

EMF TEST REPORT

Test Report No. : OT-231-RWD-035

Reception No. : 2301000018

Applicant : Remote Solution Co.,Ltd.

Address : 92, Chogokri Nammyun, Kimchon City, Kyungbuk, Korea

Manufacturer : Remote Solution Co.,Ltd.

Address : 92, Chogokri Nammyun, Kimchon City, Kyungbuk, Korea

Type of Equipment : BLE Remote Control

FCC ID. : TX4-RD98A

Model Name : RD98

Multiple Model Name : RD98XBB (X stands for A~Z, BB stands for 00~99)

Serial number : N/A

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

Date of Incoming : January 05, 2023

Date of issue : January 31, 2023

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.

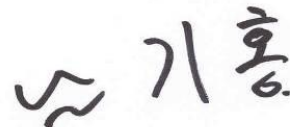
This report is not correlated with the "KS Q ISO/IEC 17025 and KOLAS accreditation" of Korean Laboratory Accreditation Scheme.



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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-231-RWD-035	January 31, 2023	Initial Release	All

* Please contact us (e-mail: info@onetech.co.kr) for verification of this test report.

1. VERIFICATION OF COMPLIANCE

Applicant : Remote Solution Co.,Ltd.
 Address : 92, Chogokri Nammyun, Kimchon City, Kyungbuk, Korea
 Contact Person : Byung-Cheol Kim / Manager
 Telephone No. : +82-54-420-4517
 FCC ID : TX4-RD98A
 Model Name : RD98
 Brand Name : -
 Serial Number : N/A
 Date : January 31, 2023

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	BLE Remote Control
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC 47 CFR Part 1, 1.1310
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

-. 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 Remote Solution Co.,Ltd., Model RD98 (referred to as the EUT in this report) is a BLE Remote Control. The product specification described herein was obtained from product data sheet or user’s manual.

DEVICE TYPE	BLE Remote Control
OPERATING FREQUENCY	2 402 MHz ~ 2 480 MHz
MODULATION TYPE	DSSS Modulation(GFSK)
RF OUTPUT POWER	3.85 dBm
NUMBER OF CHANNEL	40 Channel
ANTENNA TYPE	Chip Antenna
ANTENNA GAIN	0.97 dBi
Electrical Rating	DC 3.0 V
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	24.0 MHz

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
RD98	Basic Model	<input checked="" type="checkbox"/>
RD98XBB (X stands for A~Z, BB stands for 00~99)	Multiple models are derived for Marketing purpose, Each model name is made of RD98 and the combination of A~Z and 00~99. All multiple models are identical to the basic model except for model name.	<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/manufacturer 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 ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR by the device operating 100 MHz to 6 GHz and test separation distances ≤ 50 mm

4.2 EUT Description

Kind of EUT	BLE Remote Control
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

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

$$= [(3.05/5)] \times \sqrt{2.480} = 0.962$$

4.3.1 Test data for Bluetooth LE

Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
2 480.00	3.85 ± 1.0	4.85	3.05	5	0.962