SONY

FCC Part 15 Antenna Gain Test Report

FCC ID: AK8YY2975

Type of Equipment: Radio Equipment

Model No.: YY2975

Similar Model(s) N/A

to be covered by this report:

Test Facility: Sony Global Manufacturing & Operations Corporation

EMC/RF Test Laboratory, Main Lab.

8-4 Shiomi Kisarazu-shi Chiba-ken, 292-0834, Japan

Date of Testing: April 9, 2024

Date of Issue: April 11, 2024

Reported by:

Hideki Hayashiya

Hideki Hayashiya (Technical Engineer)

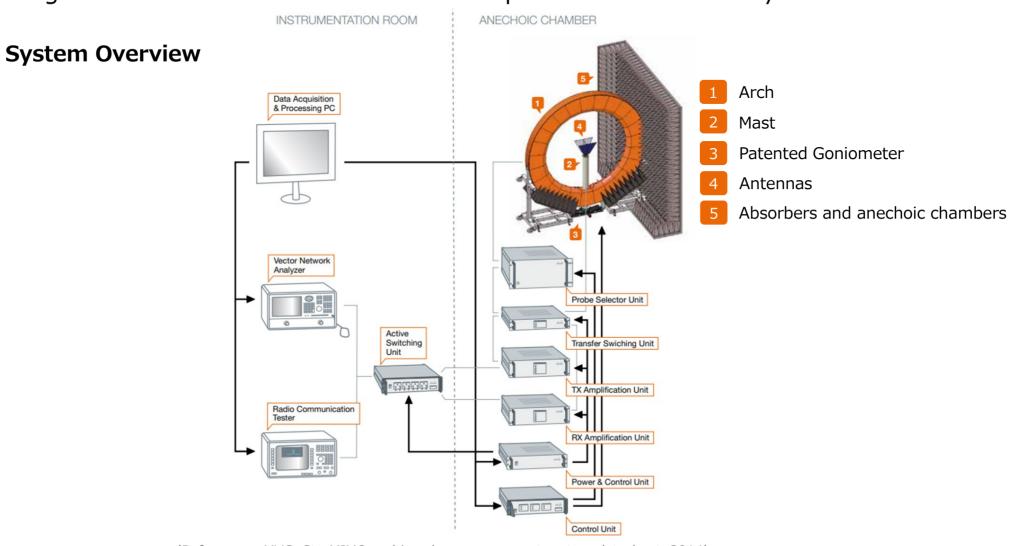
Approved Signatory:

Minato Harada

Minato Harada(Technical Manager)

1. Measurement Procedure

> The antenna gain is measured with StarMIMO multi-probe measurement system.



(References: MVG, StarMIMO multi-probe measurement system datasheet, 2014)

2. Test Equipment and Measurement Software

Test Equipment

Used	Control No.	Equipment Description	Model No.	Serial No.	Manufacturer	Cal. Interval	Last Cal.	Remark
Υ	-	Multi-Probe Measurement System	StarMIMO	1101232-1346	MVG	12 months	2023.09.24	
Υ	M1062	ENA Network Analyzer	E5071C	MY46101377	Keysight Technologies	12 months	2023.07.07	
Υ	A5062	Dual-Ridge Horn Antenna (0.4-6.0 GHz)	SH400-198	33104416	MVG	12 months	2023.05.13	Reference Antenna
The calibration is valid until the end of the expiration month.								

Measurement Software

Used	Control No.	Software Description	Model No.	Version	Manufacturer	Remark
Υ	-	Automated Antenna and OTA Measurement Software Suite	MVG WaveStudio	22.1.7	MVG	
Υ	-	Near-Field to Far-Field Transformation Software	MV-Sphere	2.3.27	MVG	

3. Antenna Under Test

Antenna 1

Antenna Model Name: ANTENNA L

Antenna Type: Monopole

Manufacturer: Goertek Inc.

Input Impedance: 50 ohm

Antenna 2

Antenna Model Name: ANTENNA R

Antenna Type: Monopole

Manufacturer: Goertek Inc.

Input Impedance: 50 ohm

4. Antenna Gains

Antenna 1

Date of Testing: April 9, 2024

Tested Personnel: Hideki Hayashiya

Temperature: 20.4 deg.C

Relative Humidity: 60.4 %

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Antenna	Frequency (MHz)	Peak Gain (dBi)	Remark
Antenna 1	2480	-4.82	* 2.4 GHz peak
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Antenna 2

