

Product Overview & Dimension

Front



Purpose

This report is to measure the performance of BT antenna for **D1-183BT**. The antenna operating frequency at **2.4~2.5GHz**, All test data are showed as below.

Content

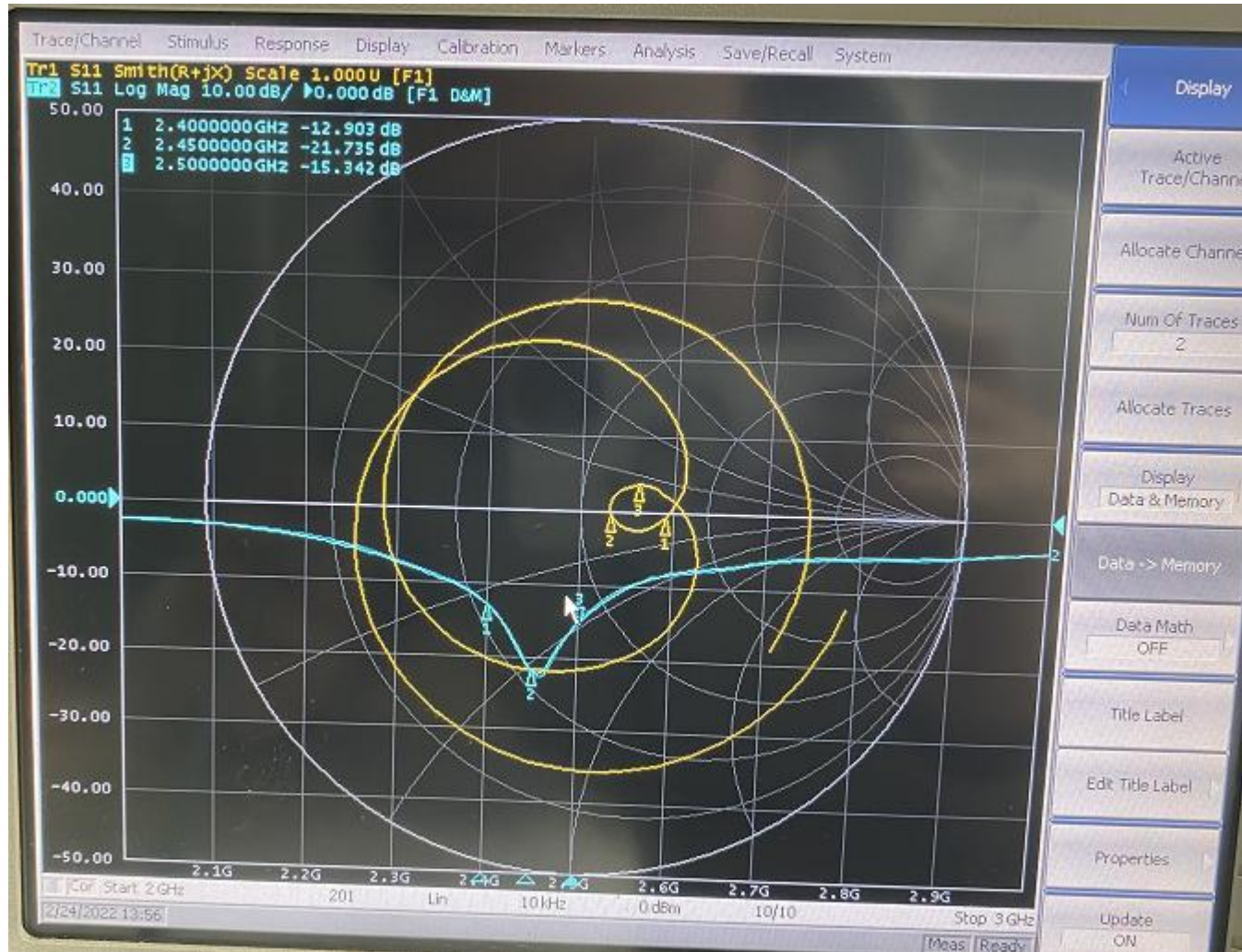
1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Test coordinate
 - 4.3 2D Pattern
 - 4.4 OTA Data
 - 4.5 BT Boot measured
5. Antenna Assembly & environmental processing

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)

