



Signal Plus Technology Co., Ltd.

SPECIFICATION FOR APPROVAL

DATE: 2024.11.04

REV.: A

CUSTOMER: Shenzhen Fugao Technology Co.,Ltd

CUSTOMER P/N: External black WiFi 2.4GHz antenna with 1.37mm black cable, L=190mm, with RF connector

PART NAME: 6346F00001

SUPPLIER P/N:

Q'TY: Pcs

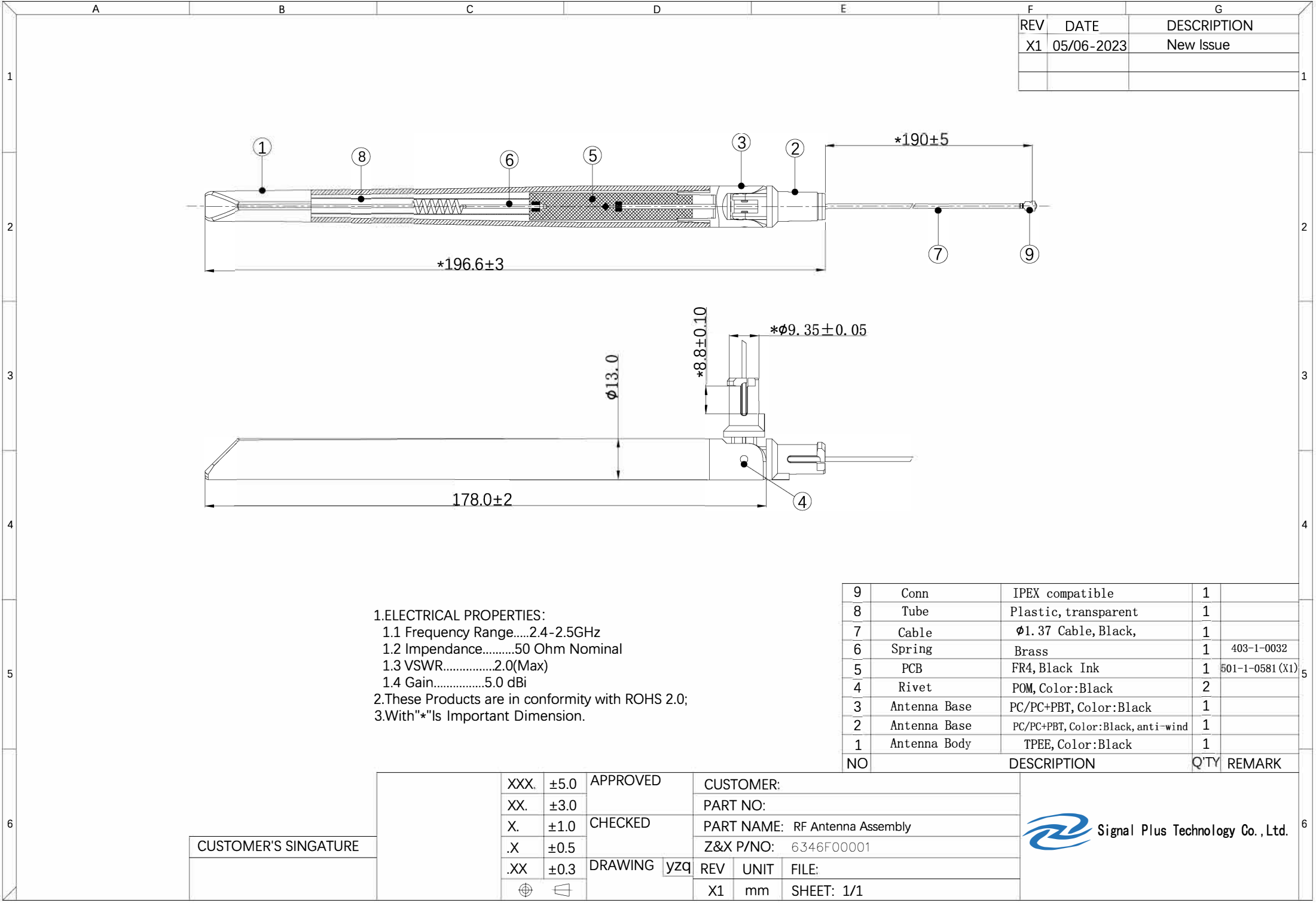
Date:		
CUSTOMER APPROVED BY		
Approved by	Checked by	Confirmed by

