

# EMF TEST REPORT

**Test Report No.** : OT-258-RWD-002

**Reception No.** : 2507002353

**Applicant** : Futuristec Corp.

**Address** : 202-1, 169, Gaetbeol-ro, Yeonsu-gu, Incheon, Republic of Korea

**Manufacturer** : Futuristec Corp.

**Address** : 202-1, 169, Gaetbeol-ro, Yeonsu-gu, Incheon, Republic of Korea

**Type of Equipment** : Ring Mouse

**FCC ID.** : 2BQZ4-RMWTB200

**Model Name** : RMWTB200

**Multiple Model Name** : RMWTW200

**Serial number** : N/A

**Total page of Report** : 6 pages (including this page)

**Date of Incoming** : July 11, 2025

**Date of issue** : August 01, 2025

## SUMMARY

The equipment complies with the regulation; *FCC 47 CFR Part 1, 1.1310*

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

This report is not correlated with the "KS Q ISO/IEC 17025 and KOLAS accreditation" of Korean Laboratory Accreditation Scheme.

한동연



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**Revision History**

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-258-RWD-002	August 01, 2025	Initial Release	All

## 1. VERIFICATION OF COMPLIANCE

Applicant : Futuristec Corp.  
Address : 202-1, 169, Gaetbeol-ro, Yeonsu-gu, Incheon, Republic of Korea  
Contact Person : Joongkil Kwon / Managing Director  
Telephone No. : +82-10-7420-1517  
FCC ID : 2BQZ4-RMWTB200  
Model Name : RMWTB200  
Brand Name : -  
Serial Number : N/A  
Date : August 01, 2025

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	Ring Mouse
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	KDB 447498 D01 General RF Exposure Guidance v06
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
Modifications on the Equipment to Achieve Compliance	None

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

## 2. GENERAL INFORMATION

### 2.1 Product Description

The Futuristec Corp., Model RMWTB200 (referred to as the EUT in this report) is a Ring Mouse. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	Ring Mouse	
Temperature Range	10 °C ~ +32 °C	
Operating Frequency	2 402 MHz ~ 2 480 MHz	
MAX. RF OUTPUT POWER	1 Mbps	-9.00 dBm
	2 Mbps	-9.00 dBm
Number of Channel	40 Channels	
Modulation Type	GFSK	
Antenna Type	Chip Antenna	
Antenna Gain	2.36 dBi	
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32.768 kHz, 32 MHz	
Rated Supply Voltage	DC 3.70 V	

### 2.2 Alternative type(s)/model(s); also covered by this test report.

-. The following lists consist of the added model and their differences.

Model Name	Differences	Tested
RMWTB200	Basic Model	<input checked="" type="checkbox"/>
RMWTW200	This model is identical to the basic model except for the color. (Basic Model: Black / Multiple Model: White)	<input type="checkbox"/>

Note: 1. Applicant consigns only basic model to test. Therefore this test report just guarantees the units, which have been tested.

2. The Applicant/manufacture is responsible for the compliance of all variants.

## 3. EUT MODIFICATIONS

-. None

## 4. RF EXPOSURE EVALUATION

### 4.1 RF Exposure Calculation

According to the FCC rule §4.3. General SAR test exclusion guidance, the limit for 1-g and 10-g SAR test exclusion thresholds are  $\leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR by the device operating 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm

### 4.2 EUT Description

Kind of EUT	Ring Mouse
Device Category	<input checked="" type="checkbox"/> Portable (< 20 cm separation) <input type="checkbox"/> Mobile (> 20 cm separation) <input type="checkbox"/> Others
Exposure Evaluation Applied	<input type="checkbox"/> MPE <input type="checkbox"/> SAR <input checked="" type="checkbox"/> N/A

### 4.3 Test Result

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

$$[(\text{Max. Power of channel, including tune-up tolerance, mW})/(\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3.0$$

$$= [(0.32/5)] \times \sqrt{2.480} = 0.101$$

#### 4.3.1 Test data for Bluetooth LE

Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Antenna Gain (dBi)	E.I.R.P power (dBm)	E.I.R.P power (mW)	Separation distance (mm)	RF exposure
2 480.00	-9.00 $\pm$ 0.5	-8.50	2.36	-6.14	0.24	10	0.038