

FCC Part 15 Antenna Gain Test Report

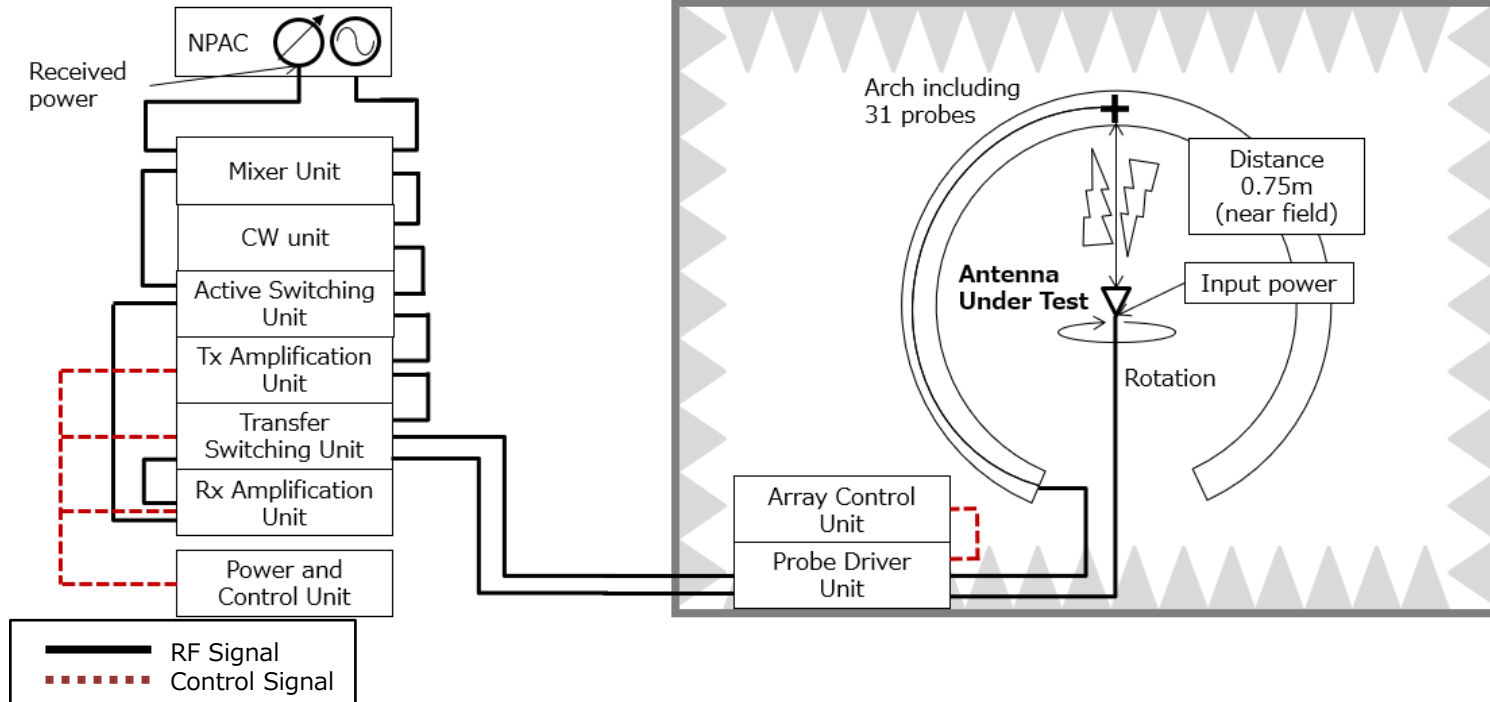
FCC ID:	VPYLB1VY002
Client:	Murata Manufacturing Co., Ltd.
Type of Equipment:	Communication Module
Model No.:	Type1VY-002 (* installed in Host Device 1VY-002A)
Date of Testing:	February 17, 2026
Date of Issue:	February 27, 2026

