


Antenna Test Report

Product Name: 2.4G Remote Control	Report No. : RF230815004-01-001
Product Model: YL-QP-2.4G-01	Security Classification: Open
Version : V1.0	Total Page: 11

HAIYUN Laboratory Report

Equipment:	2.4G Remote Control
Model:	YL-QP-2.4G-01
Applicant:	Dong Guan Ya Li Electric Appliance Co., Ltd.
Applicant address:	THE FIVE STREET JINQIANLING JITIGANG HUANGJIANG TOWN, DONGGUAN CITY, GUANGDONG
Manufacture:	Dong Guan Ya Li Electric Appliance Co., Ltd.
Address:	THE FIVE STREET JINQIANLING JITIGANG HUANGJIANG TOWN, DONGGUAN CITY, GUANGDONG
Date of Receipt:	Aug 29.2023
Date of Test:	Aug 29.2023
Issue Date:	Aug 30.2023
Tested by:	Shenzhen HAIYUN Testing Co., Ltd. Laboratory

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1.Purose & Environment

1.1 Purpose

- Meet the electrical performance index;
- Confirm the antenna scheme to meet the design requirements;

1.2 Environment

- Test Condition: the network analyzer(E5071C) and SATIMO microwave anechoic chamber
- Passive measurement results are presented

- TEST ENVIRONMENT CONDITIONS

Temperature	26.85°C	Relative Humidity	53.2 %
Atmosphere Pressure	101 kPa	\	\

2. Test Configuration and Test Method

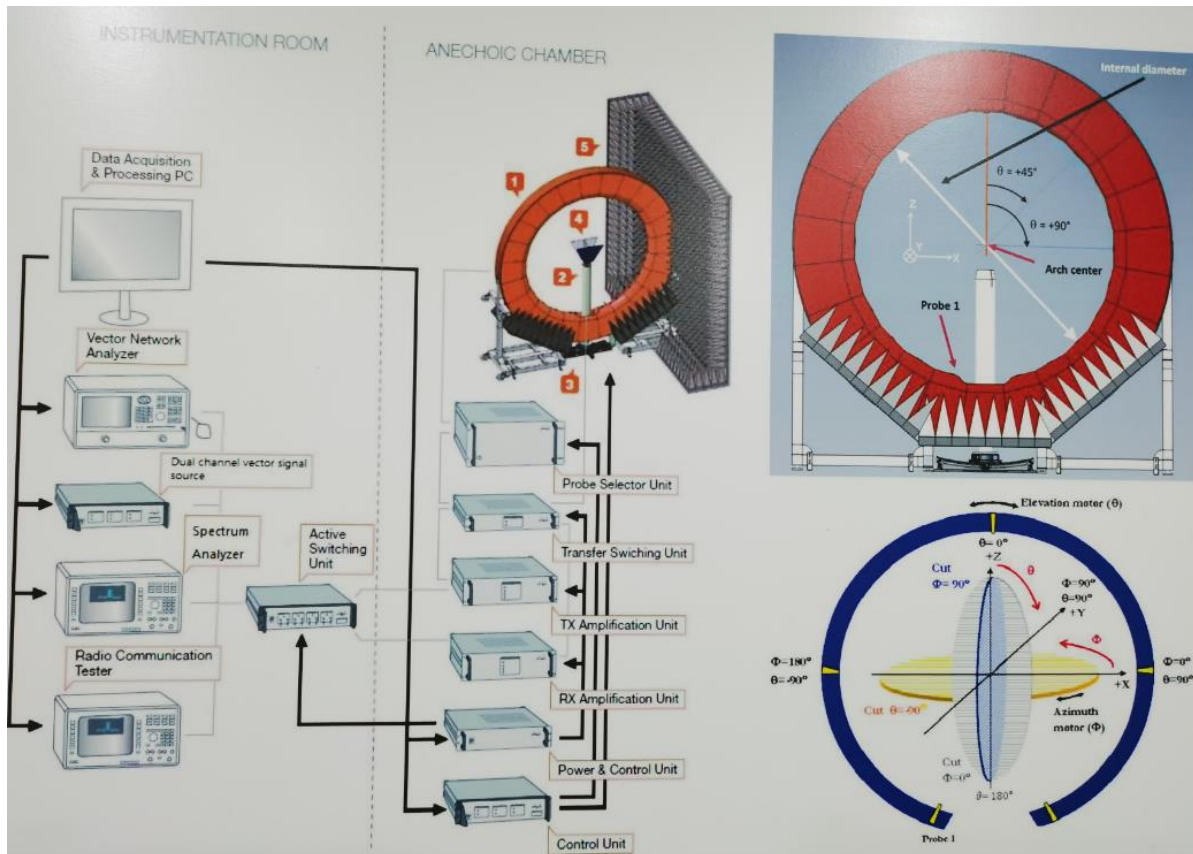
2.1 Test Configuration

Test configuration: Reference to CITA OTA distributed-axes system configuration.

