

ZBT-2 Zigbee External Antenna

FEATURES & BENEFITS



- Lightweight, low profile and rugged design
- Easy installation with built-in bolt interface, can be directly screwed onto devices without additional screws.

ORDER INFORMATION

Product Name	ZBT-2 Zigbee External Antenna
Part Number	M02-0600410R0A
Antenna Manufacturer	Aboosty
Dimensions	Ø34x 168 mm
Weight	70 g
Color	White
Mounting	Internal Thread Mounting

REFERENCE GUIDE

Technical Features (MHz)	2400-2500
Max VSWR	2.0:1
Max Efficiency	83.0%
Peak Gain	4.16dBi
Radiation Pattern	Omnidirectional
Polarization	Linear
Types of Antennas	External Antenna
Structure	Radiator + Protective Shell + Connector
Input Impedance	50 Ω
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Relative Humidity	10 to 70%
Material Substance Compliance	RoHS Compliant
Dimensions (L x W x H)	Ø34x 168 mm
All electrical performance data were tested under the following conditions: the base was mounted on a 76×67 mm PCB and interfaced via USB cable. Refer to the figure below for details	

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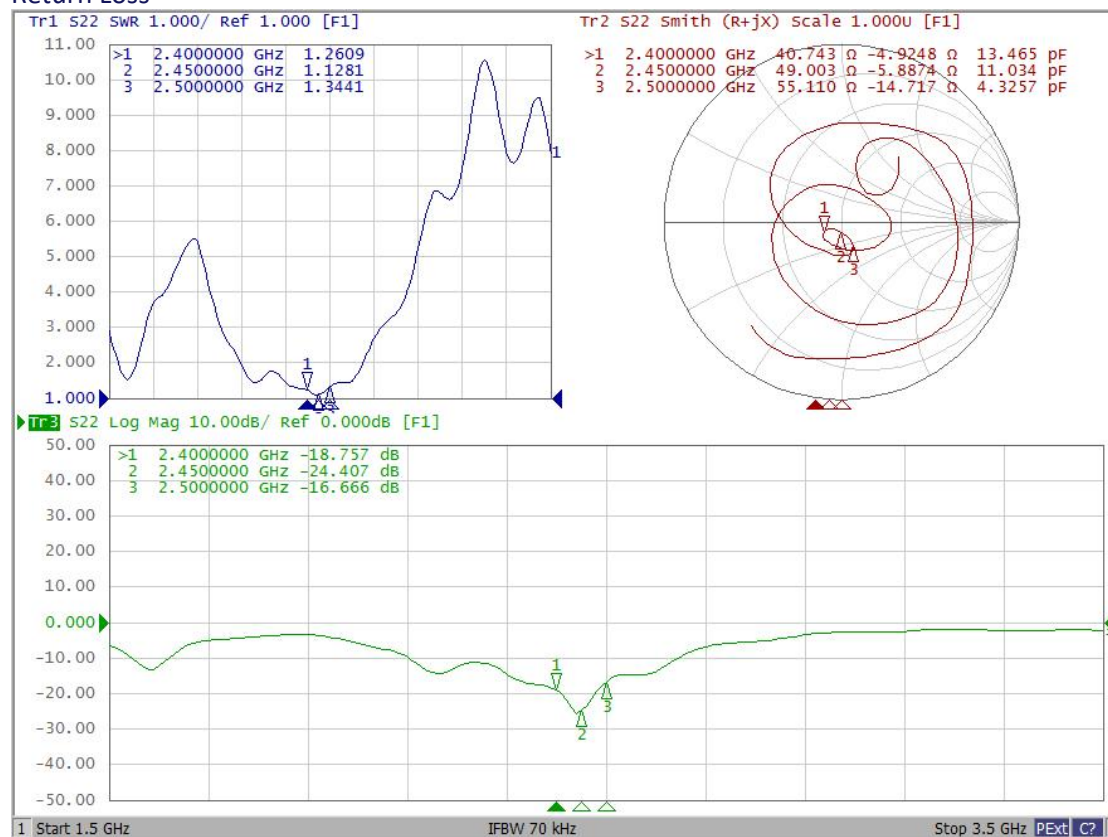
ELECTRICAL PERFORMANCE

