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RF Exposure Evaluation

FCC ID: 2ASV2-ECBTA1B

The calculations were performed according to following standard:
According to KDB 447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a).

EUT Specification

Product Name:	Bluetooth Speaker
Trade Mark:	Electro-Harmonix
Model/Type reference:	EC-BTA1 With Battery
Listed Model(s):	/
Operating Frequency band:	2402MHz~2480MHz
Device category:	☒ Portable (<5mm separation) ☐ Mobile (>20cm separation) ☐ Fixed (>20cm separation) ☐ Others ____
Exposure classification:	☐ Occupational/Controlled exposure (S=5mW/cm ²) ☒ General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity:	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Antenna gain:	2.77dBi
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

Limit

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

Where:

- $f_{\text{(GHz)}}$ 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 values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

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 according to 4.1 f) is applied to determine SAR test exclusion.



Measurement Result

Mode	Frequency (MHz)	Max. Measured Power (dBm)	Max. Tune up Power (dBm)	Result	Limit	Verdict
GFSK	2402	5.08	6	1.234	3.0	Pass

Note:

For a more detailed features description, Please refer to the RF Test Report.

*****THE END*****