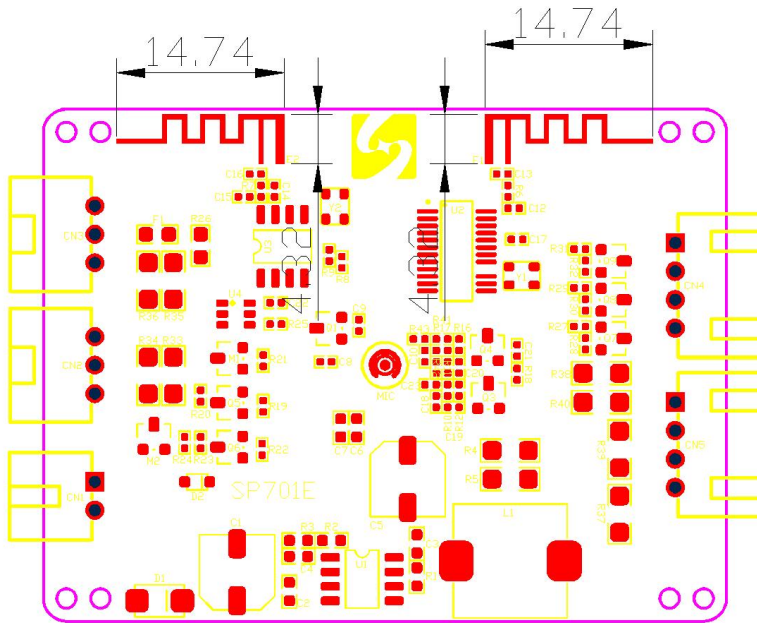


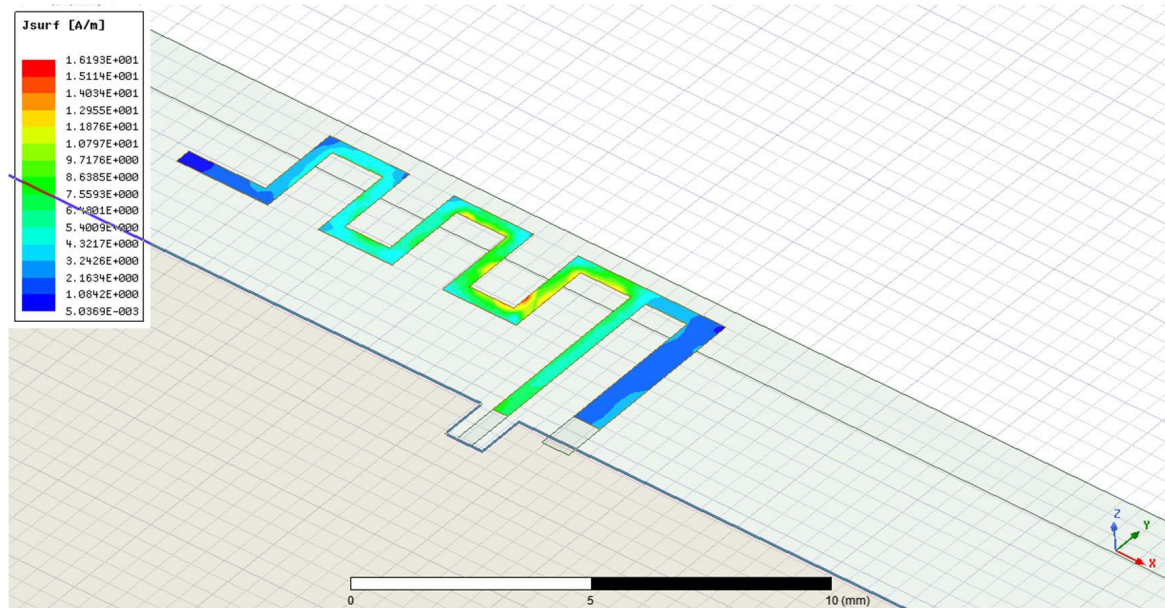
SP701E Antenna Specifications

1. Antenna location and size (mm) :

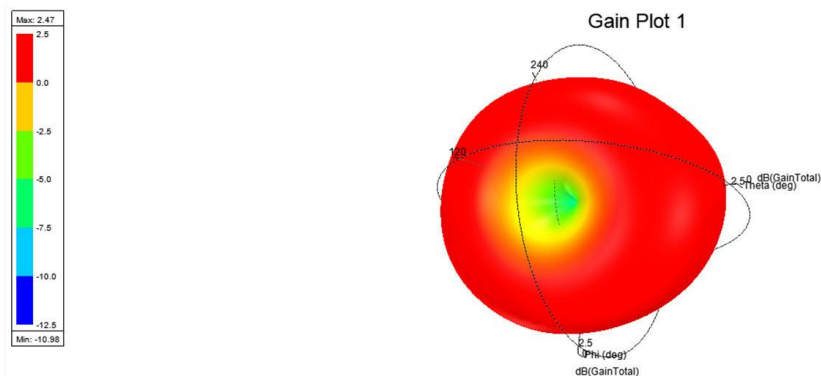


2. Antenna simulation Report:

1) Antenna surface current distribution :

