

TEST REPORT

: Sport TWS Earphones with charging case **Product Name**

RBK1000, RBK1000-BLK, RBK1000-RED, Model Number

RBK1000-BLU, TD509B FCC ID : 2AOKX-TD509B

Prepared for SHENZHEN SWETZ SOUND TECHNOLOGY CO., LIMITED

Address No.19, Jianlong Street, Baoan Community

Yuanshan, Longgang District Shenzhen China

EMTEK (DONGGUAN) CO., LTD. Prepared by

Address -1&2/F., Building 2, Zone A, Zhongda Marine Biotechnology

Research and Development Base, No.9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone,

Dongguan, Guangdong, China

TEL: +86-0769-22807078 FAX: +86-0769-22807079

Report Number EDG2409120160E00102R Date(s) of Tests Sep 12, 2024 to Sep 23, 2024

Date of issue Sep 24, 2024



Table of Contents

1. TEST RESULT CERTIFICATION	3
2. EUT SPECIFICATION	5
3. TEST REQUIREMENT	6
4 MEASUREMENT RESULT	7





1. TEST RESULT CERTIFICATION

SHENZHEN SWETZ SOUND TECHNOLOGY CO., LIMITED Applicant

No.19, Jianlong Street, Baoan Community Yuanshan, Longgang District Address

Shenzhen China

Manufacturer SHENZHEN SWETZ SOUND TECHNOLOGY CO., LIMITED

No.19, Jianlong Street, Baoan Community Yuanshan, Longgang District Address

Shenzhen China

SHENZHEN SWETZ SOUND TECHNOLOGY CO., LIMITED Factory

No.19, Jianlong Street, Baoan Community Yuanshan, Longgang District Address

Shenzhen China

EUT Sport TWS Earphones with charging case

Model Name RBK1000, RBK1000-BLK, RBK1000-RED, RBK1000-BLU, TD509B

Trademark REEBOK

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 12, 2024 to Sep 23, 2024
Prepared by :	Jessoca Zhang
	<u>Jessica Zhang /Editor</u>
Reviewer:	Warren Deng
	Warren Deng /Supervisor
	NGGUAN O ITE
Approve & Authorized Signer:	Sam Lv / Manager



Modified History

Version	Report No.	Revision Date	Summary	
	EDG2409120160E00102R	1	Original Report	





2. EUT Specification

Characteristics	Description		
Product:	Sport TWS Earphones with charging case		
Model Number:	RBK1000, RBK1000-BLK, RBK1000-RED, RBK1000-BLU, TD509B (Note: These models are the same, except for the model names and color;RBK1000 was selected for full test.)		
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:	3.64 dBm(0.002312 W)		
Antenna Gain:	2.7 dBi		
Power supply:	DC 5V from USB DC 3.7V 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: 2.7 dBi

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	GFSK	2.71	3±1	4	0.7786	3
2441	GFSK	2.82	3±1	4	0.7849	3
2480	GFSK	3.07	3±1	4	0.7911	3
2402	Π/4-DQPSK	3.46	3±1	4	0.7786	3
2441	П/4-DQPSK	3.57	3±1	4	0.7849	3
2480	П/4-DQPSK	3.64	4±1	5	0.9960	3

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

*** End of Report ***