Sony Corporation

5-1-1 Minatomirai Nishi-ku Yokohama-shi Kanagawa, 220-8750, Japan

1. Measurement Procedure

- The antenna gain is measured in a fully anechoic chamber



2. Test Equipment and Measurement Software

Used	Equipment Description	Model No.	Serial No.	Manufacturer	Cal. Interval	Last Cal.	Remark
Y	Absorber Chamber	B83117-A1421-T161	21061	Albatross Projects	N/A	N/A	
Y	Multi-Probe Measurement System	SG32	1102611-0001	MVG	12 months	2025.09.18	
Y	Active Switching Unit	ASU	1101217-2569	MVG	12 months	2025.09.18	
N	Dual-Ridge Horn Antenna (0.6-6.0 GHz)	SH600	30	MVG	N/A	N/A	Reference Antenna
N	Sleeve-Dipole Antenna (0.69-0.8 GHz)	SD740	32	MVG	N/A	N/A	Reference Antenna
N	Sleeve-Dipole Antenna (0.865-0.93 GHz)	SD900	153	MVG	N/A	N/A	Reference Antenna

Measurement Software

Used	Software Description	Model No.	Version	Manufacturer	Remark
Y	Automated Antenna and OTA Measurement Software Suite	MVG WaveStudio	25.2.0	MVG	
Y	Near-Field to Far-Field Transformation Software	MV-Sphere	4.1.5	MVG	

