

ANTENNA SPECIFICATION

Project:	TH/TL
Version:	V1.0
Issued Date:	2025.08.22
Tested by:	Lite.Mo
Check by:	Xun.Li
Manufacturer:	Sunitec Enterprise Co., LTD.

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1.Revision History

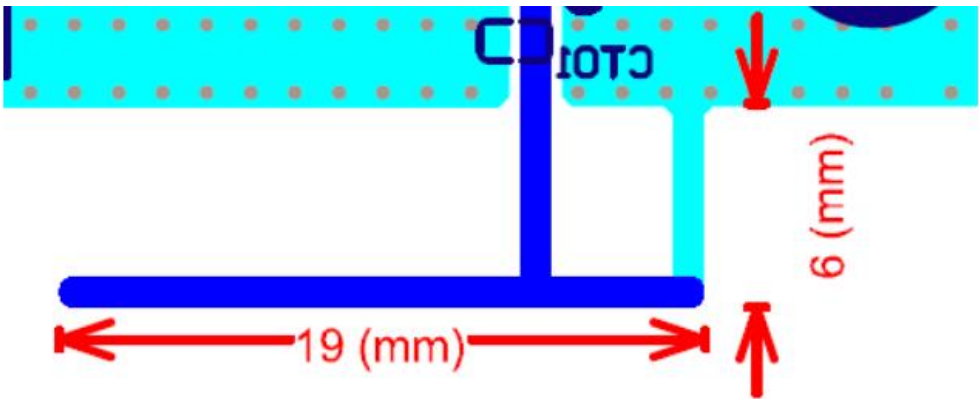
Rev.No	Issued Date	Description	Summary
V1.0	2025.08.22	initial release	