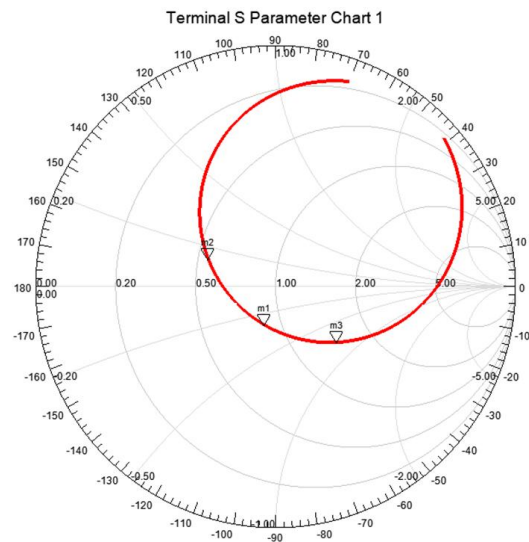


2) 3D Polar plot:



3) Smithchart:

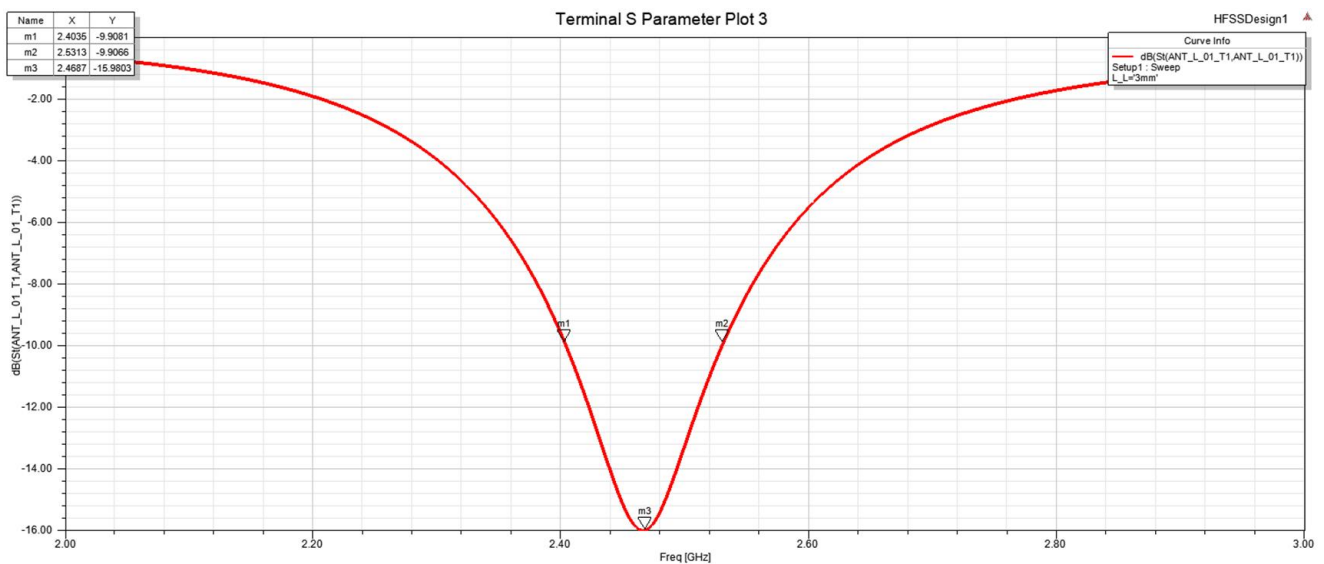
Name	Freq	Ang	Mag	RIX
m1	2.4561	-106.0283	0.1655	0.8893 - 0.2844j
m2	2.5263	157.7630	0.3027	0.5499 + 0.1385j
m3	2.3960	-41.7358	0.3464	1.4593 - 0.7647j



