

R1256A Antenna Test Report

Customer	瑞禾
Project	R1256A
Antenna Revision	A1
Product Description	FPC
Product No	
DATE	2022. 04. 22

Product Overview & Dimension

Front

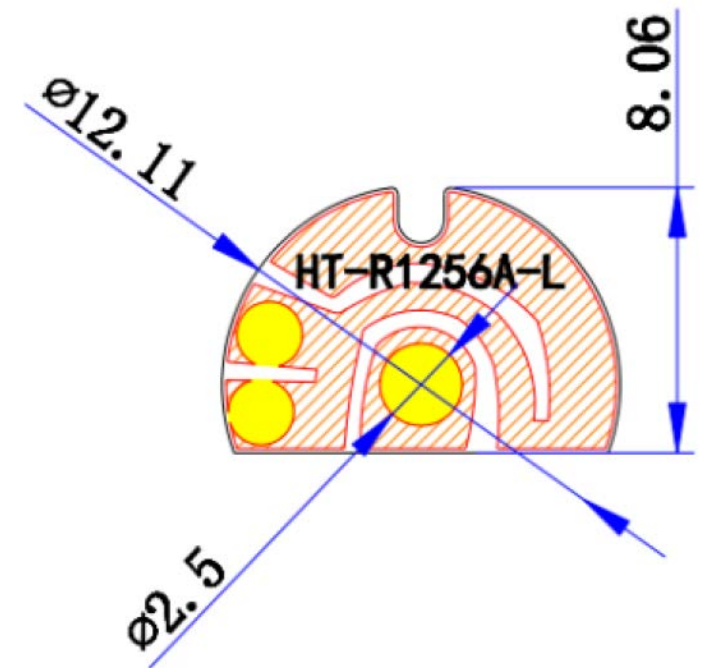


Purpose

This report is to measure the performance of BT antenna for R1256A. The antenna operating frequency at 2.4~2.5GHz, All test data are showed as below.

Content

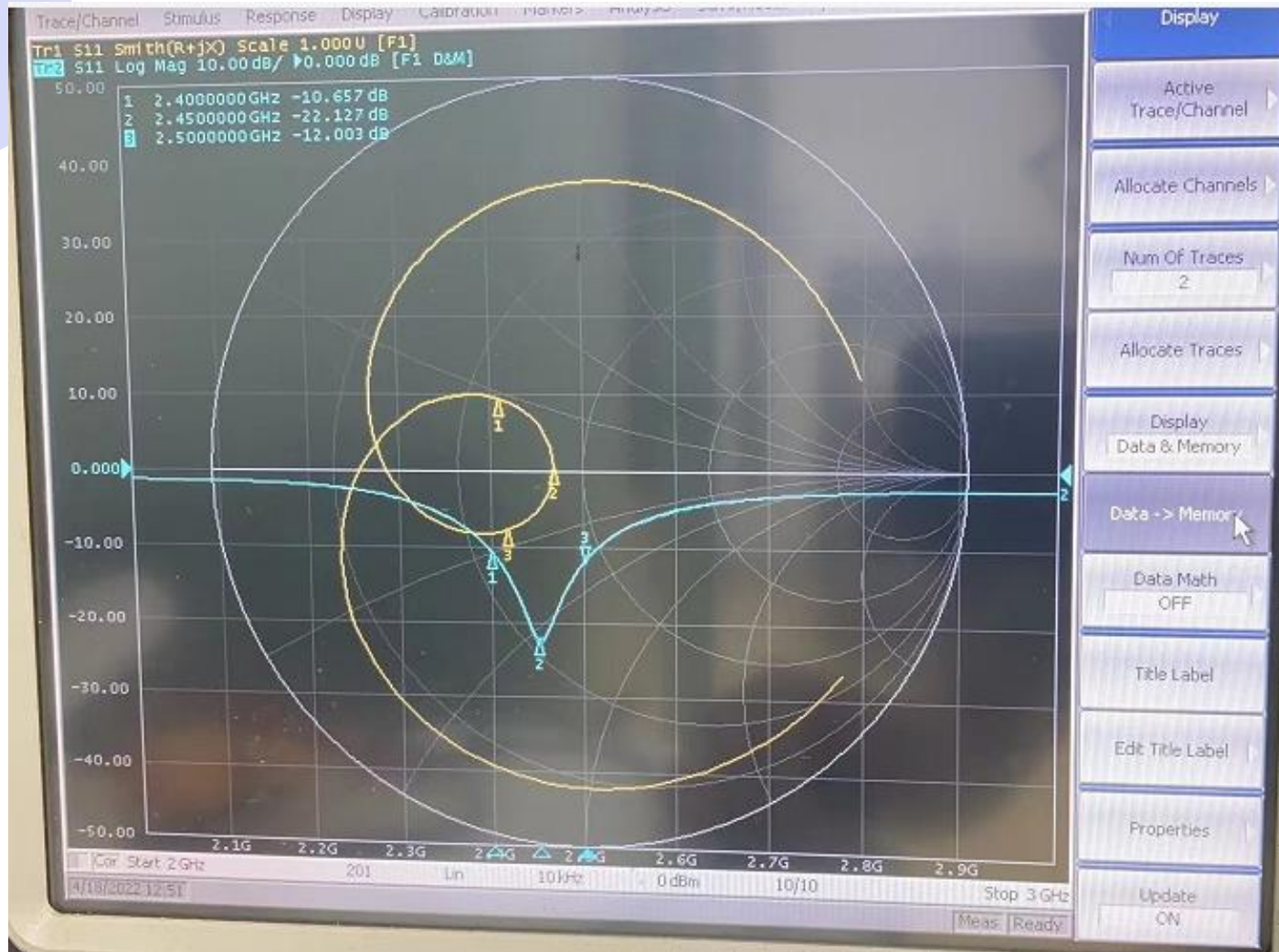
1. Product Overview & Dimension
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2. Test System