3. Antenna Under Test

Antenna 1

Antenna Model Name: MODE DIAL LDS ANTENNA

Antenna Type: Monopole

Input Impedance: 50 ohm

4. Antenna Gains

Antenna 1

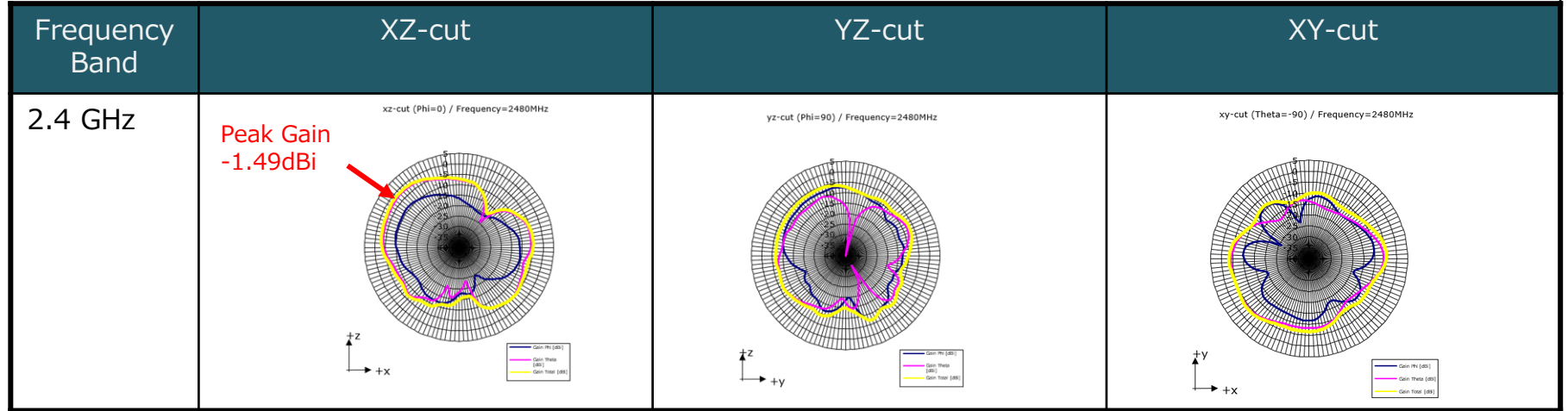
Date of Testing: February 17, 2026

Tested Personnel: Hayato Tsuji

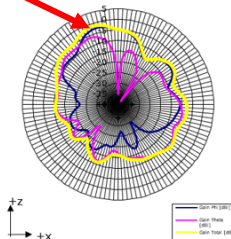
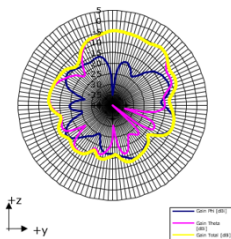
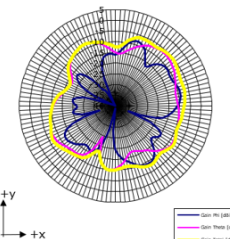
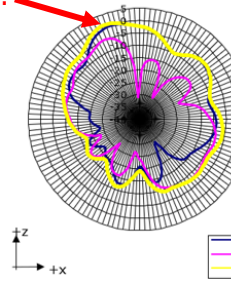
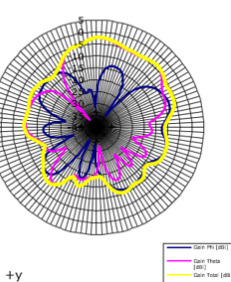
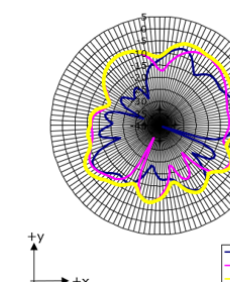
Antenna	Frequency (MHz)	Peak Gain (dBi)	Remark
Antenna 1	2480	-1.49	* 2.4 GHz peak
	5200	-1.25	
	5300	+0.77	* 5 GHz peak
	5500	-1.53	
	5800	-2.69	

5. Antenna Directivity Plots

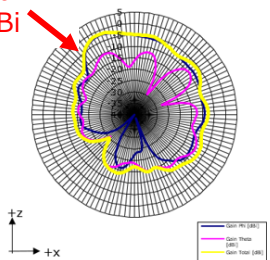
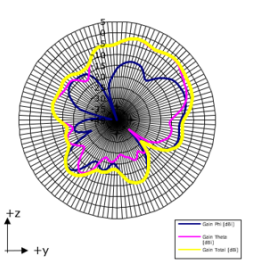
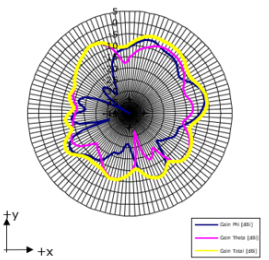
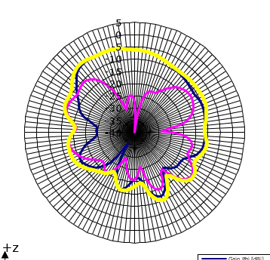
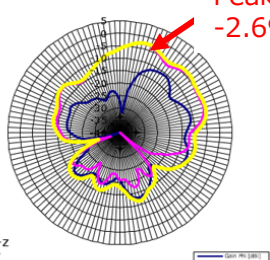
Antenna 1 (1/3)



Antenna 1 (2/3)

Frequency Band	XZ-cut	YZ-cut	XY-cut
W52 (5.2 GHz)	xz-cut (Phi=0) / Frequency=5200MHz Peak Gair -1.25dBi 	yz-cut (Phi=90) / Frequency=5200MHz 	xy-cut (Theta=-90) / Frequency=5200MHz 
W53 (5.3 GHz)	xz-cut (Phi=0) / Frequency=5300MHz Peak Gain: +0.77dBi 	yz-cut (Phi=90) / Frequency=5300MHz 	xy-cut (Theta=-90) / Frequency=5300MHz 

Antenna 1 (3/3)

Frequency Band	XZ-cut	YZ-cut	XY-cut
W56 (5.5 GHz)	xz-cut (Phi=0) / Frequency=5500MHz Peak Gain: -1.53dBi 	yz-cut (Phi=90) / Frequency=5500MHz 	xy-cut (Theta=-90) / Frequency=5500MHz 
W58 (5.8 GHz)	xz-cut (Phi=0) / Frequency=5800MHz 	yz-cut (Phi=90) / Frequency=5800MHz Peak Gain: -2.69dBi 	xy-cut (Theta=-90) / Frequency=5800MHz 