

EMF TEST REPORT

Test Report No. : OT-233-RWD-009
Reception No. : 2210003188
Applicant : INTERTEC Co.,Ltd.
Address : 15, DONGTANGIHEUNG-RO, DONGTAN-MYEON, HWASEONG-SI,
GYEONGGI-DO, #18487, SOUTH KOREA
Manufacturer : INTERTEC Co.,Ltd.
Address : 15, DONGTANGIHEUNG-RO, DONGTAN-MYEON, HWASEONG-SI,
GYEONGGI-DO, #18487, SOUTH KOREA
Type of Equipment : REMOTE CONTROL
FCC ID. : 2A9WE-ITBKLN04-R02
Model Name : KL-RC-NF04RFA
Multiple Model Name : KL-RC-NF04RFB, KL-RC-NF04RFC, KL-RC-NF04RFZ
Serial number : N/A
Total page of Report : 6 pages (including this page)
Date of Incoming : December 15, 2022
Date of issue : March 09, 2023

SUMMARY

The equipment complies with the regulation; **FCC CFR 47 PART 2.1093**

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.

유수민

기홍

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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-233-RWD-009	March 09, 2023	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : INTERTEC Co.,Ltd.
Address : 15, DONGTANGIHEUNG-RO, DONGTAN-MYEON, HWASEONG-SI, GYEONGGI-DO, #18487, SOUTH KOREA
Contact Person : KIM JI HYUN / PRESIDENT
Telephone No. : +82-31-205-2223
FCC ID : 2A9WE-ITBKLN04-R02
Model Name : KL-RC-NF04RFA
Multiple Model Name : KL-RC-NF04RFB, KL-RC-NF04RFC, KL-RC-NF04RFZ
Brand Name : KLLOM Tankless
Serial Number : N/A
Date : March 09, 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	
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 INTERTEC Co.,Ltd., Model KL-RC-NF04RFA (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	2 403 MHz ~ 2 475 MHz
RF Output Power	-16.10 dBm
Number of Channel	73 Channels
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	2.76 dBi
Rated Supply Voltage	DC 3.0 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.

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

Model Name	Differences	Tested
KL-RC-NF04RFA	Basic Model	<input checked="" type="checkbox"/>
KL-RC-NF04RFB	This model is derived for Marketing purpose, It is identical to the basic model.	<input type="checkbox"/>
KL-RC-NF04RFC		<input type="checkbox"/>
KL-RC-NF04RFZ	This model is identical to basic model except for removal of deodorization function button in appearance.	<input type="checkbox"/>

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

Note 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 §2.1093 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	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
[(Max. Power of channel, including tune-up tolerance, mW)/(Min. test separation distance, mm)] X [$\sqrt{f(\text{GHz})}$] < 3.0
 $= [(0.03/5)] X \sqrt{2.475} = 0.01$

4.3.1 Test data for GFSK

Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
2 475	-16.10	-15.10	0.03	5	0.01