

# Mito test report

DELL HS2405

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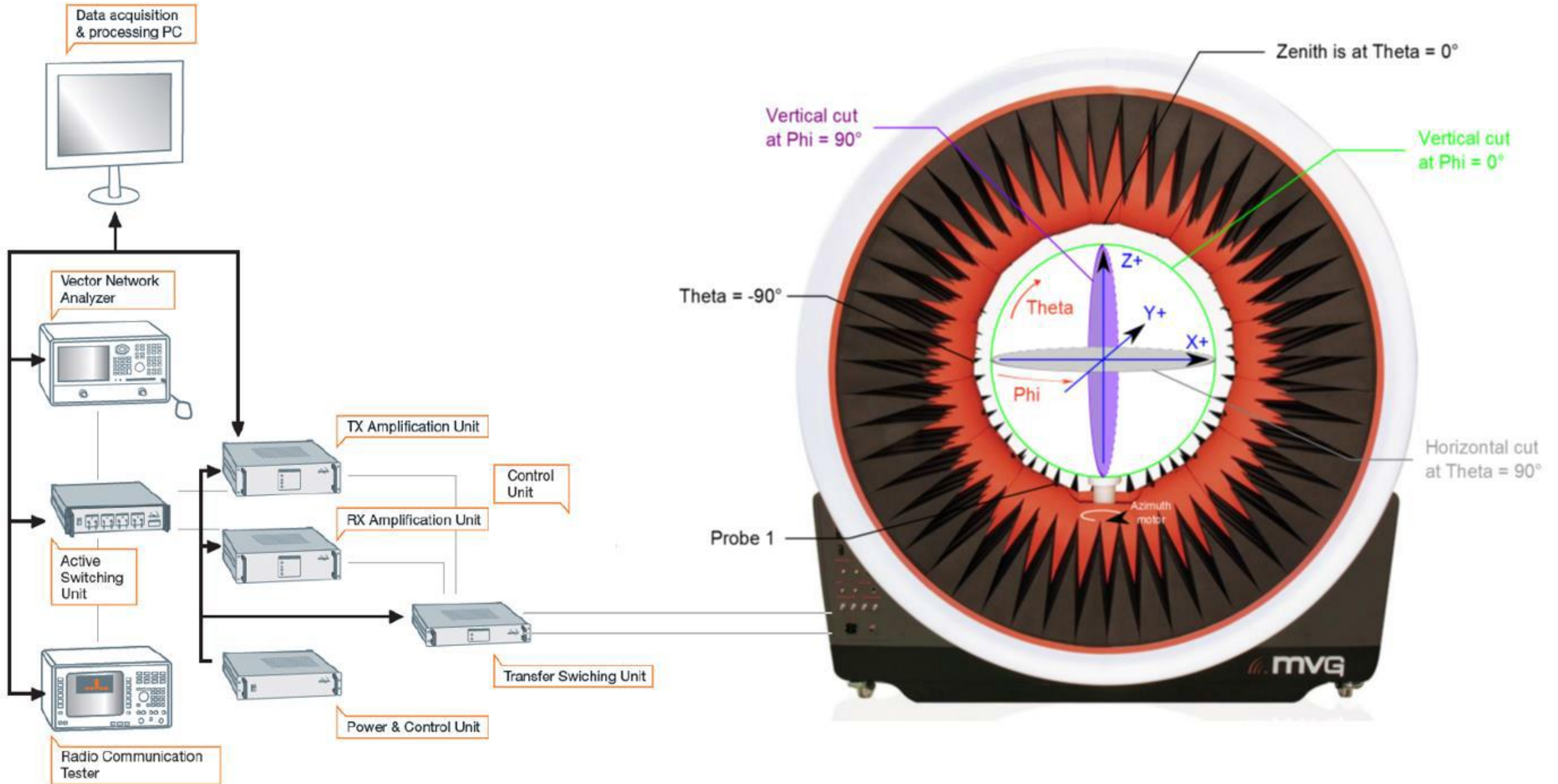


