

- RF Exposure

1. Regulation

According to \$15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See \$1.1307(b)(1) of this Chapter.

KDB447498 was used as the guidance.

According to §1.1310 and §2.1093 RF exposure is calculated.

1.1 Result

Test frequency (GHz)	Conducted Output Power (dBm)	Conducted Output Power (₪₩)	Min. Test Separation Distance (mm)	SAR Test Exclusion Thresholds ≤ 7.5 for 10-g SAR
Bluetooth Low Energy_ Highest	-3.50	0.45	5.00	0.14

1. SAR test exclusion thresholds

= [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(\mathbb{H}z)}]$

 $= [(1.00)/(5)] \cdot [\sqrt{2.480}] = 0.31$

Mode	Target power [dBm]	Tolerance [dB]	Max tuneup power [dBm]	Average Power [dBm]
Bluetooth Low Energy_ Lowest	-5.00	±1.50	-3.50	-3.97
Bluetooth Low Energy_ Middle	-5.00	±1.50	-3.50	-3.97
Bluetooth Low Energy_ Highest	-5.00	±1.50	-3.50	-4.36

1.2 RF Exposure Compliance Issue

Therefore, EUT is not required the SAR Evaluation.