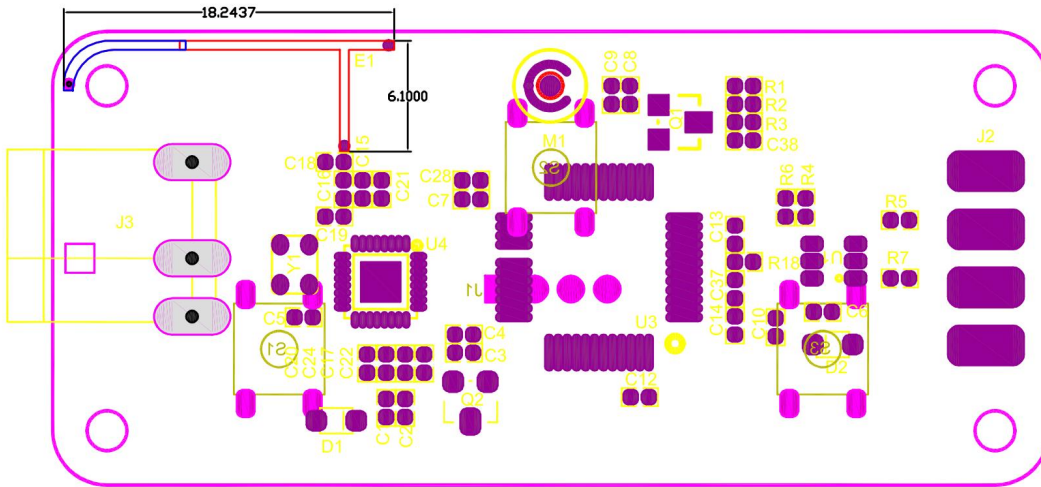


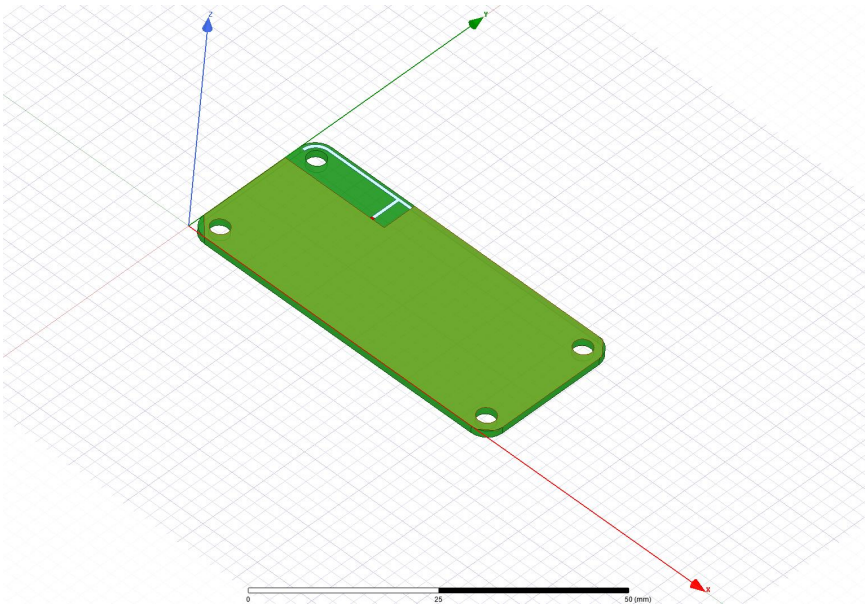
SP107E_5V_MN Antenna Specifications

1. Antenna location and size (mm) :

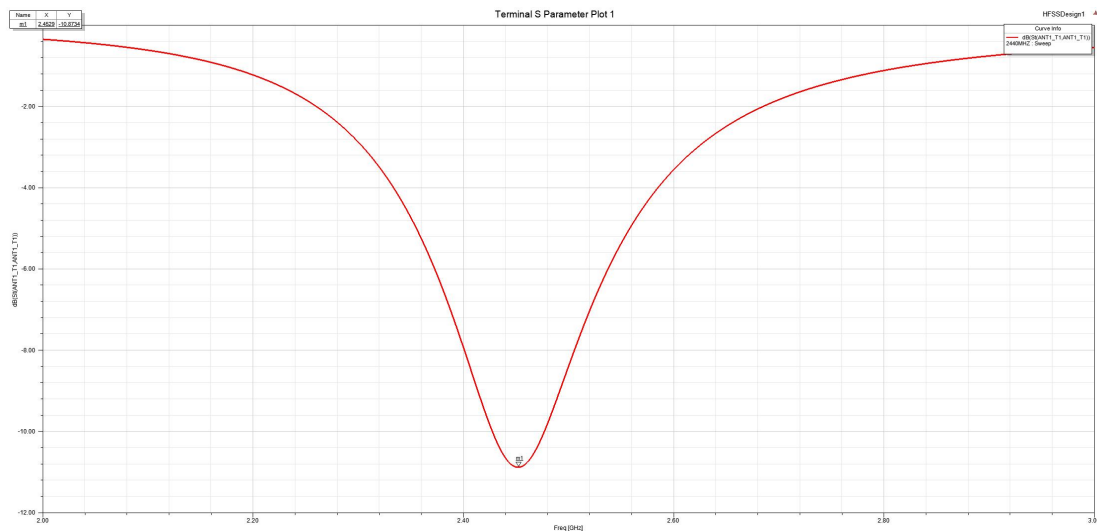


