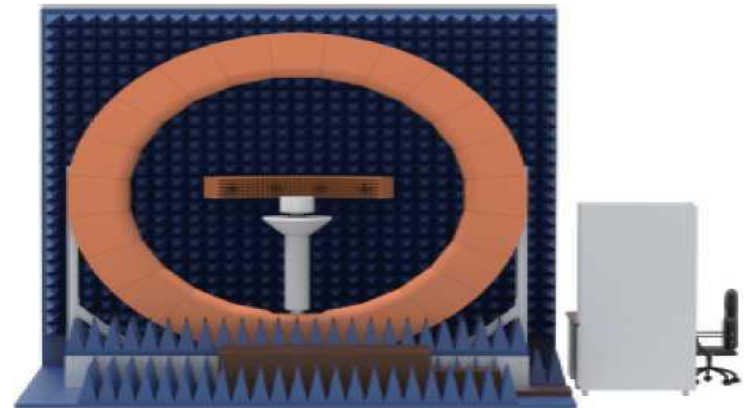




Customer	星辰
Project	F20
Antenna Revision	A0
Prepared by	18814303605
Checked by	
Date :	2026. 04. 02

2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C



Purpose

This report is to measure the performance of antenna for (F20) The antenna operating frequency at 2400MHz0-2500MHz 。 All test data are showed as below.

