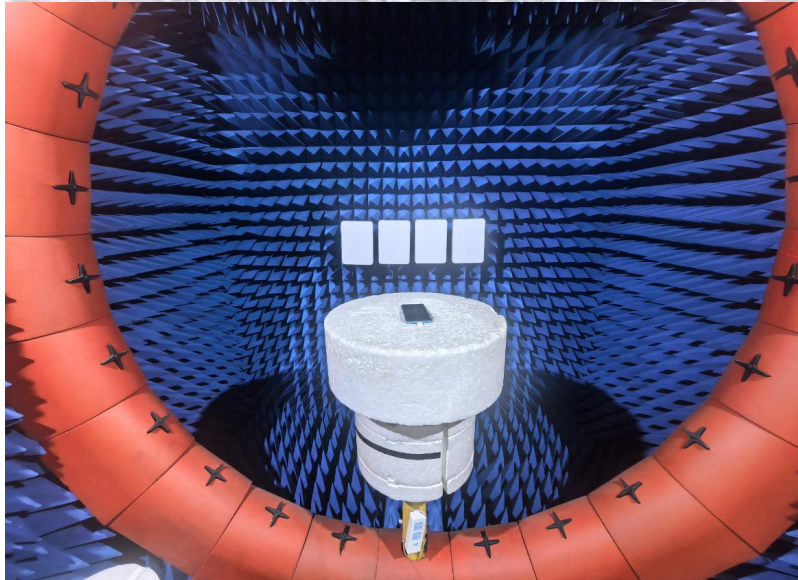
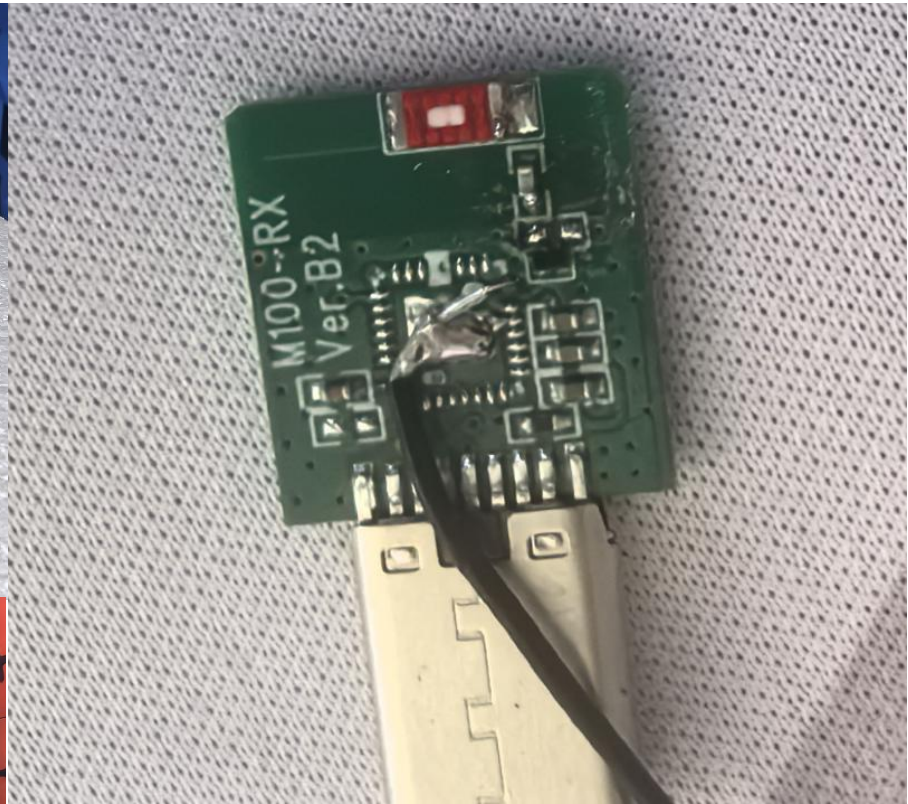
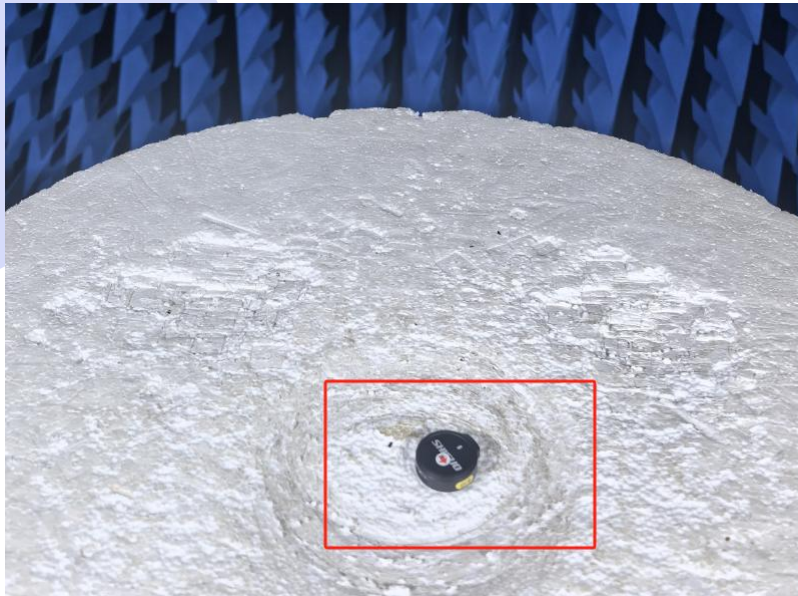