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

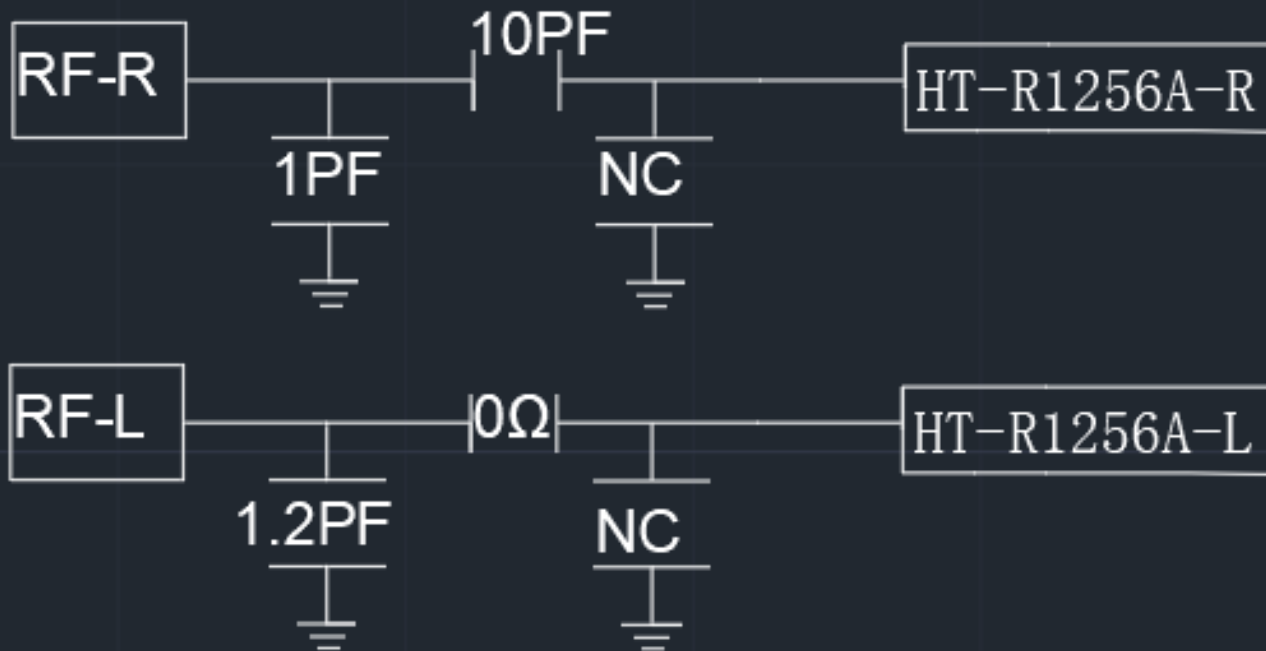


S11—(BT ANT)

