

EMF TEST REPORT

Test Report No. : OT-23D-RWD-002
Reception No. : 2309003106
Applicant : ACE LIFE CO.,LTD.
Address : 5, Bongsin-ro 229beon-gil, Dunpo-myeon, Asan-si, Chungcheongnam-do, South Korea
Manufacturer : ACE LIFE CO.,LTD.
Address : 5, Bongsin-ro 229beon-gil, Dunpo-myeon, Asan-si, Chungcheongnam-do, South Korea
Type of Equipment : Remote Control
FCC ID. : 2AY48TUS-REM23
Model Name : TUS-REM23
Multiple Model Name : N/A
Serial number : N/A
Total page of Report : 6 pages (including this page)
Date of Incoming : November 10, 2023
Date of issue : December 04, 2023

SUMMARY

The equipment complies with the regulation; **FCC CFR 47 PART 2.1091**

This test report contains only 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-23D-RWD-002	December 04, 2023	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : ACE LIFE CO.,LTD.

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FCC ID : 2AY48TUS-REM23

Model Name : TUS-REM23

Brand Name : TUSHY Ace

Serial Number : N/A

Date : December 04, 2023

EQUIPMENT CLASS	DTS – DIGITAL TRANSMISSION SYSTEM
E.U.T. DESCRIPTION	Remote Control
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	KDB 447498 D01 General RF Exposure Guidance v06
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT	Certification
AUTHORIZATION REQUESTED	
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 ACE LIFE CO.,LTD., Model TUS-REM23 (referred to as the EUT in this report) is a Remote Control. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	Remote Control
Operating Frequency	2 423 MHz (Tx Only)
RF Output Power	-28.85 dBm
Number of Channel	1 Channels
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	0.02 dBi
Rated Supply Voltage	DC 4.5 V
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	16 MHz

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

- None

3. EUT MODIFICATIONS

- None

4. RF Exposure Evaluation

4.1 Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to the procedure, KDB 447498 D06, the standalone SAR test exclusion threshold is

$$[(\text{Max. Power of channel, including tune-up tolerance, mW}) / (\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$$

4.2 EUT Description

Kind of EUT	Remote Control
Device Category	<input checked="" type="checkbox"/> Portable (< 20 cm separation) <input type="checkbox"/> Mobile (> 20 cm separation) <input type="checkbox"/> Others
Exposure	<input type="checkbox"/> MPE <input type="checkbox"/> SAR
Evaluation Applied	<input checked="" type="checkbox"/> SAR Exemption

4.3 Test Result of SAR Exclusion for Portable Devices

$$[(\text{Max. Power of channel, including tune-up tolerance, mW}) / (\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] \\ = (0.87/5) \times \sqrt{2.423} = 0.271 < 3$$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
2 423.00	-28.85 ± 0.5	-28.35	0.002	5	0.000 5