Chamber: Fully Anechoic Chamber.

Turntable: Phi angle; Multiple antenna loop: Theta angle

Test system configuration diagram

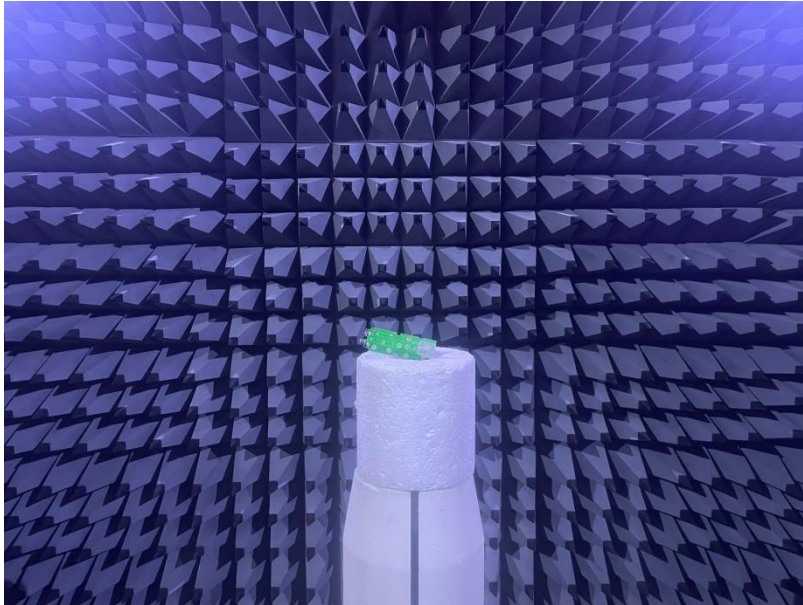


2.2 Test Method

Port 1 of Network analyzer connect to antenna of EUT. Record S21 value every 15 degree from 0 to 345 degree on Theta angle and 0 to 180 on Phi angle . Repeat process to each antenna of EUT.

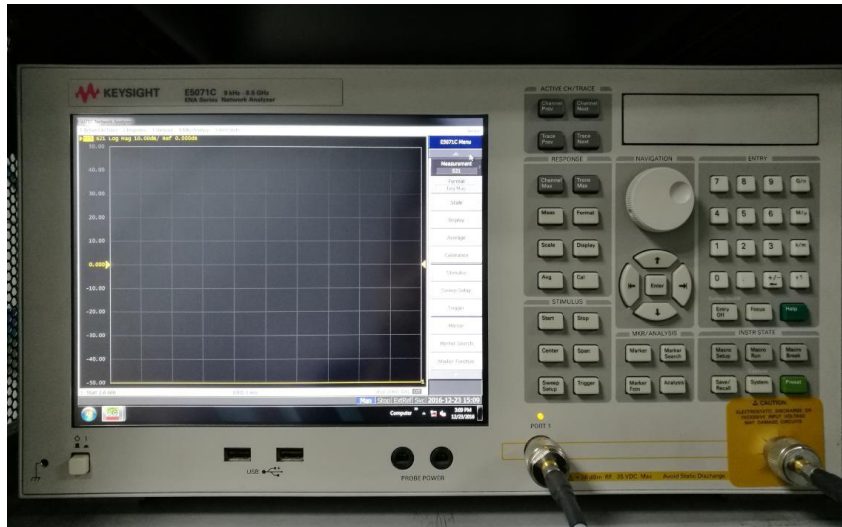
3.Test photos、 Test Condition and DUT Antenna

