

Purpose

This report is to measure the performance of BT antenna for H01. The antenna operating frequency at 2.4~2.5GHz, All test data are showed as below.

Content

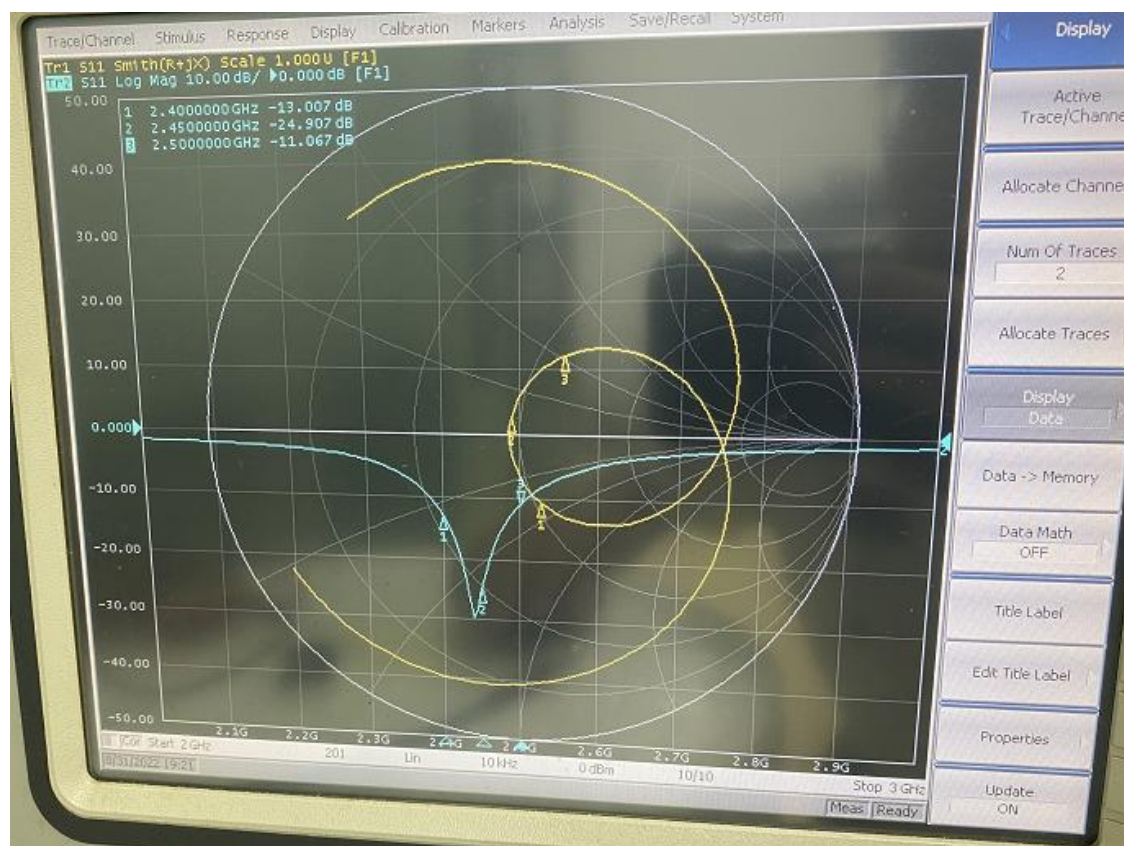
1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Test coordinate
 - 4.3 2D Pattern
 - 4.4 OTA Data
 - 4.5 BT Boot measured
5. Antenna Assembly & environmental processing

