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WIFI Antenna Test Report



Manufacturer information	Shenzhen Feixun Lianke Electronics Co., Ltd
Project	C298 2.4G antenna
Antenna type	monopole antenna
Product Description	Three white flat antennas, color code 81831/82200, PCB board FXLK-PB78 * 8.3-3DB-2.4G V1.2, wire diameter 1.13, bus length 325mm, exposed 250mm, black, client is 1st generation terminal, solder board end is 1:2:3
Product No	BSJT14020A-IX0-250-2.4G
Antenna frequency band	2400MHz-2500MHz

October 4th, 2023

Purpose

This report is to measure the performance of antenna for All test date are showed as below.

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2: Test Result

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2.4 GAIN & Efficiency

2.5 *2D & 3D Directional pattern*

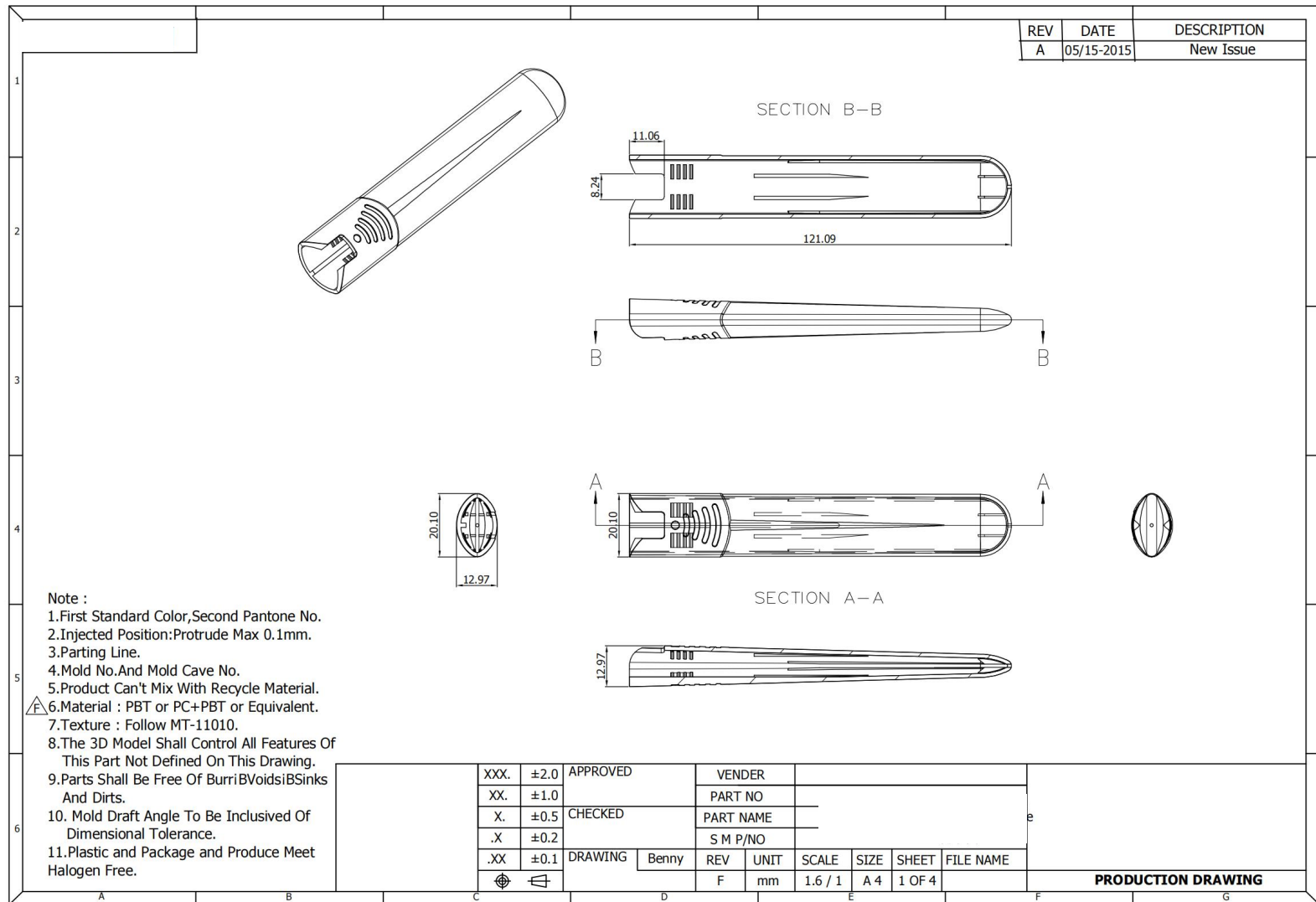
1. Product Overview

1.1 Antenna schematic diagram



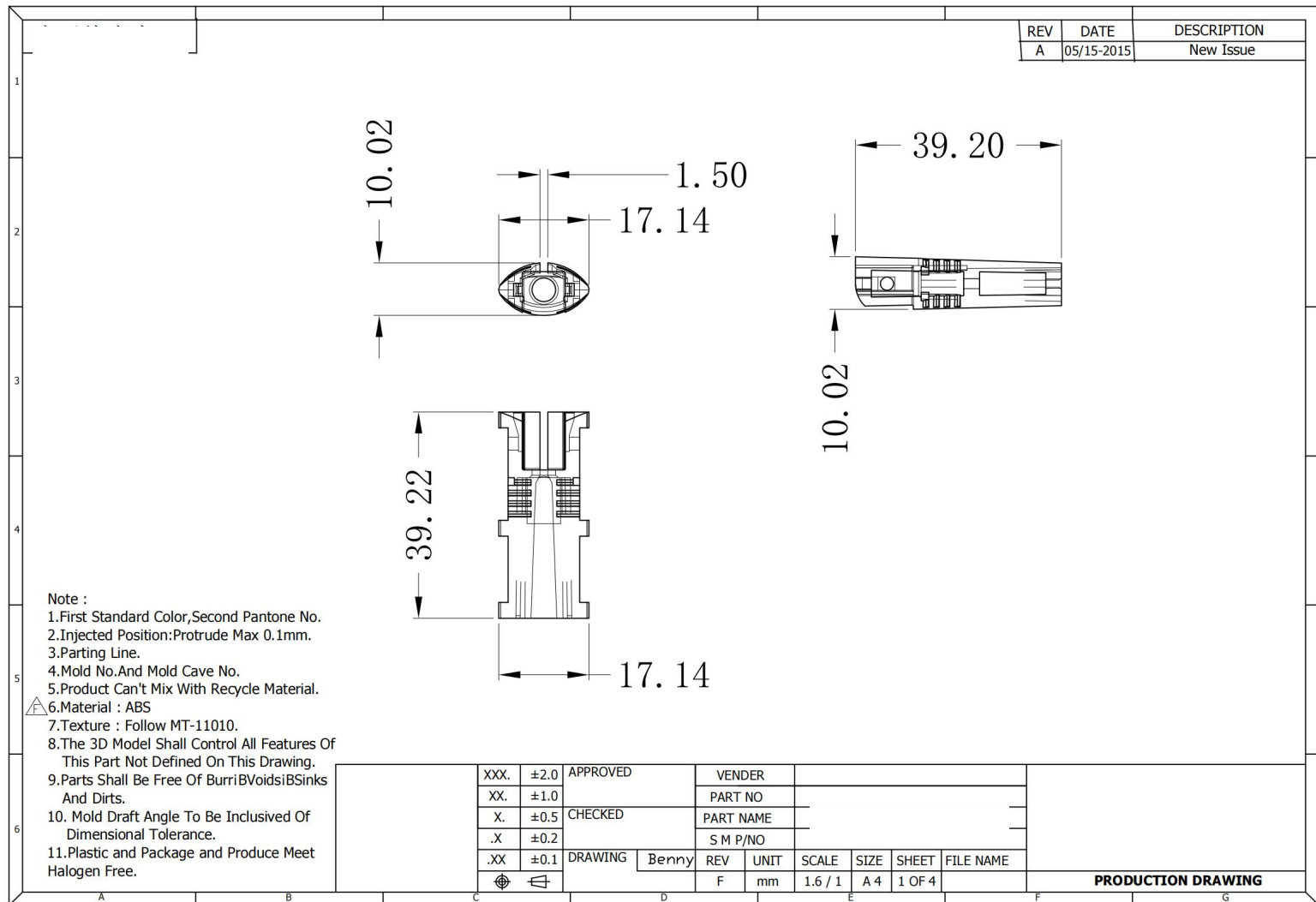
1. Product Overview

1.2 Dimensional drawing of antenna shell material



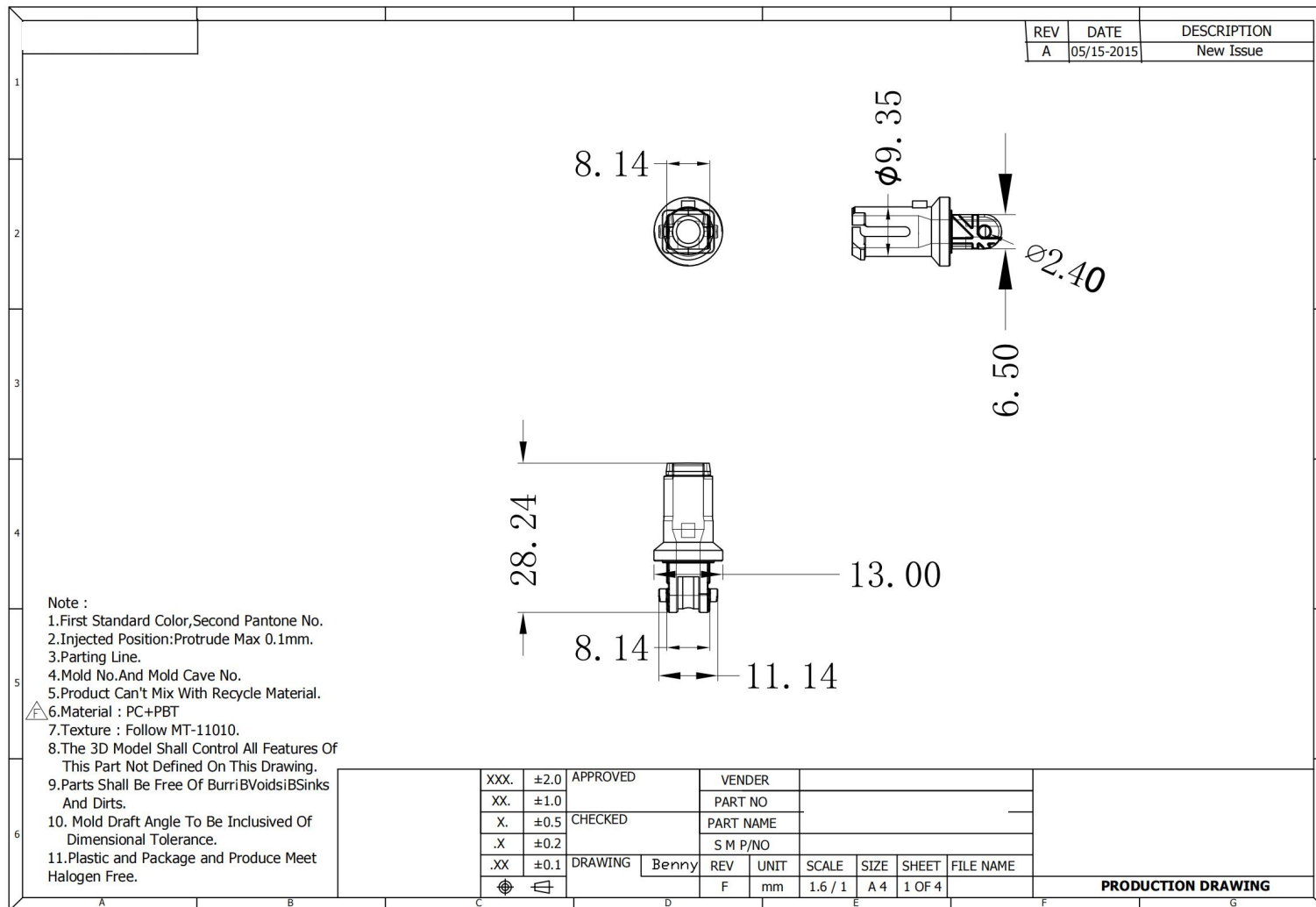
1. Product Overview