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# Antenna Test System Setup



# Antenna Test System Setup

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## Test Equipment

Equipment Description	Manufacturer	Identification no.	Current Calibration date
Universal Radio Communication tester	Anritsu	MT8820C	2022/12/29
Network Analyzer	Agilent	E5071C	2022/12/29
Sleeve Dipole	MVG	SD740	2022/12/29
Dual Ridge Horn	MVG	SH800	2022/12/29
Dipole antenna	MVG	3126-700	2022/12/29
Stargate-16-L probe array	MVG	Stargate-16-L	2022/12/29
Measurement software	MVG	Wave Studio 22.1	N/A
Wireless protocol tester	R&S	CMW500	2022/12/29

## Setup Description:

Step1: Fix the DUT on the pole in the center of the anechoic chamber.

Step2: The whole antenna unit is connected with the coaxial line at the transmitter end of the anechoic chamber.

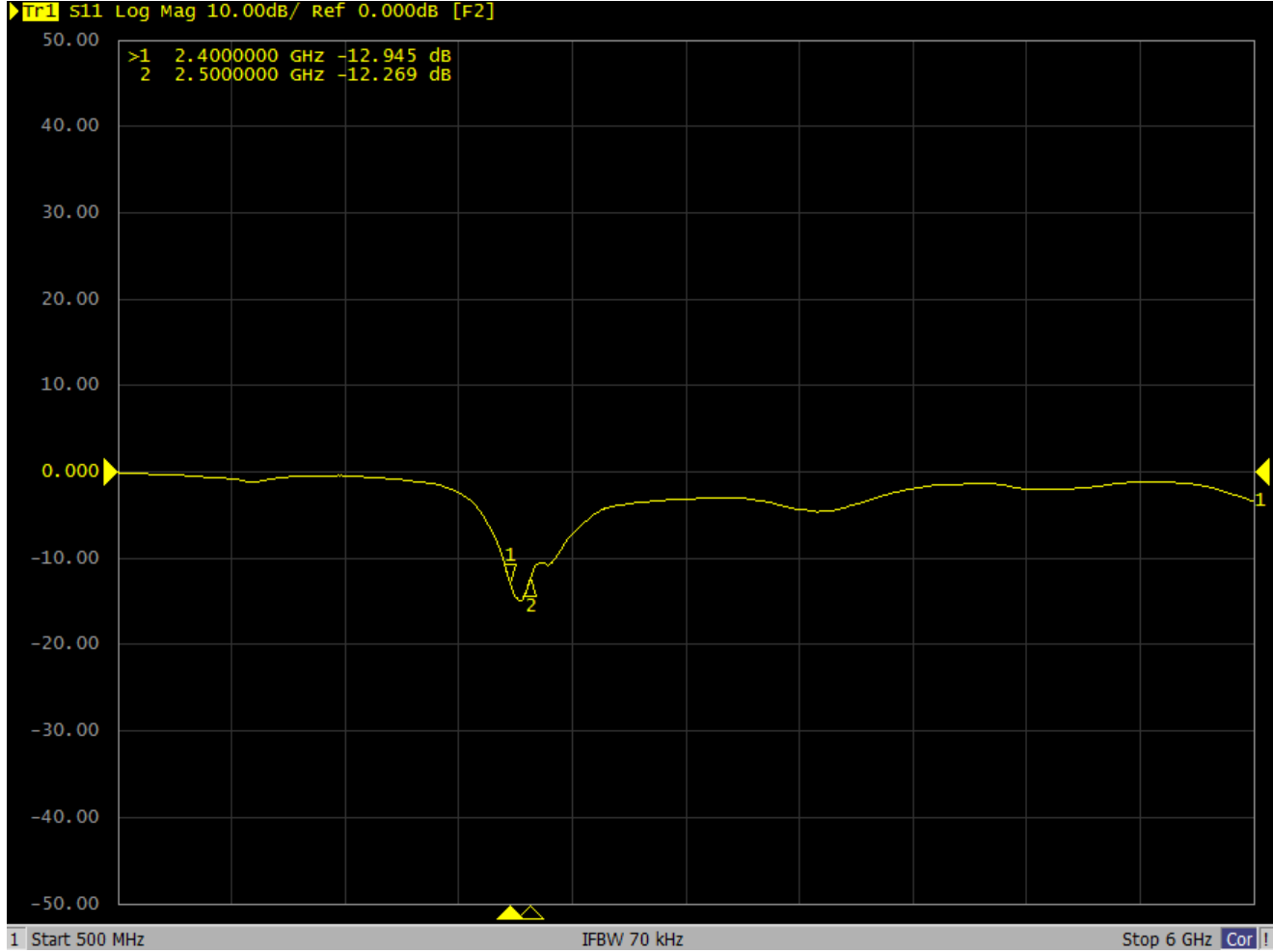
Step3: Close the anechoic chamber door to avoid the external signal interference.