SUPPLIER SIGNATURE		
Approved by	Checked by	Prepared by
Andy		Cindy

ZX-QT-RD-0011-A1

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F		G	
REV	DATE	DESCRIPTION	
X1	05/06-2023	New Issue	

1.ELECTRICAL PROPERTIES:
1.1 Frequency Range.....2.4-2.5GHz
1.2 Impedance.....50 Ohm Nominal
1.3 VSWR.....2.0(Max)
1.4 Gain.....5.0 dBi
2.These Products are in conformity with ROHS 2.0;
3.With"*"Is Important Dimension.

9	Conn	IPEX compatible	1	
8	Tube	Plastic, transparent	1	
7	Cable	$\phi 1.37$ Cable, Black,	1	
6	Spring	Brass	1	403-1-0032
5	PCB	FR4, Black Ink	1	501-1-0581 (X1)
4	Rivet	POM, Color:Black	2	
3	Antenna Base	PC/PC+PBT, Color:Black	1	
2	Antenna Base	PC/PC+PBT, Color:Black, anti-wind	1	
1	Antenna Body	TPEE, Color:Black	1	
NO	DESCRIPTION		Q'TY	REMARK

CUSTOMER'S SINGATURE	XXX.	± 5.0	APPROVED	CUSTOMER:		
	XX.	± 3.0		PART NO:		
	X.	± 1.0		PART NAME: RF Antenna Assembly		
	.X	± 0.5	DRAWING	Z&X P/NO: 6346F00001		
	.XX	± 0.3		REV	UNIT	FILE:
				X1	mm	SHEET: 1/1



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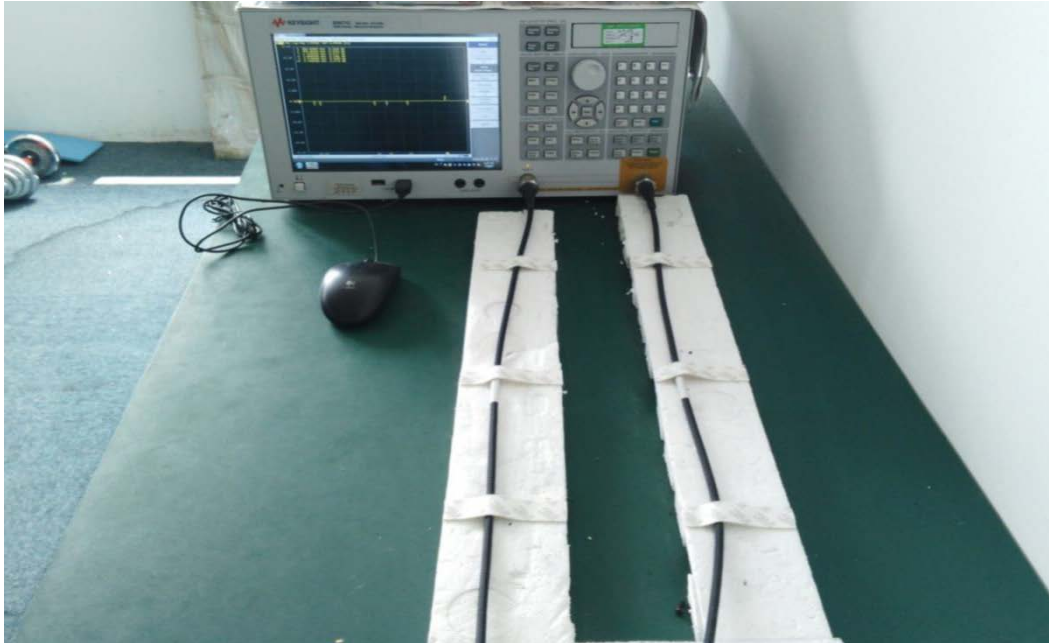
Antenna Test Report