1.2 Dimensional drawing of antenna shell material



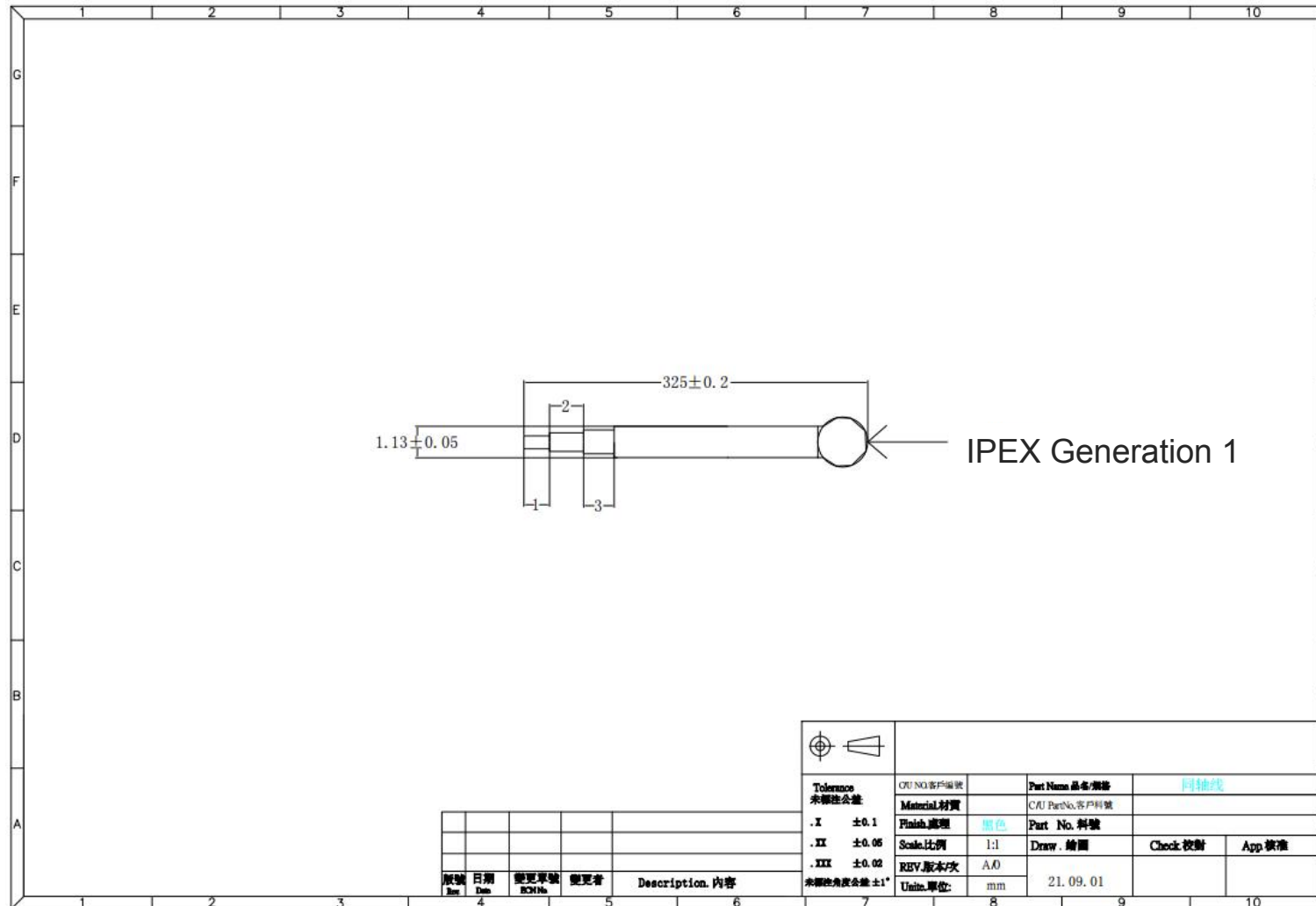
1. Product Overview

1.2 Dimensional drawing of antenna shell material



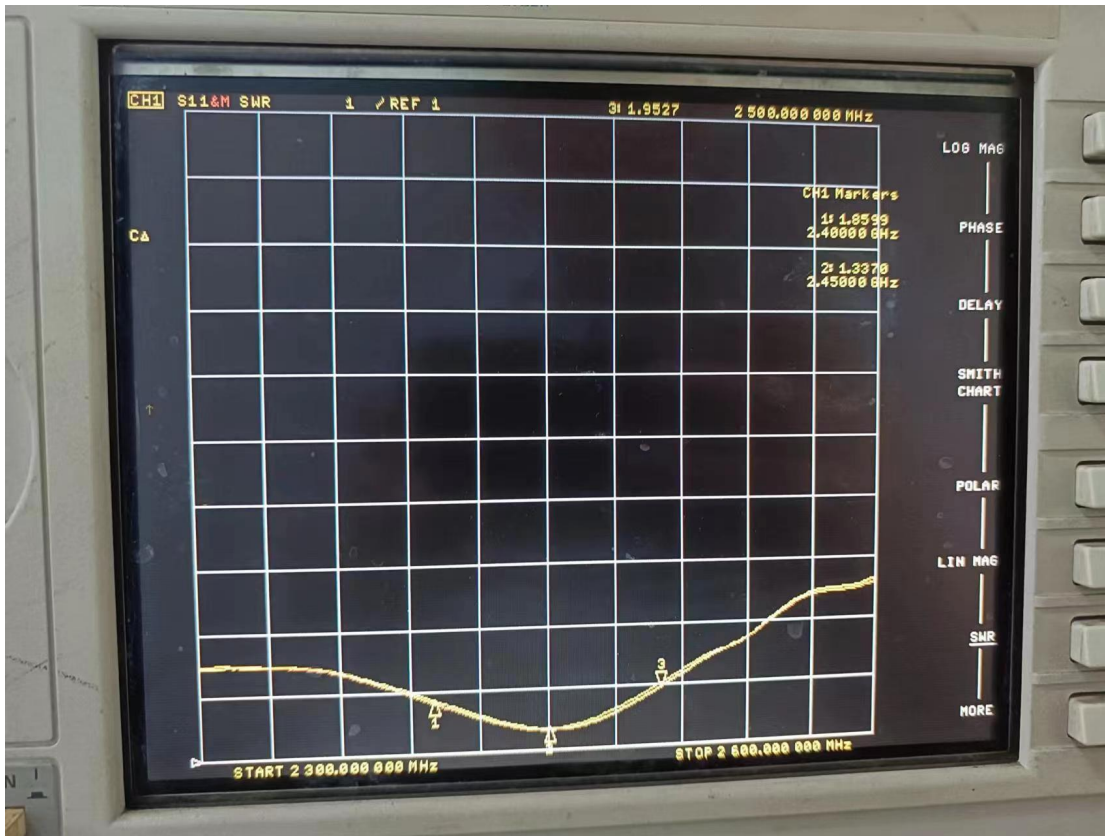
1. Product Overview

1.2 Dimensional drawing of antenna coaxial line



2. Test Result

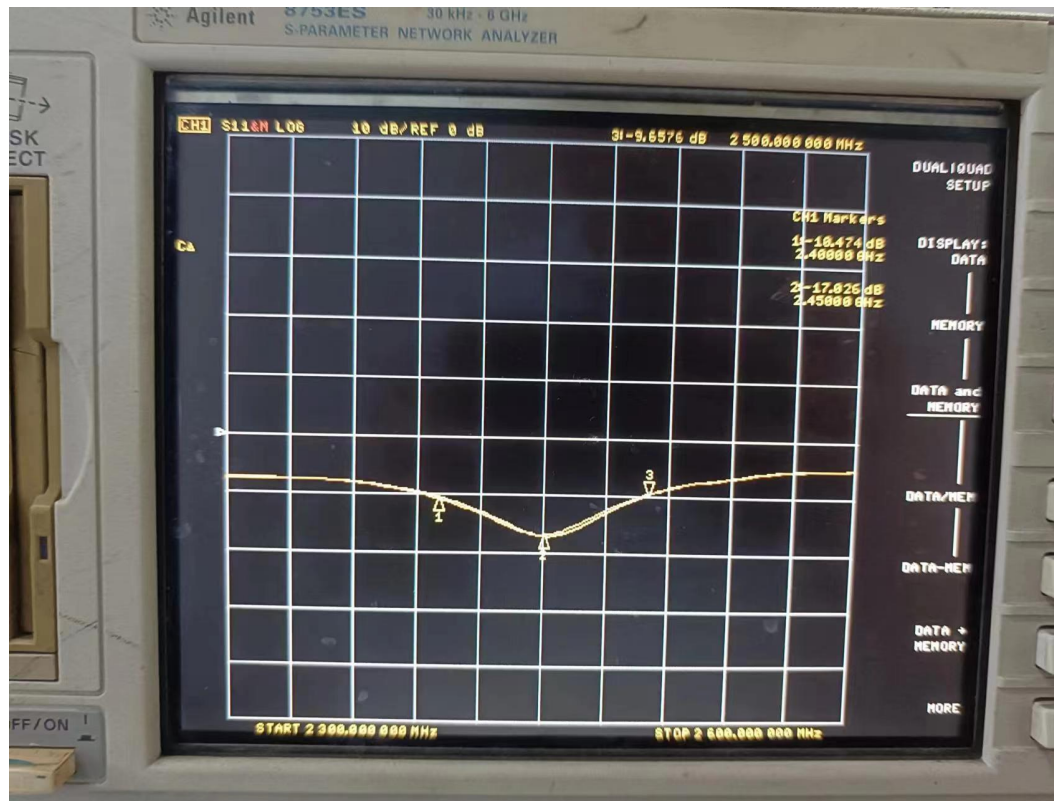
2.1 2.4G antenna VSWR



