

TEST REPORT

Product Name: LED Speaker

Model Number: PBG-3430S, PBG-4032S

FCC ID : 2AC37PBFLOORLA

Prepared for Power beauty (Dong Guan) Industrial Co., Ltd.

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1. TEST RESULT CERTIFICATION

Applicant Power beauty (Dong Guan) Industrial Co., Ltd.

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Manufacturer Power beauty (Dong Guan) Industrial Co., Ltd.

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EUT LED Speaker

Model Name PBG-3430S, PBG-4032S

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 :	Sep 25, 2024 to Oct 10, 2024			
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Approve & Authorized Signer:	Sam Lv / Manager			



Modified History

Version	sion Report No. Revision Date		Summary	
	EDG2409250013E00102R	1	Original Report	





2. EUT Specification

Characteristics	Description		
Product:	LED Speaker		
Model Number:	PBG-3430S, PBG-4032S All models are the same, except the model name. Here, PBG-3430S is selected to test all the test items.		
Sample:	1#		
Data Rate:	1Mbps for GFSK modulation 2Mbps for π/4-DQPSK modulation		
Modulation:	GFSK, π/4-DQPSK		
Operating Frequency Range(s) :	2402-2480MHz		
Number of Channels:	79 channels		
Transmit Power Max:	2.56 dBm(0.001803W)		
Antenna Gain:	-0.58 dBi		
Power supply:	DC 5V from USB DC3.7V from battery		
Evaluation applied: ☐ MPE Evaluation ☐ SAR Evaluation			



3. Test Requirement

SAR Evaluation

According to 447498 D01 V06, 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 quidelines.

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)] · $[\sqrt{f_{(GHz)}}] \le 3.0$ 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

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune up Power (dBm)	Max tune up power (dBm)	Calculation Result	Calculation threshold(1 -g SAR)
2402	GFSK	1.50	1±1	2	0.4913	3
2441	GFSK	1.97	2±1	3	0.6235	3
2480	GFSK	1.58	1±1	3	0.6284	3
2402	Π/4-DQPSK	2.21	2±1	3	0.6185	3
2441	Π/4-DQPSK	2.56	2±1	3	0.6235	3
2480	Π/4-DQPSK	2.05	2±1	3	0.6284	3

According to KDB 447498 D01 V06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***