Step4: Open the antenna measurement system and can select frequency or angle to test, and import the need frequency point to test.

Step5: After testing, the test system can carry on far-field data conversion.

**Free space**

# S-parameter

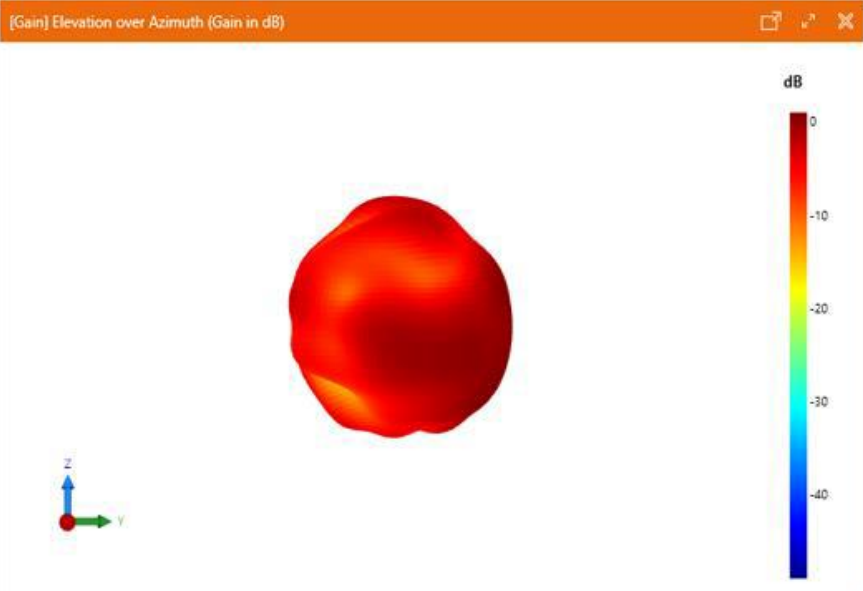


