

Applicant	G.Tech Technology Ltd.	Date	2025/4/8	Temperature	25.3°C
Product	Mouse	Tested by	S.F.You	Humidity	43%
Model	MG645F-B	Frequency range	2404-2480MHZ	Antenna Type	ceramic antenna
Testing laboratory	BWant MS10 far field antennameasurement system 743 chamber				
Test Site Location	No.165 HanyangRoad, Hsinchu Industrial District, Hsinchu Hsien, Taiwan, 30350				
Manufacturer	Advanced Ceramic X Corp.				
Test specification:	3GPP TS 34.114; 3GPP TR 37.902; 3GPP TR 25.914; IEEE Std 149-1979 Test procedure for antennas				

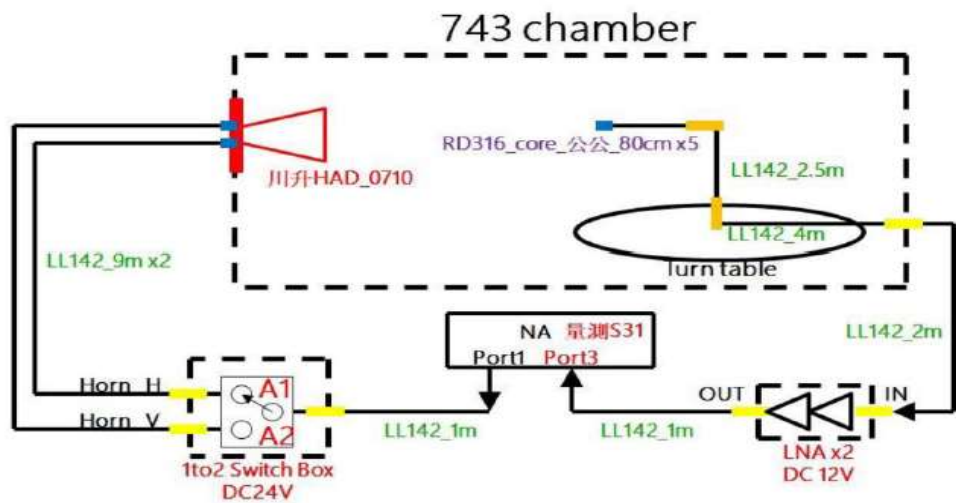
Testing Condition

Environment Parameter	Ambient Pressure	Temperature	Voltage	Relative Humidity
Normal Temperature, Normal Voltage (NTNV)	100 to 102 KPa	23.6°C	AC 220V	59.5%

List of Equipment

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Vector Network Analyzer	Keysight	E5071C	702017343	2024.07.23	1 year
Signal and Spectrum Analyzer	Keysight	N9010A	704325655	2024.09.02	1 year

