

FCC Part 15 Antenna Gain Test Report

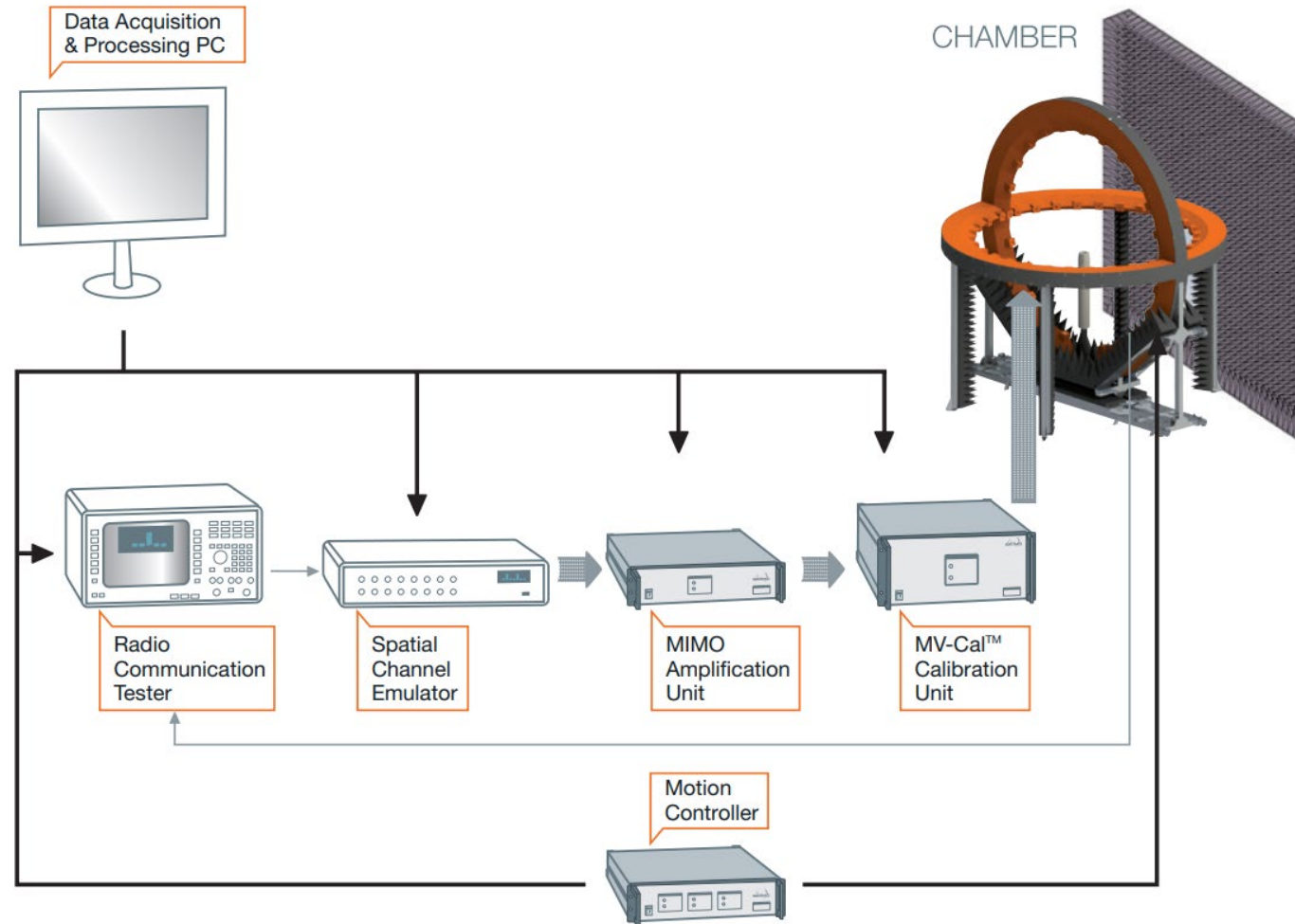
FCC ID:	AK8WW351513
Client:	Sony Corporation
Type of Equipment:	Radio Equipment
Model No.:	WW351513 (WW351513)
Similar Model(s) to be covered by this report:	N/A
Date of Testing:	April 6, 2023
Date of Issue:	May 26, 2023

Sony Global Manufacturing & Operations Corporation EMC/RF Test Laboratory, Main Lab.
8-4 Shiomi Kisarazu-shi Chiba-ken, 292-0834, Japan

1. Measurement Procedure

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

System Overview



(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
Y	-	Multi-Probe Measurement System	StarMIMO	1101232-1346	MVG	12 months	2022.09.22	
Y	M1062	ENA Network Analyzer	E5071C	MY46101377	Keysight Technologies	12 months	2022.07.14	
Y	-	Dual-Ridge Horn Antenna (0.4-6.0 GHz)	SH400-198	33104416	MVG	N/A	N/A	

• The calibration is valid until the end of the expiration month.

