

47 C.F.R. Part 1, Subpart I, Section 1.1310  
47 C.F.R. Part 2, Subpart J, Section 2.1091  
Maximum Permissible Exposure Calculations

For FCC ID: 2AXWZ-KNEEMO01UP

BLE Transceiver

EUT Device Category = General Population/Uncontrolled Exposure

EUT consists of one ISM band radio transmitting operating over a range of:  
**2402 MHz to 2480 MHz**

MPE Summary:

KDB 447498 D01 General RF Exposure Guidance v06 gives the 1-g and 10-g SAR test exclusion thresholds. The limits for 100 MHz to 6 GHz and a test separation distance of  $\leq 50$  mm are defined by the following equation:

$((\text{max EIRP} + \text{tune up tolerance, mW}) / (\text{minimum separation, mm}) * \sqrt{f_{\text{GHz}}}) \leq 3.0$  for 1-g SAR or  $\leq 7.5$  for 10-g SAR

EIRP calculations

Frequency (GHz)	Peak Power (dBuV/m)	Calculated EIRP (dBm)	Calculated EIRP (mW)
2.402	90.18	-5.05	0.313
2.440	91.22	-4.01	0.397
2.480	93.91	-1.32	0.738

MPE and Limit are calculated as follows:

Max EIRP	Separation	Frequency	Density	Limit	Result	Limit	Result
mW	(mm)	GHz	mW/mm	1-g		10-g	
0.313	5.0	2.402	0.097	3.0	Exempt	7.5	Exempt
0.397	5.0	2.440	0.124	3.0	Exempt	7.5	Exempt
0.738	5.0	2.480	0.232	3.0	Exempt	7.5	Exempt

**Result:** The device meets FCC MPE limit for General Population/Uncontrolled Exposure