

## \* 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 (础)	Conducted output power (dBm)	Conducted output power (mW)	Min. test separation distance (mm)	SAR test exclusion thresholds ≤ 3.0 for 1-g SAR
Bluetooth Low Energy_ Highest(1MBits/s)	2 480	1.00	1.26	5.00	0.40

<sup>1.</sup> SAR test exclusion thresholds

### -Bluetooth Low Energy

Mode	Target power [dBm]	Tolerance [dB]	Max tuneup power [dBm]	Average Power [dBm]
Bluetooth Low Energy_ Lowest(1MBits/s)	-1.00	±2.0	1.00	-0.55
Bluetooth Low Energy_ Middle(1MBits/s)	-1.00	±2.0	1.00	-0.45
Bluetooth Low Energy_ Highest(1MBits/s)	-1.00	±2.0	1.00	-0.29
Bluetooth Low Energy_ Lowest(2MBits/s)	-3.00	±2.0	-1.00	-2.47
Bluetooth Low Energy_ Middle(2MBits/s)	-3.00	±2.0	-1.00	-2.36
Bluetooth Low Energy_ Highest(2MBits/s)	-3.00	±2.0	-1.00	-2.23

# 1.2 RF Exposure Compliance Issue

Therefore, EUT is not required the SAR Evaluation.

<sup>= [(</sup>max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(\mathbb{G})}]$ Bluetooth Low Energy = [(1.26)/(5)]  $\cdot [\sqrt{2.480}] = 0.40$