Content

1. Product Overview & Dimension

2. Test system

3. Test Result

3.1 S11 Parameter

3.2 Gain & Efficiency

3.3 2D Pattern

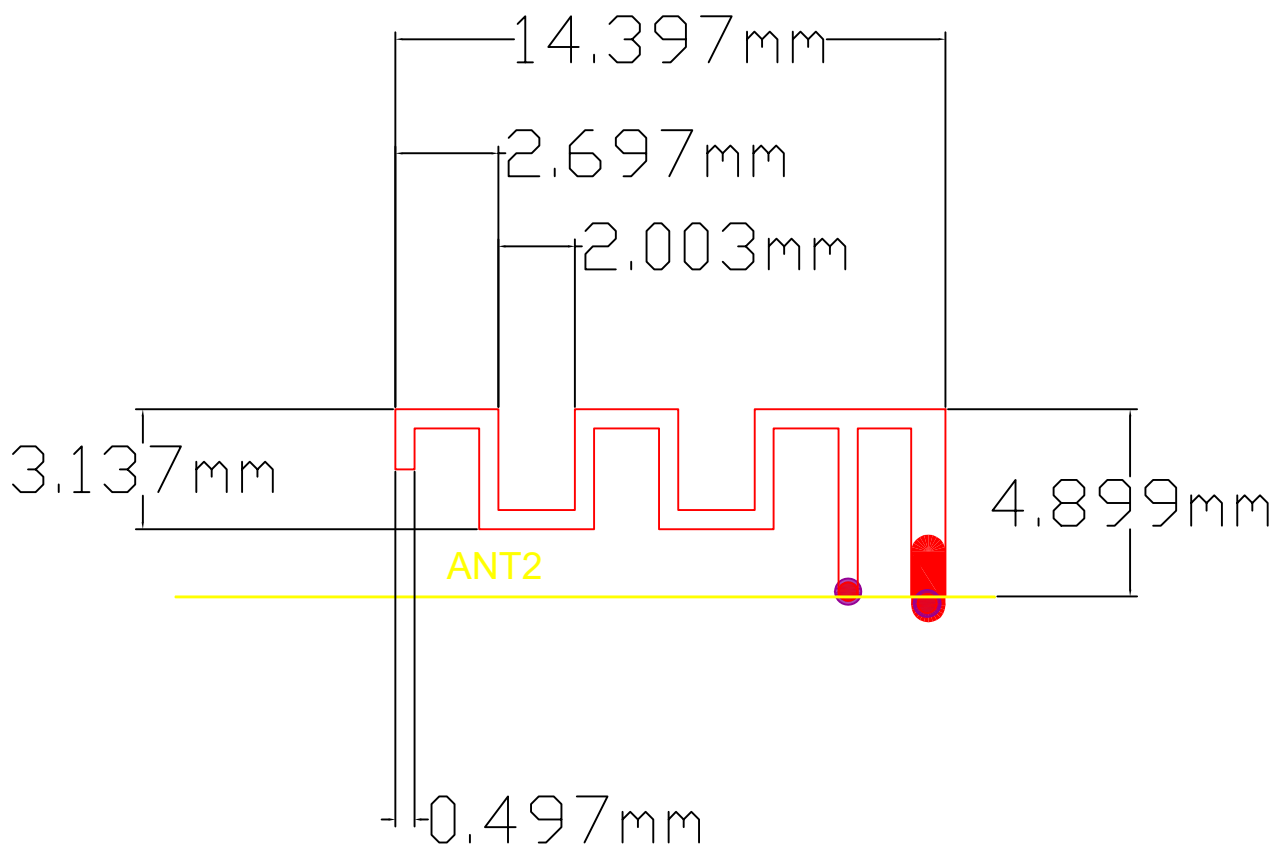
4. OTA

4.1 Test Result

4.2 2D Pattern

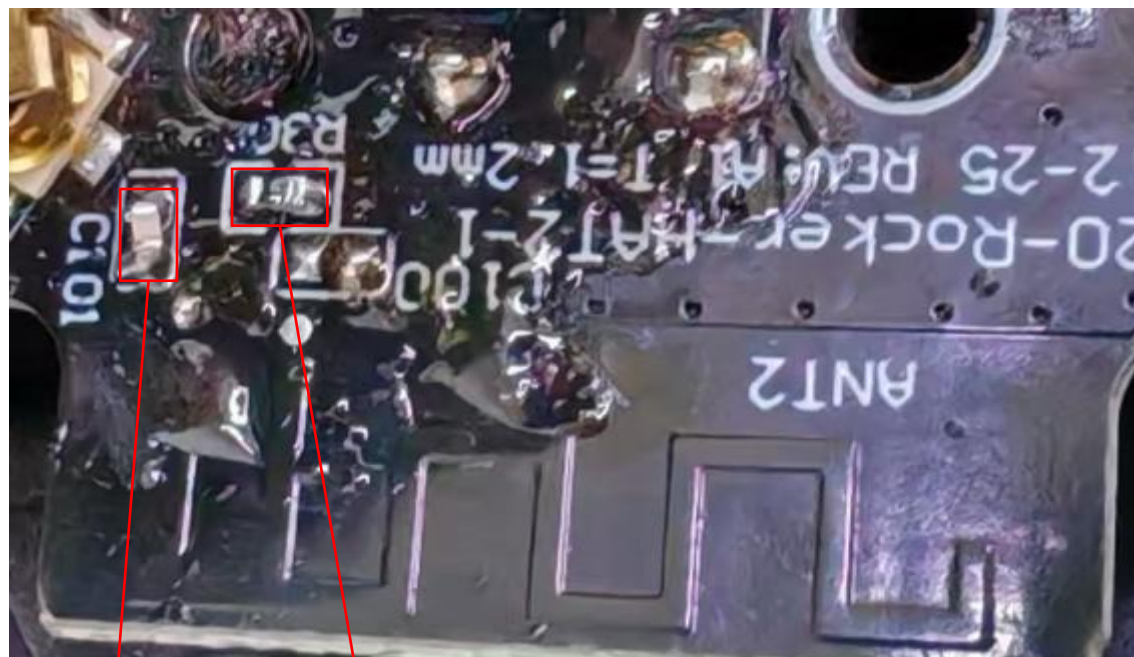


F20--Antenna Size



Manufacturer: QIAOHE ELECTRONICS CO., LTD.

Address: Dongxing (Private) Industrial Park, Qishi Town,
Dongguan, Guangdong, China