瑞禾

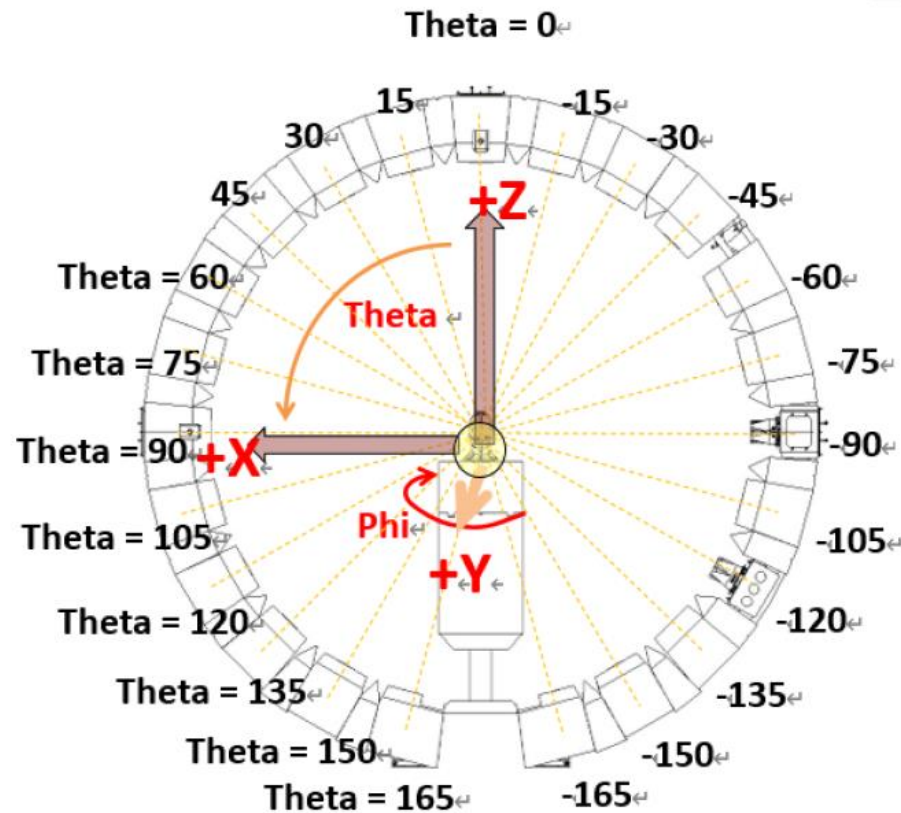
R1256A

2022.04.01



Test Result

Sample status & coordinates



Test Result

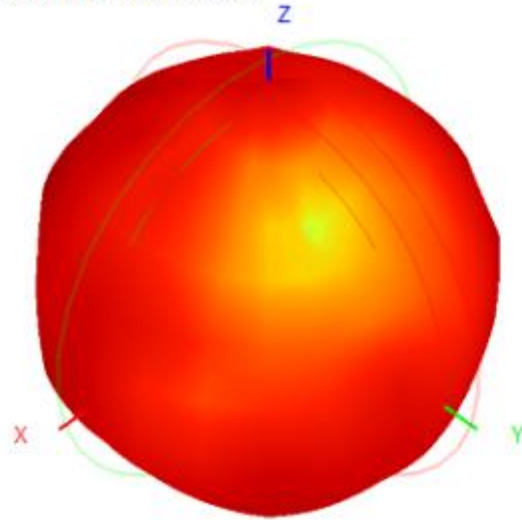
Gain & Efficiency——**BT- ANT(L/R)**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	28.63	1.49
2410	30.45	1.53
2420	31.28	1.43
2430	32.46	1.48
2440	33.12	1.21
2450	35.71	1.32
2460	34.19	1.57
2470	33.84	1.40
2480	33.74	1.55
2490	32.54	1.27
2500	31.68	1.15

