

KT-1 Antenna Test Report

Project	Freego1
Antenna Revision	A1
Product Description	PCB
Antenna Gain	1.25 dBi
DATE	2023.06.02

Product Overview

Front



Purpose

This report is to measure the performance of BT antenna for **JPS EC001**. The antenna operating frequency at **2.4~2.5GHz**, All test data are showed as below.

Content

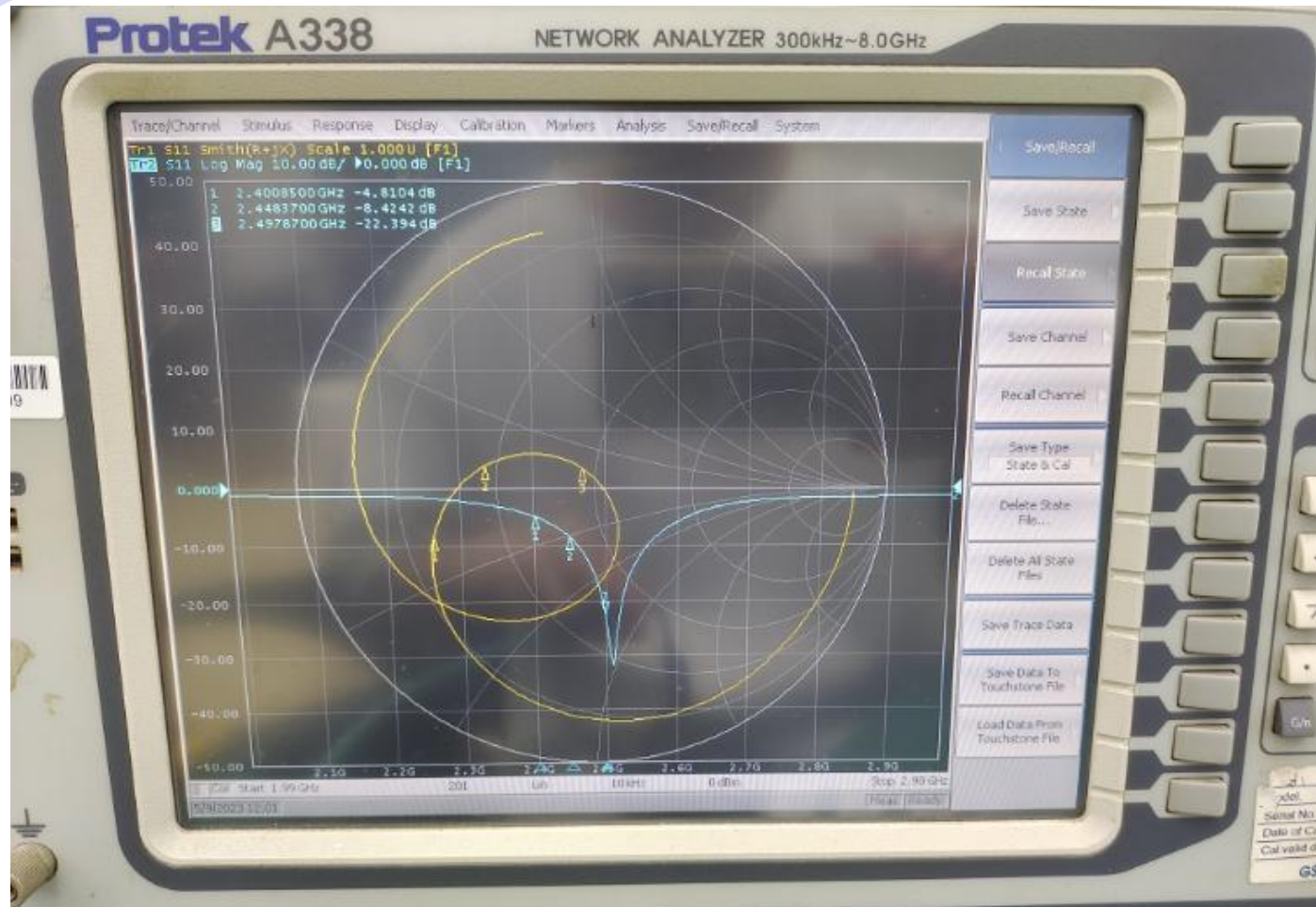
1. Product Over view & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S 11 Parameter
 - 4.2 Test coordinate
 - 4.3 2 D Pattern
 - 4.4 OTA Data
 - 4.5 BT Boot measured
5. Antenna Assembly & environmental processing