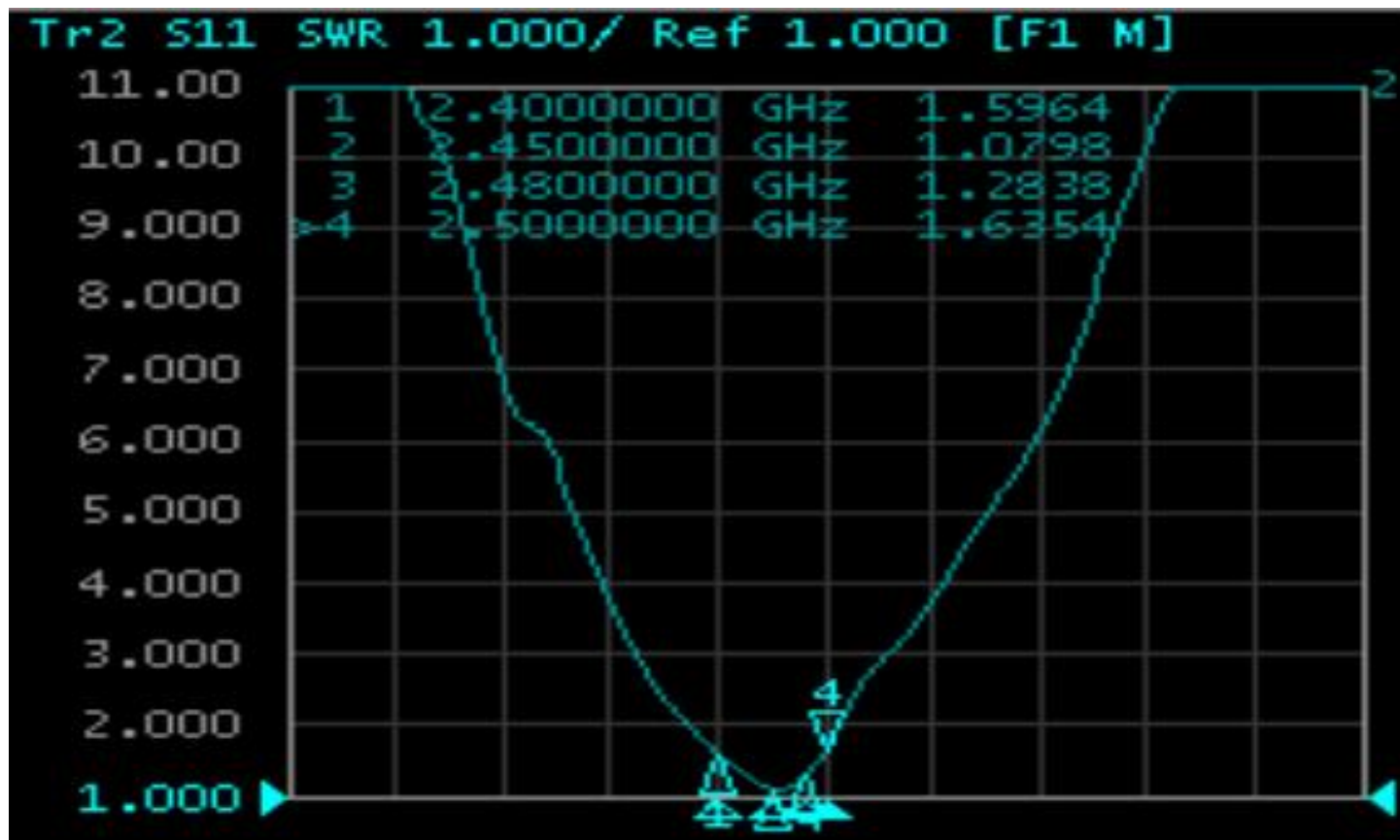


0.8P

0R

3.1 Test Result

1 .S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.59	1.07	1.28	1.63

3.1 Test Result

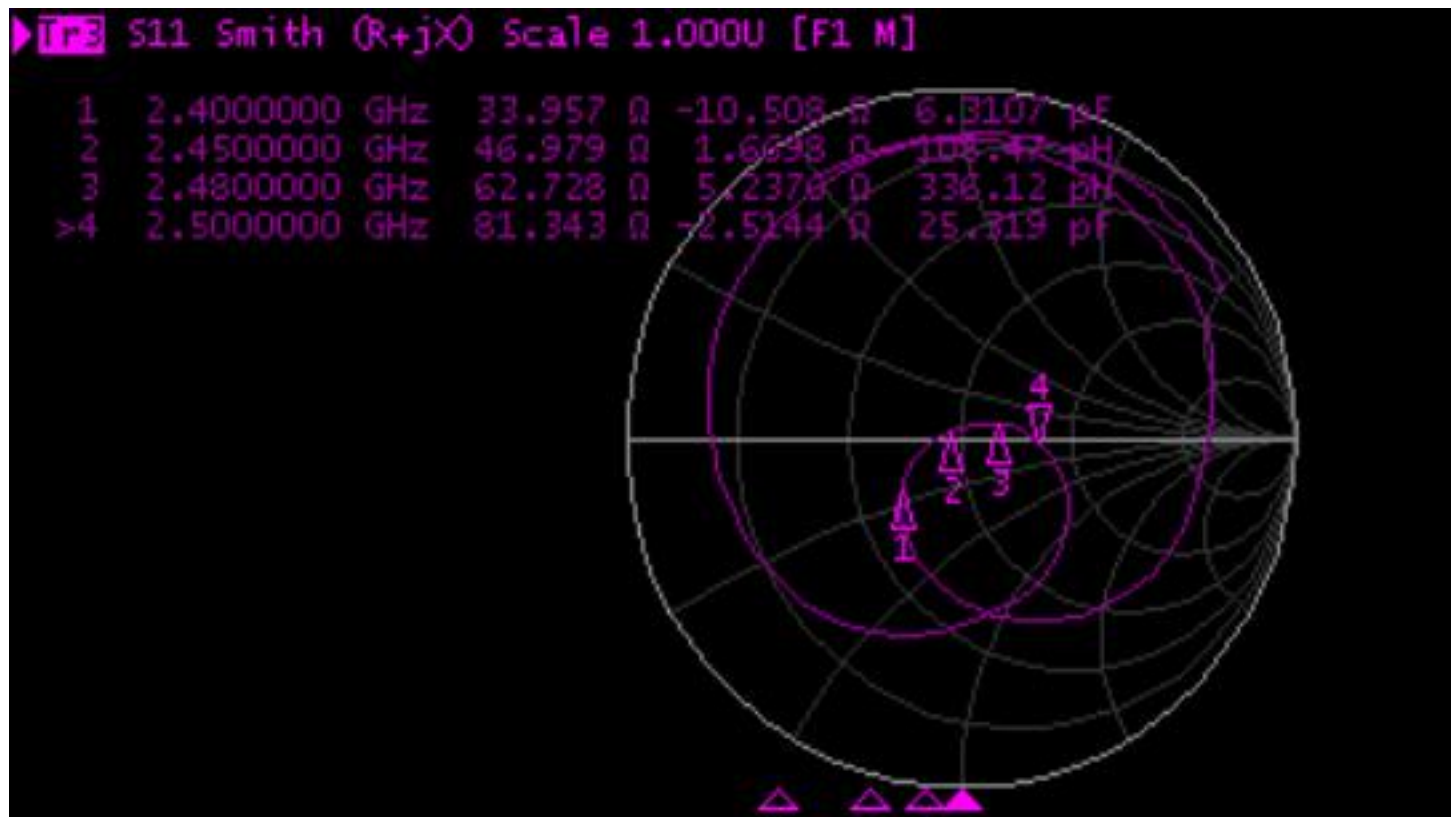
2. S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-12.88	-28.89	-18.26	-12.41

3.1 Test Result

3.S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smith(Ω)	33.95	46.97	62.72	81.34

3.2 Test Result

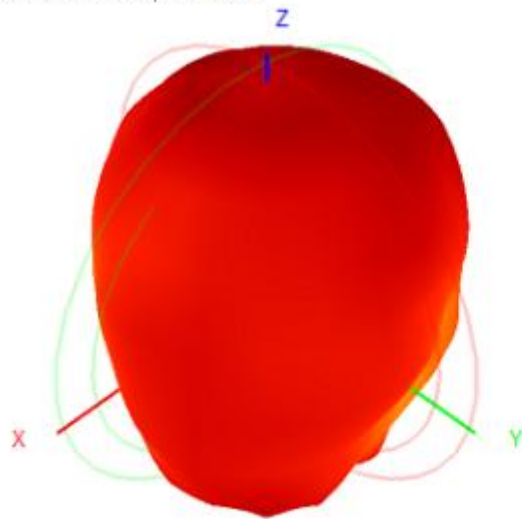
1 Gain & Efficiency—**ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	56.24	2.77
2410	55.78	2.11
2420	54.89	2.05
2430	54.41	2.05
2440	53.71	1.80
2450	53.64	1.52
2460	53.42	1.24
2470	53.13	0.80
2480	52.63	0.63