- Note

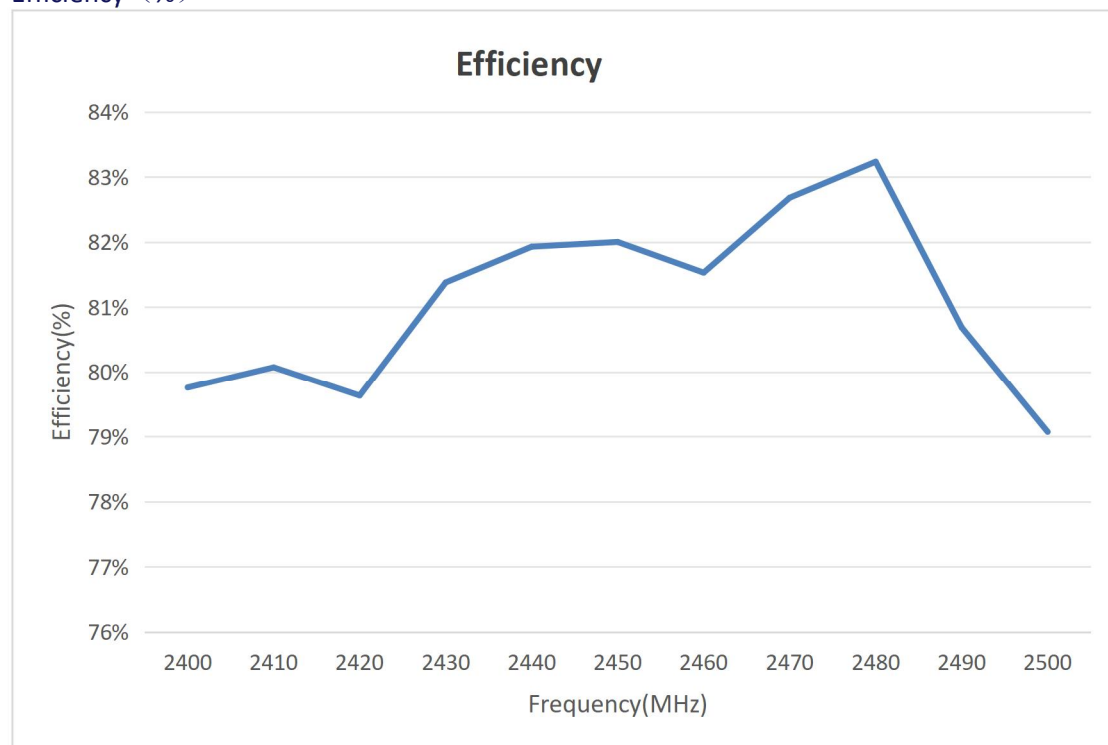
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ELECTRICAL DATA (Tested on a base mounted on a 76×67mm PCB and interfaced via USB cable)

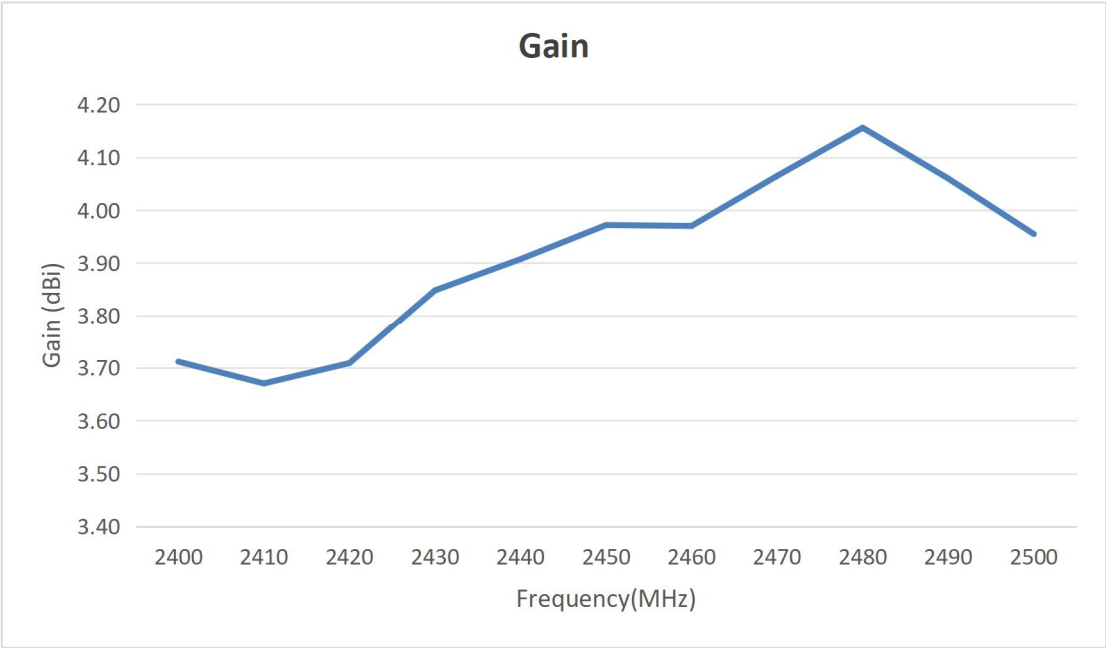
Return Loss



Efficiency (%)

