

# FCC Part 15 Antenna Gain Test Report

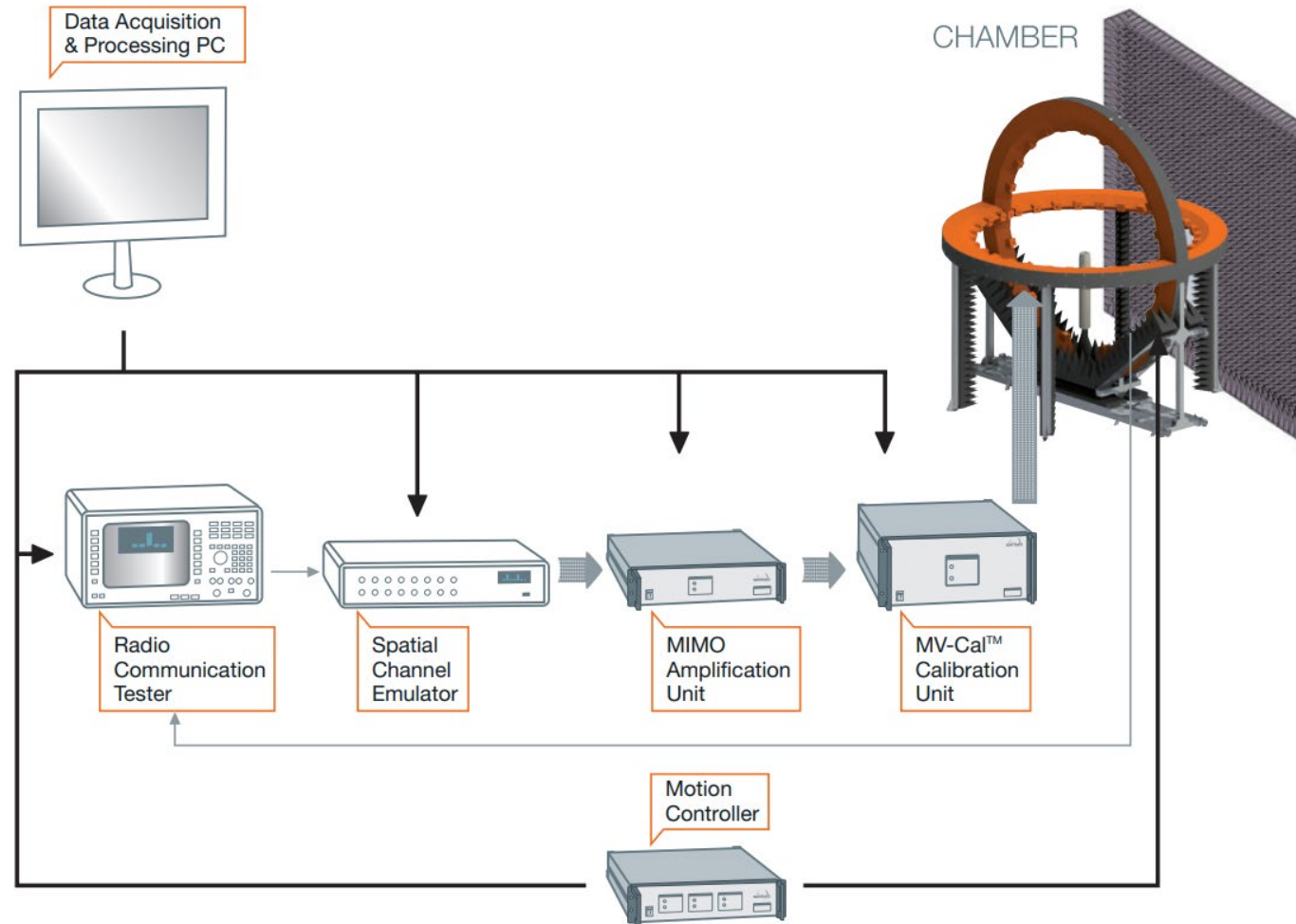
|   |   |
|---|---|
| FCC ID:   | AK8WW75731                                |
| Client:   | Sony Corporation                          |
| Type of Equipment:                                | Radio Equipment                           |
| Model No.:  | WW84772 (WW75731)                         |
| Similar Model(s)<br>to be covered by this report: | WW07509 (WW61363),<br>WW351513 (WW656543) |
| 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: FPC Antenna (TB0013411)