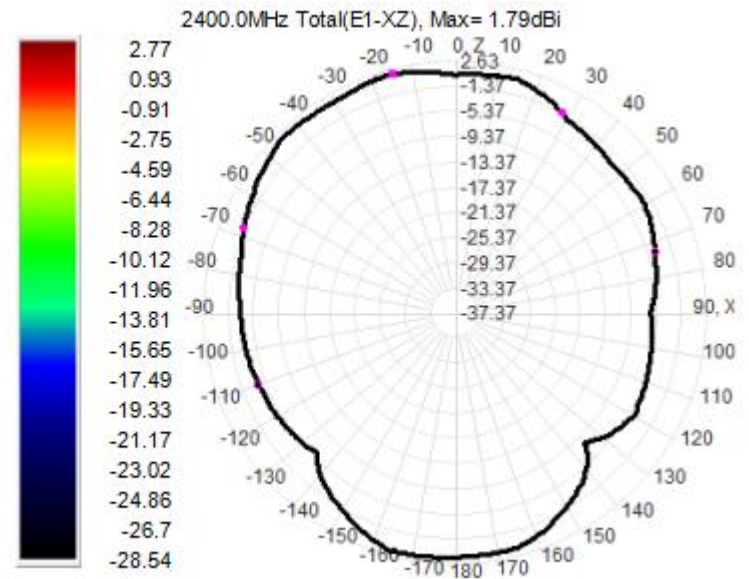
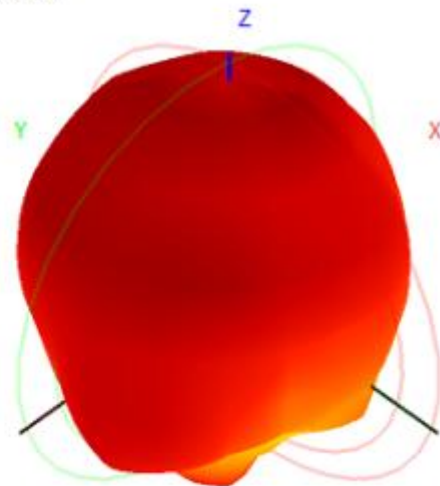
3.3 Test Result