Measurement Software

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

3. Antenna Under Test

Antenna 1

Antenna Model Name: TB0013611
Antenna Type: Dipole Antenna
Manufacturer: Delton Technology International Limited

4. Antenna Gains

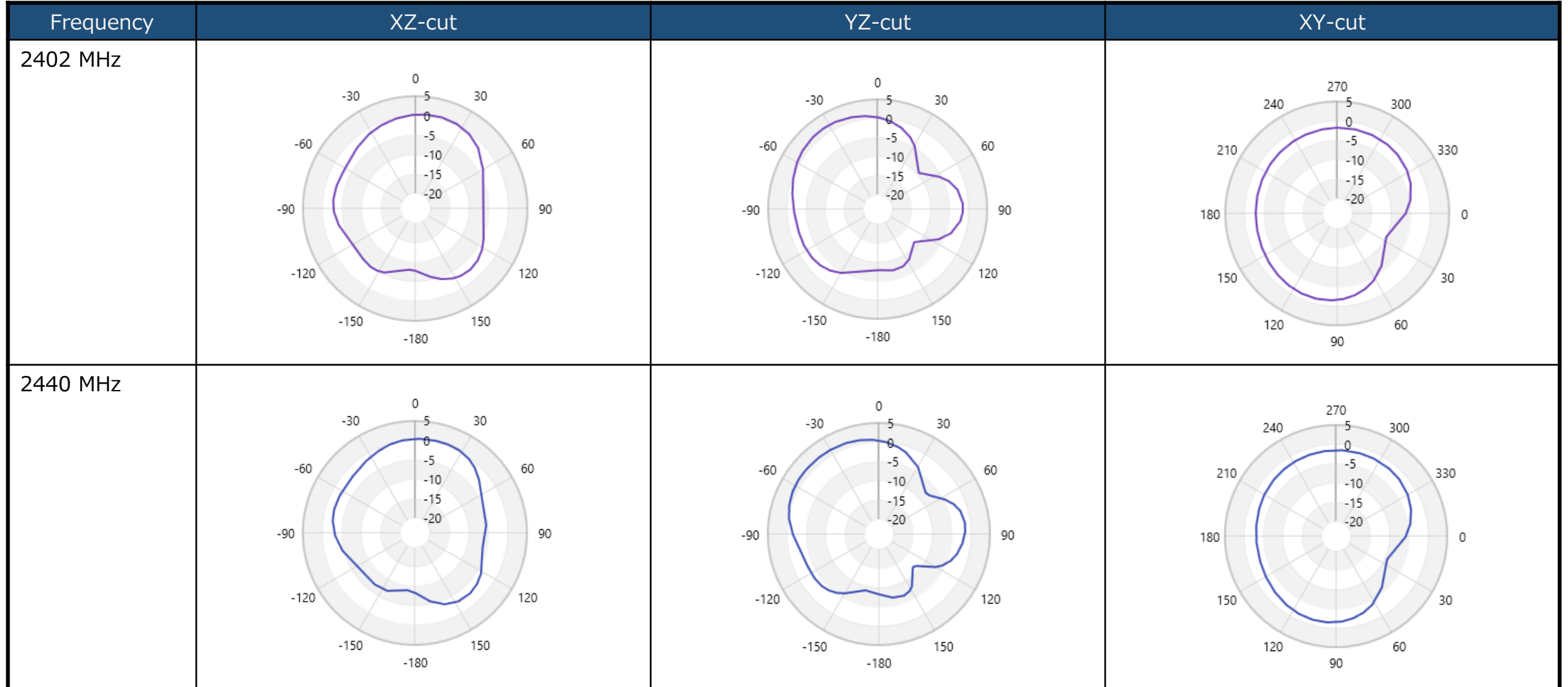
Antenna 1

Date of Testing: April 6, 2023
Tested Personnel: Toshitake Terada
Temperature: 22.4 deg.C
Relative Humidity: 57.4 %

Antenna	Frequency (MHz)	Peak Gain (dBi)	Remark
Antenna 1	2402	1.74	* 2.4 GHz peak
	2440	1.42	
	2480	1.41	

5. Antenna Directivity Plots

Antenna 1 (1/2)



5. Antenna Directivity Plots

Antenna 1 (2/2)

Frequency	XZ-cut	YZ-cut	XY-cut
2480 MHz	