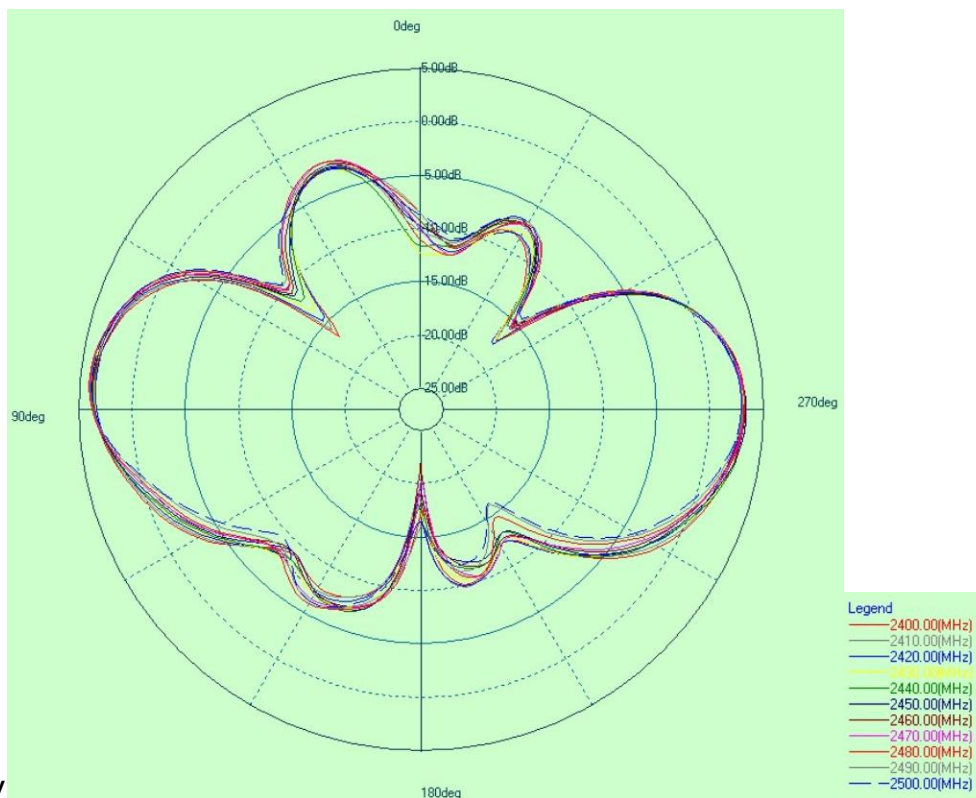
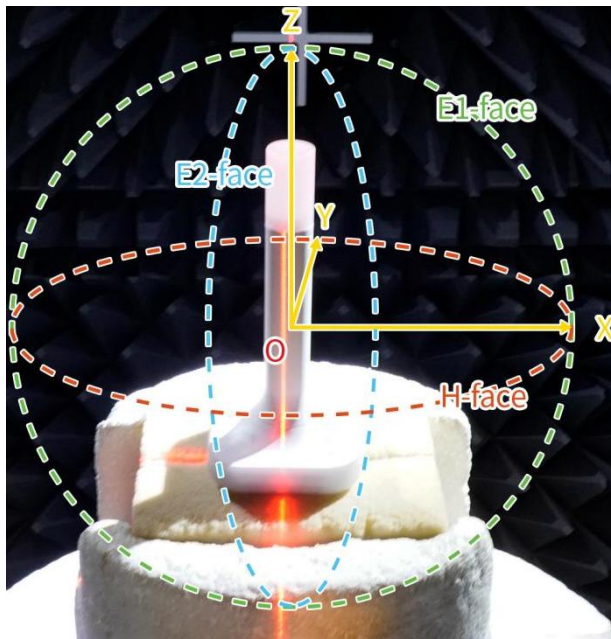


Peak Gain (dBi)