2. Introduction

2.1 Introduction of Product

This product is a Bluetooth antenna with Layout on PCB

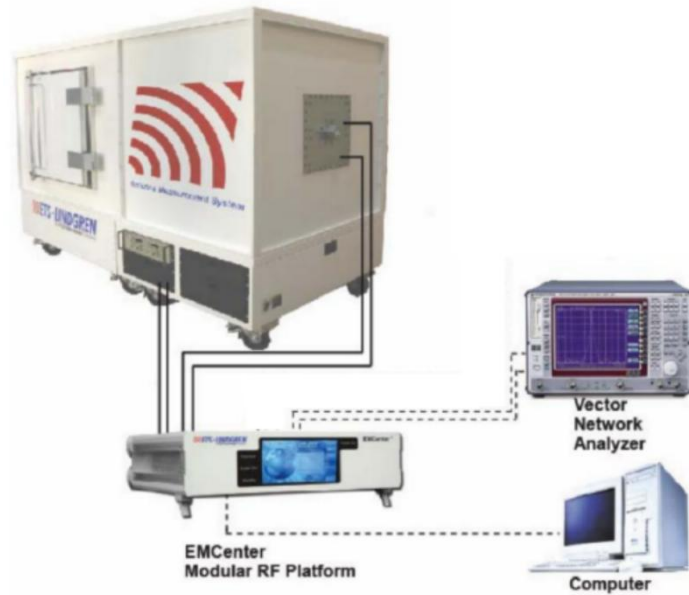
2.2 Dimension



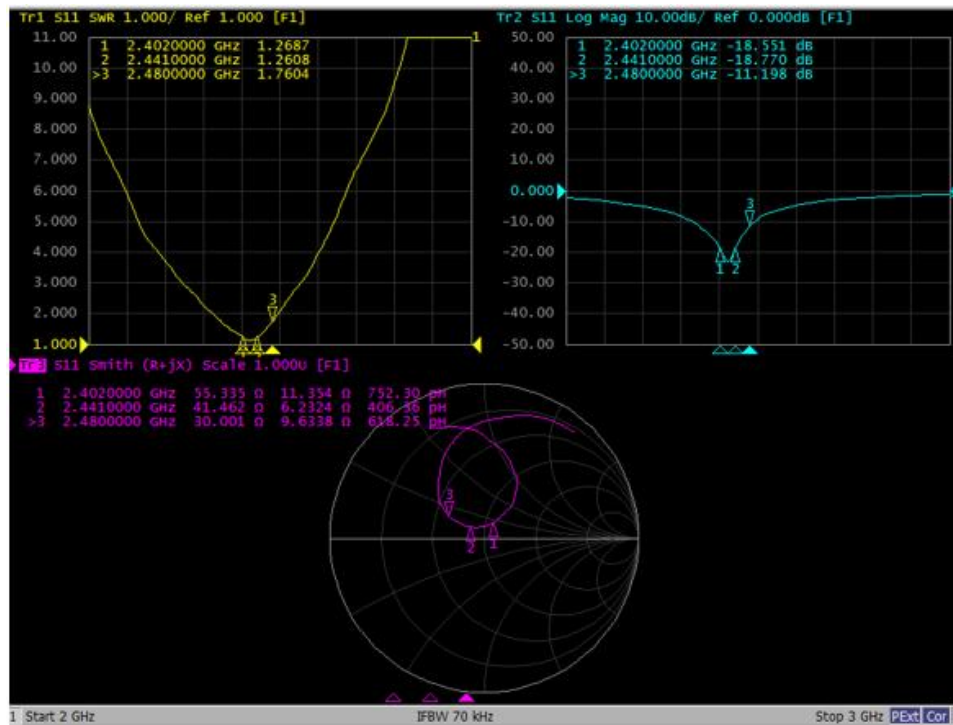
3. Electrical Characteristics

3.1 Test equipment:

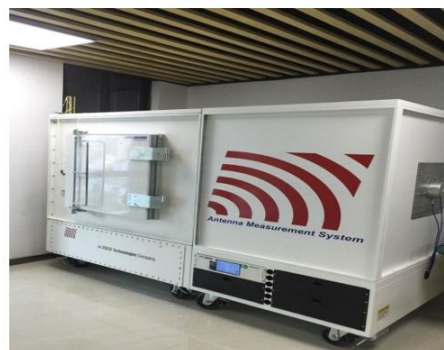
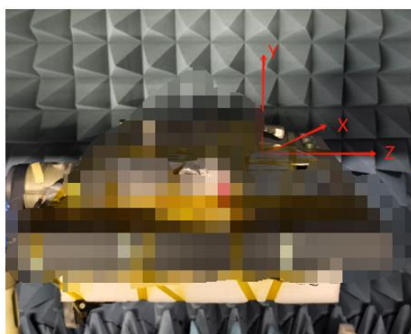
Equipment	Manufacturer	Model No	Serial No.	Last Cal.	Due Date
VECTOR NETWORK ANALYZER	Agilent	E5071C		2024.10.23	2025.10.22
Antenna Measurement System	ETS-Lindgren	AMS-8050		2024.10.23	2025.10.22
	ETS-Lindgren	EMCenter Modular RF Platform		2024.10.23	2025.10.22



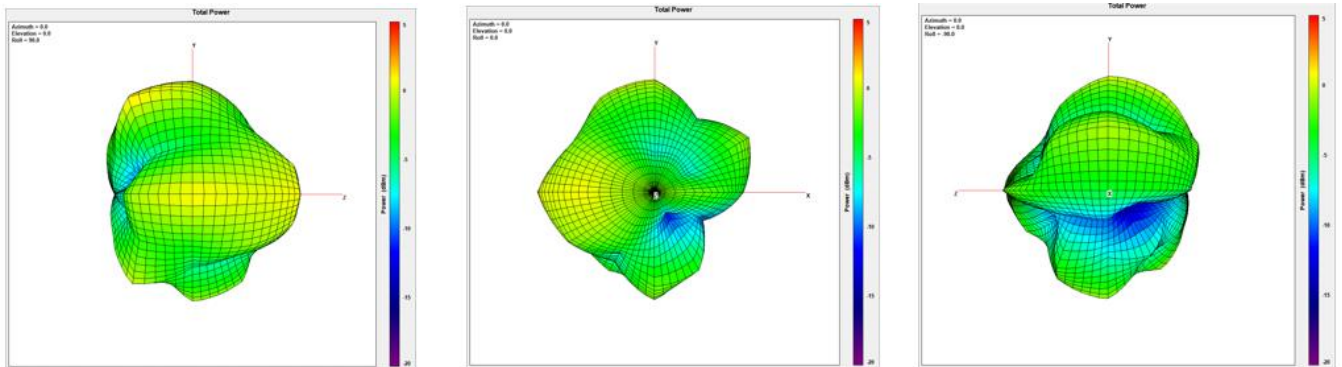
3.2 Antenna S11 parameters



3.3 Antenna Test Settings:



3.4 3D Radiation Pattern :



3.5 Electrical Characteristics:

Antenna type	PCB Layout Antenna
Working Frequency Range	2450±50MHz
Impedance	50Ω
VSWR	<2
Max Efficiency(%)	61.6%@2452MHz
Max peak Gain(dBi)	3.0dBi@2442MHz
Polarization	Linear

Frequency(MHz)	Efficiency (%)	Gain (dBi)
2402	59.6	2.6
2412	60.4	2.5
2422	59.9	2.6
2432	59.4	2.8
2442	59.6	3.0
2452	61.6	2.9
2462	61.5	2.6
2472	59.4	2.3
2480	58.0	2.3