

新联芯

## Antenna Test Report

Customer	新联芯
Project	1223
Antenna Revision	V1.0
Product Description	PCB
Product No	V1.0
DATE	2024.6.18

# Purpose

This report is to measure the performance of BT antenna for1223.The antenna operating frequency at **2.4~2.5GHz**, 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 Test coordinate
  - 4.3 2D Pattern
  - 4.4 OTA Data
  - 4.5 BT Boot measured
5. Antenna Assembly & environmental processing

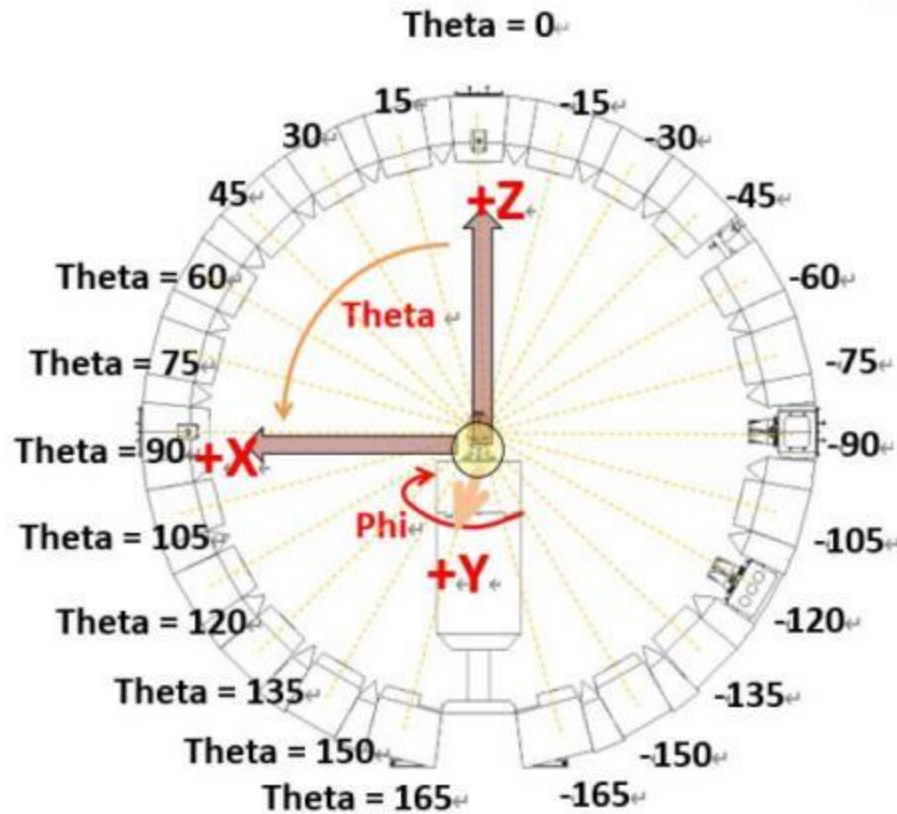
## 2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C

