

# TEST REPORT

Product Name : Remote control  
Model Number : RCS25  
FCC ID : ULE-RCS25

Prepared for : Hearth & Home Technologies  
Address : 800 W. Jefferson Street Lake City MN 55041 United States  
Of America

Prepared by : EMTEK (NINGBO) CO., LTD.  
Address : No. 8, Building 8, Lane 216, Qingyi Road, Ningbo Hi-Tech  
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Report Number : ENB2412050003W00302R  
Date(s) of Tests : December 18, 2024 to December 26, 2024  
Date of Issue : December 30, 2024

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## Test Report Description

Applicant : Hearth & Home Technologies  
Address : 800 W. Jefferson Street Lake City MN 55041 United States Of America  
Manufacturer : Hearth & Home Technologies  
Address : 800 W. Jefferson Street Lake City MN 55041 United States Of America  
EUT : Remote control  
Model Name : RCS25  
Trademark : N/A

The device described above is tested by EMTEK (NINGBO) CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. This report shows the EUT to be technically compliant with the FCC 1.1310 and KDB 447498 D01 General RF Exposure Guidance v07 requirements. The test results are contained in this report and EMTEK (NINGBO) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests.

This report applies to above tested sample only and shall not be reproduced in part without written approval of EMTEK (NINGBO) CO., LTD..

Date of Test : December 18, 2024 to December 26, 2024

*Victor Chen*

Prepared by : Victor Chen/Engineer

Reviewer : June Gao /Supervisor

Approved & Authorized Signer : Tony Wei/Manager



## Modified Information

Version	Report No.	Revision Date	Summary
/	ENB2408160024W00302R	/	Original Report



## 1. Facilities And Accreditations

### 1.1. Test Facility

All measurement facilities used to collect the measurement data are located at  
EMTEK (NINGBO) CO., LTD.

No. 8, Building 8, Lane 216, Qingyi Road, Ningbo Hi-Tech Zone, Ningbo, Zhejiang, China  
The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR  
Publication 32.

### 1.2. LABORATORY ACCREDITATIONS AND LISTINGS

#### Site Description

EMC Lab.

#### : Accredited by CNAS

The Certificate Registration Number is L6666.

The Laboratory has been assessed and proved to be in compliance with  
CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)

#### Designation by FCC

Designation Number: CN1354

Test Firm Registration Number: 427606

#### Accredited by A2LA

The Certificate Number is 4321.03.

The certificate is valid until May 31, 2025

#### Designation by Industry Canada

The Conformity Assessment Body Identifier is CN0114

#### Name of Firm

Site Location

: EMTEK (NINGBO) CO., LTD.

: No. 8, Building 8, Lane 216, Qingyi Road, Hi-Tech Zone, Ningbo,  
Zhejiang, China

## 2. General Product Information

Characteristics	Description
<b>Product:</b>	Remote control
<b>Model Number:</b>	RCS25
<b>Sample Number:</b>	ENB2412050003W003-1-1
<b>Modulation:</b>	FSK
<b>Operating Frequency:</b>	433.92MHz
<b>Number of Channels:</b>	1 channel
<b>Max Transmit Power:</b>	89.30 dBuV/m
<b>Antenna Type :</b>	PCB Antenna
<b>Antenna Gain:</b>	2.5 dBi
<b>Power supply:</b>	DC 3V for Battery
<b>Temperature Range:</b>	-20°C ~ +60°C
<b>Date of Received:</b>	December 18, 2024

*Note: for more details, please refer to the User's manual of the EUT.*

### 3. Limit

According to §15.249(i) and §1.1307(b)(1), 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 guidelines.

According to KDB447498 D01 General RF Exposure Guidance V07

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

$f(\text{GHz})$  is the RF channel transmit frequency in GHz;

Power and distance are rounded to the nearest mW and mm before calculation;

The result is rounded to one decimal place for comparison;

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  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 is applied to determine SAR test exclusion.

We use 5mm as separation distance to calculate.

## 4. Test Results

Maximum measured transmitter power:

$$\text{EIRP} = E + 20 \log(d) - 104.7 = 89.30 + 9.54 - 104.7 = -5.86 \text{ dBm}$$

Transmit Frequency (MHz)	Mode	EIRP Power (dBm)	tune up maximum power(dBm)	Result calculation	1-g SAR
433.92	ASK	-5.86 dBm	-6	0.04	3

Conclusion:

For the max result :  $0.04 \leq 3.0$  for 1-g SAR extremity SAR.

\*\*\* End of Report \*\*\*

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Objections shall be raised within 20 days from the date receiving the report.