

TEST REPORT

Product Name: BT SPK RETRO W/ LEGS

Model Number: SP-0162

FCC ID : 2ADM5-SP-0162

Prepared for Zeeva International Limited

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1. TEST RESULT CERTIFICATION

Applicant Zeeva International Limited

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Hong Kong, China

Manufacturer Zeeva International Limited

Suite 1007B, 10th Floor, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Address

Hong Kong, China

EUT BT SPK RETRO W/ LEGS

Model Name SP-0162

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 :	Oct 21, 2024 to Nov 21, 2024		
Prepared by :	Jessoca Zhang		
	Jessica Zhan <u>g /Editor</u> √		
Reviewer:	Warren Deng		
	Warren Deng /Supervisor		
	PONGGUAN, CO.LTD.		
Approve & Authorized Signer:	Sam Lv /Manager ESTING		



Modified History

Version	Report No.	Revision Date	Summary
	EDG2410210062E00102R	1	Original Report





2. EUT Specification

Characteristics	Description			
Product:	BT SPK RETRO W/ LEGS			
Model Number:	SP-0162			
SKU:	9175218			
UPC:	1922346315312			
COLOR:	BLACK			
Sample:	1#			
Data Rate:	1Mbps for GFSK modulation 2Mbps for π/4-DQPSK modulation 3Mbps for 8DPSK modulation			
Modulation:	GFSK, π/4-DQPSK, 8DPSK			
Operating Frequency Range(s) :	2402-2480MHz			
Number of Channels:	79 channels			
Transmit Power Max:	3.11 dBm(0.002046W)			
Antenna Gain:	-6.17 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: -6.17 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	1.99	2±1	3	0.6208	3
2441	GFSK	1.97	2±1	3	0.6240	3
2480	GFSK	1.31	1±1	2	0.4982	3
2402	Π/4-DQPSK	2.65	2±1	3	0.6185	3
2441	Π/4-DQPSK	2.62	2±1	3	0.6235	3
2480	Π/4-DQPSK	1.92	2±1	3	0.6284	3
2402	8DPSK	3.11	3±1	4	0.7786	3
2441	8DPSK	3.01	3±1	4	0.7849	3
2480	8DPSK	2.38	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 ***