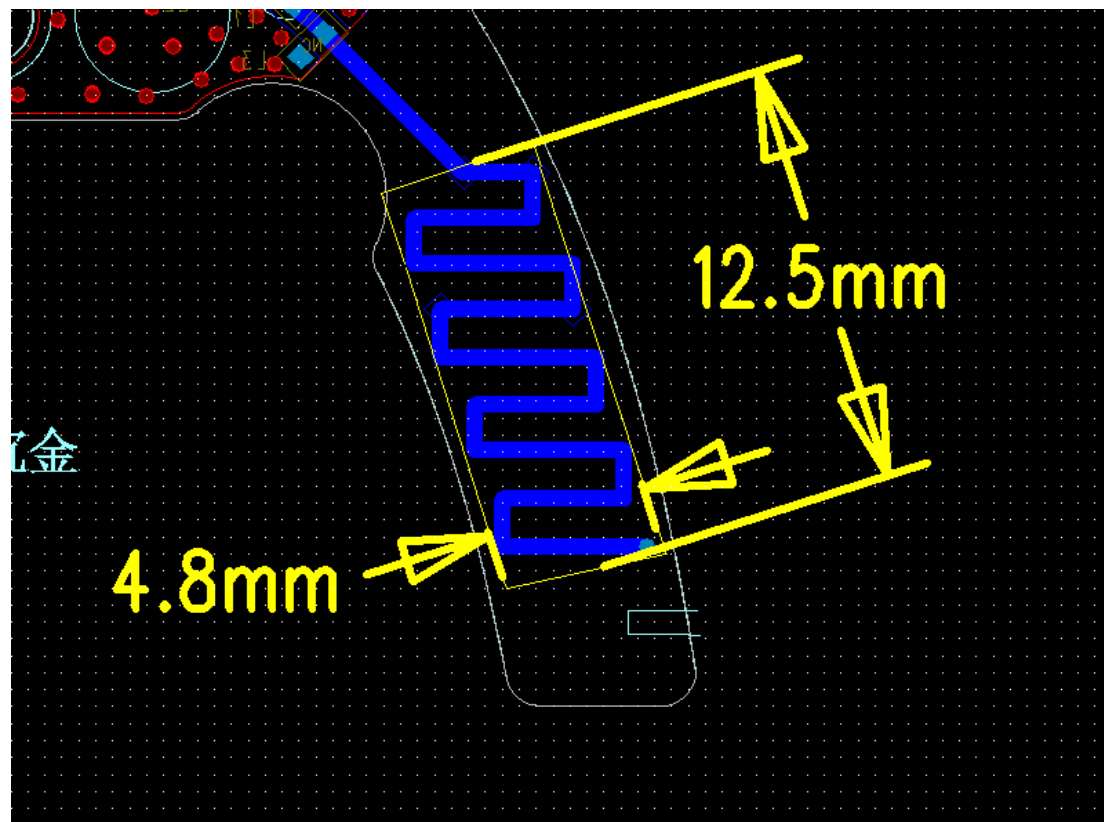


# Test Result

## Sample status & coordinates



(L-R)



## 无源S11—(BTANT)-



# Test Result

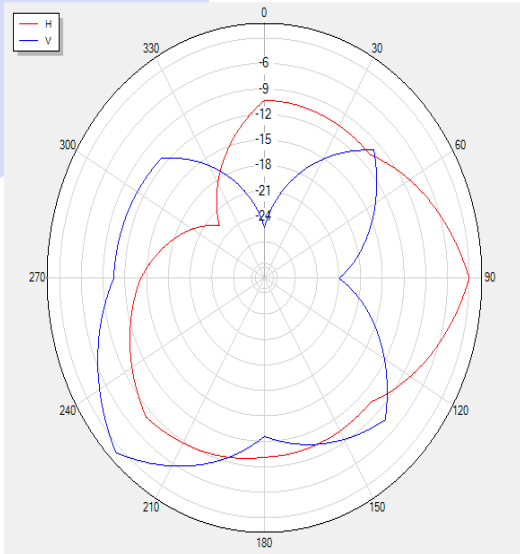
## Gain & Efficiency—**BT-ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	18.08	-1.8
2410	18.55	-1.84
2420	18.94	-1.91
2430	19.26	-1.98
2440	16.78	-2.1
2450	15.15	-2.39
2460	13.46	-3.27
2470	11.79	-3.59
2480	11.47	-3.78