3.1 Test photos



Microwave anechoic chamber

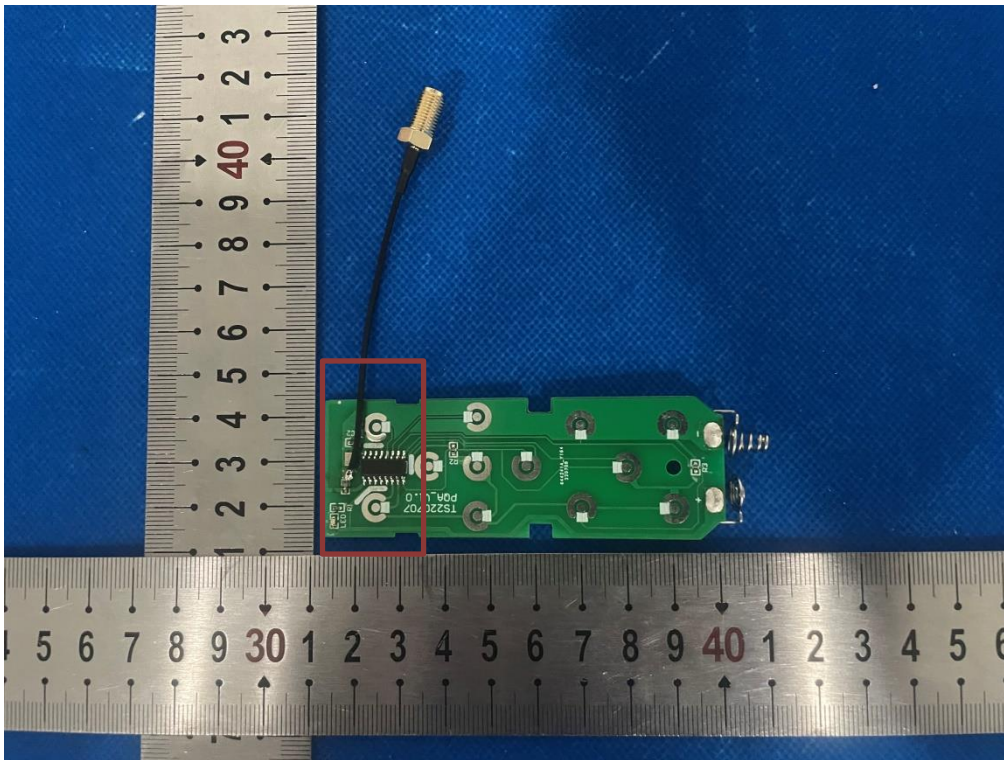
3.2 Test Instruments



Name of Equipment	Manufacturer	Model Number	Serial Number	Calibrated until
Network Analyzer	Agilent	E5071C	MY46523716	2023/10/17
PROBE ARRAY	MVG	SG24-DP400-6000	/	2023/10/17
Chamber	MVG	Wave Studio 2.0	/	2023/10/17

