

RF Exposure requirements

Product name	KDC185 Bluetooth Barcode Scanner
Model number	KDC185
FCC ID	VH9-KDC185
Radio specification	2.4 GHz Bluetooth LE transceiver
Antenna	Internal Chip antenna
Power source	DC 3.7 V (Battery)

According to the KDB 447498 D01 General RF Exposure Guidance v06, the equation and threshold in 4.3.1 were applied to determine SAR test exclusion.

4.3.1 Standalone SAR test exclusion consideration

- a) For 100 MHz to 6 GHz and the test separation distances $\leq 50\text{mm}$, the 1-g SAR test exclusion thresholds are determined by the following:

$$[(\text{maximum power, mW}) / (\text{min. test separation distance, mm})] \cdot [f(\text{GHz})] \leq 3.0$$

SAR test exclusion thresholds

Frequency [GHz]	RF output power [mW]	test separation distance [mm]	1-g SAR test exclusion thresholds
2.402	1.08	5	0.214
2.442	1.08	5	0.209
2.480	1.07	5	0.198

The RF output power was low enough to satisfy the SAR test exclusion thresholds when the distance of 5 mm was applied.