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

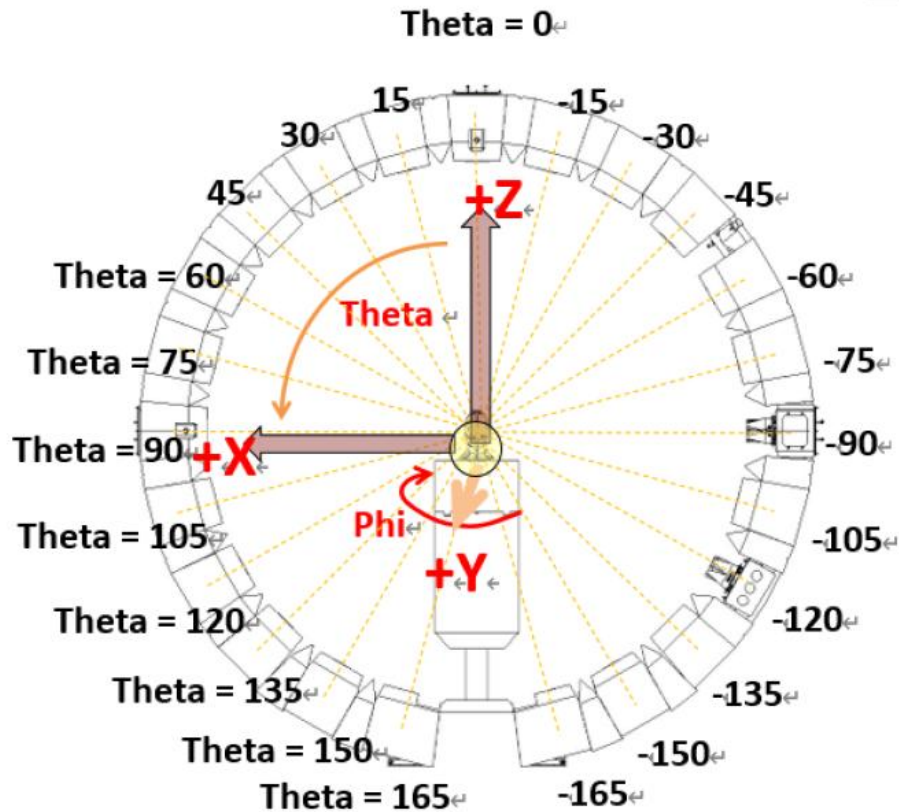


无源S11—(BT ANT)



Test Result

Sample status & coordinates



Test Result

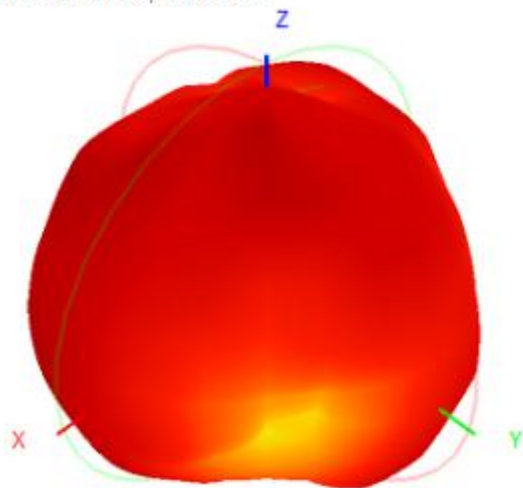
Gain & Efficiency—**BT- ANT(L/R)**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	25.25	-1.57
2410	26.57	-1.06
2420	26.52	-1.09
2430	29.04	-0.67
2440	29.29	-0.66
2450	29.57	-0.57
2460	29.96	-0.42
2470	30.62	-0.63
2480	29.30	-0.83
2490	28.31	-0.83
2500	28.01	-0.64

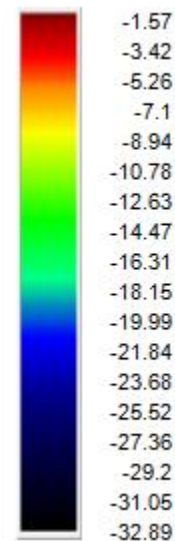
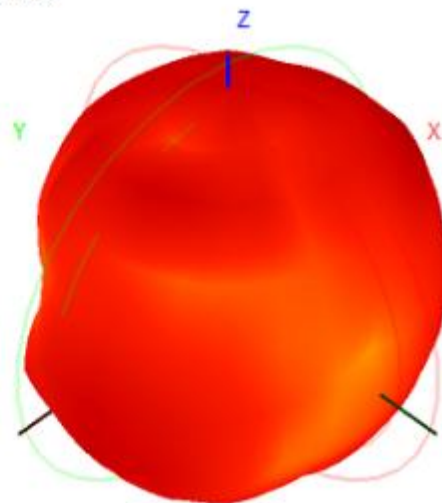
Test Result