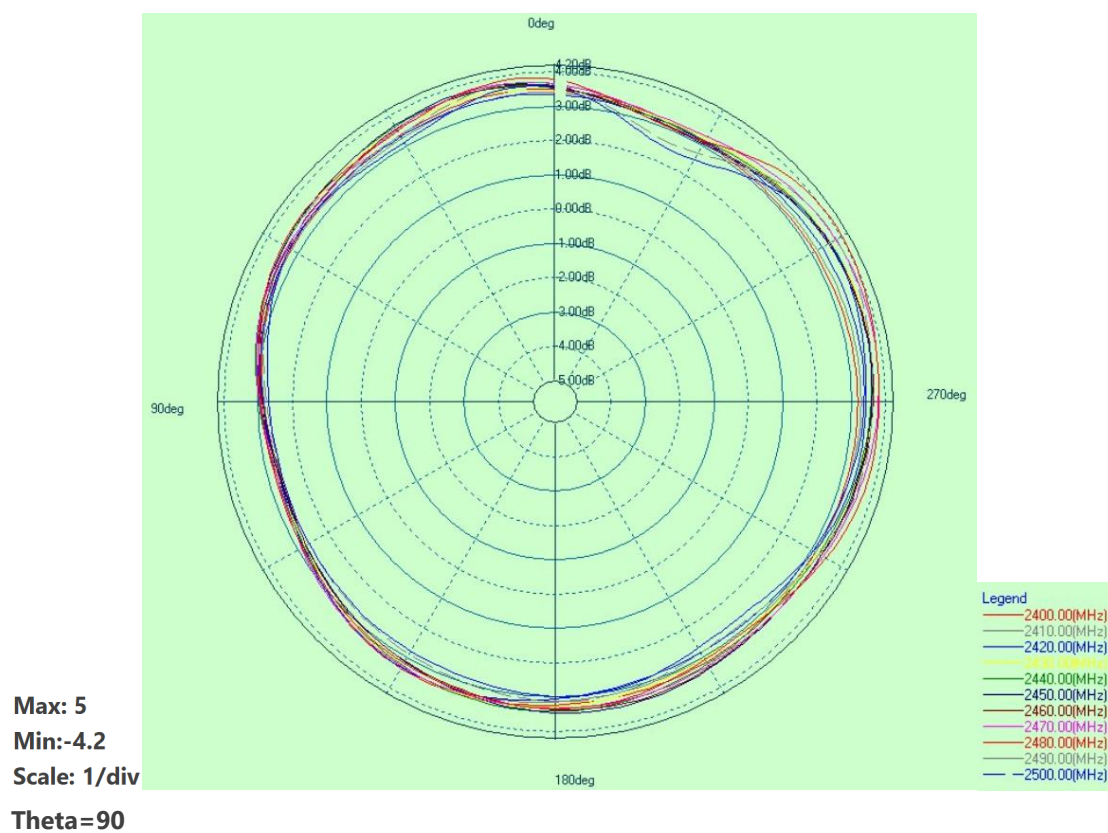
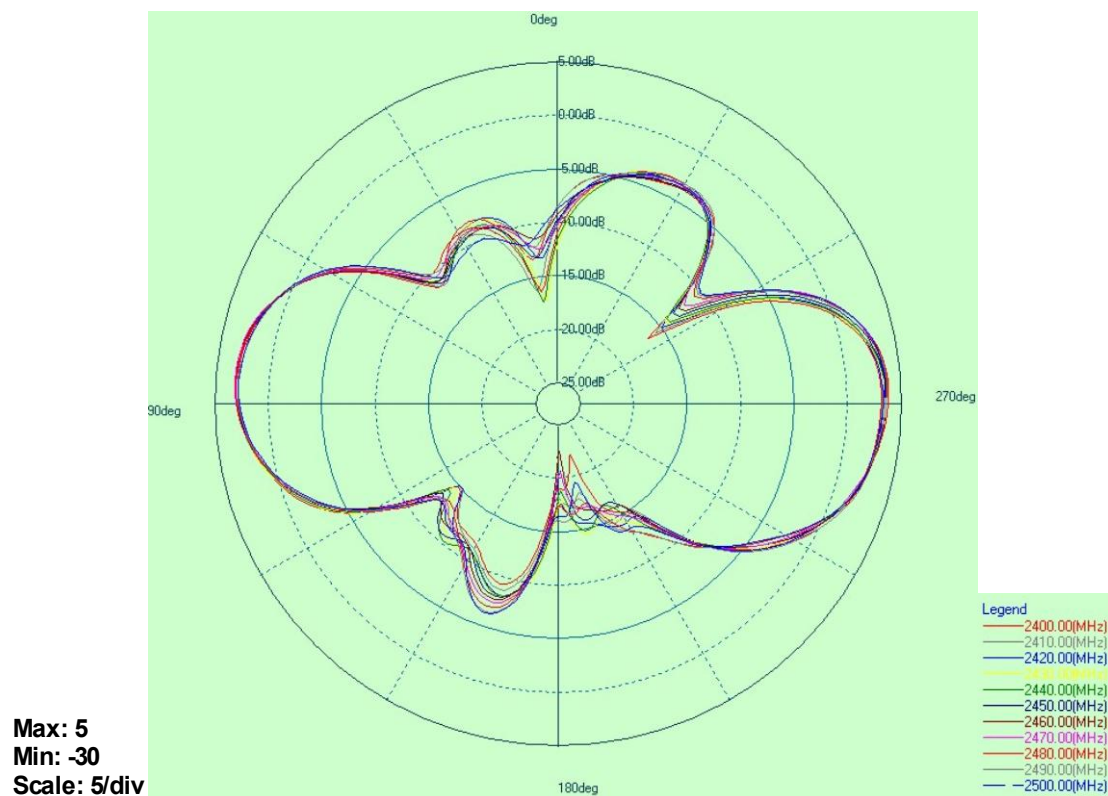
Frequency(MHz)	Gain (dBi)	Efficiency(%)
2400	3.71	80%
2410	3.67	80%
2420	3.71	80%
2430	3.85	81%
2440	3.91	82%
2450	3.97	82%
2460	3.97	82%
2470	4.06	83%
2480	4.16	83%
2490	4.06	81%
2500	3.95	79%