M100 Antenna Test Report

Customer	施索
Project	M100
Antenna BAND	2.4G
Product Description	M100
Product No	V1.2

Product Overview & Dimension



This report is to measure the performance of BT antenna for **M100**. The antenna operating frequency at (2400-2500MHZ) , All test data are showed as below.

Content

1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Gain & Efficiency
 - 4.3 Test coordinate
 - 4.4 2D Pattern
 - 4.5 OTA Data
 - 4.6 BT Boot measured
5. Antenna Assembly & environmental processing

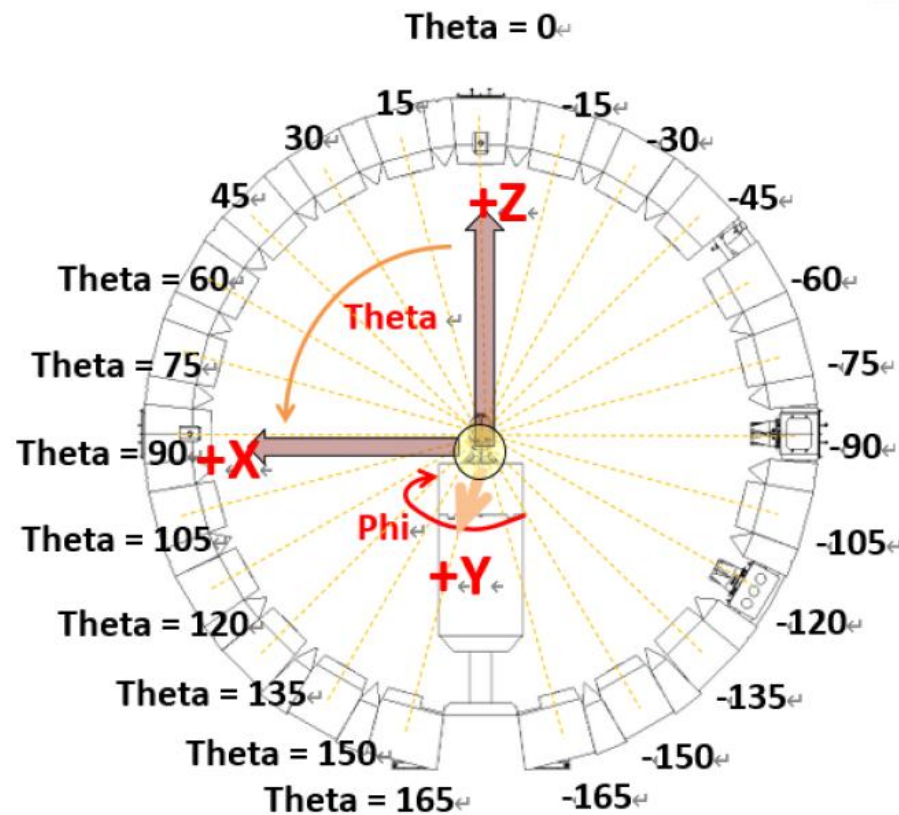
2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & HP 8753
OTA Test	TRP&TIS	CMW500 & CMW270 ETS& FT SG24
Gain & Efficiency	Gain & Efficiency	ETS&FT SG24 Agilent 5071C

