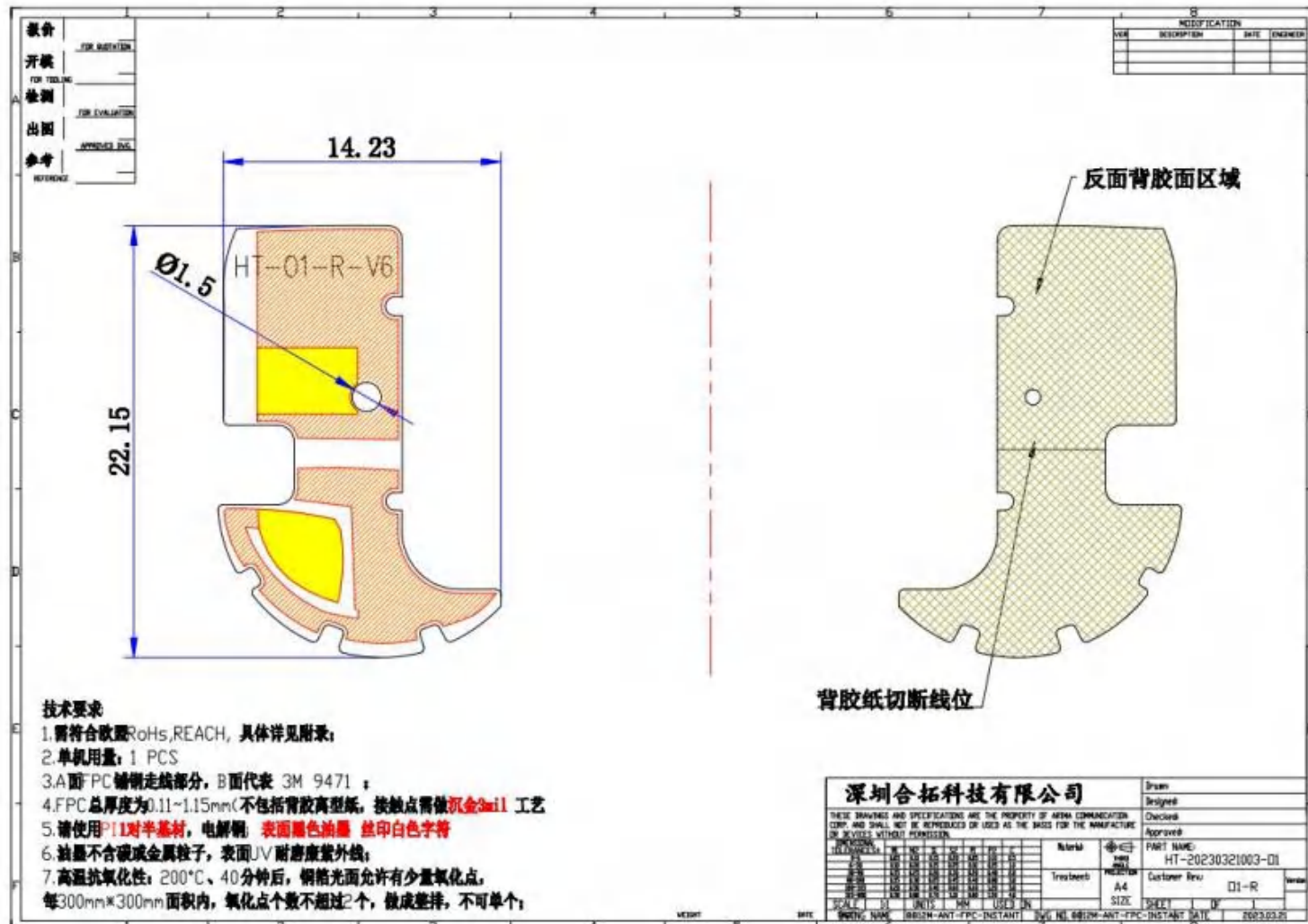


O1 Antenna Test Report

Customer	延辉
Project	01
Antenna Revision	A1
Product Description	FPC
Product No	
DATE	2023. 05. 25

Product Overview & Dimension

Front



Purpose

This report is to measure the performance of BT antenna for 01. The antenna operating frequency at 2.4~2.5GHz, All test data are showed as below.