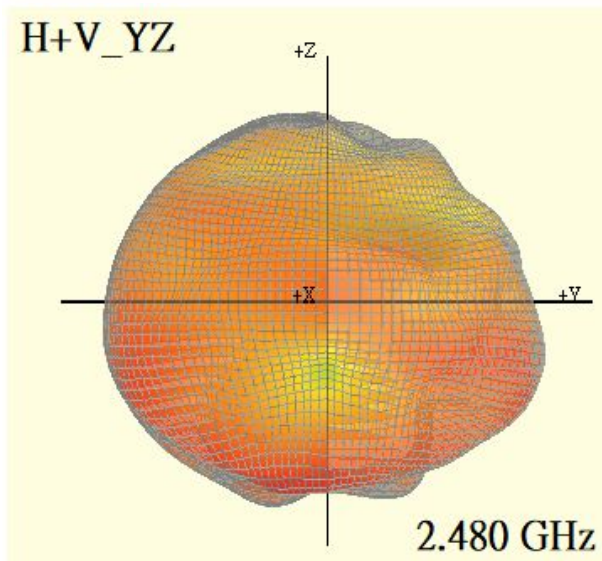
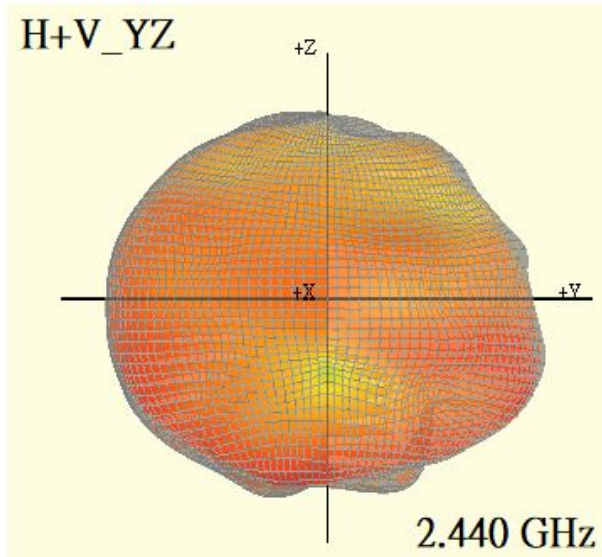
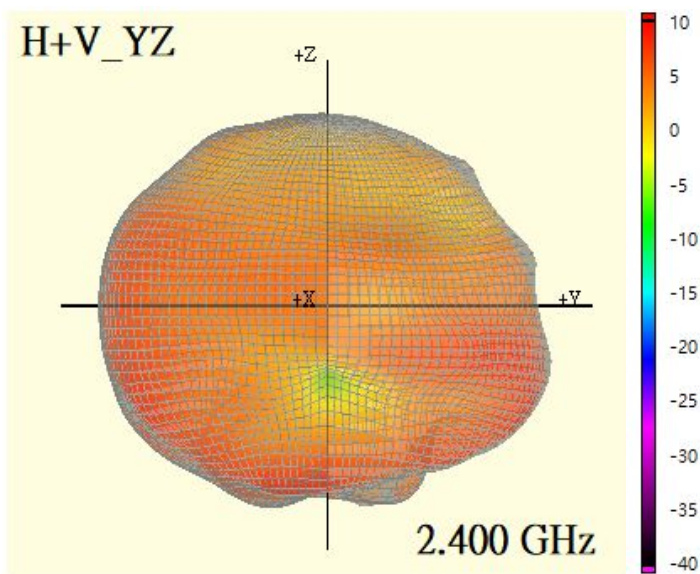
Test set up