Frequency (MHz)	2400	2450	2500
VSWR	1.85	1.33	1.95

2. Test Result

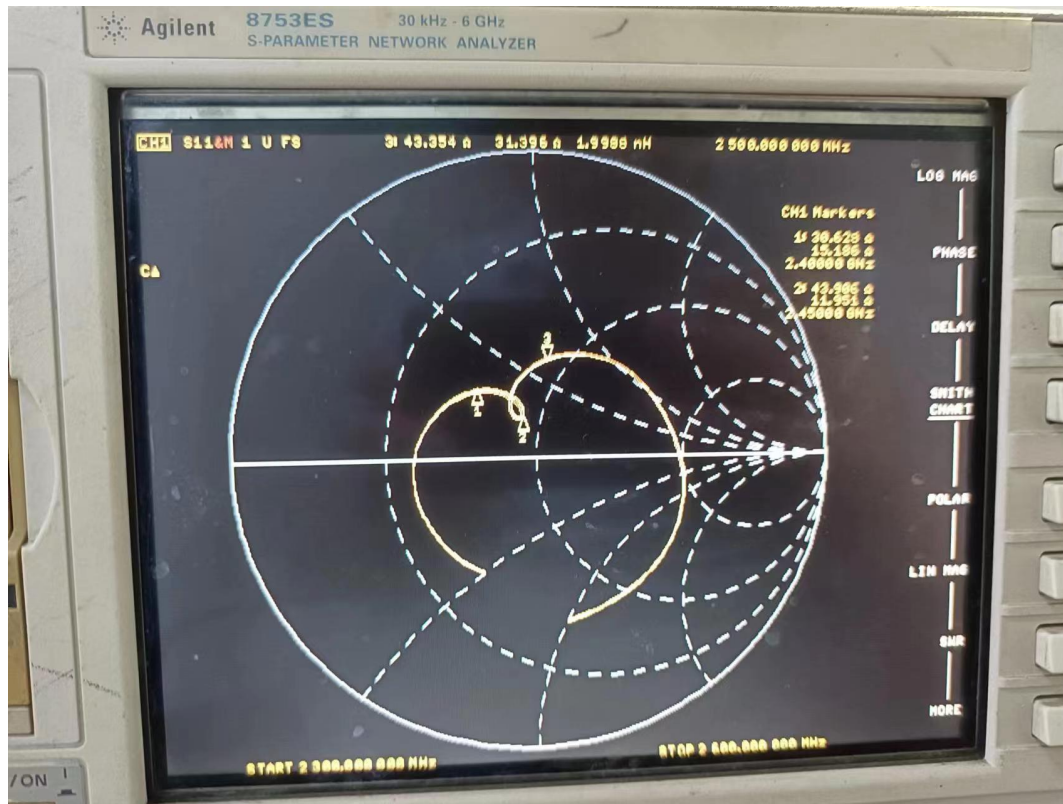
2.2 2.4G antenna RETRUN LOSS



Frequency (MHz)	2400	2450	2500
RETRUN LOSS (DB)	-10.47	-17.02	-9.65

2. Test Result

2.3 2.4G antenna Smith Chart



Frequency (MHz)	2400	2450	2500
	30.62	43.90	43.35

2. Test Result

2.4 2.4G antenna *GAIN & Efficiency*

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	52.18	-2.83	2.83
2410	50.51	-2.97	2.82
2420	44.98	-3.47	2.48
2430	47.47	-3.24	2.92
2440	45.25	-3.44	2.98
2450	46.25	-3.35	3.37
2460	47.73	-3.21	3.62
2470	43.7	-3.6	3.34
2480	47.05	-3.27	3.77
2490	46.05	-3.37	3.74
2500	45.79	-3.39	3.68

2. Test Result

2.5 2.4G antenna 2D & 3D Directional pattern