Content

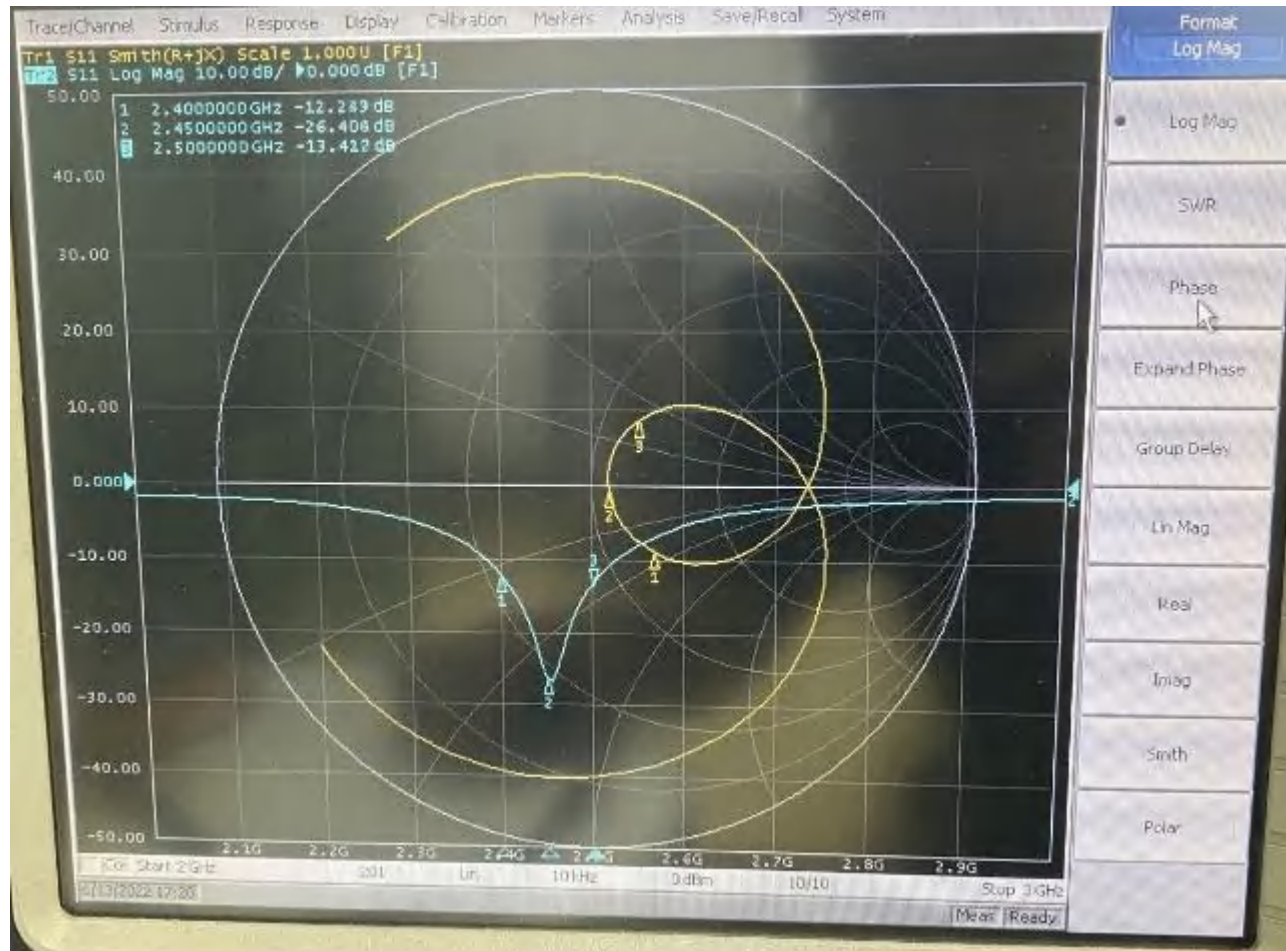
1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Test coordinate
 - 4.3 2D Pattern
 - 4.4 OTA Data
 - 4.5 BT Boot measured
5. Antenna Assembly & environmental processing

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



无源S11—(BT ANT)



(R)

延辉 01

2022.05.25



[illegible]