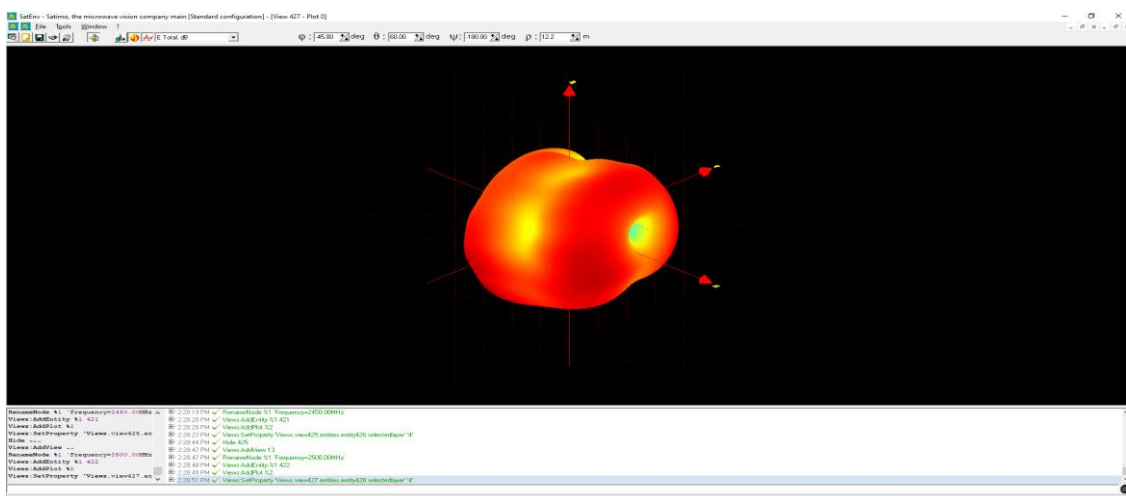
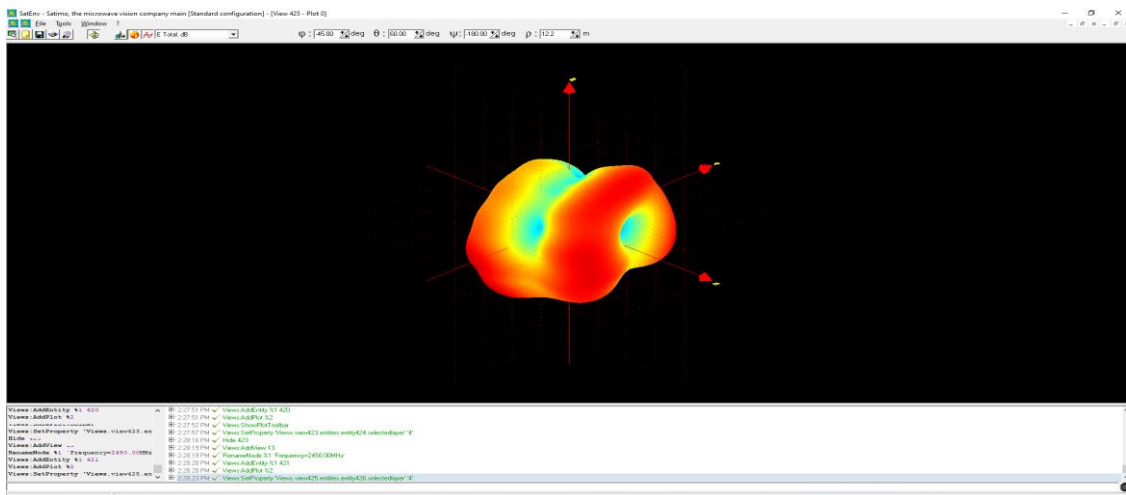
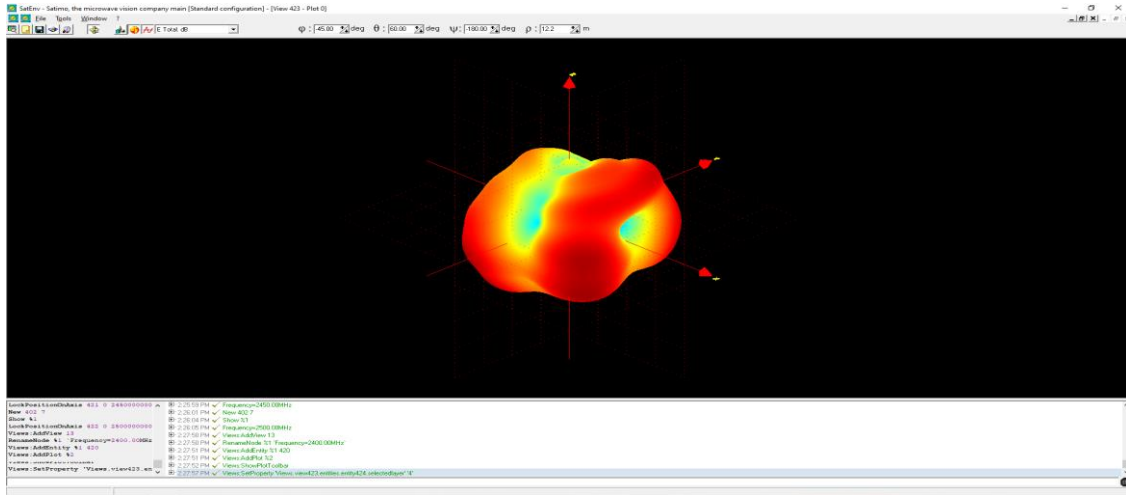
Note: 1 The Cal. Interval was one year.

3.3 DUT Antenna



4.2 2.4GHz 3D Radiation pattern test results

Antenna_3D



5. Peak Gain

5.1 2.4GHz Test results

Antenna_Peak Gain	
Frequency (MHz)	Peak_Gain .dBi
2400	-5.95093
2410	-5.96947
2420	-5.65115
2430	-5.82497
2440	-5.77108
2450	-6.07125
2460	-5.92256
2470	-6.06625
2480	-5.92324
2490	-5.98641
2500	-5.94118

Statement

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6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

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(END OF REPORT)