1 2D Pattern——BTANT

2400.0MHz Total, Eff: 56.2%



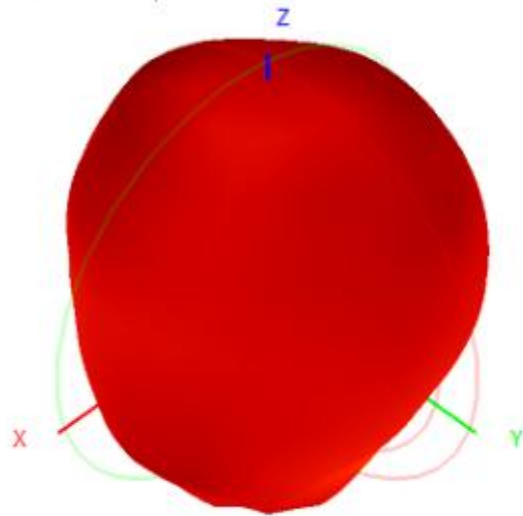
Back View



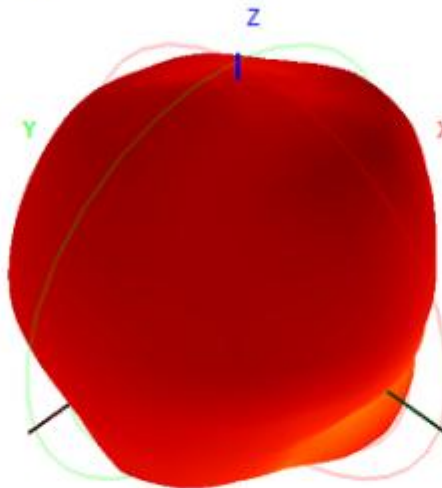
3.3 Test Result

2 2D Pattern—BTANT

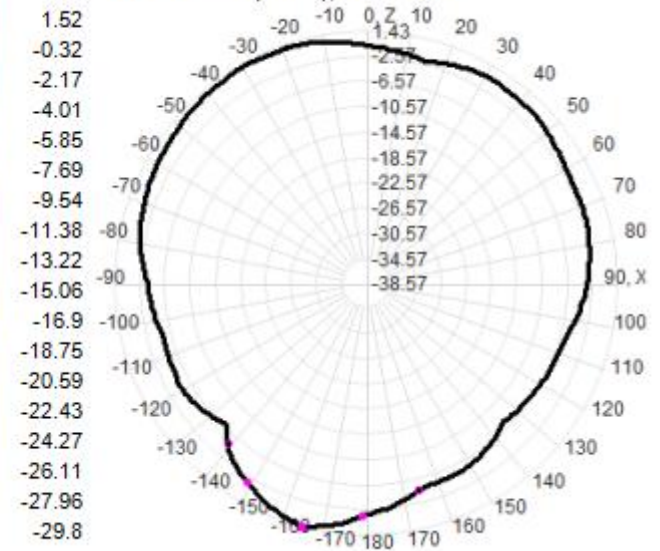
2450.0MHz Total, Eff: 53.6%



Back View



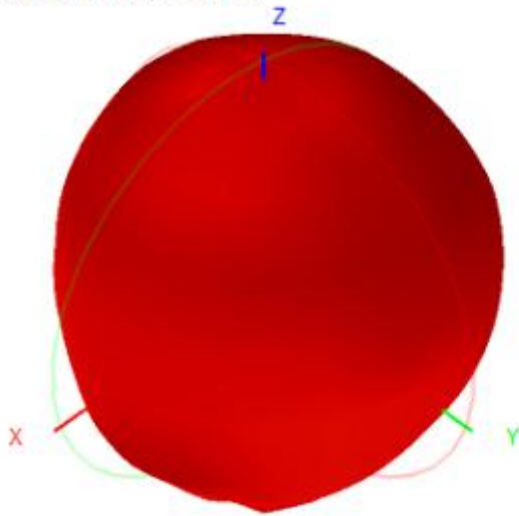
2450.0MHz Total(E1-XZ), Max= 1.09dBi



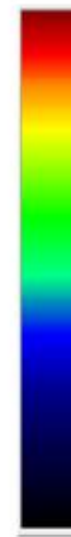
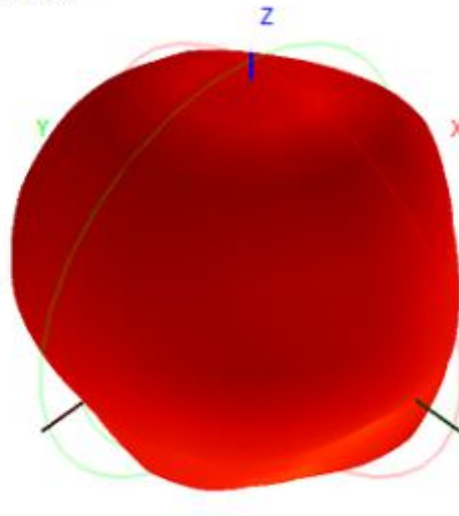
3.3 Test Result

3 2D Pattern—BTANT

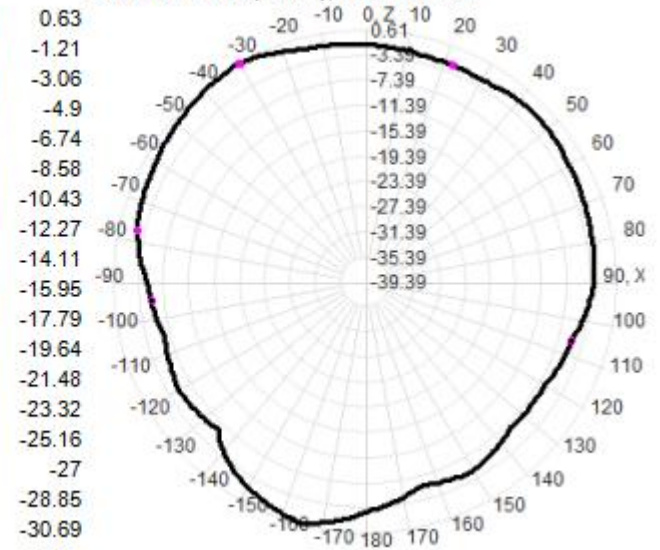
2480.0MHz Total, Eff: 52.6%



Back View



2480.0MHz Total(E1-XZ), Max= 0.61dBi



Thank you!