Test Result

Gain & Efficiency——**BT- ANT(L/R)**

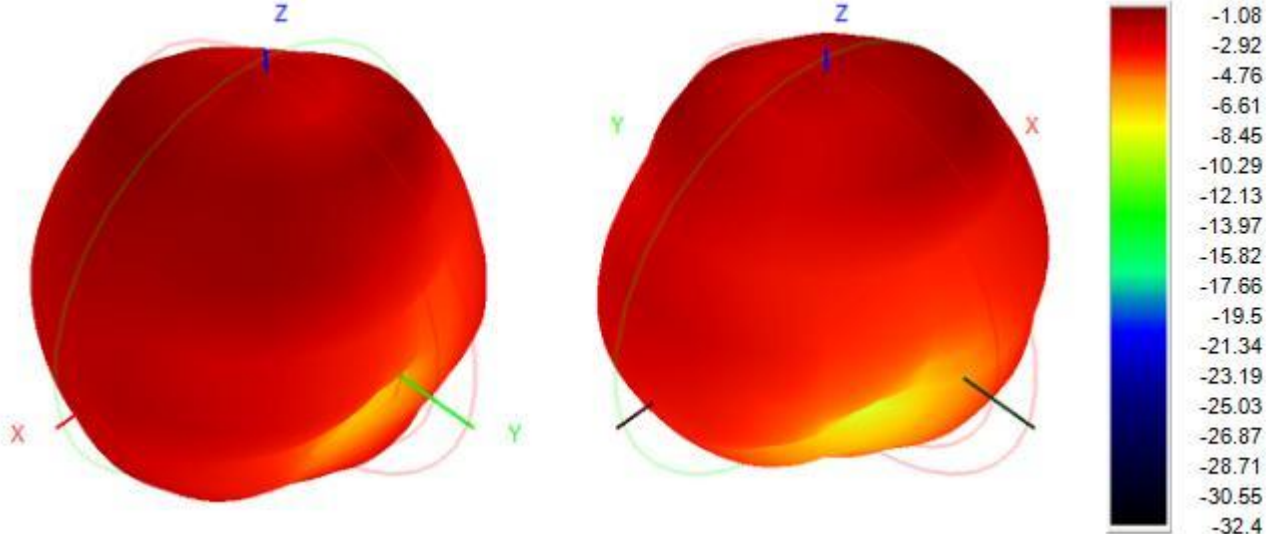
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	31.87	1.08
2410	34.61	0.88
2420	37.32	0.59
2430	41.67	0.38
2440	43.92	0.47
2450	45.37	1.26
2460	45.91	1.92
2470	44.45	1.11
2480	41.49	1.34
2490	39.18	1.78
2500	36.41	1.38

