RF Exposure Evaluation Report

1 RF EXPOSURE

Product Name: Wireless K-song Bluetooth speaker Model No.: BG-K13, AB4063, AB4051, AB4057

FCC ID: 2BDPJ-BG-K13

2. RF Exposure Evaluation

FCC KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices.

2.1 LIMITS

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

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] *[$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 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 ≤ 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.

2.2 EUT RF EXPOSURE EVALUATION

Worst Mode						
Channel (MHz)	Conducted Power	Tune up Tolerance	Maximum tune-up Power		Calculated	Limit
	(dBm)	(dBm)	(dBm)	(mW)	value	
ANT1-2DH5-	-2.35	-2±1	-1.0	0.794	0.248	3.0
2441MHz						
ANT2-2DH5-	3.46	3±1	4.0	2.512	0.791	3.0
2480MHz						

Calculated value is 0.248 < 3.0 & 0.791 < 3.0, So there is no require SAR test