2. Antenna simulation Report:

1) Antenna Simulation Model :

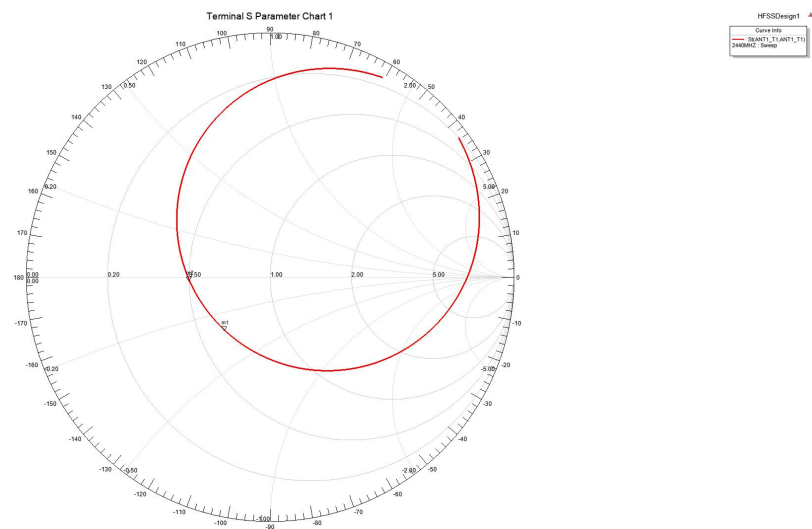


2) S11:

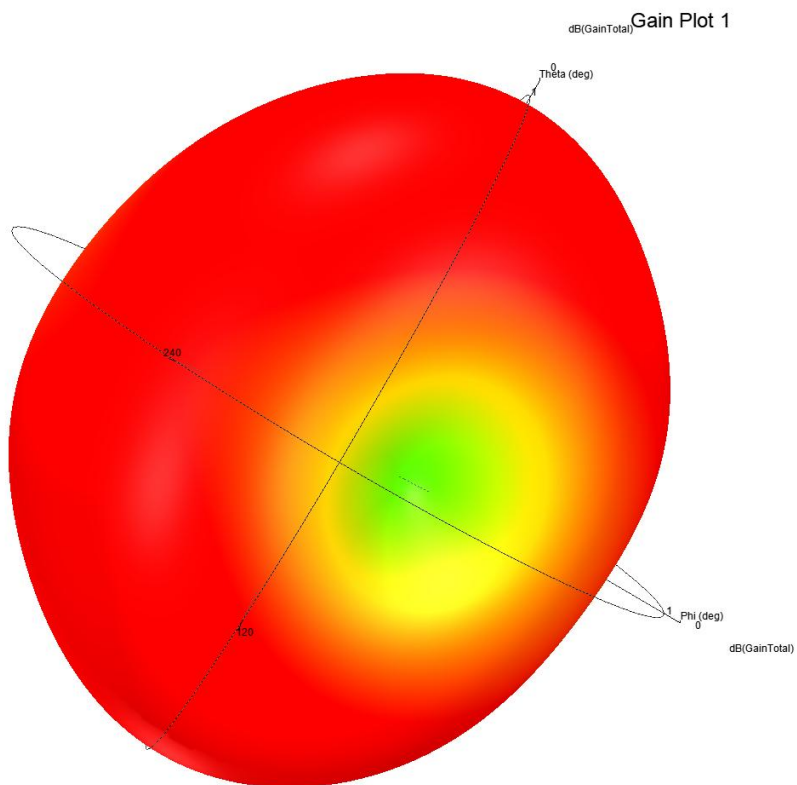
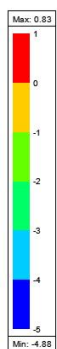