1. RF Fixture Experiment

1.1 Test Setup

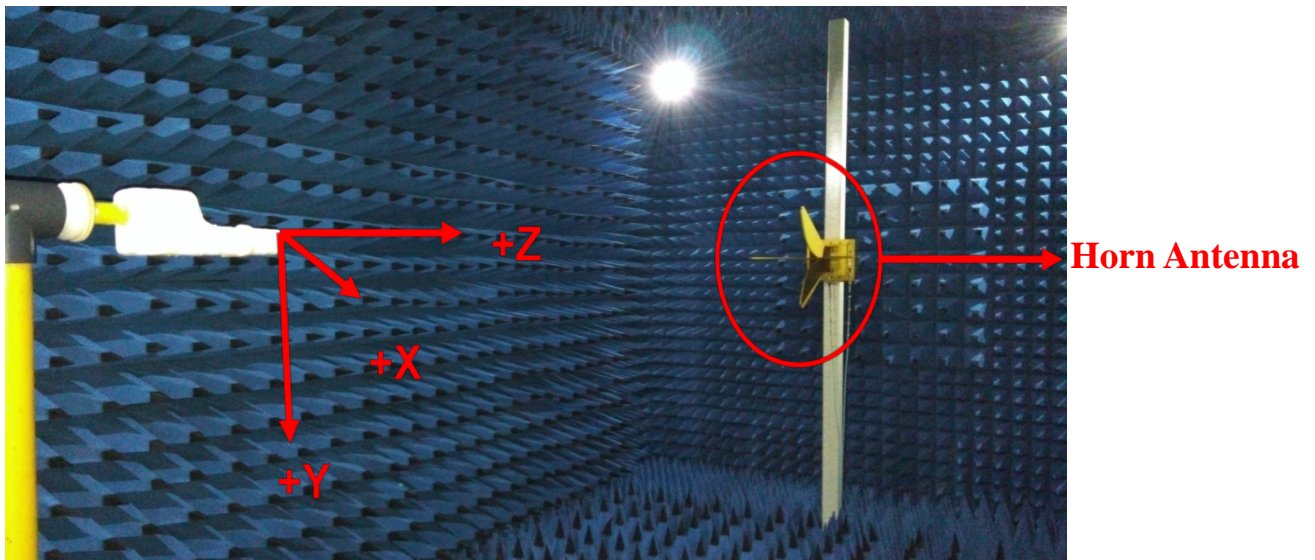
1.1.1 VNA Test Setup

VSWR and Return Loss measurements (S_{11}) were performed using an Keysight E5071C Network Analyzer. The isolation between antennas is also tested. The testing was performed with apparatus in free space.