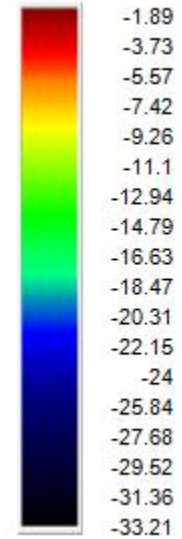
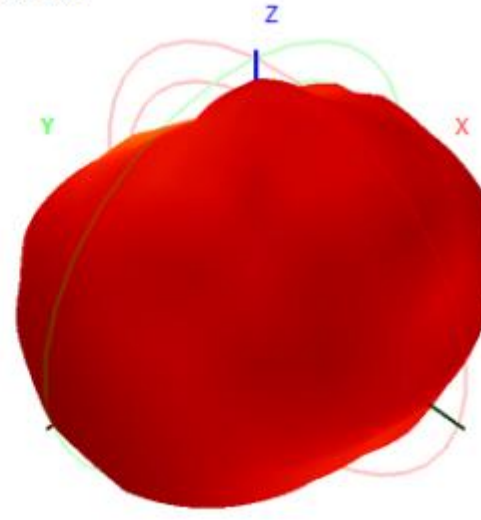
Test Result

2D&3D BT-ANT

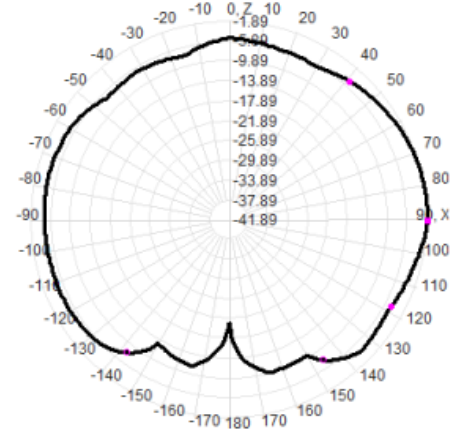
2400.0MHz H+V, Eff: 28.6%



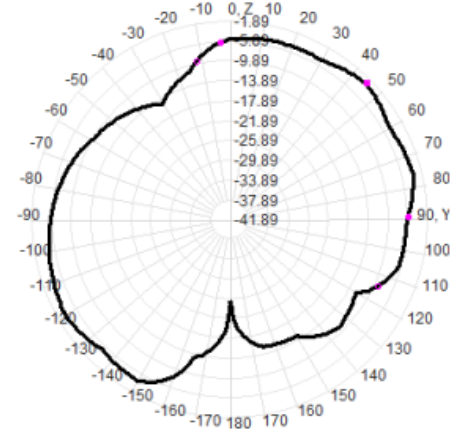
Back View



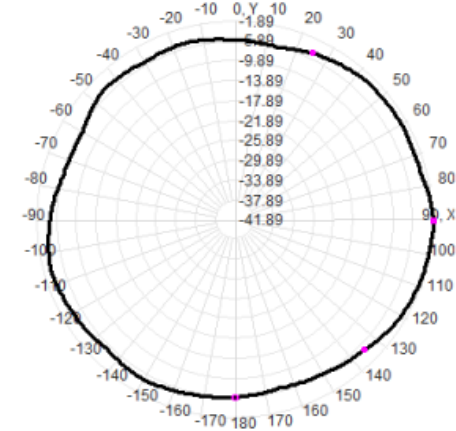
2400.0MHz Total(E1-XZ), Max=-1.89dBi



2400.0MHz Total(E2-YZ), Max=-3.11dBi



Total(H-XY), Max=-1.89dBi, CirD=5.08

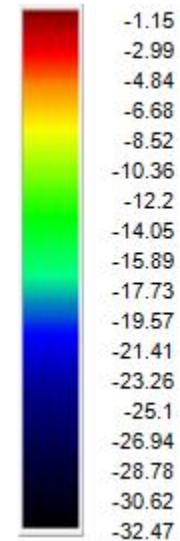
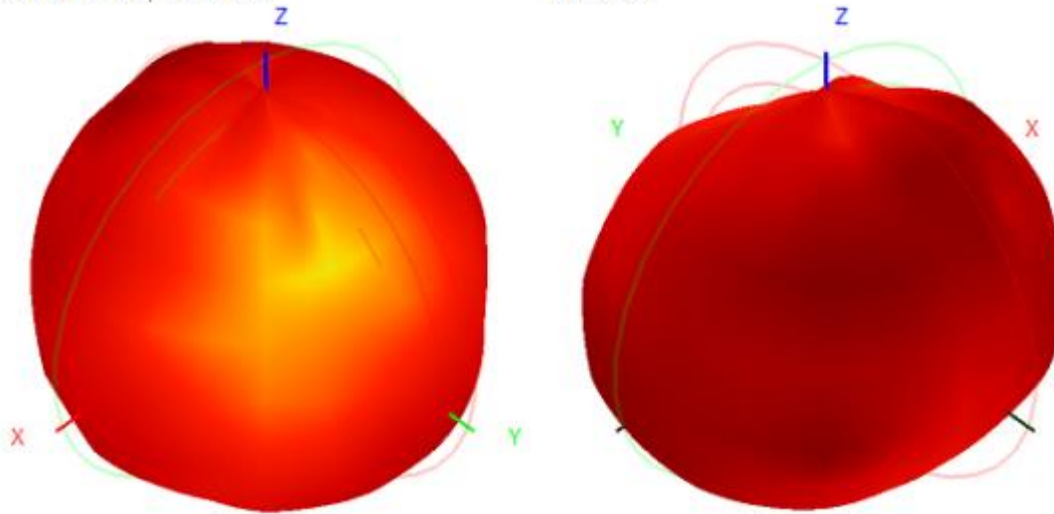