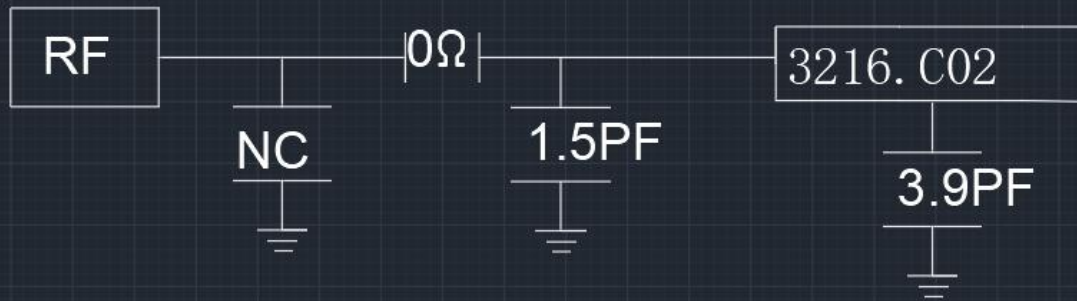


(L-R)

强声

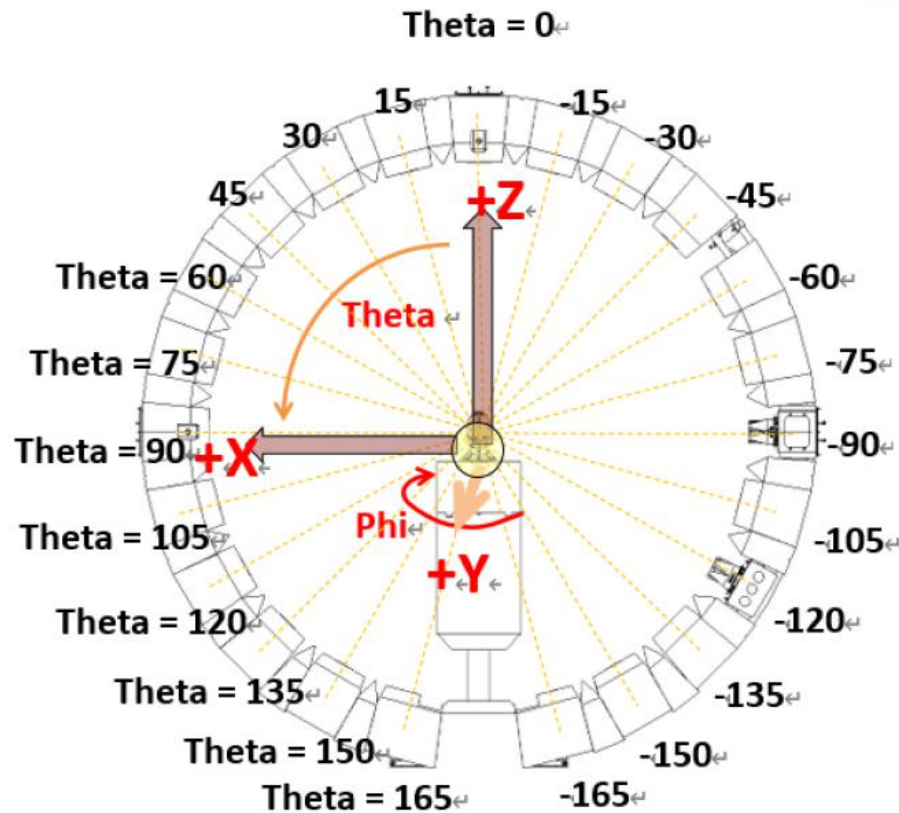
D1-183BT

2022. 02. 24



Test Result

Sample status & coordinates



Test Result

Gain & Efficiency — **BT- ANT(L/R)**

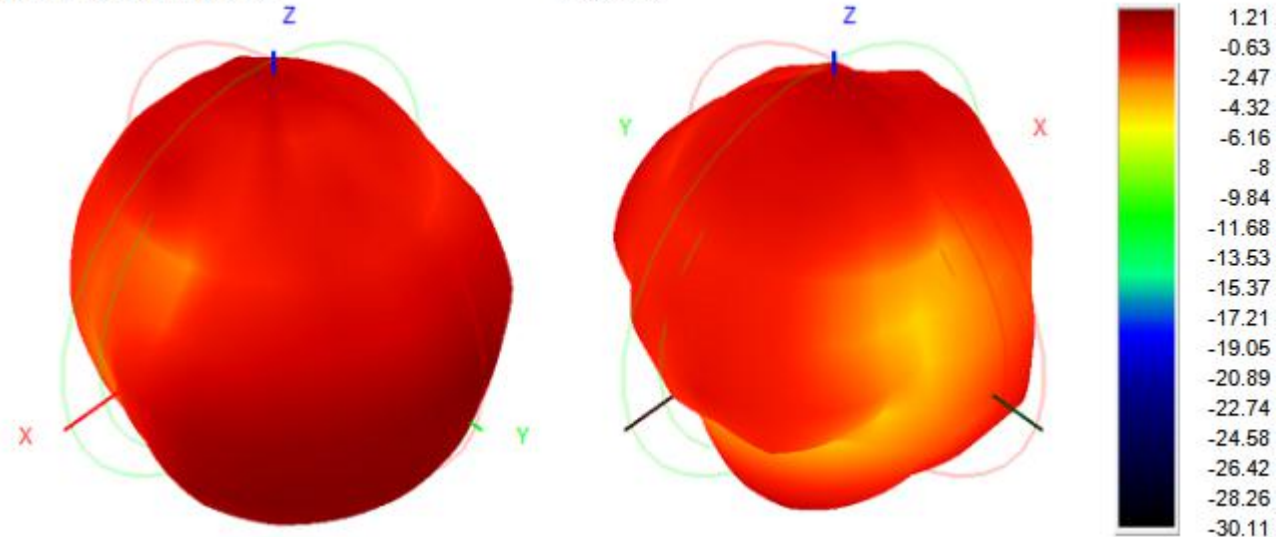
Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	44.80	1.21
2410	44.99	1.14
2420	47.18	1.71
2430	50.81	1.83
2440	53.35	1.85
2450	55.61	2.78
2460	56.63	2.47
2470	55.80	2.34
2480	52.83	2.70
2490	53.57	2.42
2500	52.81	2.47