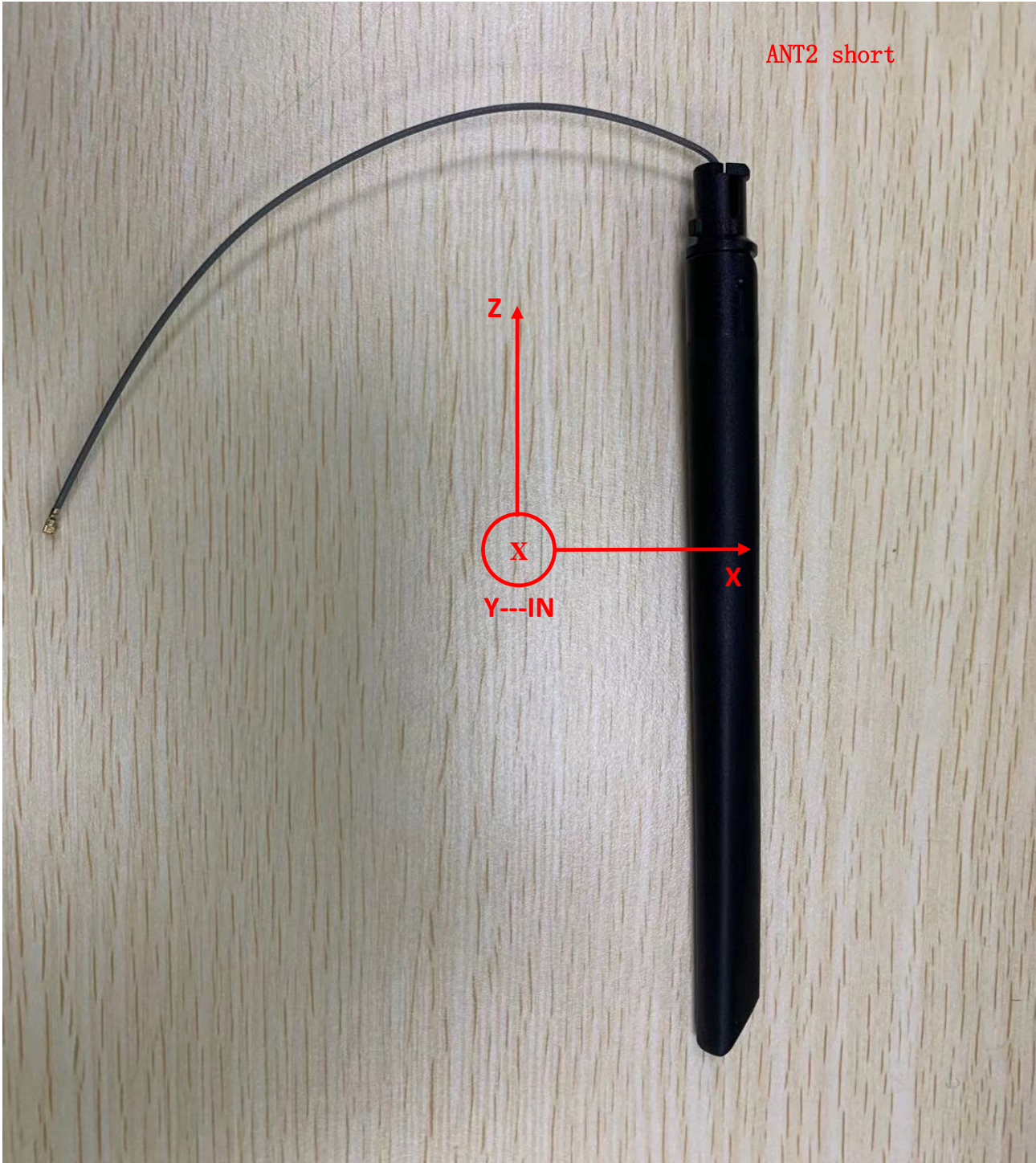


1.1.2 Anechoic Chamber Test Setup

The gain of the antenna was measured in the anechoic chamber. The chamber provides less than -30 dB reflectivity from 400 MHz through 6 GHz. The chamber size is: 7m*4m*3m. The measurement results are calibrated using a leaky wave horn standard. We can measure the antenna gain and efficiency accurately.



