



### Power Spectra Density

$$\begin{aligned}
 \text{Uncorrected Field Strength from EUT} &= -29.0\text{dBm} = 78.00 \text{ dBuV/m} \\
 &+ 1.10 \text{ dB Cable Loss} \\
 &+ 29.40 \text{ dB DRG Antenna Factor} \\
 &- 19.60 \text{ dB Pre-Amp Gain} \\
 \hline
 &88.9 \text{ dBuV/m Field Strength} \\
 &= .027861212 \text{ V/m Field Strength}
 \end{aligned}$$

To measure power spectra density in accordance with Section 15.247(d)

- RBW = 3kHz
- VBW = 10kHz
- Span = 1MHz
- Sweep = 1MHz/3kHz = 333 Seconds
- Test distance in meters = 0.3
- Numeric gain of the antenna = .001

Calculated Peak Level in watts = 2.328741mW

2.328741mW = 3.67dBm                      Limit = +8dBm                      Pass

Measured Peak Level using substitution method = 2.9mW

2.9mW = 4.62dBm                      Limit = +8dBm                      Pass