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



S11—(BT ANT)

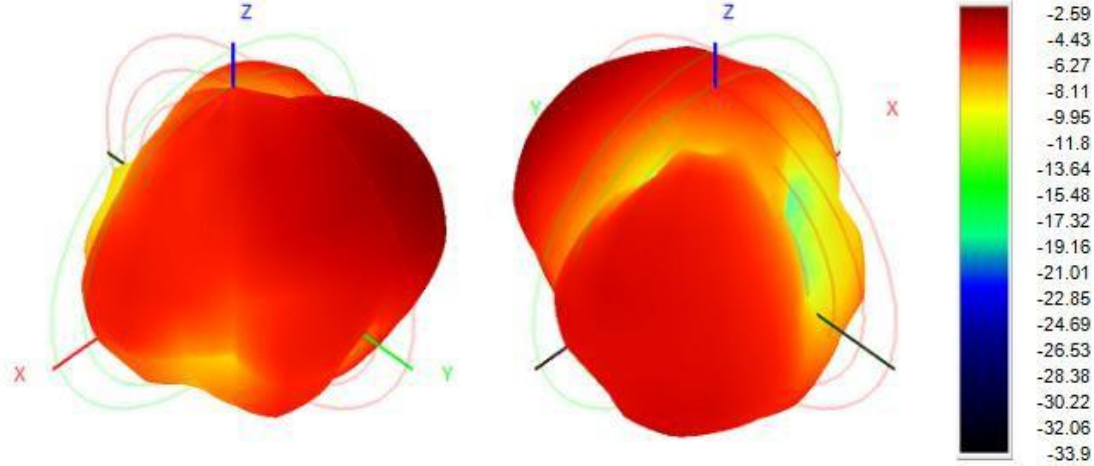


Test Result

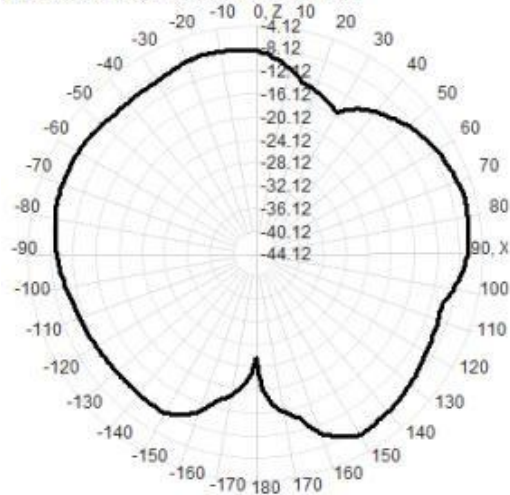
2D&3D — BT- ANT

2400.0MHz H+V, Efr: 13.9%

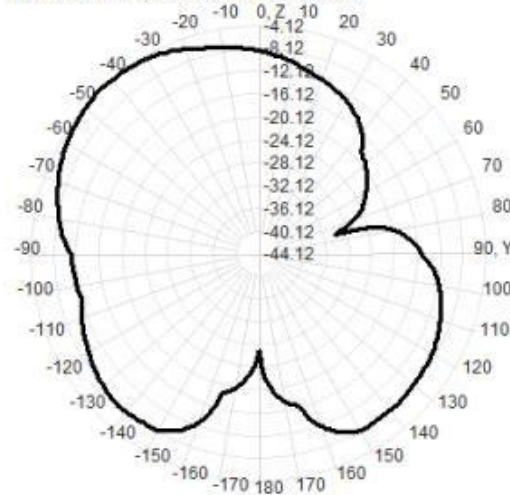
Back View



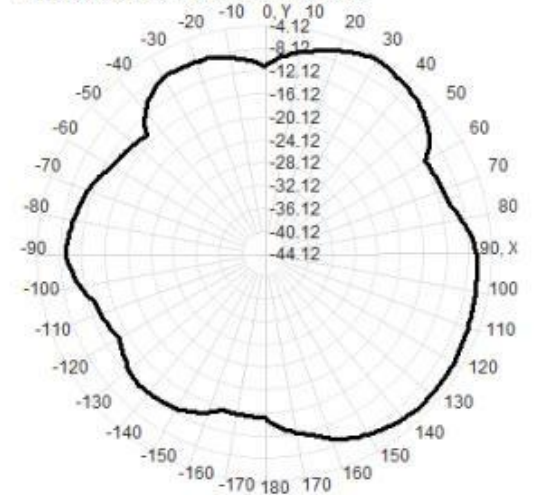
2400.0MHz Total(E1-XZ), Max=-6.25dBi



2400.0MHz Total(E2-YZ), Max=-4.12dBi



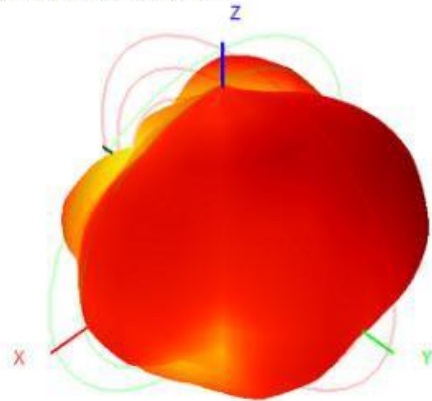
Total(H-XY), Max=-4.76dBi, CirD=11.16



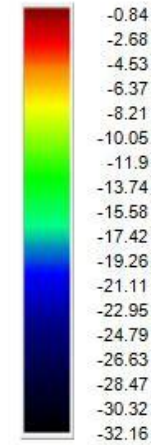
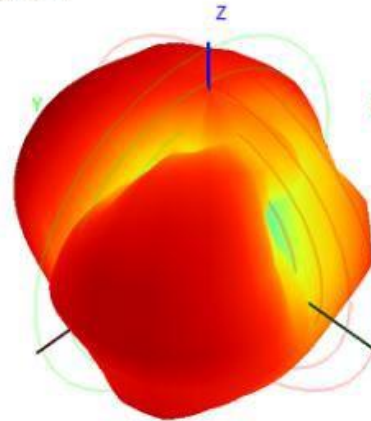
Test Result