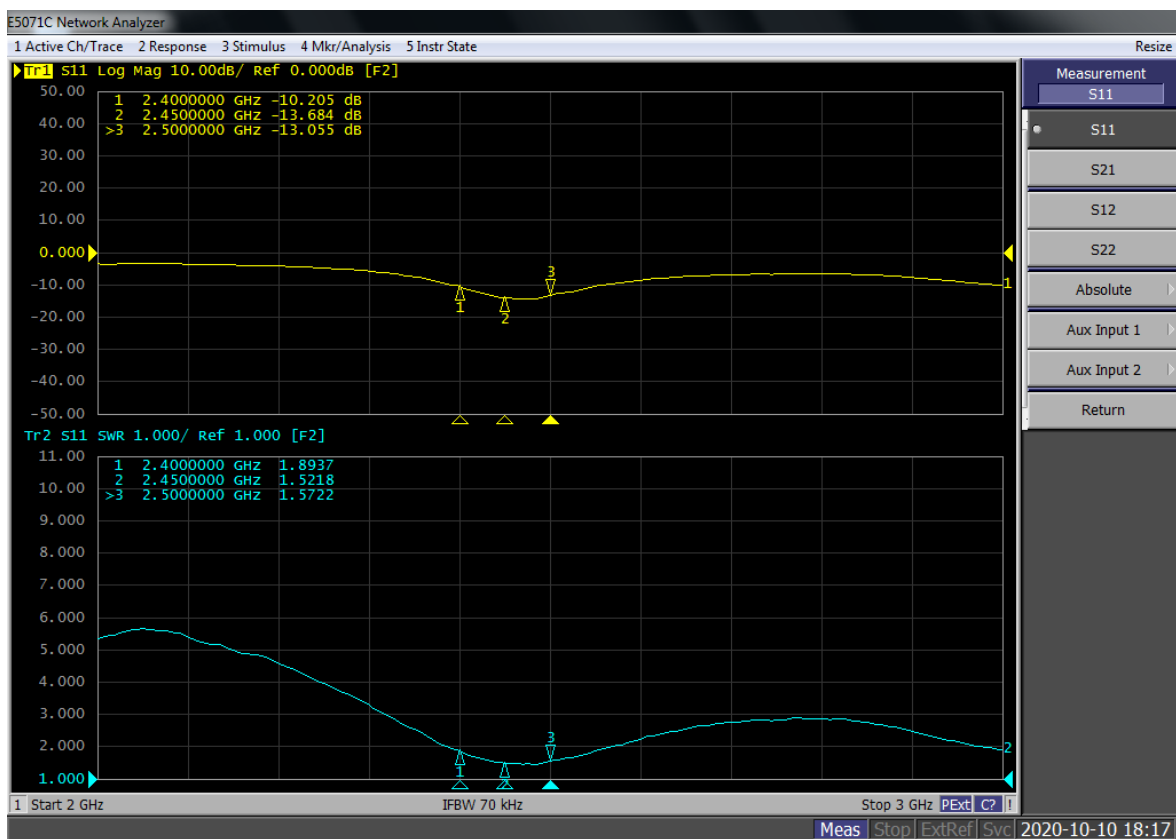
2.Antenna Solution



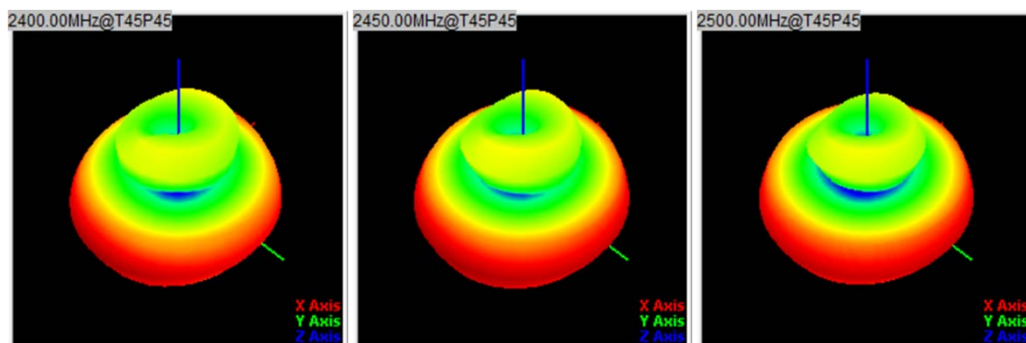
Data Preview

Freq.(MHz)	2400	2450	2500
VSWR	1.89	1.52	1.57
Gain(dBi)	5.12	4.83	4.65
Eff.	71.2%	73.0%	69.9%

S11



Radiation patterns:3D



Radiation patterns:2D

