

RF Exposure requirements

Product name	Blood Glucose Monitoring System
Model number	IGM-1007A
FCC ID	WSX-IGM-1007A
Radio specification	2.4 GHz Bluetooth LE transceiver
Antenna	Internal PCB antenna
Power source	DC 3 V (Battery, CR2032 × 2)

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:

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

SAR test exclusion thresholds

Frequency [GHz]	RF output power [mW]	test separation distance [mm]	1-g SAR test exclusion thresholds
2.402	0.69	5	0.214
2.442	0.67	5	0.209
2.480	0.63	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.