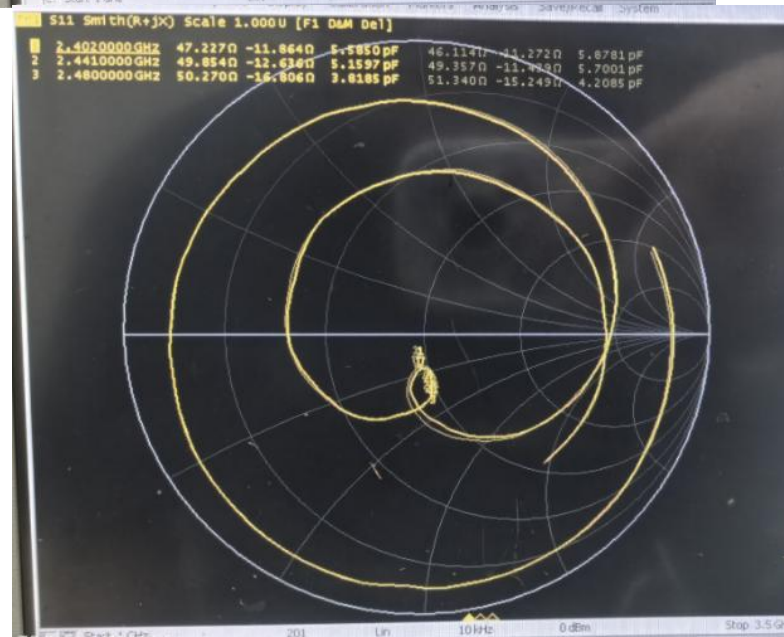
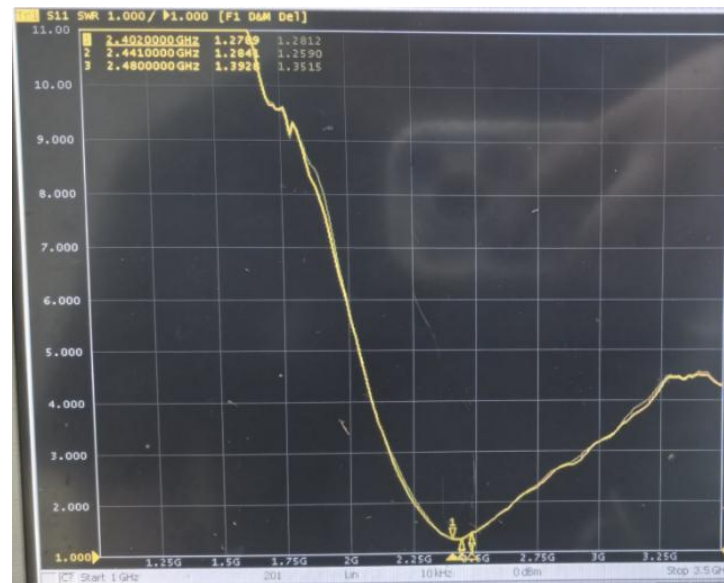
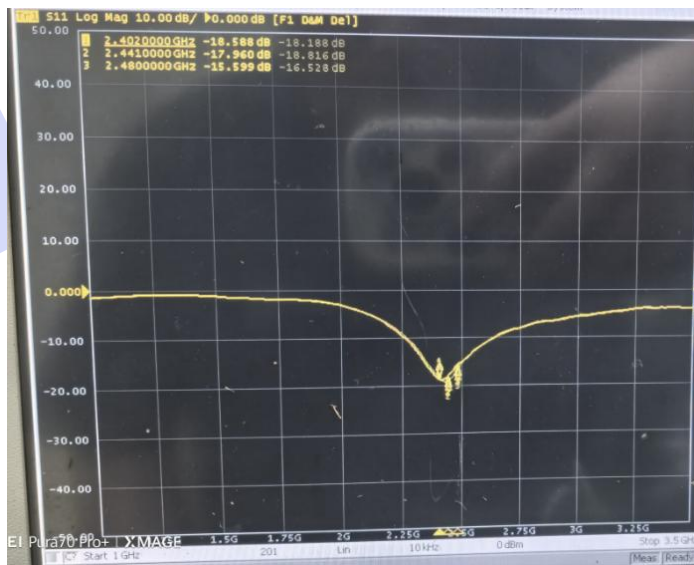


Test Result

Sample status & coordinates



S11



Frequency (MHz)	2400	2450	2500
Smith	47.22	49.85	50.27
Log mag	-18.58	-17.96	-15.59
VSWR	1.27	1.28	1.39