Test Result

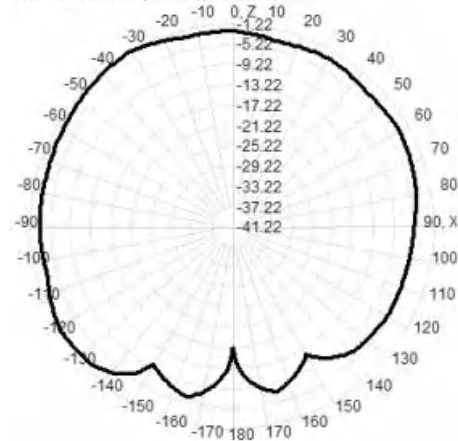
2D&3D — BT- ANT

2400.0MHz H+V, Eff: 31.9%

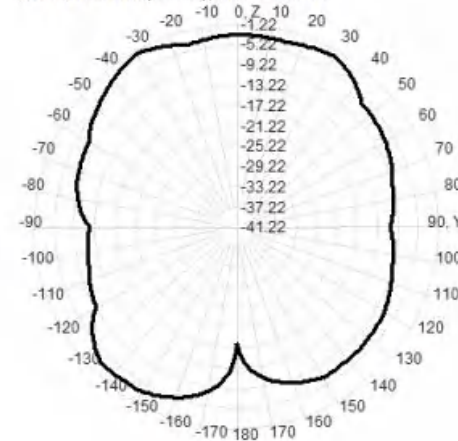
Back View



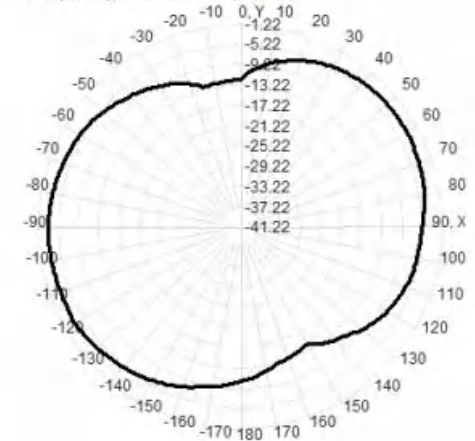
2400.0MHz Total(E1-XZ), Max=-1.22dBi



2400.0MHz Total(E2-YZ), Max=-1.83dBi



Total(H-XY), Max=-3.21dBi, CirD=11.52

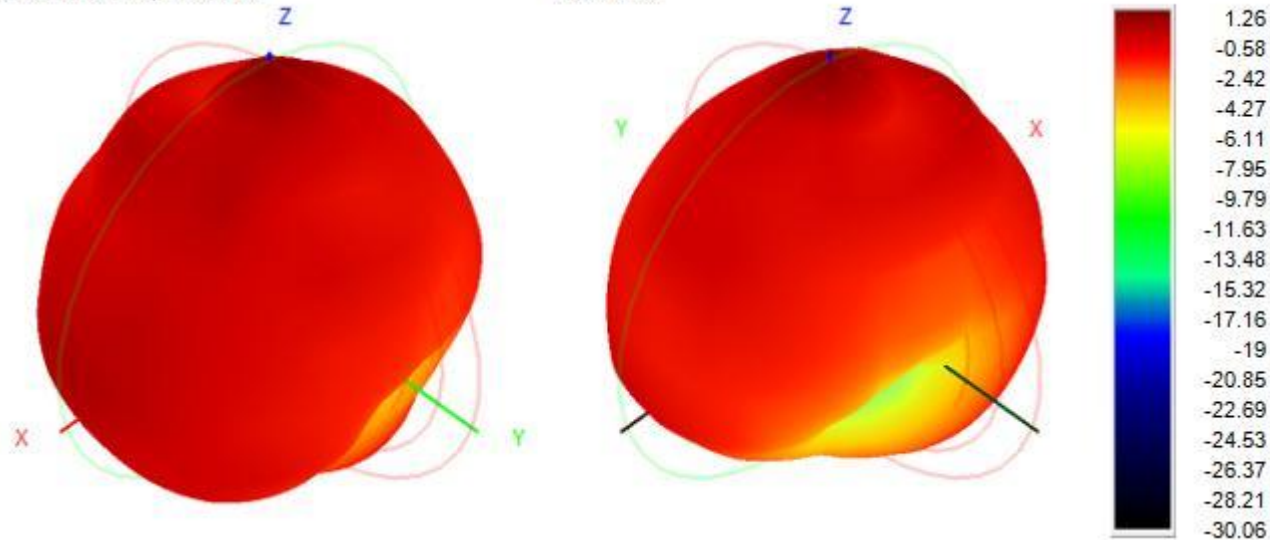


Test Result

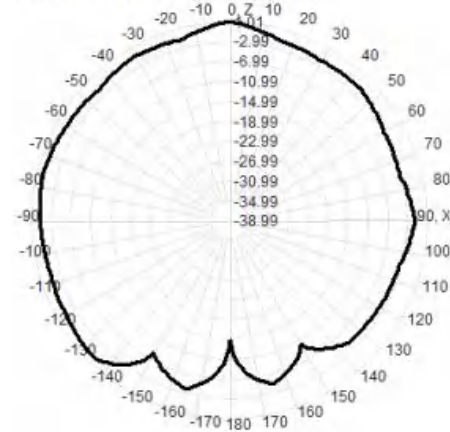
2D&3D — BT- ANT

2450.0MHz H+V, Eff: 45.4%

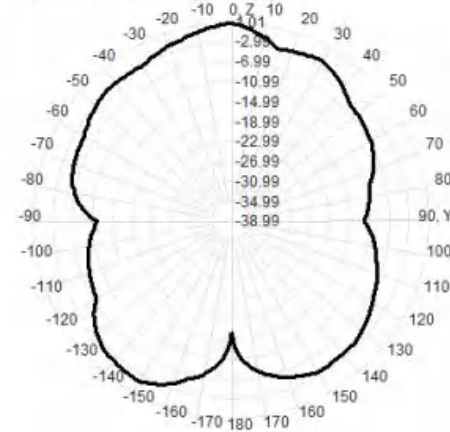
Back View



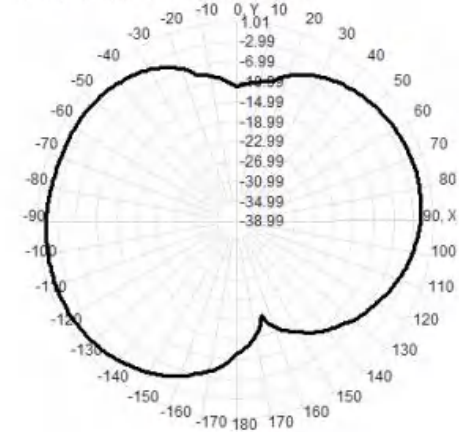
2450.0MHz Total(E1-XZ), Max= 1.01dBi



2450.0MHz Total(E2-YZ), Max= 0.76dBi