Antenna Type: Monopole Antenna

Manufacturer: Adachi Holdings Limited

# 4. Antenna Gains

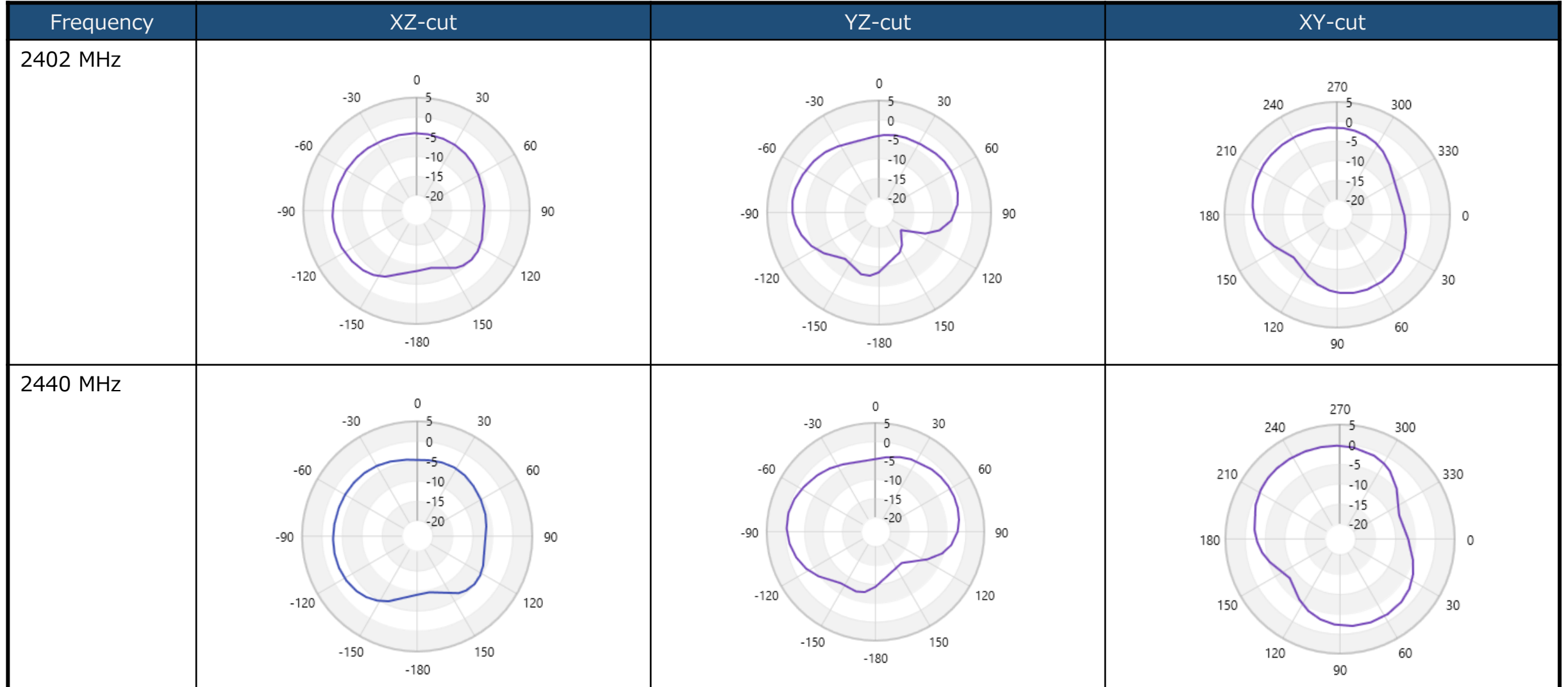
## Antenna 1

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            | -1.01           |                |
|           | 2440            | 0.06            | * 2.4 GHz peak |
|           | 2480            | -0.67           |                |

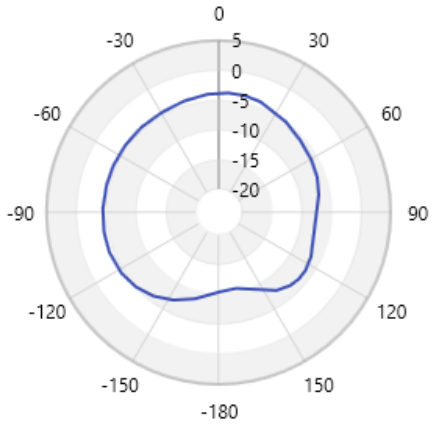
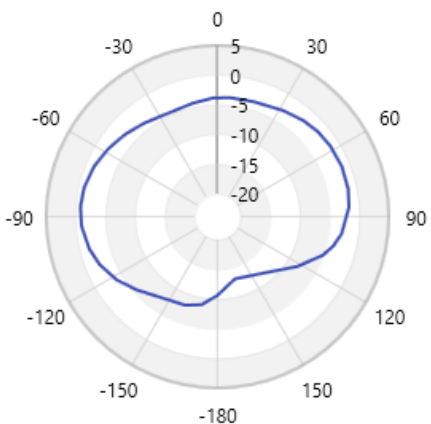
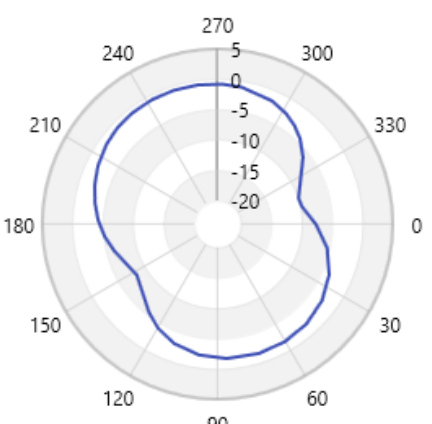
# 5. Antenna Directivity Plots

## Antenna 1 (1/2)



# 5. Antenna Directivity Plots

## Antenna 1 (2/2)

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