Test Result

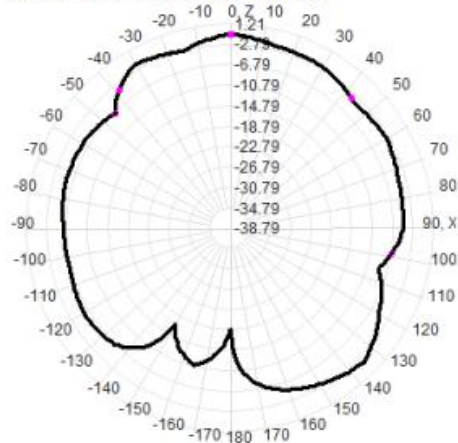
2D&3D — BT-ANT

2400.0MHz H+V, Eff: 44.8%

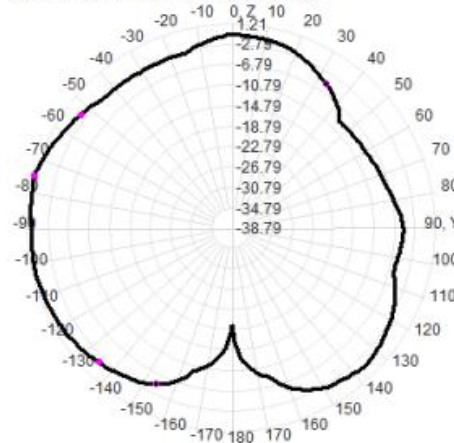
Back View



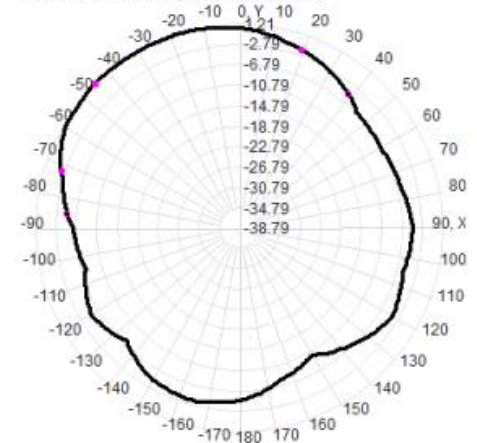
2400.0MHz Total(E1-XZ), Max= -0.83dBi



2400.0MHz Total(E2-YZ), Max= 1.16dBi



Total(H-XY), Max= 1.21dBi, CirD=11.58

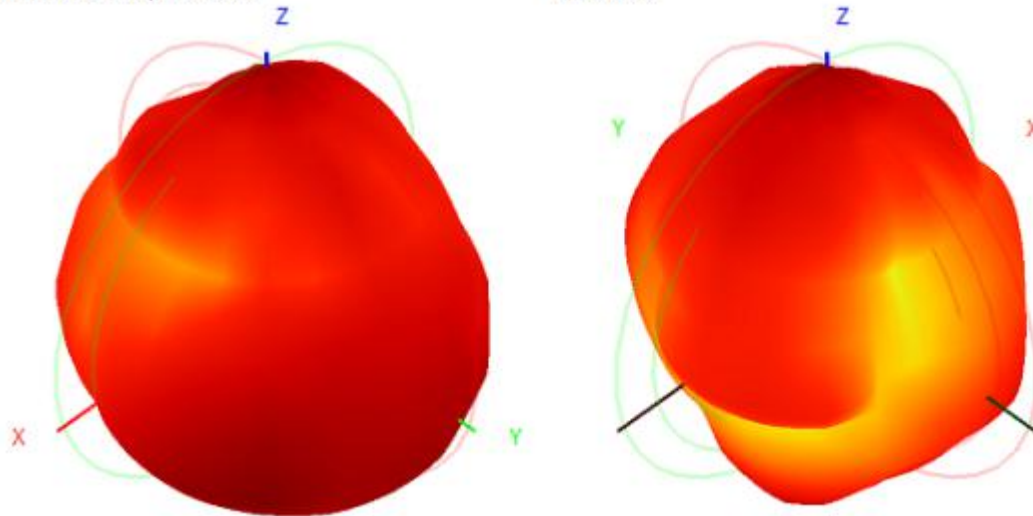


Test Result

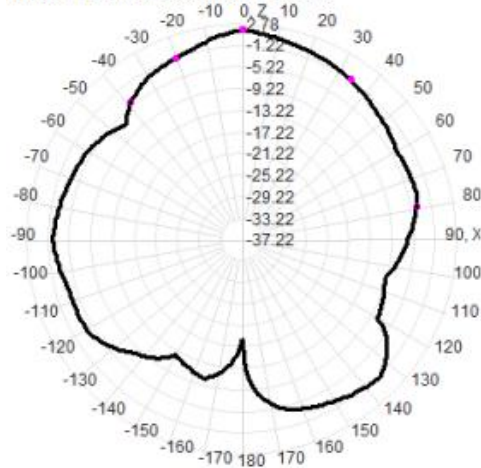
2D&3D — BT-ANT

2450.0MHz H+V, Eff: 55.6%

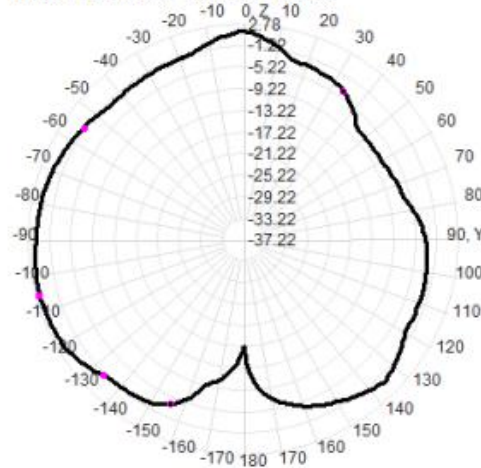
Back View



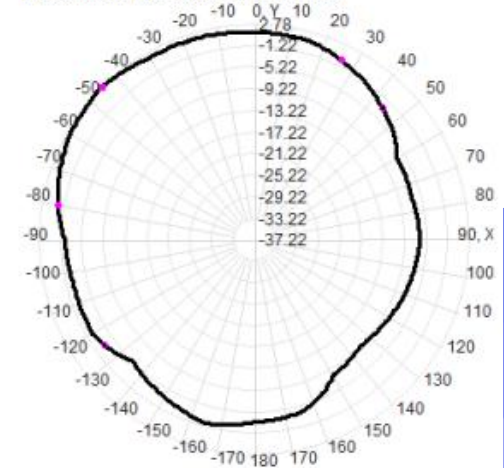