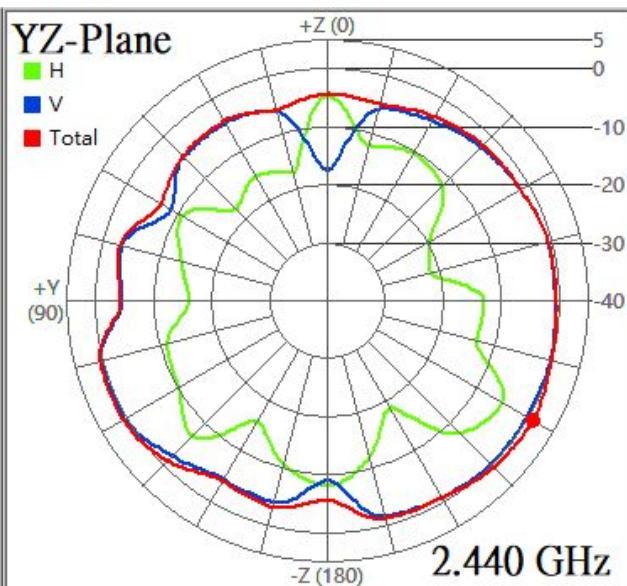
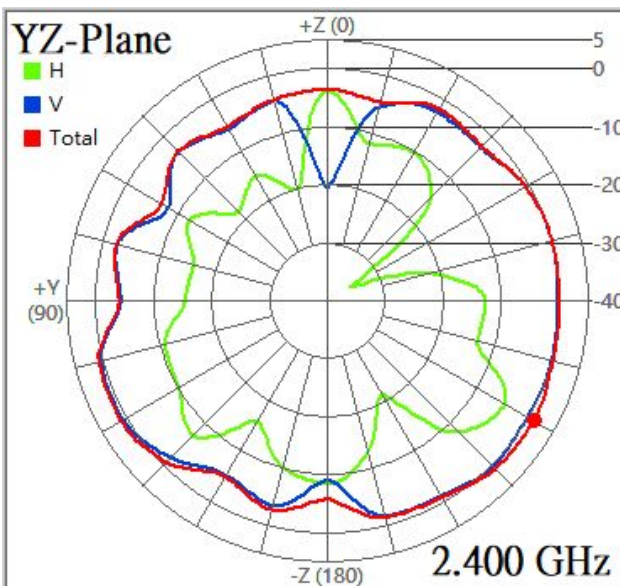
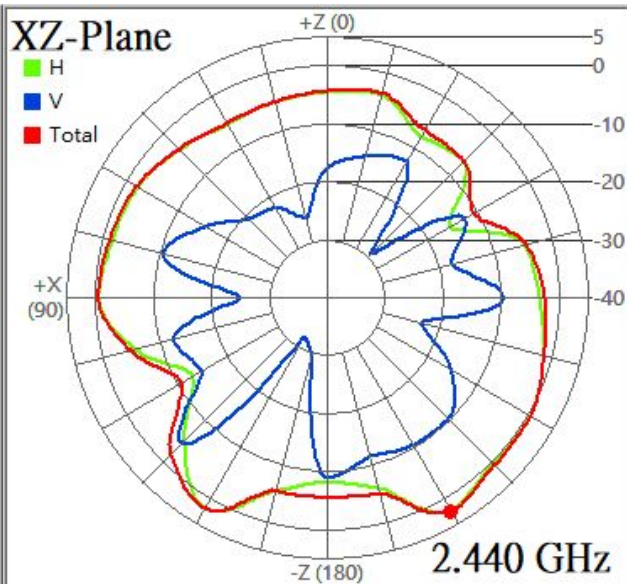
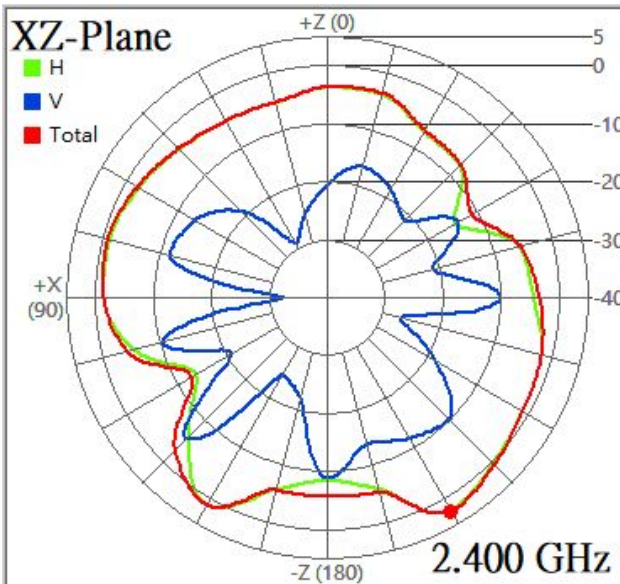
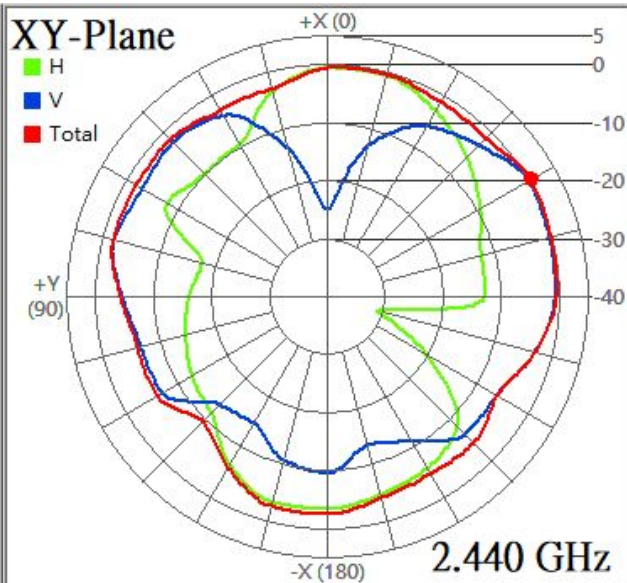
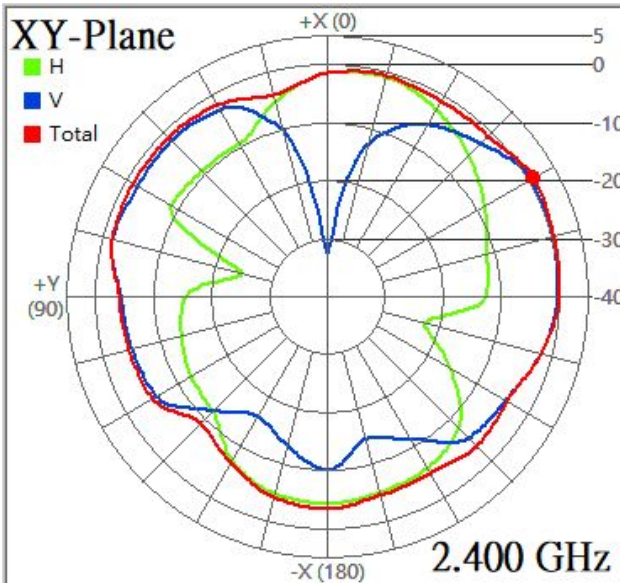