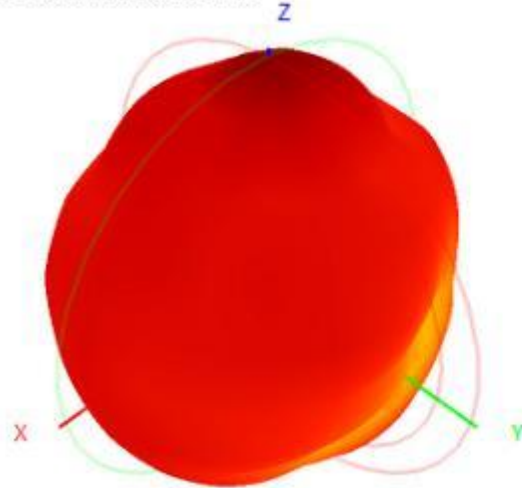
Total(H+XY), Max= -0.55dBi, CirD=18.83



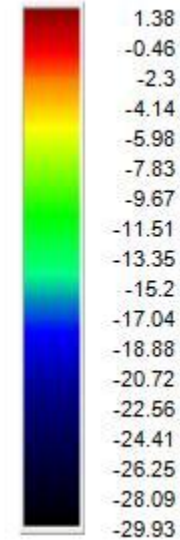
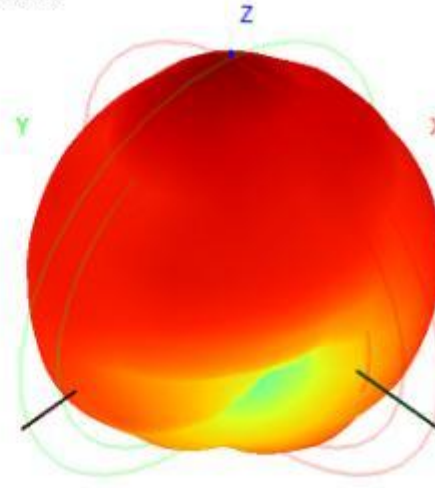
Test Result

2D&3D — **BT- ANT**

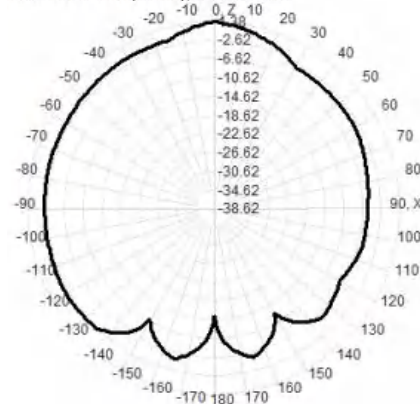
2500.0MHz H+V, Eff: 36.4%



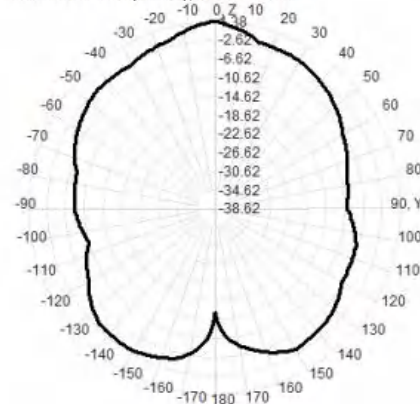
Back View



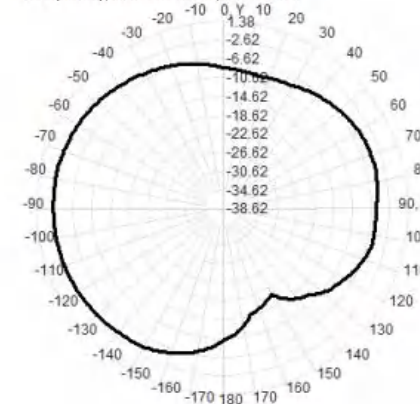
2500.0MHz Total(E1-XZ), Max= 1.31dBi



2500.0MHz Total(E2-YZ), Max= 1.38dBi



Total(H-XY), Max= -2.24dBi, CirD=15.13



Thanks for your comment!

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Hengfeng Industrial City, Xixiang,
Bao 'an District, Shenzhen**
- ✧ **RF: Hu Xuewen**