Test Result

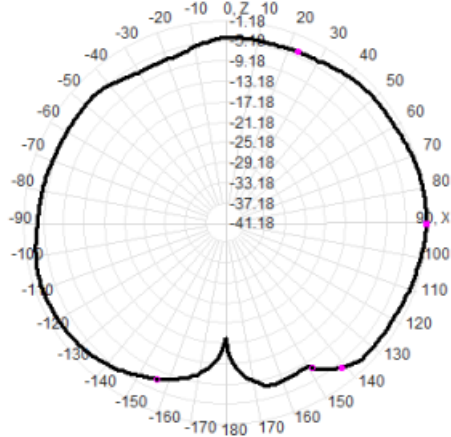
2D&3D — BT-ANT

2450.0MHz H+V, Eff: 37.2%

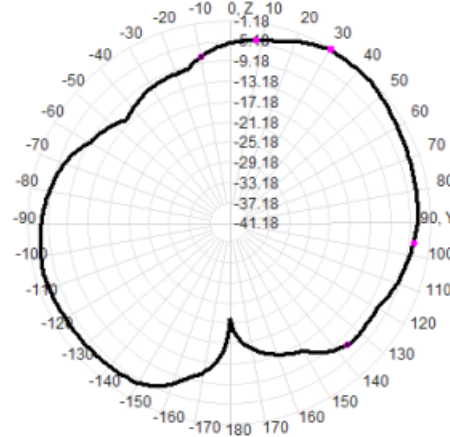
Back View



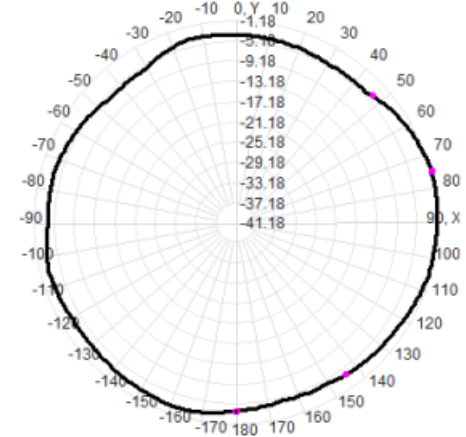
2450.0MHz Total(E1-XZ), Max= -1.43dBi



2450.0MHz Total(E2-YZ), Max= -1.58dBi



Total(H-XY), Max= -1.18dBi, CirD=5.08

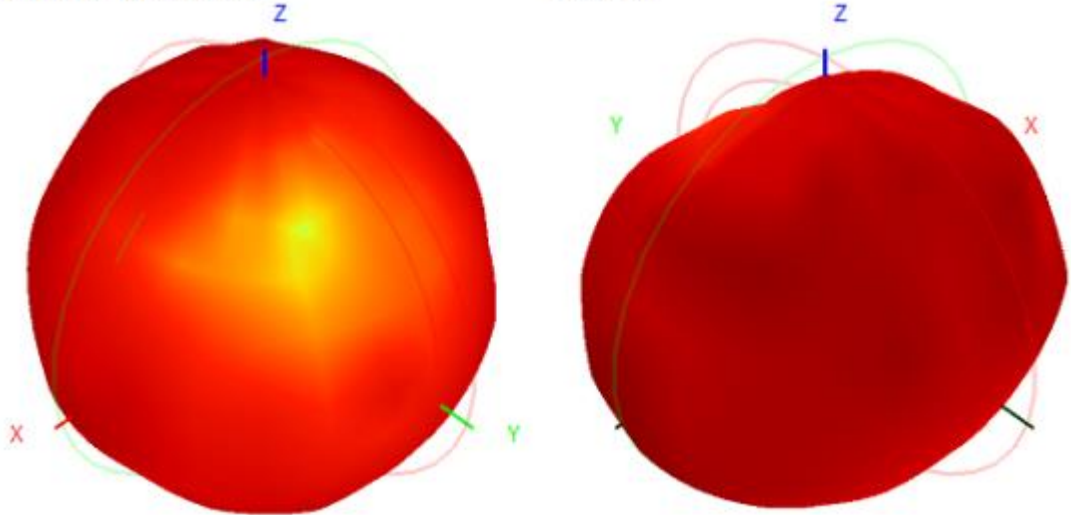


Test Result