2D&3D — BT- ANT

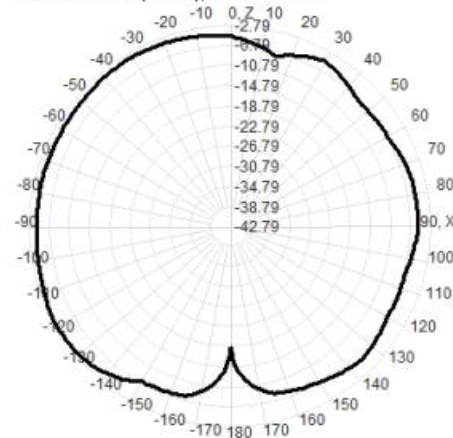
2400.0MHz H+V, Eff: 25.2%



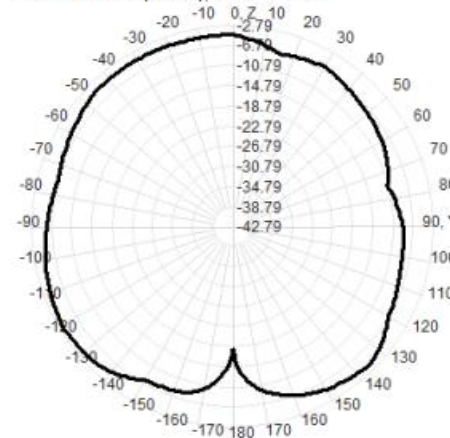
Back View



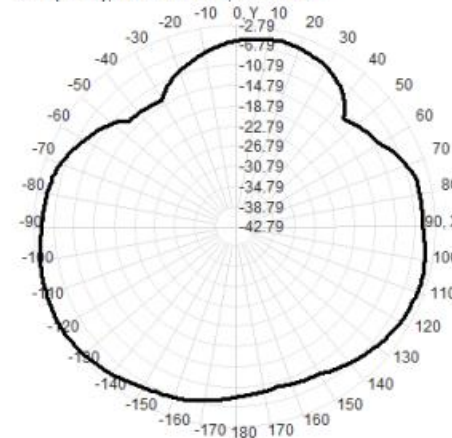
2400.0MHz Total(E1-XZ), Max= -3.02dBi



2400.0MHz Total(E2-YZ), Max= -3.68dBi



Total(H-XY), Max= -2.79dBi, CirD=11.01

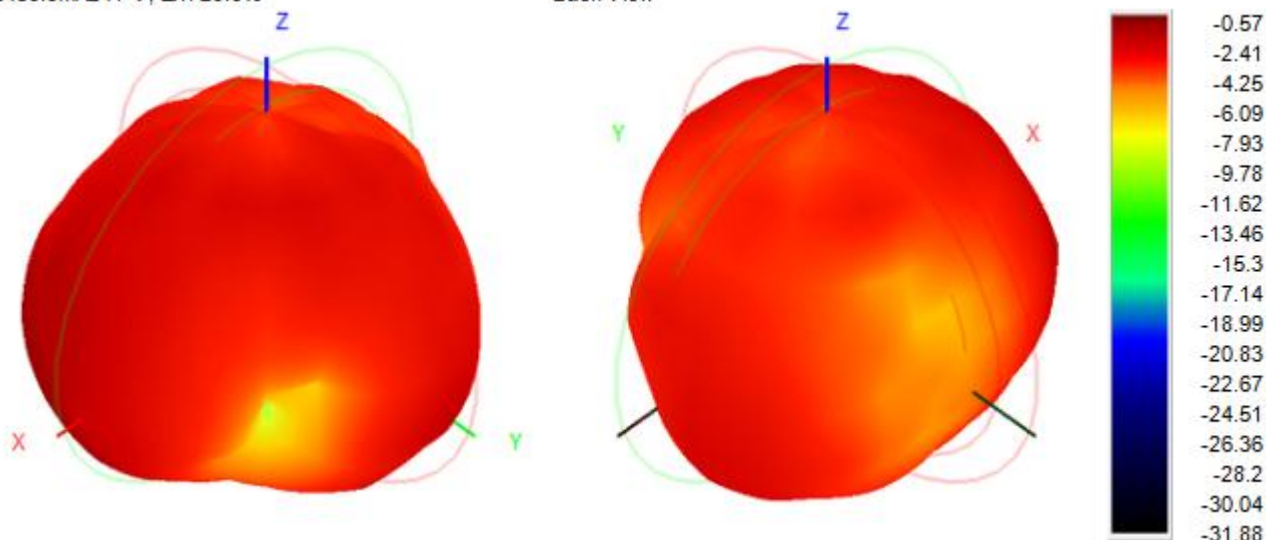


Test Result

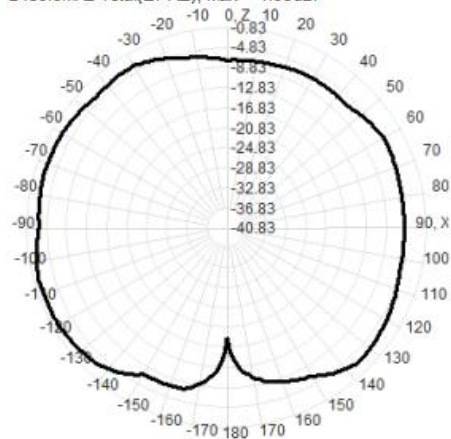