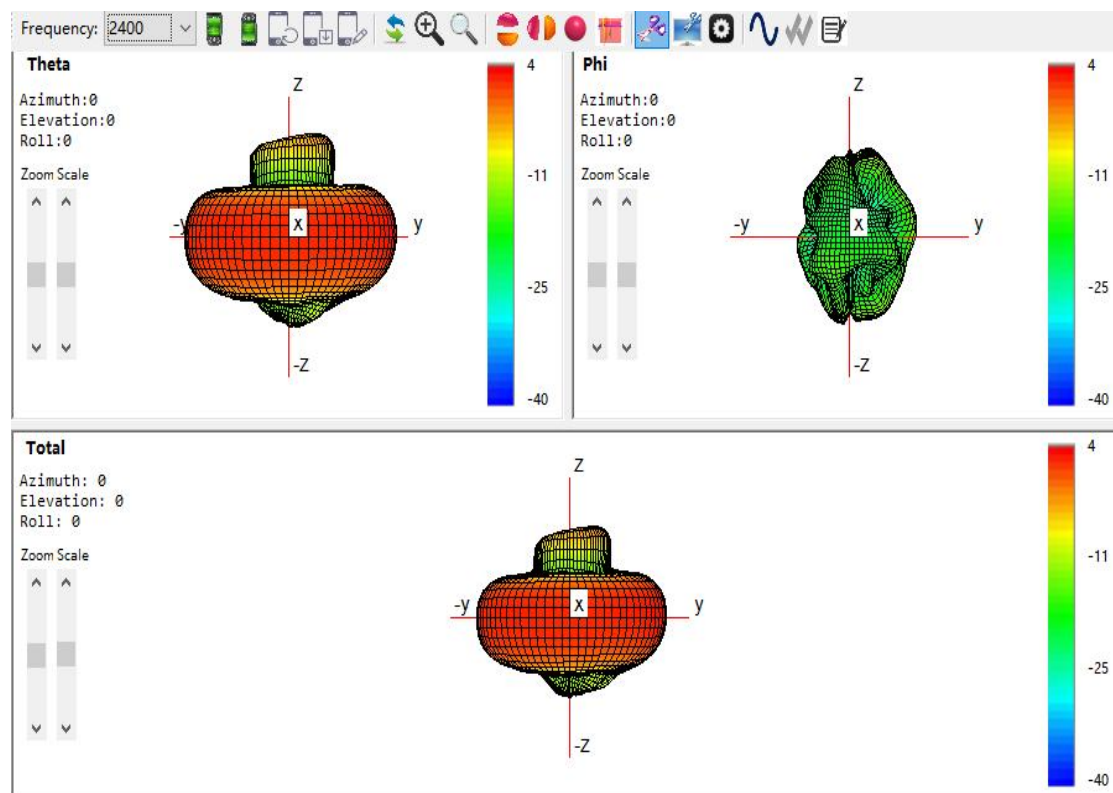
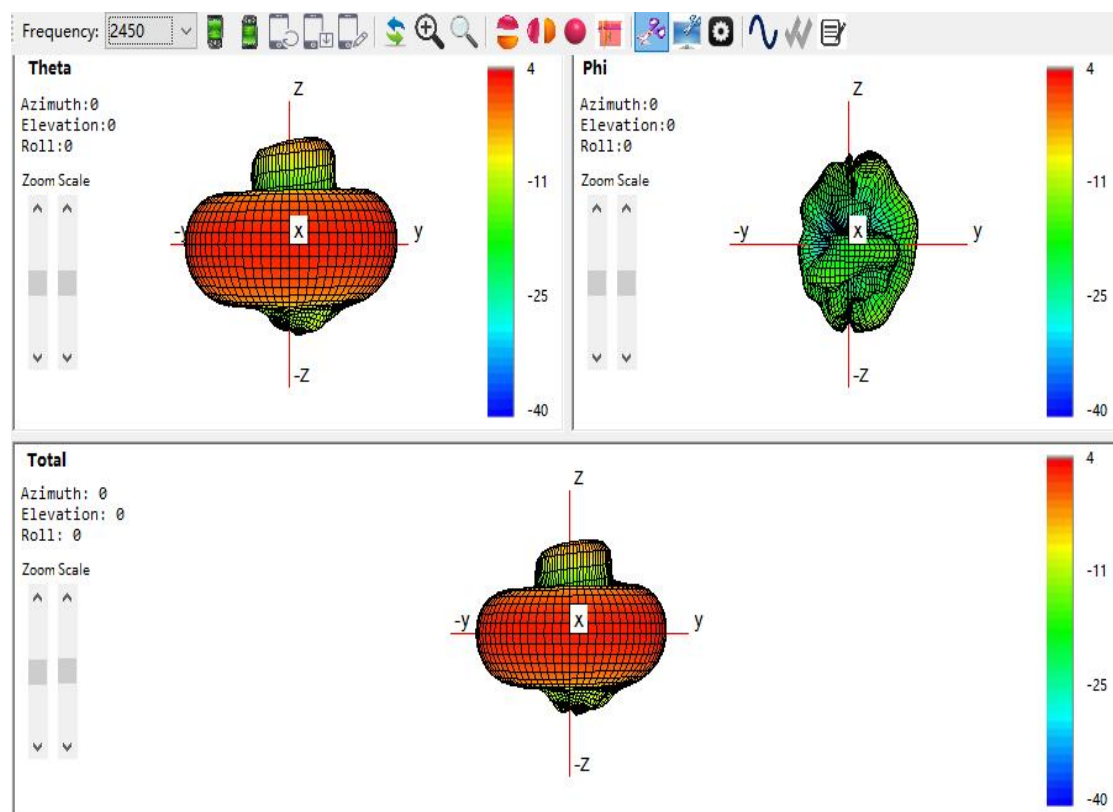
RADIATION PATTERNS (Tested on a base mounted on a 76×67mm PCB and interfaced via USB cable)