# Gain Table -Free space

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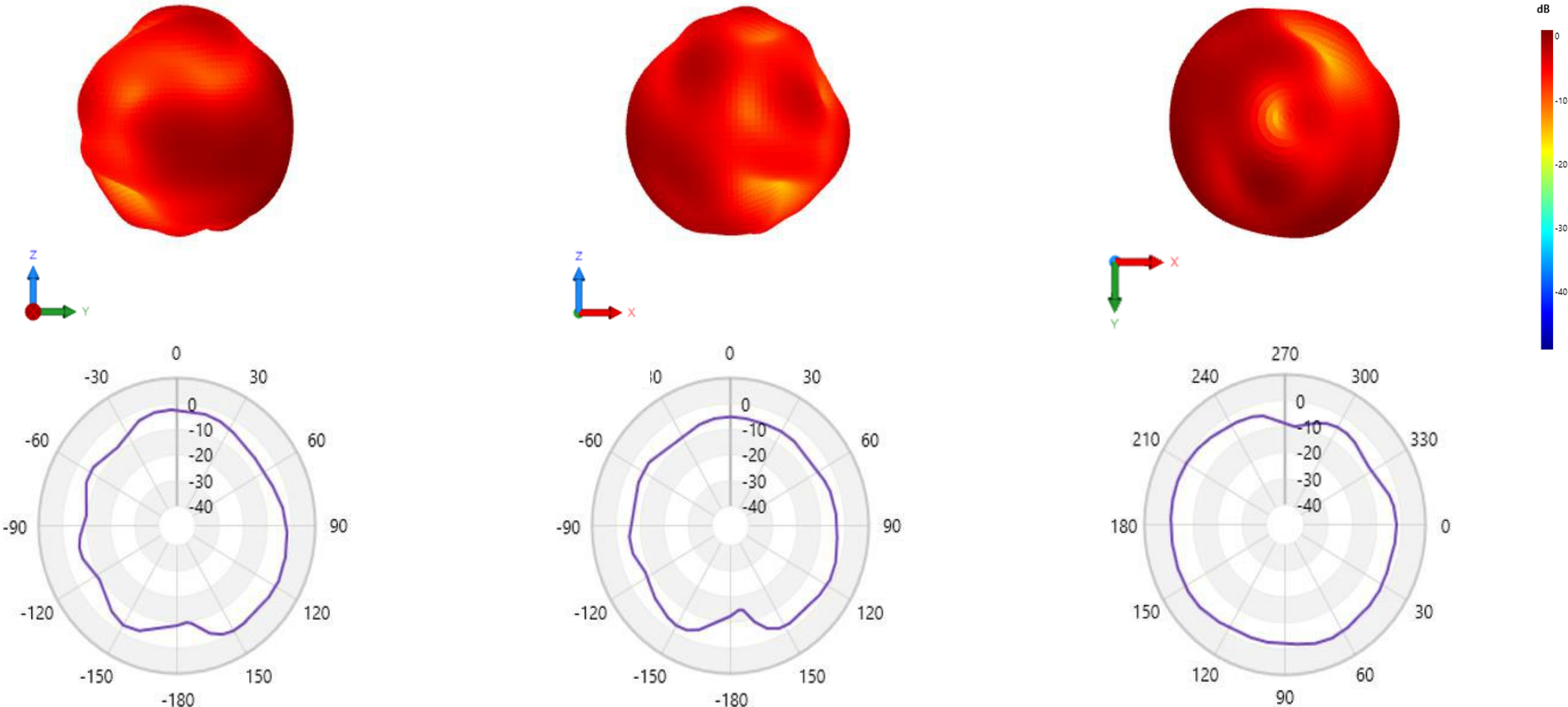
Frequency (MHz)	Average Gain (dB)	Efficiency (%)	Peak Gain (dBi)
2400	-2.91	51	1.05
2450	-2.79	53	1.73
2500	-2.98	50	2.01