2D&3D — BT- ANT

2450.0MHz H+V, Eff: 29.6%

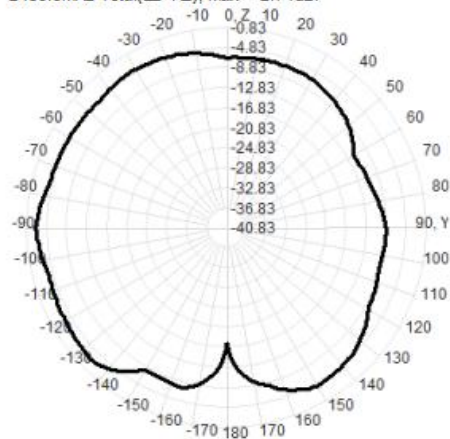
Back View



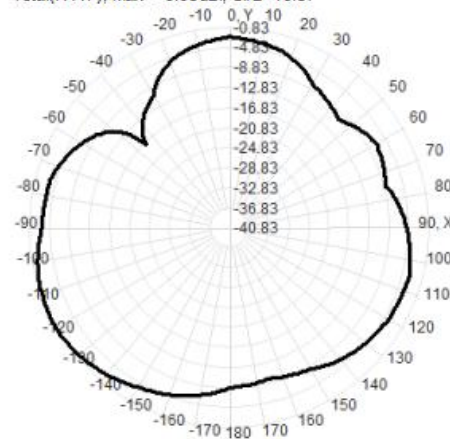
2450.0MHz Total(E1-XZ), Max=-1.95dBi



2450.0MHz Total(E2-YZ), Max=-2.74dBi



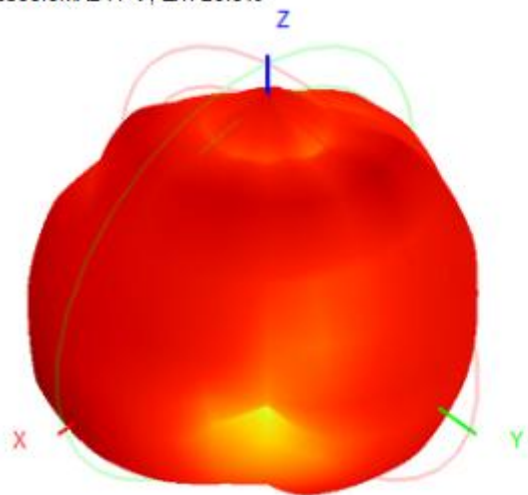
Total(H-XY), Max=-0.83dBi, CirD=16.37



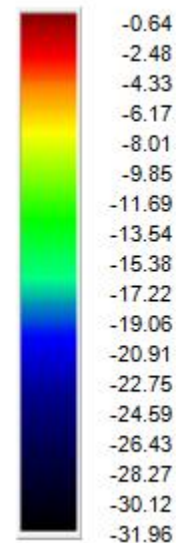
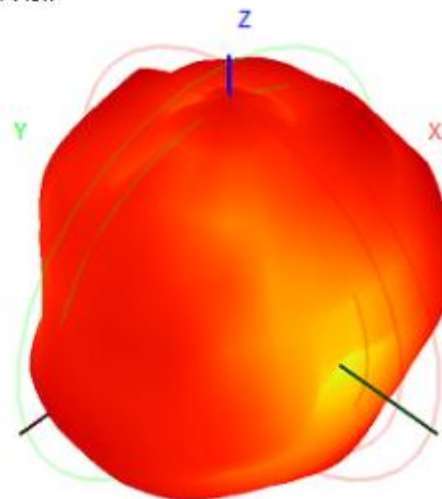
Test Result

