

Annex E – Spurious Emissions 15.209

Note: below measurements are in units of dBuV/m at 3meters. These measurements are performed conducted in lieu of radiated as permitted by ANSI C63.10-2020. The following formula was used in making such conversions:

Above 1GHz: $E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{m}]) + 104.77$, where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements. $E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d = 3 \text{ m}$. Straight conversion between $E[\text{dB}\mu\text{V}/\text{m}]$ and $\text{EIRP}[\text{dBm}] = 107$. Thus offset for dBuV/m at 3meters is $95.2 - 107 + \text{Antenna gain}$.

Note: additional factors added to offset to consider attenuator + cable loss.

Naming Convention

Radio (BLE)_Channel (Low Ch, Mid Ch, High Ch)_Frequency (MHz)_Rate/Mode(Mbit)_Measurement
(15.209)_Band Edge (Lower Band Edge, Upper Band Edge, Peak, Avg)



