

# **FCC ID: 2BB3B-TWS249**

## **Portable device**

According to §15.247(i) and §1.1307(b)(1), 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 level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] * [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

f(GHz) is the RF channel transmit frequency in GHz;

Power and distance are rounded to the nearest mW and mm before calculation;

The result is rounded to one decimal place for comparison;

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

We use 5mm as separation distance to calculate.

Maximum measured transmitter power:

**BT**

	Channel Freq. (MHz)	Max Transmit Power (dBm)	Max tune-up power (dBm)	Result calculation	1-g SAR
GFSK	2402	0.38	1	0.39	3.0
	2441	-0.62	0	0.31	3.0
	2480	-3.01	-3	0.16	3.0
pi/4-DQPSK	2402	2.23	3	0.62	3.0
	2441	1.30	2	0.50	3.0
	2480	-1.10	-1	0.25	3.0
8DPSK	2402	2.34	3	0.62	3.0
	2441	1.39	2	0.50	3.0
	2480	-1.06	-1	0.25	3.0

### **Conclusion:**

For the max result :  $0.62 \leq 3.0$  for 1-g SAR extremity SAR, No SAR is required.