Date of Testing: April 9, 2024

Tested Personnel: Hideki Hayashiya

Temperature: 20.4 deg.C

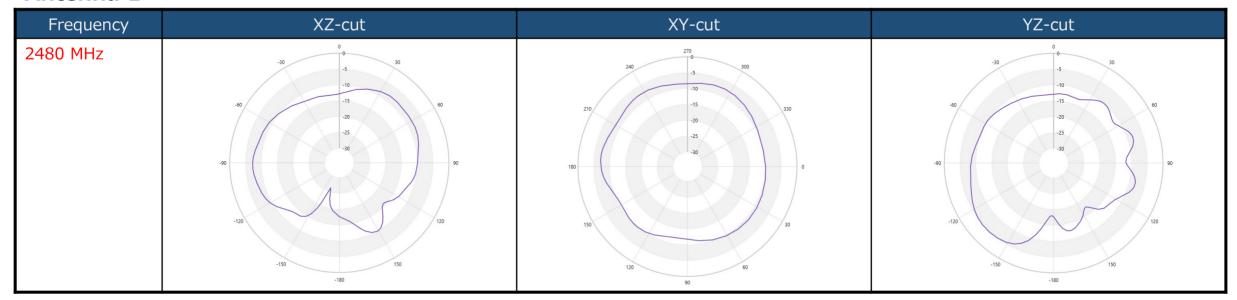
Relative Humidity: 60.4 %

Antenna	Frequency (MHz)	Peak Gain (dBi)	Remark
Antenna 2	2450	-4.40	* 2.4 GHz peak

Considering variation, Antenna gain specification is -4.4dBi.

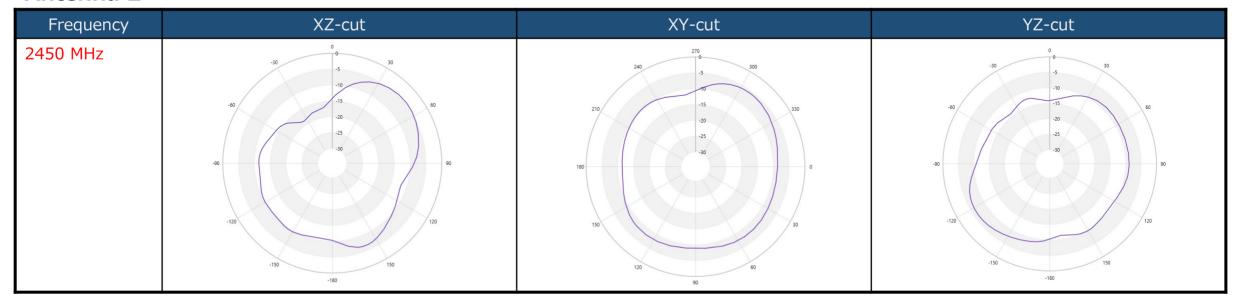
5. Antenna Directivity Plots

Antenna 1



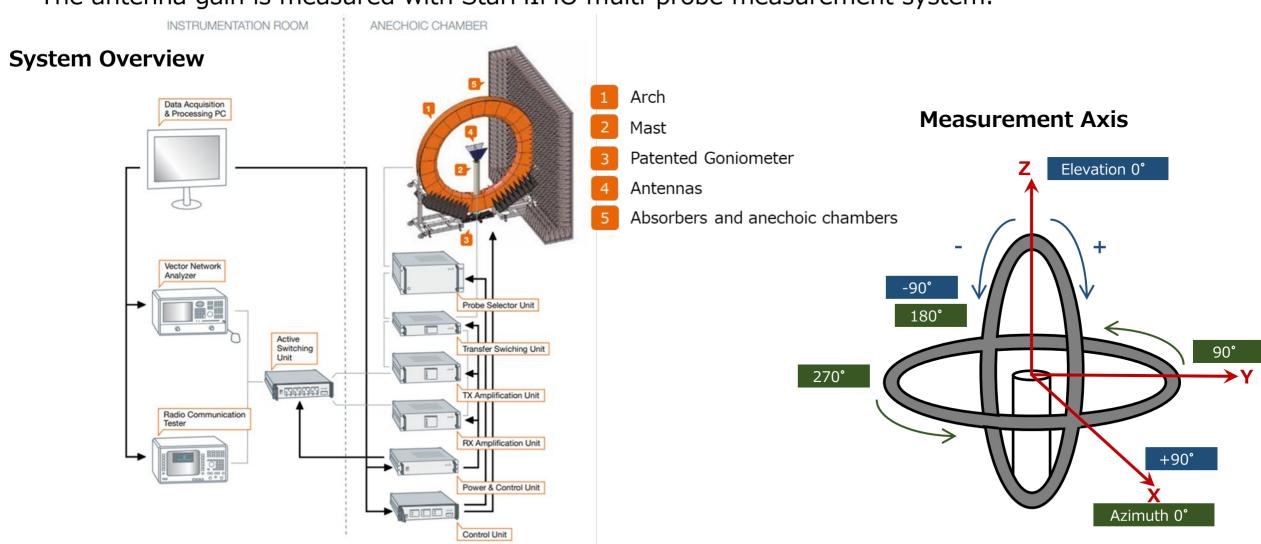
5. Antenna Directivity Plots

Antenna 2



Appendix. 1. Measurement Procedure

The antenna gain is measured with StarMIMO multi-probe measurement system.



(References: MVG, StarMIMO multi-probe measurement system datasheet, 2014)