2D&3D — BT- ANT

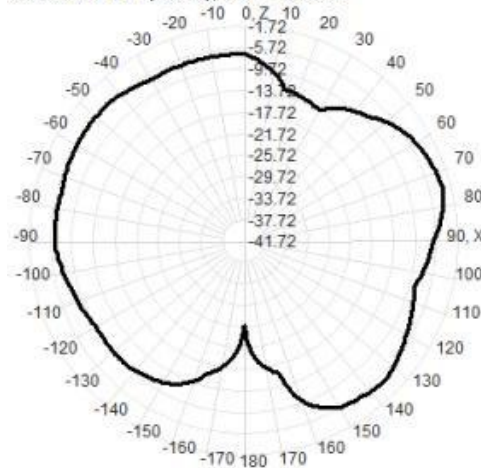
2450.0MHz H+V, Eff: 23.2%



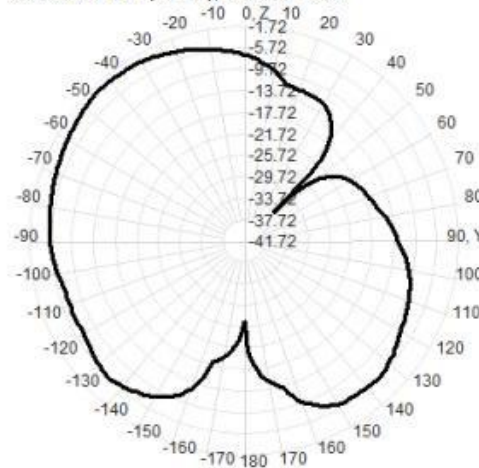
Back View



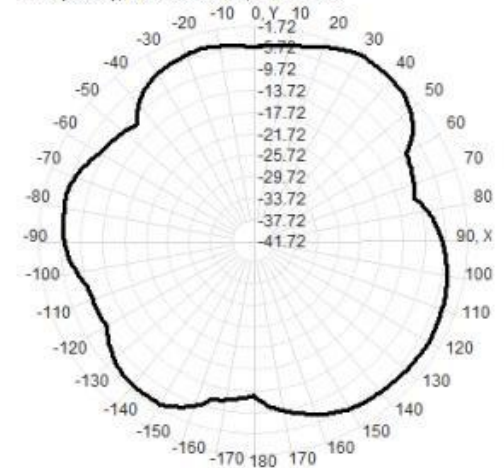
2450.0MHz Total(E1-XZ), Max=-3.45dBi



2450.0MHz Total(E2-YZ), Max=-2.81dBi



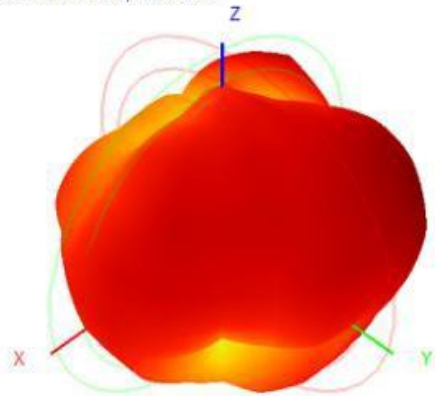
Total(H-XY), Max=-1.72dBi, CirD=11.47



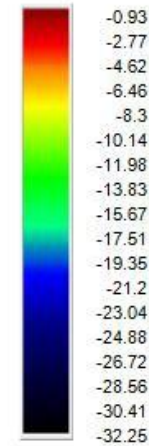
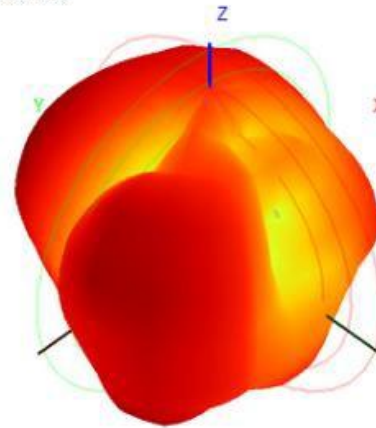