Match network parameters

Suggest using Murata brand high-precision capacitors, resistors, and inductors, The packaging specification is 0402

TX

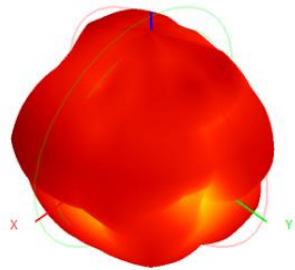
Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	43.36	1.3
2410	44.5	1.34
2420	46.9	1.39
2430	47.1	1.41
2440	47.6	1.42
2450	49.3	1.49
2460	48.3	1.44
2470	48.1	1.39
2480	46.6	1.33
2490	45.2	1.2
2500	45	1.14

RX

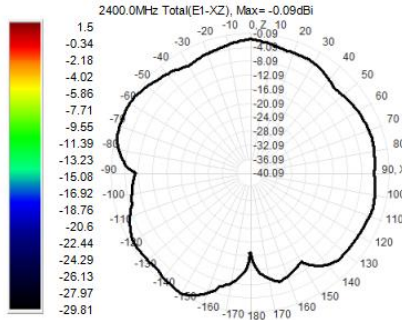
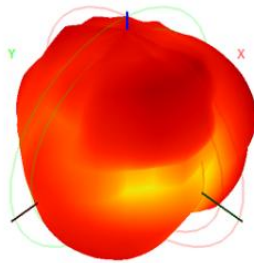
Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	41	1.0
2410	43	1.1
2420	43	1.1
2430	43	1.1
2440	45	1.22
2450	46	1.27
2460	45	1.18
2470	44	1.15
2480	43	1.1
2490	40	1.03
2500	39	1.09

3D Pattern

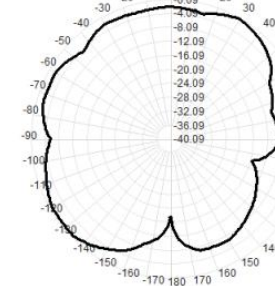
2400.0MHz Total, Eff: 47.3%



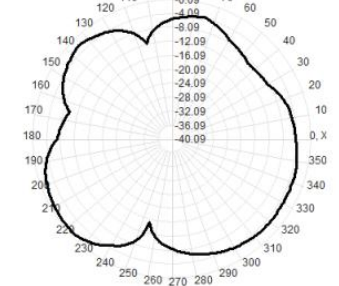
Back View



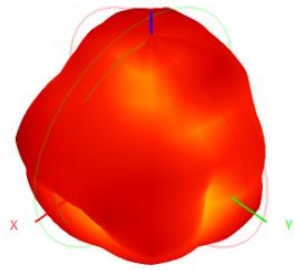
2400.0MHz Total(E2-YZ), Max=-0.47dBi



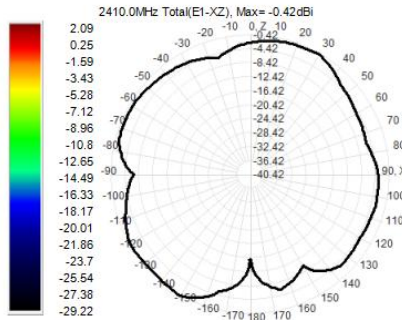
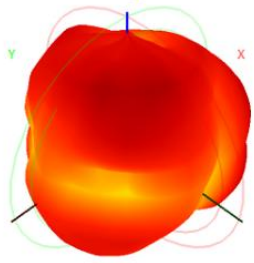
Total(H-XY), Max=-1.15dBi, CrD=14.33



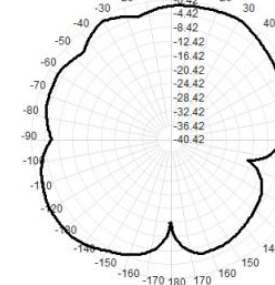
2410.0MHz Total, Eff: 50.7%



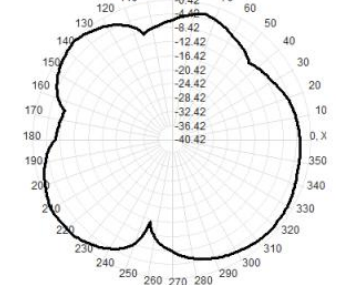
Back View



2410.0MHz Total(E2-YZ), Max=-0.49dBi



Total(H-XY), Max=-0.51dBi, CrD=15.67



Thanks for your comment!

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✧ *DT;15302757983*