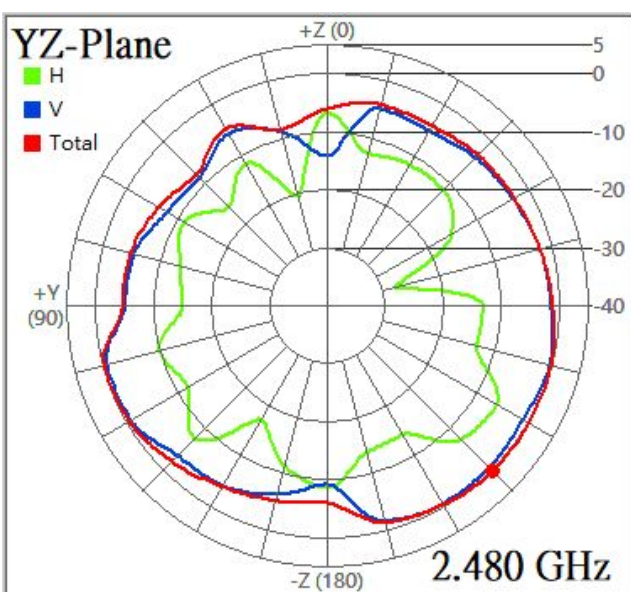
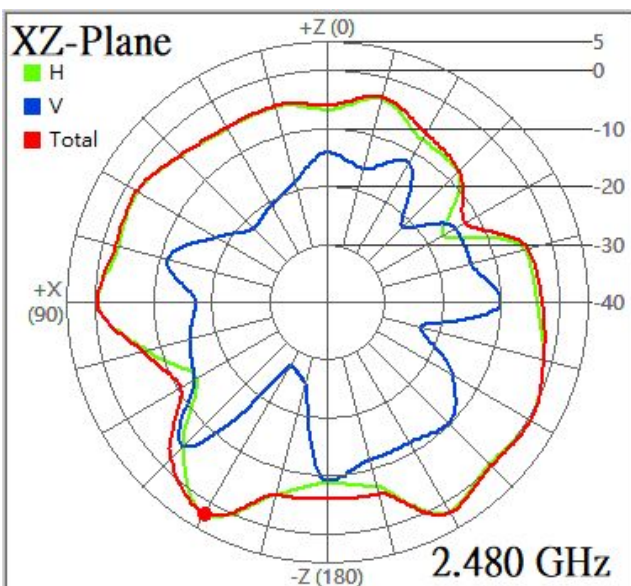
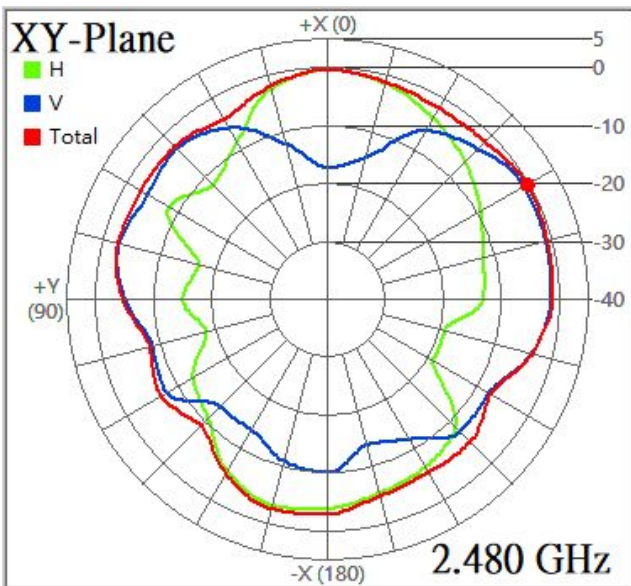
Gain Table