Test Result

2D&3D — BT- ANT

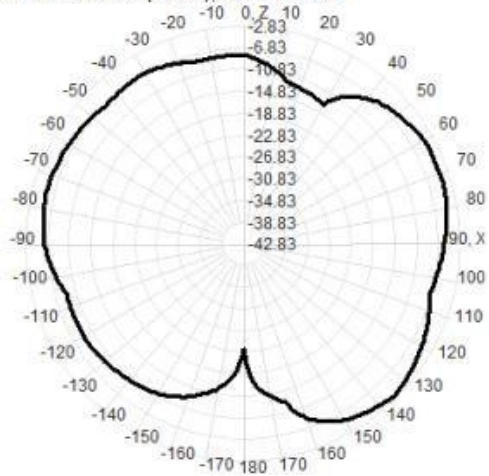
2500.0MHz H+V, Eff: 23.4%



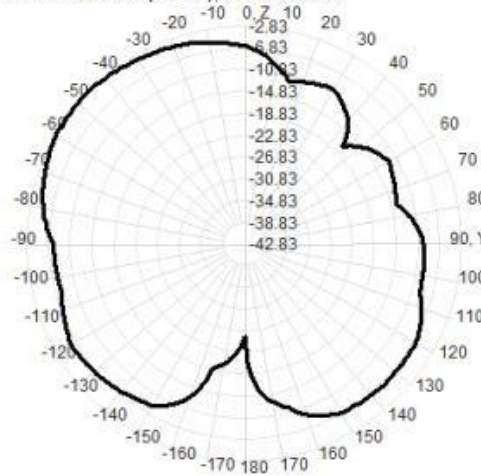
Back View



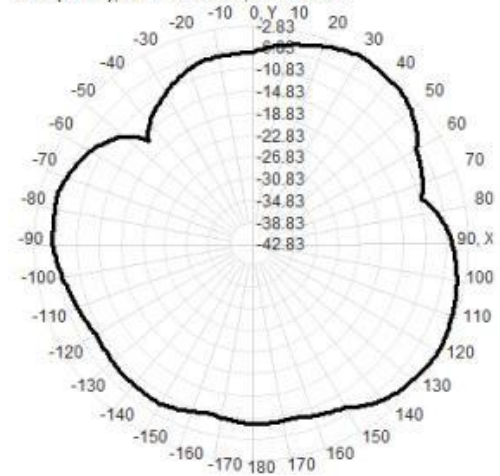
2500.0MHz Total(E1-XZ), Max=-3.61dBi



2500.0MHz Total(E2-YZ), Max=-2.83dBi



Total(H-XY), Max=-2.97dBi, CirD=13.00



Thanks for your comment!

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