Testing Report

Customer Name: Shanghai Qiwai Cultural Technology Co., Ltd

Product Name: Remote Controller Antenna

Sample Model: XHYKZB

Reference Standard: GB/T 9410-2008; ANSI/IEEE Std 149-

1979

Issue Date: 2024.2.7

Version

Version	Date	Description	Formulate	Approval
No.				
A0	2024.2.7	For the first		
		time, formulate		

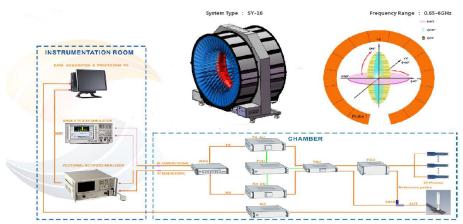
1.General Information

1.1 General information of testing institutions

Name	Yinghuada (Nanjing) Technology Co., Ltd					
Address	133 Jiangjun Avenue, Jiangning District, Nanjing City					
Tel	025-52262313 18913802852					
E-mail	ji.jian-lin@iac.com.tw					

1.2 Testing principle

Multi-Probe OTA Measurement System



1.3 Test equipment

Equipment	Model	Serial	Manufacturer	Calibration	Next
	No.	No.		date	calibration
					date
16 probe	3*3*2.5	RFI-LAB-	SUNYIELD	2023.3.15	2024.3.14
microwave		RF			
chamber		-A00			
Network	E5071C	RFI-LAB-	Agilent	2023.5.13	2024.5.12
Analyzer		RF			
		-A02			

1.4 Test environment

Temperature	24.6℃
Humidity	59%RH
Pressure	100.19kPa

1.5 Statement

- (1) The test results in the report are only applicable to the tested samples and the tested samples work under the environment described in the report.
- (2) Any objection to this report shall be raised within 30 days after formal confirmation of the report.
- (3) This report is invalid if there is any evidence that the sample information provided is falsified.
- (4) The report is invalid without the signature of the auditor and approver.

2. Sample Information

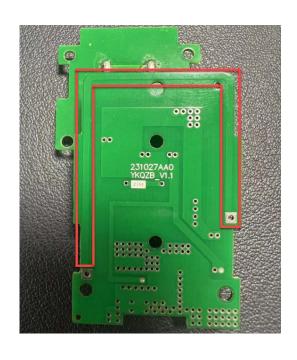
2.1 Client information

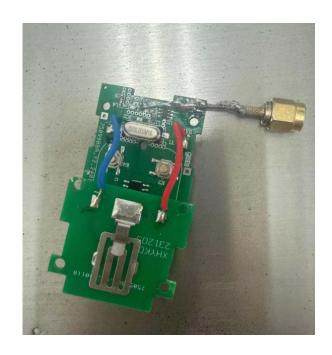
Name	Shanghai Qiwai Cultural Technology Co., Ltd
Address	
Contacts	
Tel	
E-mail	

2.2 Description of EUT(S)

Product	Remote Controller Antenna					
Name						
Sample	XHYKZB					
Model						
Test Item	Antenna gain; Radiation pattern and efficiency					
Frequency	400MHz-480MHz					
Range						
Test Date	2024.2.7					
Remark						

2.3 EUT appearance





3.Test Results

3.1 Test standard

Name	Parameter	Method	Standard	
			no.	
Mobile	Antenna	Generic specification	GB/T9410-	
communication	gain	for antennas used in the	2008	
antenna	Radiation	mobile communications		
	pattern			
Antenna	Radiation	IEEE Standard Test	ANSI/IEEE	
	efficiency	Procedures for Antennas	Std	
	Gain and		149-1979	
	directivity			

3.2 Test uncertainty

The uncertainty was calculated on the basis of the GUM published by ISO, using the inclusion factor of K=2 and the 95% confidence level to express the extended uncertainty.

Item	Uncertainty
Antenna gain	±1dB
Radiation efficiency	±10%

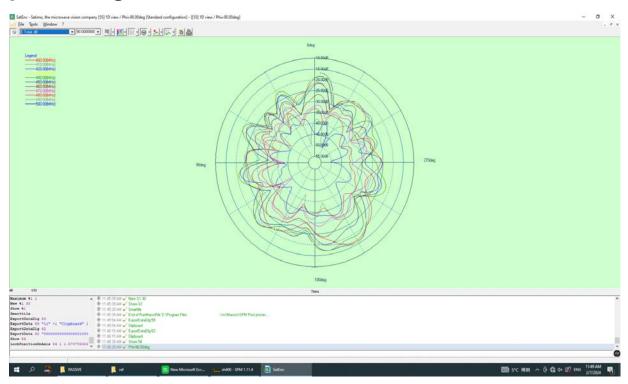
3.3 Test data

3.3.1 Typical free space efficiency and gain

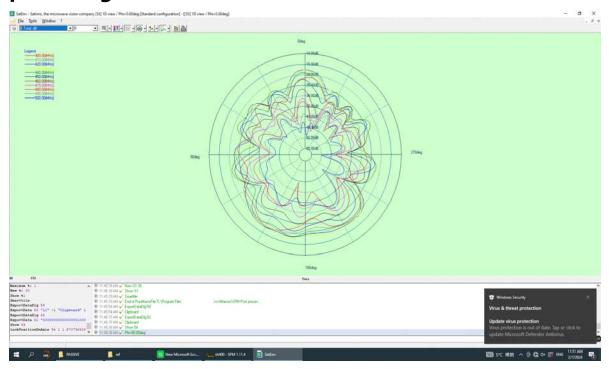
Frequency/MHz	400	410	420	430	440	450	460	470	480
Peak Gain/dB	-16.7	-16.1	-15.9	-15.5	-17.0	-19.8	-23.4	-26.7	-28.1
Efficiency/%	-25.1	-24	-23.1	-22.3	-23.5	-25.8	-29.0	-32.4	-34.6

3.3.2 Typical free space radiation pattern

phi=90deg



phi=0deg



Theta=90deg