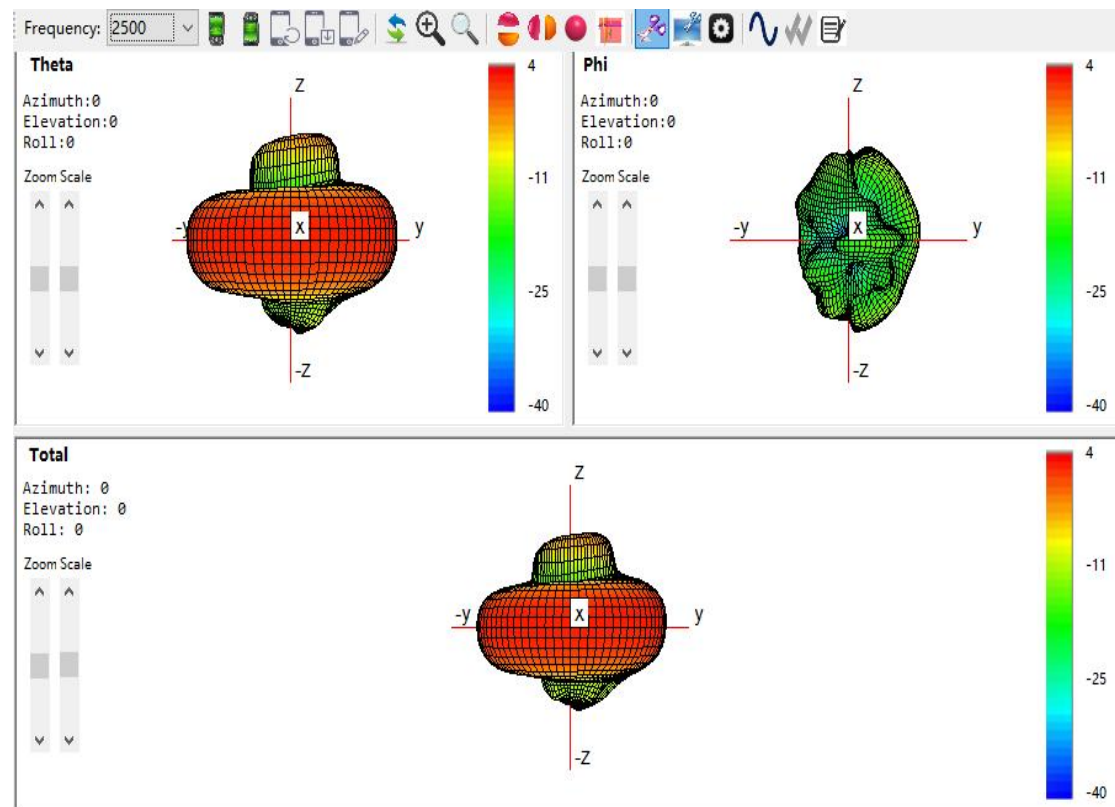
Max: 5
Min: -30
Scale: 5/div

Phi=0

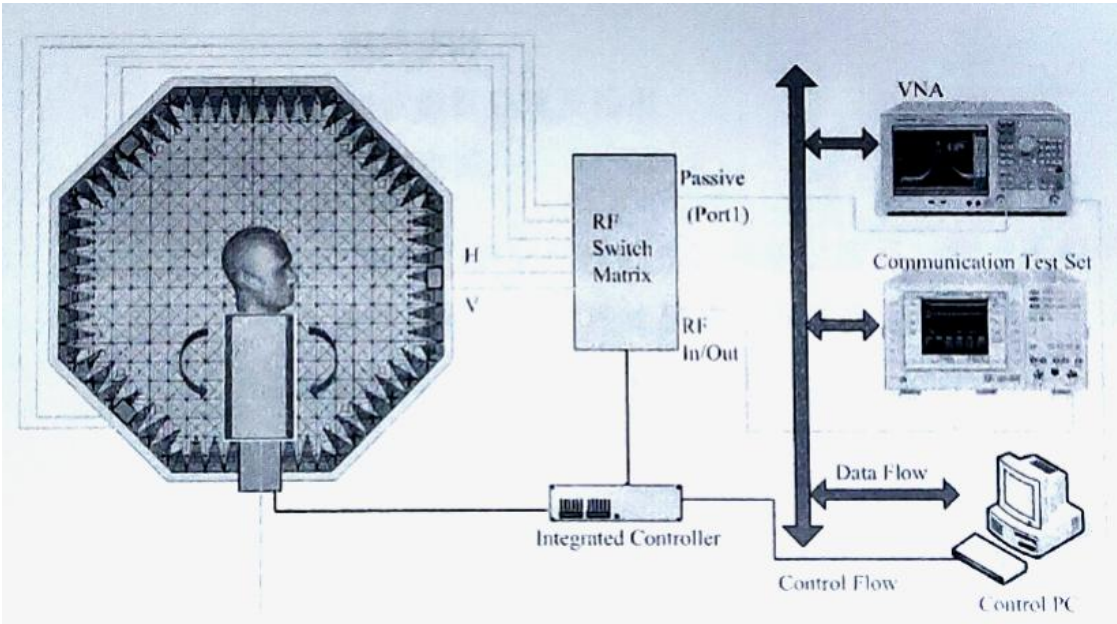


3D Radiation Pattern at 2400MHz Gain=3.71**3D Radiation Pattern at 2450MHz Gain=3.97**