3) Smith:

Item	Freq	Arg	Mag	PS
W1	2.4000	-20.9019	0.2964	0.0191 - 0.2694
W2	2.4000	-177.9311	0.2912	0.9028 - 0.0193

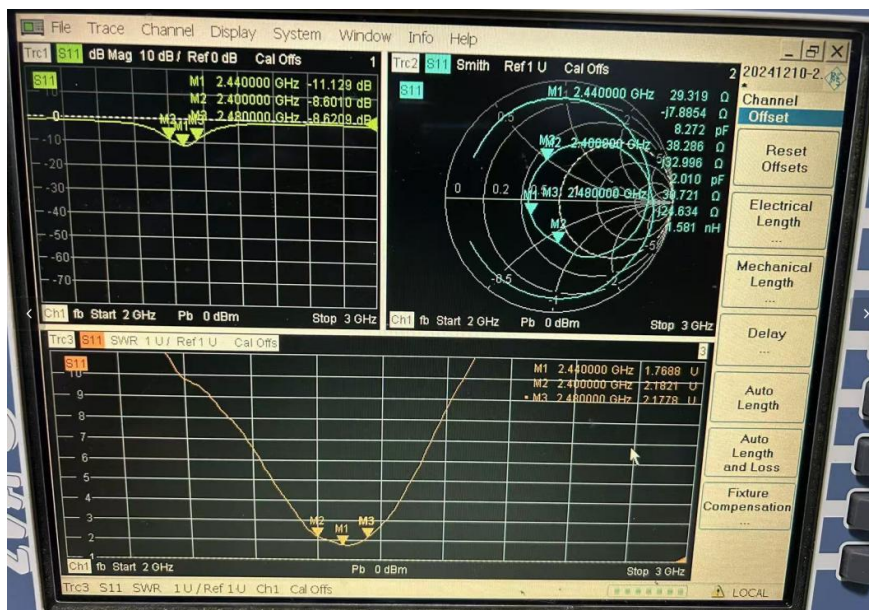


4) 3D Polar plot:



3. Test Report:

1) Antenna Smithchart ,VSWR and Return Loss:



4.Basic Characteristics:

A.Electrical Characteristics:	
Frequency	2400~2500 MHz
S.W.R.	≤ 2.0
Max.Gain	0.83 dBi
Efficiency	85% - 87%
Polarization	Linear
Impedance	50 Ohm
B.Material & Mechanical Characteristics:	
Material of Radiator	PCB
Cable Type	NONE
Connector Type	NONE
Pull Test	/
C.Environmental:	
Operation Temperature	-20°C~+60°C
Storage Temperature	-40°C~+80°C
Manufacturer	Dongguan Shihui photoelectric Co., LTD
Address	Room 502, Building 5, No. 31, Zhangmu Binhe Road, Zhangmu Town, Dongguan City, Guangdong Province

5.Gain and Efficiency:

frequency (GHz)	2.4	2.41	2.42	2.43	2.44	2.45	2.46	2.47	2.48	2.49	2.5
efficiency (%)	85.36	85.55	85.73	85.91	86.09	86.26	86.42	86.58	86.74	86.89	87.03
Gain (dBi)	0.76	0.77	0.78	0.80	0.81	0.82	0.83	0.80	0.81	0.81	0.82