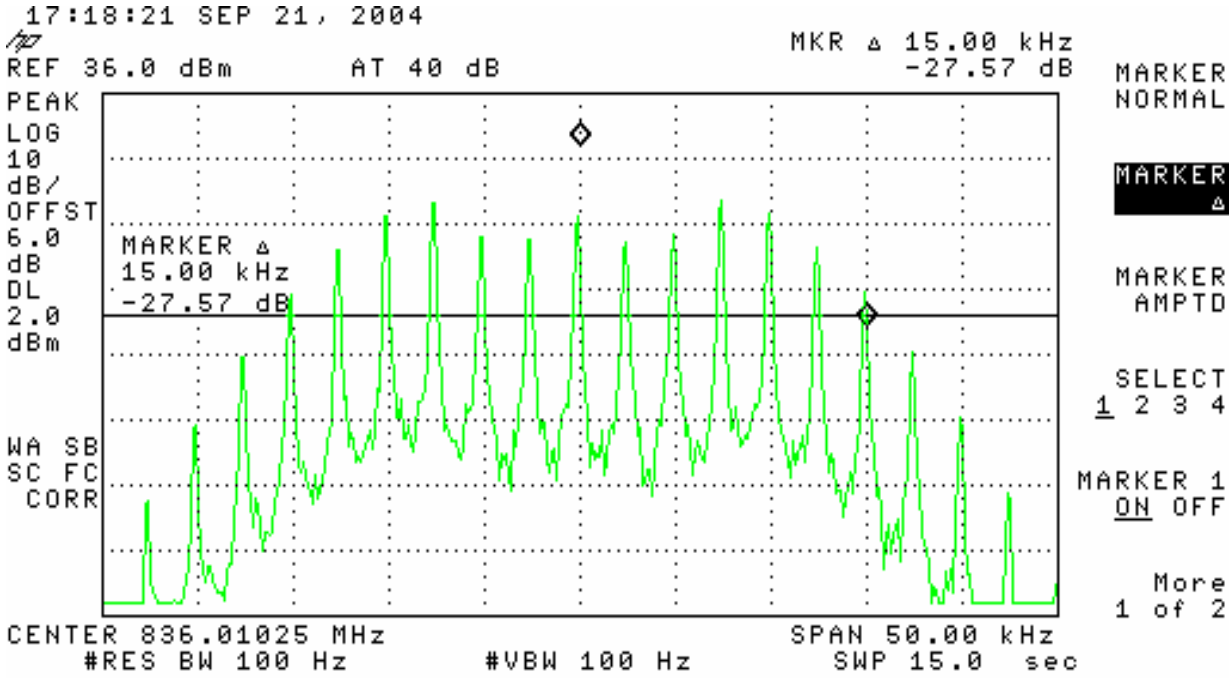
Occupied Bandwidth - Channel 799
OBW = 30.19 kHz



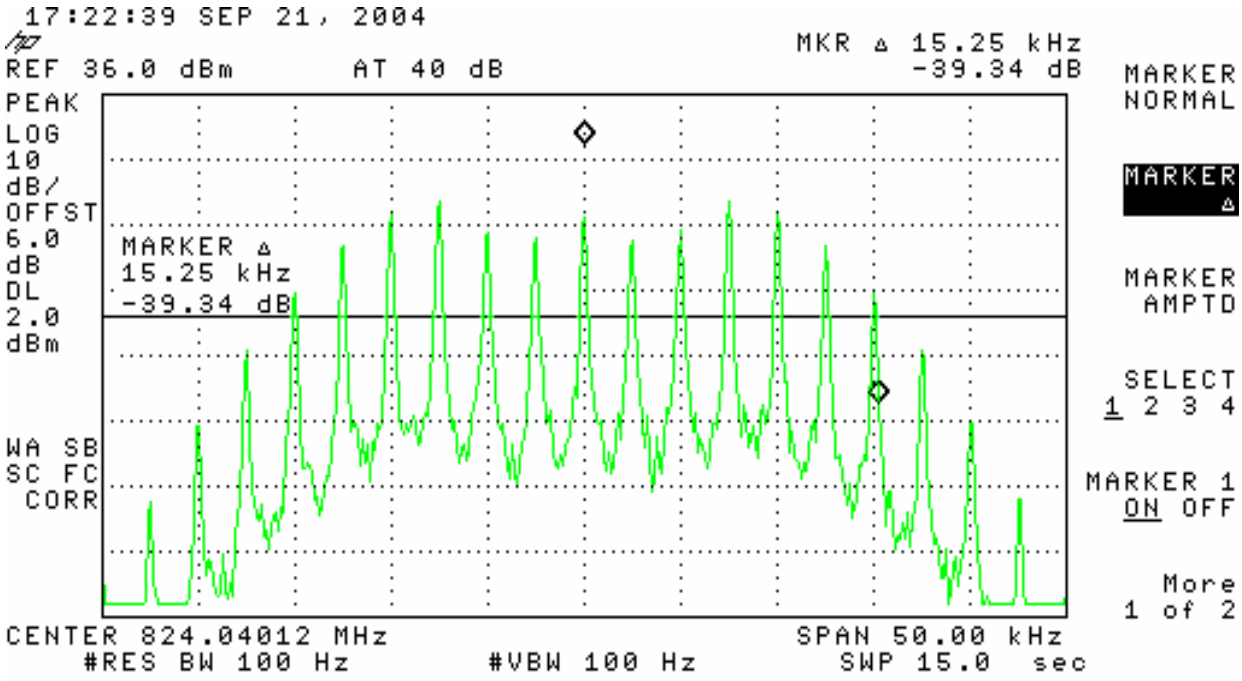
The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC part 22.917 (b) (d)

Emission Bandwidth - Channel 367
EBW = 30.00 kHz



Emission Bandwidth - Channel 991
EBW = 30.50 kHz



Emission Bandwidth - Channel 799
EBW = 30.26 kHz