TEST REPORT

Product Name : Tiki Torch Bluetooth Speaker
Model Number : TT100, PBG-1280S, PB-21100501
FCC ID : 2ALZLTT100TIKITORCH

Prepared for	:	Goldwood Sound, Inc.
Address	:	9333 Oso Ave. Chatsworth, CA 91311
Prepared by	:	EMTEK (DONGGUAN) CO., LTD.
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Report Number	:	EDG2306090193E00103R
Date(s) of Tests	:	Jun 09, 2023 to Jun 26, 2023
Date of issue	:	Jun 26, 2023

Table of Contents

1. TEST RESULT CERTIFICATION

Applicant	:	Goldwood Sound, Inc.
Address	:	9333 Oso Ave. Chatsworth, CA 91311
Manufacturer	:	Power beauty (Dong Guan) Industrial Co., Ltd.
Address	:	N o.1, Eastern Industry Park, Shujiu Village, Changping Town, Dong guan City, China
Factory	:	Power beauty (Dong Guan) Industrial Co., Ltd.
Address	:	N o.1, Eastern Industry Park, Shujiu Village, Changping Town, Dong guan City, China
EUT	:	Tiki Torch Bluetooth Speaker
Model Name	:	TT100, PBG-1280S, PB-21100501
Trademark	:	N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	**TEST RESULT**
§ 15.247(i), § 2.1093	**PASS**

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : Jun 09, 2023 to Jun 26, 2023

Prepared by : Warren Deng /Editor

Reviewer : Tim Dong /Supervisor

Approve & Authorized Signer : Sam Lv /Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2306090193E00103R	/	Original Report

2. EUT Specification

Characteristics	Description
Product:	Tiki Torch Bluetooth Speaker
Model Number:	TT100, PBG-1280S, PB-21100501 These models are the same except the model name and appearance, Here select TT100 for test.
Sample:	1#
Device Type:	Bluetooth V5.3
Data Rate:	1Mbps for GFSK modulation 2Mbps for π/4-DQPSK modulation 3Mbps for 8DPSK modulation BLE 1Mbps for GFSK modulation BLE 2Mbps for GFSK modulation
Modulation:	GFSK, π/4-DQPSK, 8DPSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	79 channels for BT 40 channels for BLE
Transmit Power Max:	-3.27 dBm(0.000471 W) for BT 5.03 dBm(0.003221 W) for BLE
Antenna Gain:	-0.58 dBi
Power supply:	DC5V from USB DC 3.7V from battery
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

3. Test Requirement

RF EXPOSURE EVALUATION

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.

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,[24] where

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation[25]
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 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 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.
One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

Antenna gain: -0.58 dBi
When a single module works, the measurement results are as follows:
BT

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	GFSK	-4.8	-5±1	-4	0.1234	3
2441	GFSK	-4.7	-5±1	-4	0.1244	3
2480	GFSK	-4.56	-5±1	-4	0.1254	3
2402	Π/4-DQPSK	-3.73	-4±1	-3	0.1554	3
2441	Π/4-DQPSK	-3.69	-4±1	-3	0.1566	3
2480	Π/4-DQPSK	-3.95	-4±1	-3	0.1579	3
2402	8DPSK	-3.44	-4±1	-3	0.1554	3
2441	8DPSK	-3.27	-4±1	-3	0.1566	3
2480	8DPSK	-3.52	-4±1	-3	0.1579	3

BLE

Transmit Frequency (MHz)	**Rate**	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	1Mbps	GFSK	4.95	4±1	5	0.9802041	3
2441	1Mbps	GFSK	4.62	4±1	5	0.9879271	3
2480	1Mbps	GFSK	4.82	4±1	5	0.9959920	3
2402	2Mbps	GFSK	5.08	5±1	6	1.2340038	3
2441	2Mbps	GFSK	4.73	4±1	5	0.9879271	3
2480	2Mbps	GFSK	4.96	4±1	5	0.9959920	3

According to KDB 447498, no stand-alone required for BT & BLE antenna, and no simultaneous SAR measurement is required.

*** End of Report ***