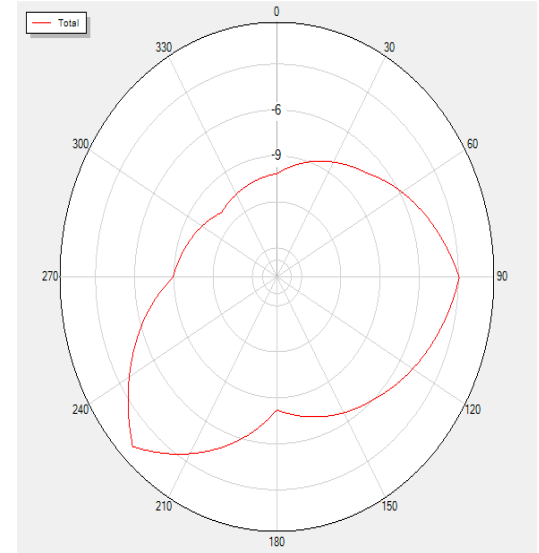
# Test Result

2D&3D—BT-ANT

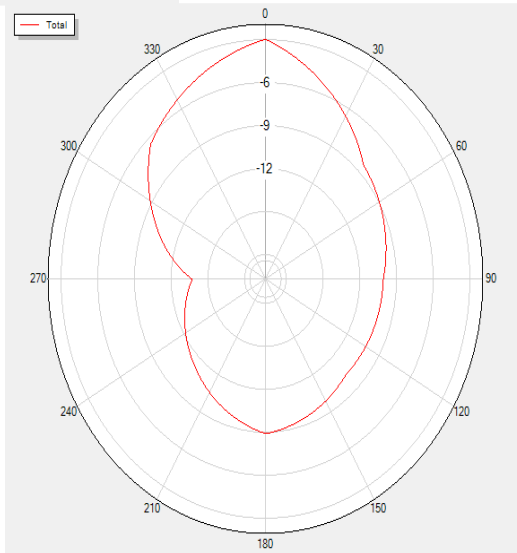
### 2400 Polar



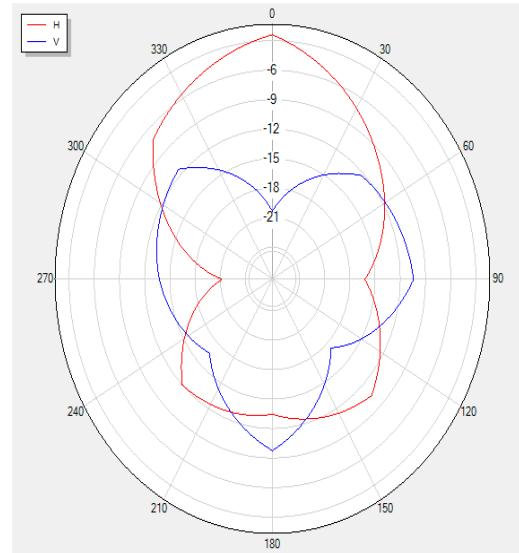
### 2400 Total



### 2400 Total



### 2400 Polar



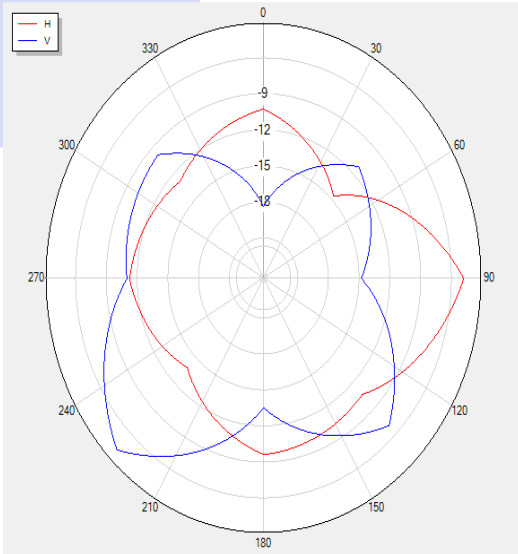


# Test Result

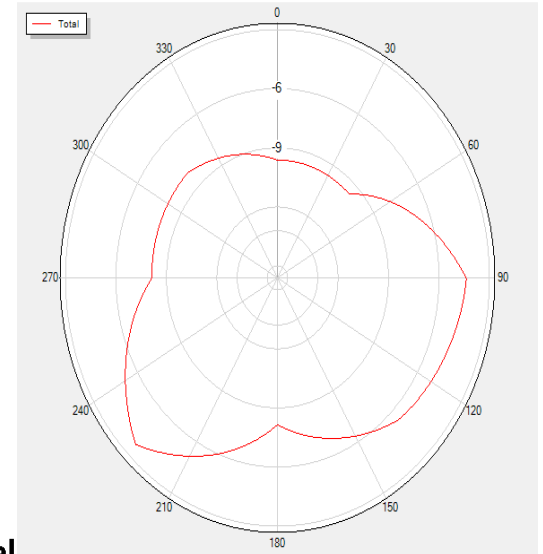
深圳市合拓科技有限公司

2D&3D—BT-ANT

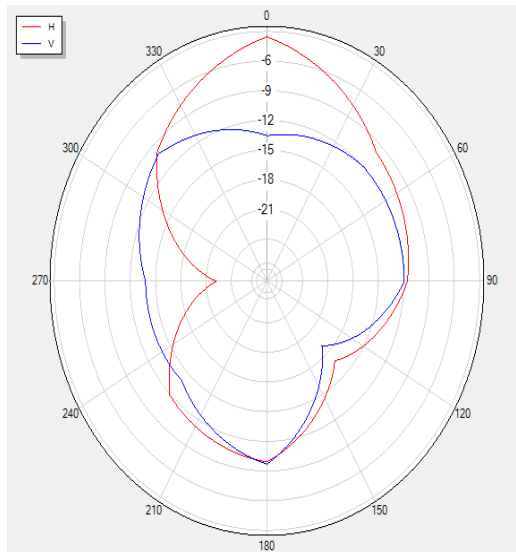
2450 Polar