Unit in dBi	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
@2400MHz	1.04	-2.24	2.61	-2.71	1.25	-1.58	65.15%
@2440MHz	0.52	-2.40	2.59	-2.41	1.01	-1.93	64.70%
@2480MHz	-0.24	-2.86	2.29	-2.71	0.29	-2.70	56.80%

◆3D 輻射場型圖

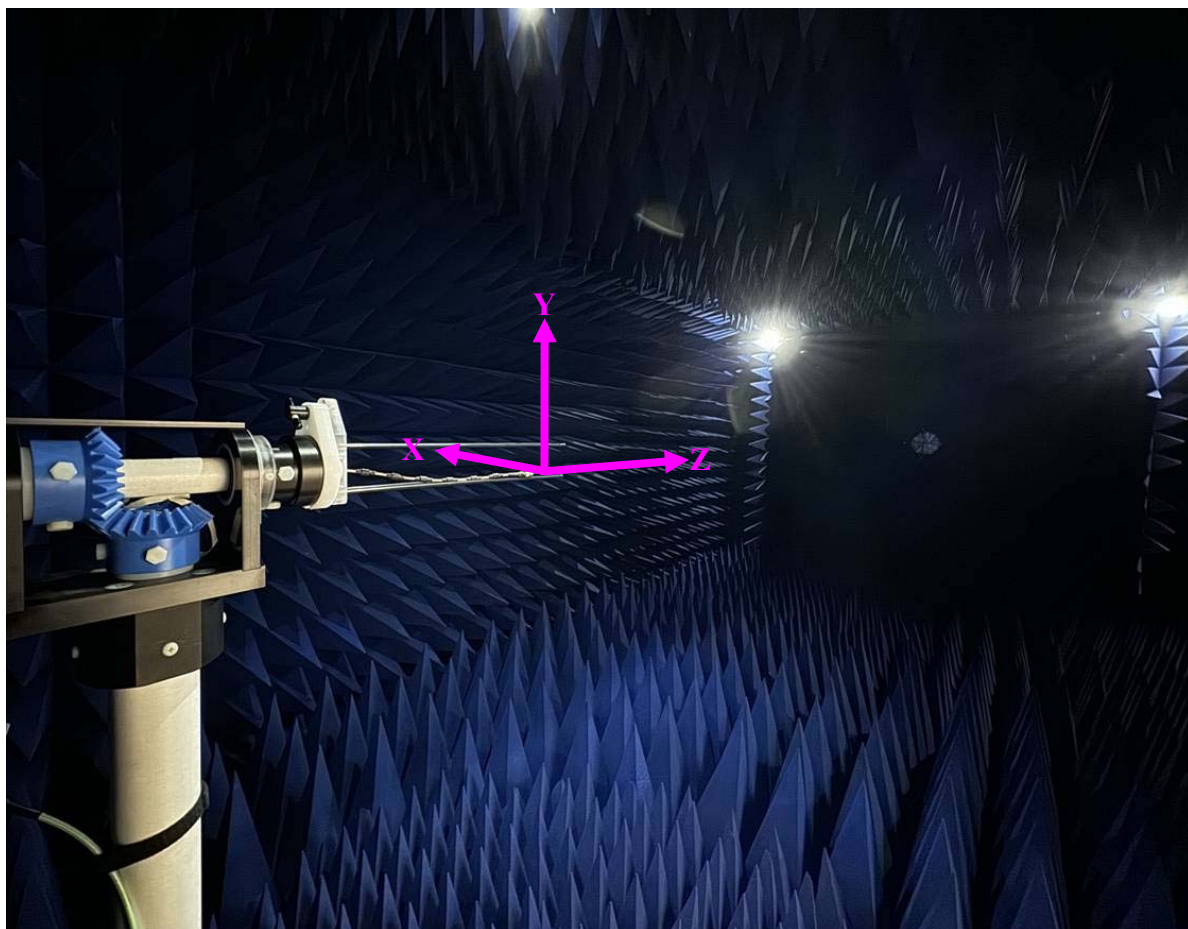






輻射場型圖

◆量測座標圖



◆各平面定義

XY-plane	Theta=90°
XZ-plane	Phi=0°
YZ-plane	Phi=90°