

* 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

| Mode | Test frequency (趾) | Conducted output power (dBm) | Conducted output power (mW) | Min. test separation distance (mm) | SAR test exclusion thresholds ≤ 3.0 for 1g SAR |
|----------------------------------|--------------------------|------------------------------------|-----------------------------|---|--|
| Bluetooth Low Energy_ Highest | 2 480 | -4.00 | 0.40 | 5.00 | 0.13 |

1. SAR test exclusion thresholds

= [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(\mathbb{G}\mathbb{Z})}]$ Bluetooth Low Energy = [(0.40)/(5)] $\cdot [\sqrt{2.480}] = 0.126$

| Mode | Target power [dBm] | Tolerance [dB] | Max tuneup power [dBm] | Average Power [dBm] |
|----------------------------------|--------------------|-------------------|------------------------|---------------------|
| Bluetooth Low Energy_ Lowest | -5.00 | ±1.00 | -4.00 | -5.15 |
| Bluetooth Low Energy_ Middile | -5.00 | ±1.00 | -4.00 | -5.08 |
| Bluetooth Low Energy_ Highest | -9.00 | ±1.00 | -8.00 | -9.34 |

1.2 RF Exposure Compliance Issue

Therefore, EUT is not required the SAR Evaluation.