# 2D/3D Gain Pattern

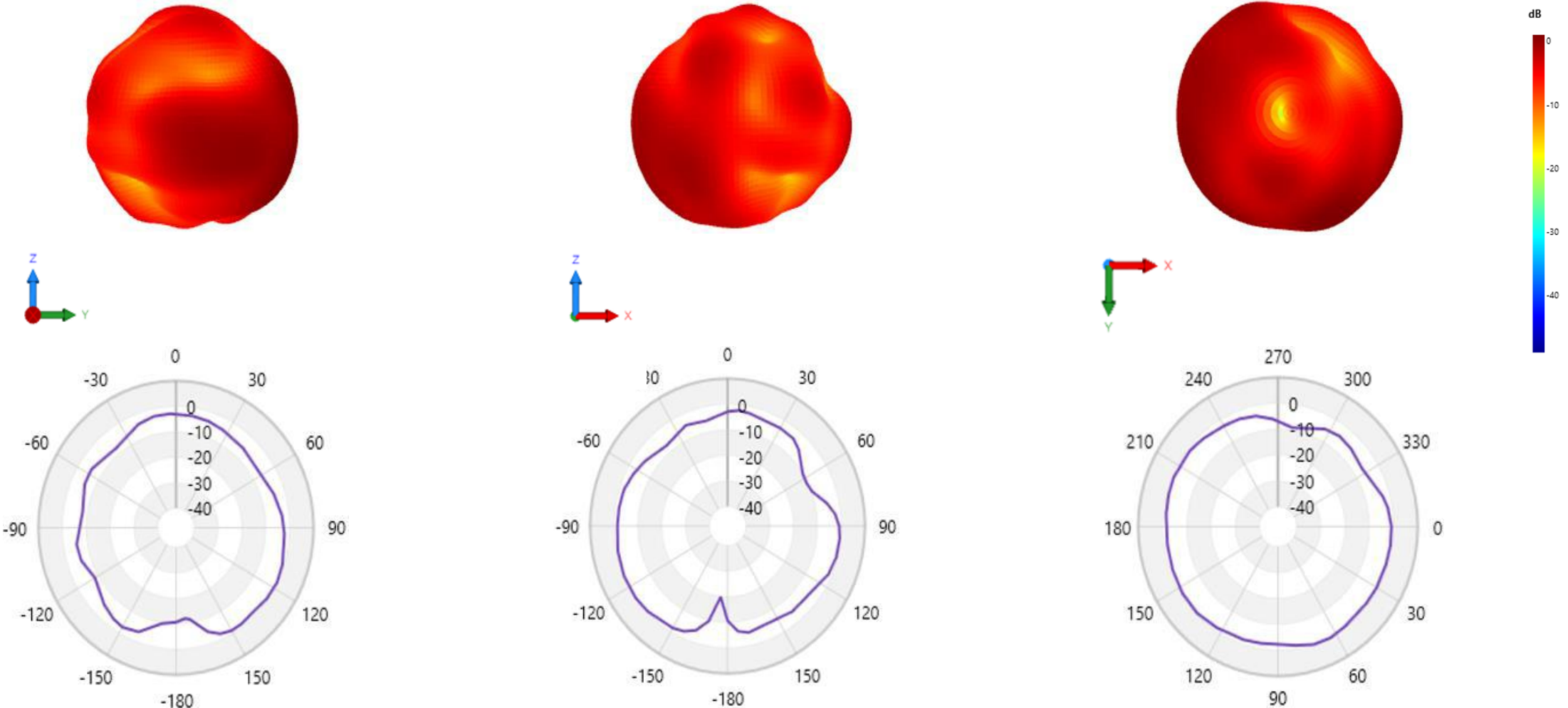




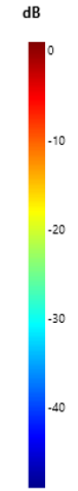
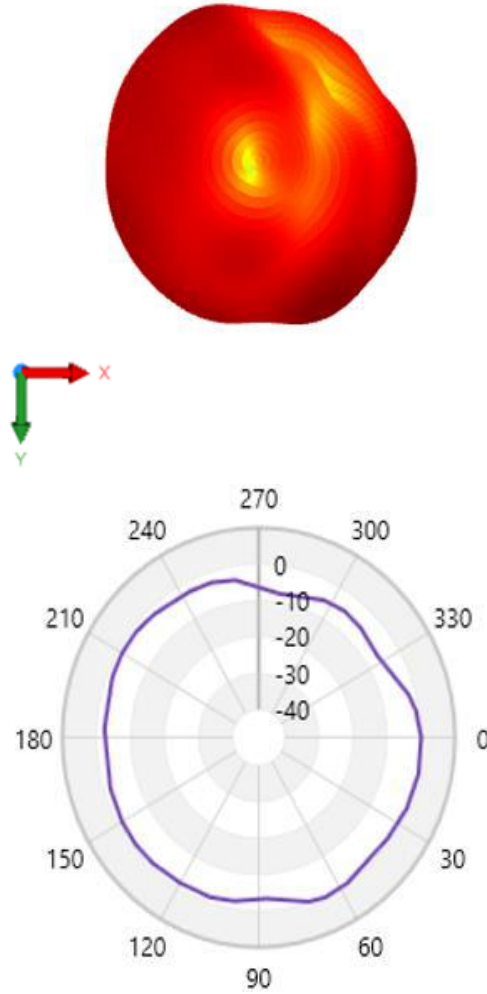
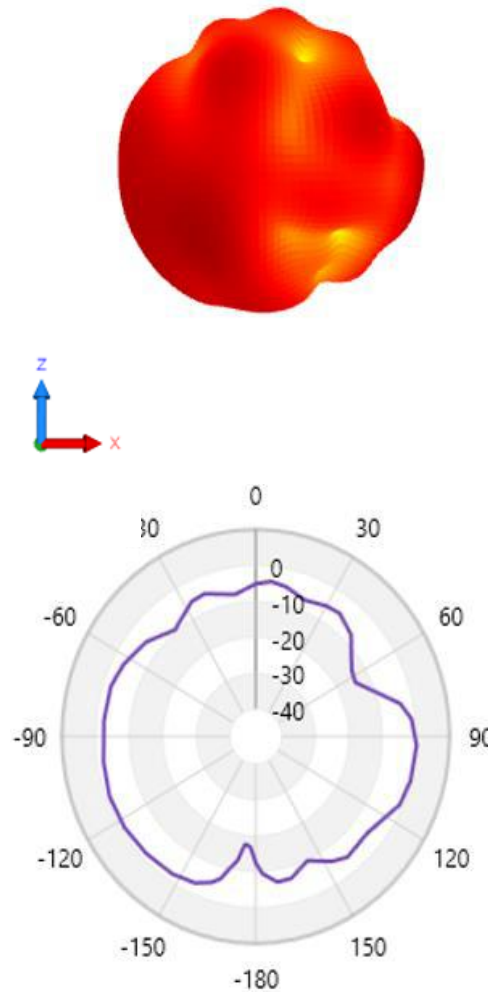
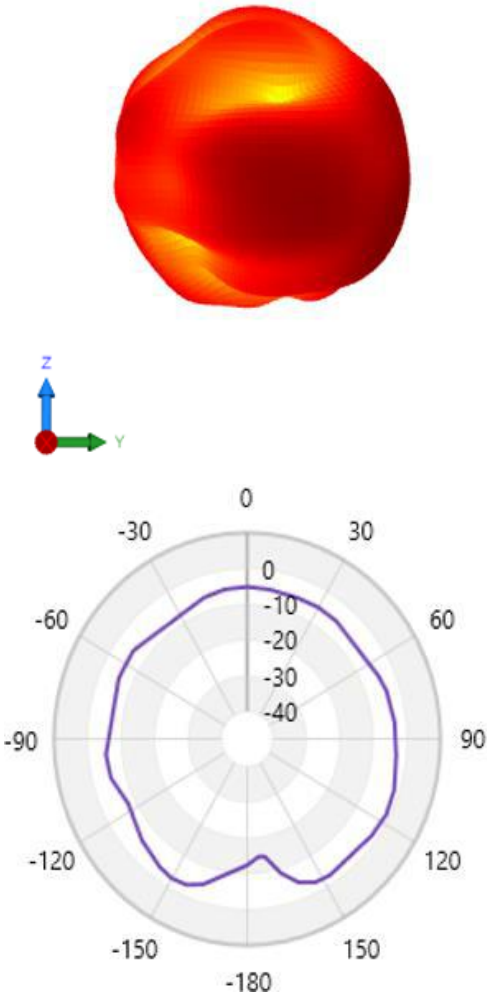
# 2D/3D Gain Pattern\_2400 MHz



# 2D/3D Gain Pattern\_2450 MHz



# 2D/3D Gain Pattern\_2500 MHz



# Appendix

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- **Antenna Vender** : ADVANCED WIRELESS & ANTENNA Inc.
- **Antenna Brand/model** : TYM/HS2405-ANT
- **Antenna Type** : PIFA
- **Test Date** : 2023/05/17
- **Test Personnel**: Rex Lai
- **Address of Test Site** : B2-F, No. 207-1, Sec. 3, Bei-Hsin Rd., Xindian Dist., New Taipei City, 231, Taiwan
- **Measurement Setup** :Refer to Antenna Tsup photo



**THANK YOU**