2D&3D — BT- ANT

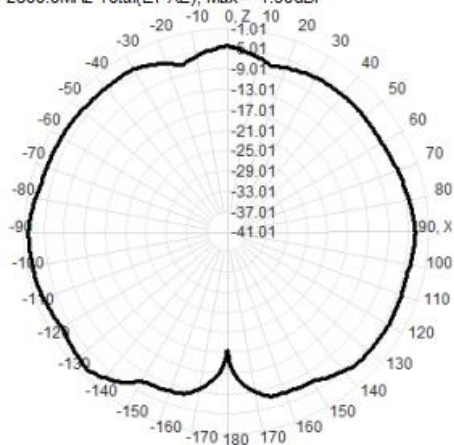
2500.0MHz H+V, Eff: 28.0%



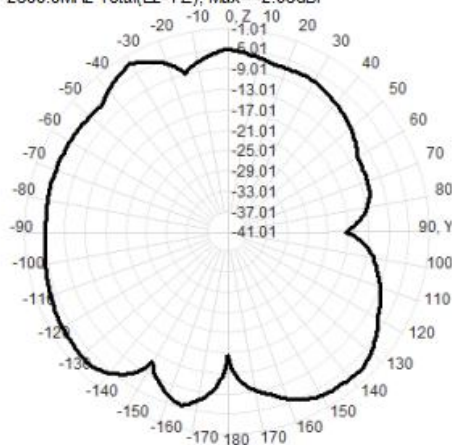
Back View



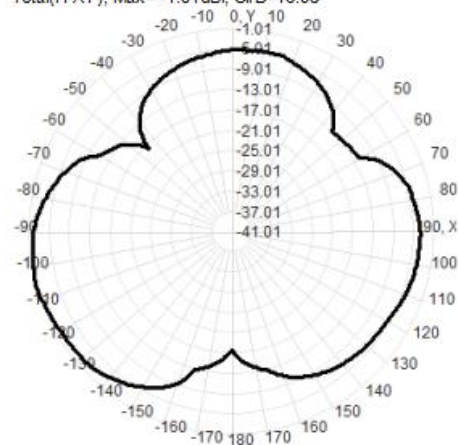
2500.0MHz Total(E1-XZ), Max=-1.90dBi



2500.0MHz Total(E2-YZ), Max=-2.85dBi



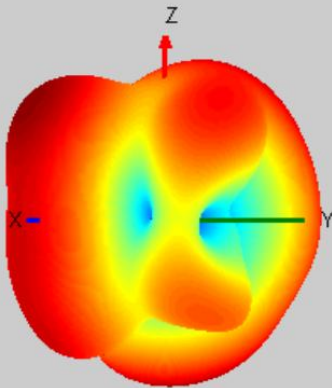
Total(H-XY), Max=-1.01dBi, CirD=16.85



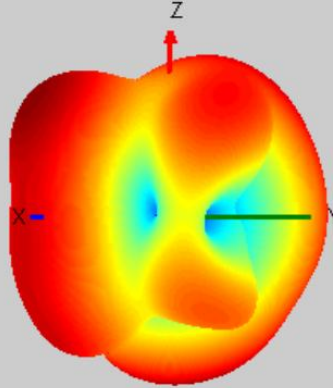
OTA DATA(--自由空间

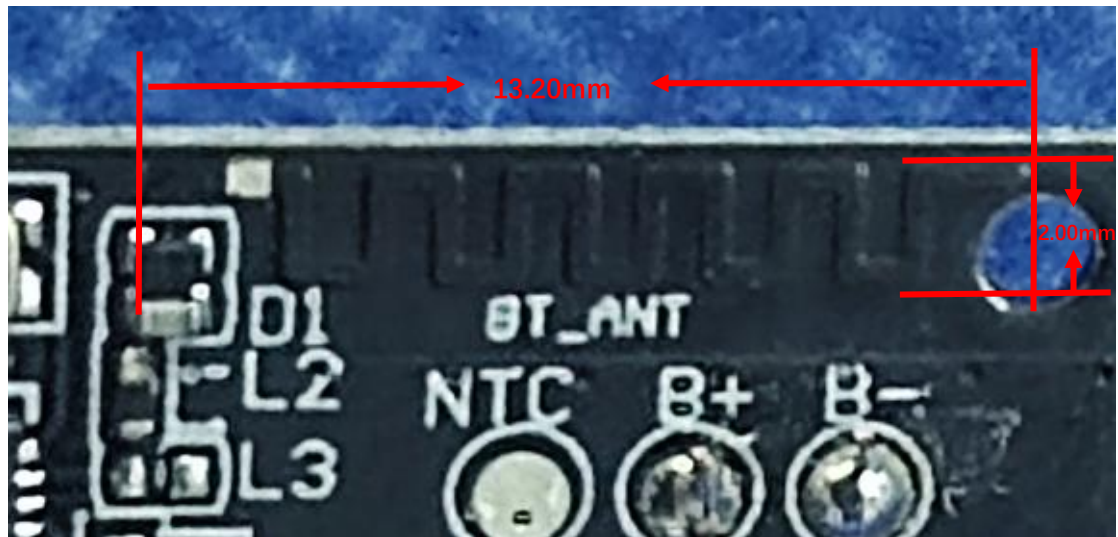
Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band	Wireless Protocol	Channel	TRP(dBm)	TIS(dBm)
BT		0	-1.20	-81.76
		39	-0.83	-81.35
		78	-0.36	-81.09

(L)



(R)





Antenna Photo