3D Radiation Pattern at 2500MHz Gain=3.95



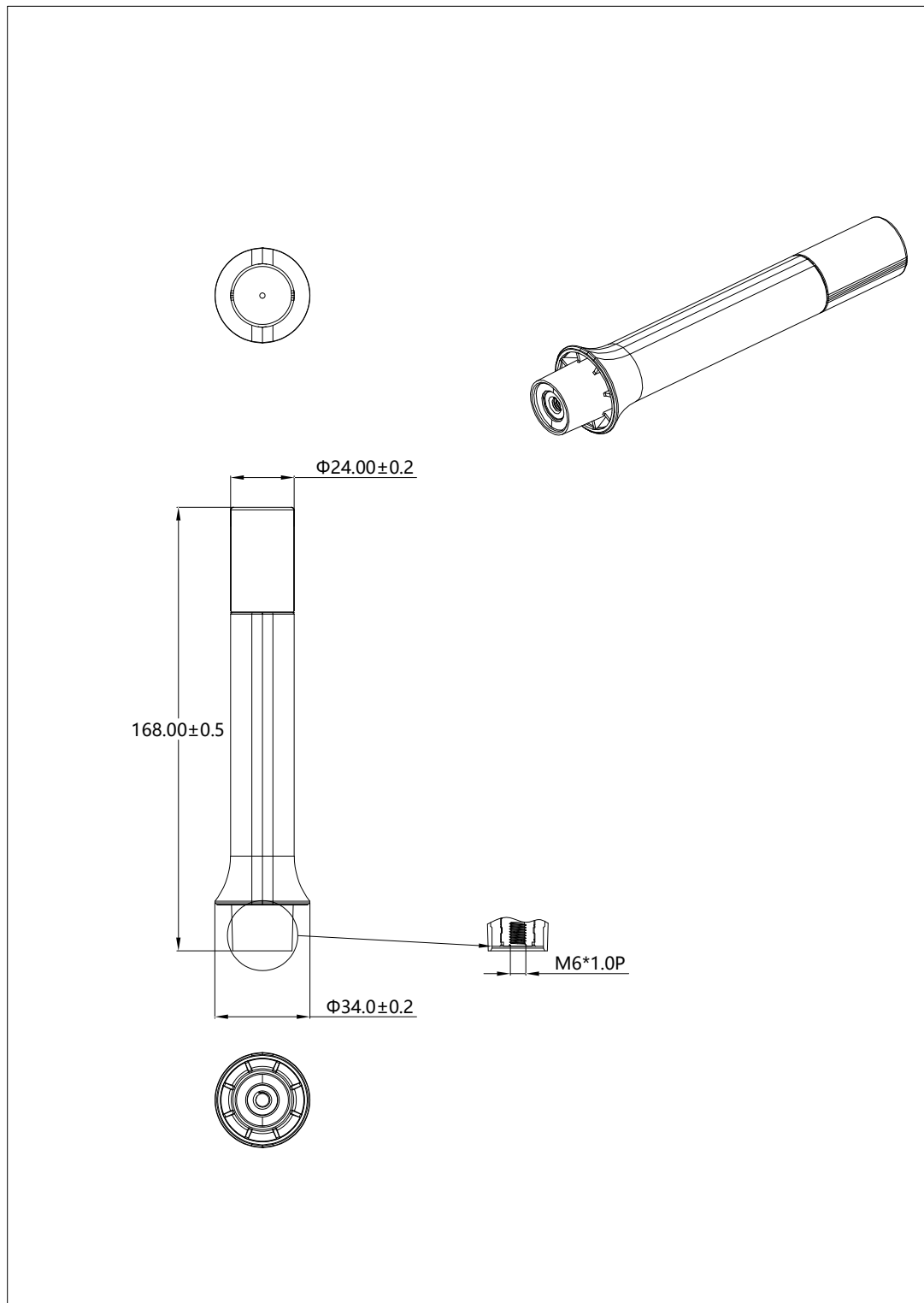
TESTING PROCEDURES



Equipment list

ID#	Device	Type/Model	Manufacturer
1	Anechoic Chamber	RayZone 2800	General Test Systems
2	Turn Table	GTS	General Test Systems
3	Measurement SW	MaxSign 100,V18.7.6	General Test Systems
4	Network analyzer	Agilent E5071C	Agilent
5	Cable 2m -30MHz to 18GHz	SFT205-SMSM(RA)-2M	Atem

Testing Ground: No.RM 410, Country Garden Phoenix Wisdom Valley, No. 50 Tiezai Road, Baoan District, Shenzhen, P.R.China.

HOUSING CONFIGURATIONS

Aboosty™ is owned by Shenzhen MyAntenna RF Technology Co., Ltd. (often abbreviated as MyAntenna).