2450.0MHz Total(E1-XZ), Max= 1.65dBi



2450.0MHz Total(E2-YZ), Max= 2.00dBi



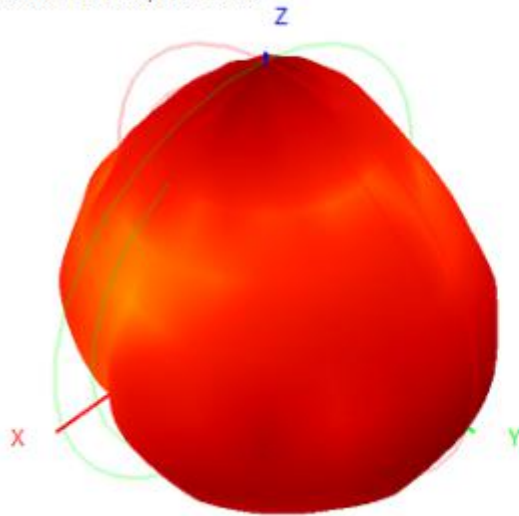
Total(H-XY), Max= 2.78dBi, CirD=12.26



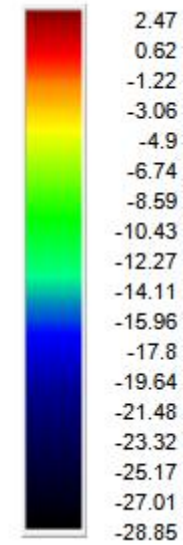
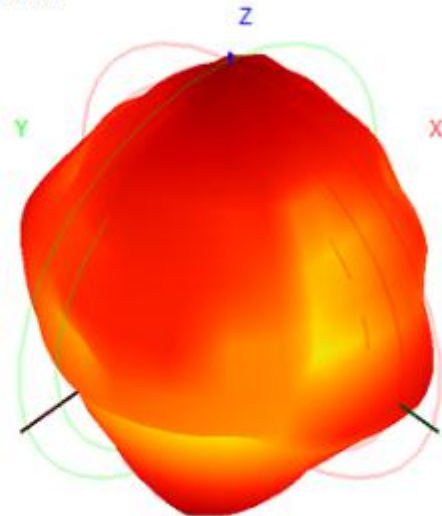
Test Result

2D&3D — BT- ANT

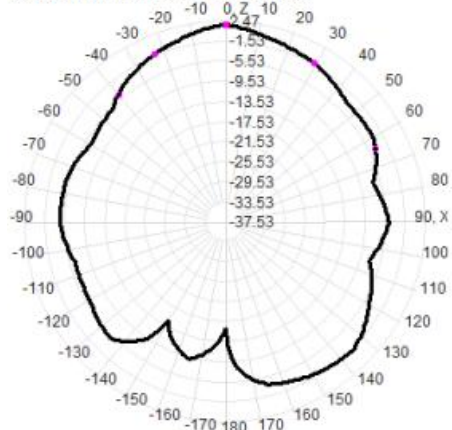
2500.0MHz H+V, Eff: 52.8%



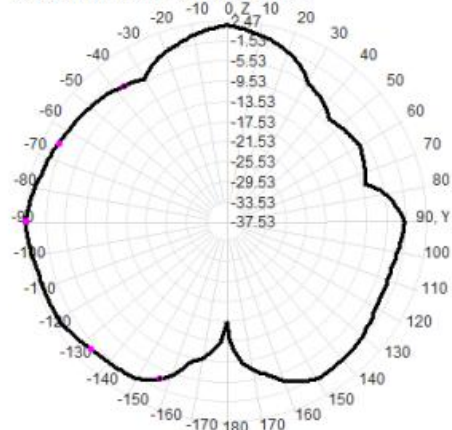
Back View



2500.0MHz Total(E1-XZ), Max= 1.69dBi



2500.0MHz Total(E2-YZ), Max= 2.47dBi



Total(H-XY), Max= 2.47dBi, CirD=9.30