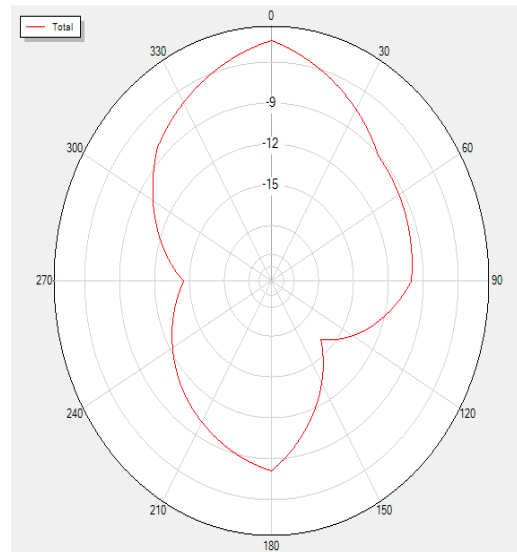
2450 Total



2450 Polar



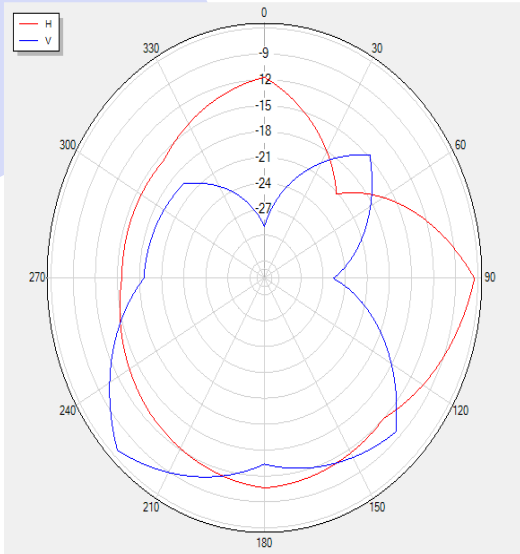
2450 Total



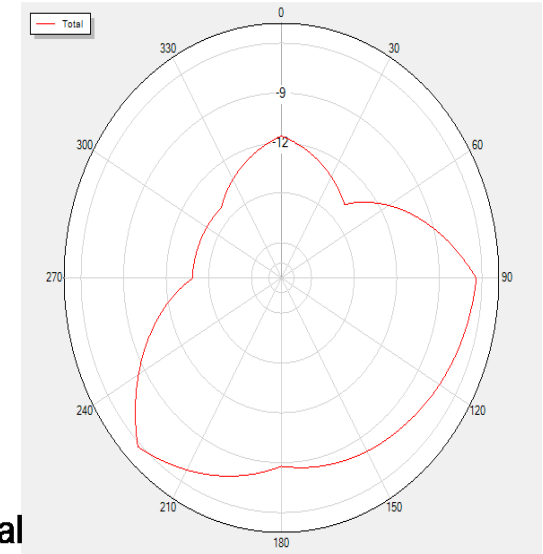
# Test Result

2D&3D—BT-ANT

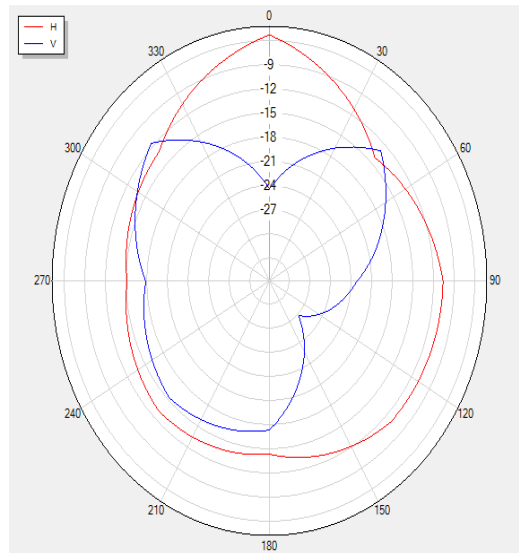
2500 Polar



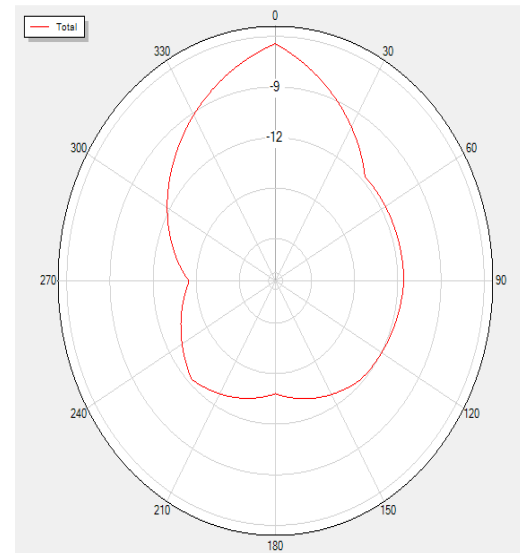
2500 Total



2500 Polar



2500 Total



# ***Thanks for your comment!***

---

▣ 深圳市合拓科技有限公司

▣ 深圳 : 深圳市宝安区西乡恒丰工业城C6栋1202B

▣ RF: 吴生