

Model D45

FCC ID: DKNQ65V

BT/BLE and Zigbee Antenna Gain Addendum

	Measured Max Field Strength (dBuV/m)	Converted EIRP (dBm/MHz)	EBW (MHz)	EBW Correction (dB)	Corrected Total EIRP (dBm)	Conducted Peak Power (dBm)	Effective Antenna Gain (measured EIRP – conducted power) (dBi)	Modelled Antenna Gain (dBi)
BT/BLE	107	11.8	1.06	0.25	12.05	8.51	3.54	4.2
Zigbee	108	12.8	1.43	1.55	14.35	12.09	2.26	4.1

Converted EIRP (dBm/MHz) = FS (dBuV/m) - 95.2

EBW Correction = $10\log(\text{EBW} / 1\text{MHz})$, used to correct for measured field strength in 1MHz BW for full emission BW

Corrected Total EIRP (dBm) = Converted EIRP (dBm/MHz) + EBW Correction

Effective Antenna Gain (dBi) = Corrected EIRP/MHz – Measured Conducted Power

Field strength values noted above specifically comes from 14160419-E5V2 (BLE, page 24), 14160419-E6V2 (BT, page 54) and 14441108-E6 (Zigbee, page 26).

Equipment lists, test methods for field strength values apply C63.10:2013 radiated bandedge procedures come from reports 14160419-E5V2, 14160419-E6V2 and 14441108-E6.