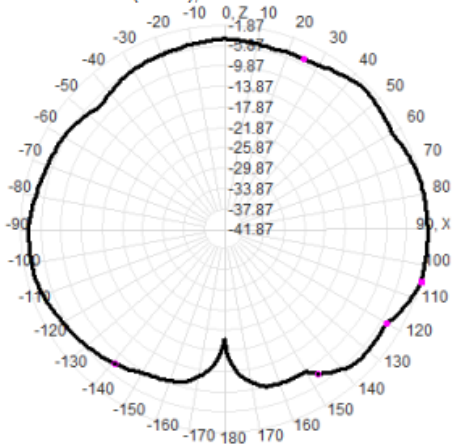
2D&3D — BT-ANT

2500.0MHz H+V, Eff: 31.6%

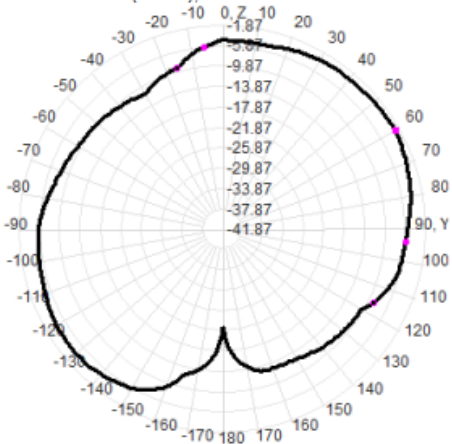
Back View



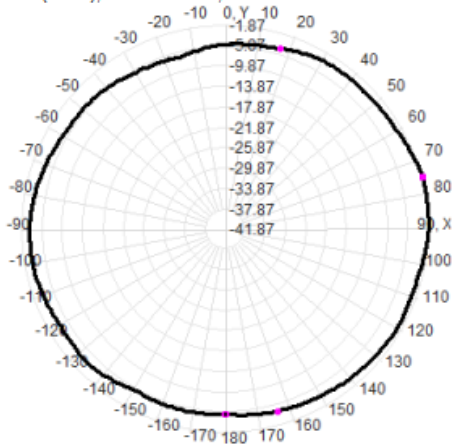
2500.0MHz Total(E1-XZ), Max=-1.93dBi



2500.0MHz Total(E2-YZ), Max=-2.91dBi



Total(H-XY), Max=-1.87dBi, CirD=5.19



Thanks for your comment!

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- ◆ RF: Hu Xuewen