HFSSDesign1
Curve Info
S1(ANT_L_01_T1,ANT_L_01_T1)
Setup1: Sweep
L_L=3mm

4)S11:

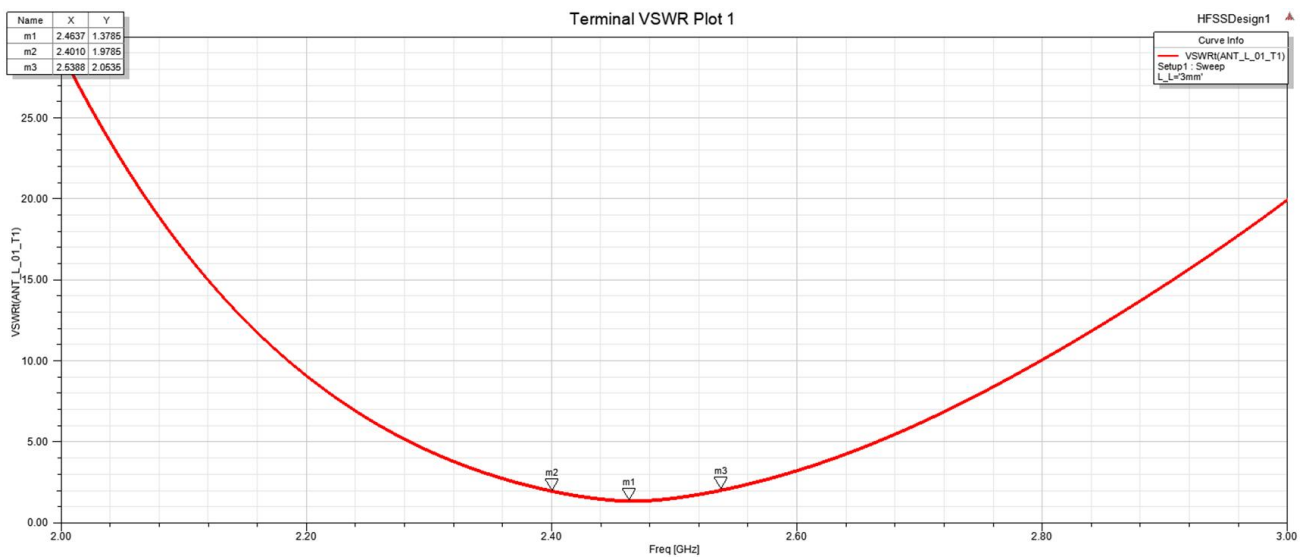
Name	X	Y
m1	2.4035	-9.9081
m2	2.5313	-9.9066
m3	2.4687	-15.9803



HFSSDesign1
Curve Info
dBS(S1(ANT_L_01_T1,ANT_L_01_T1))
Setup1: Sweep
L_L=3mm

5)VSWR:

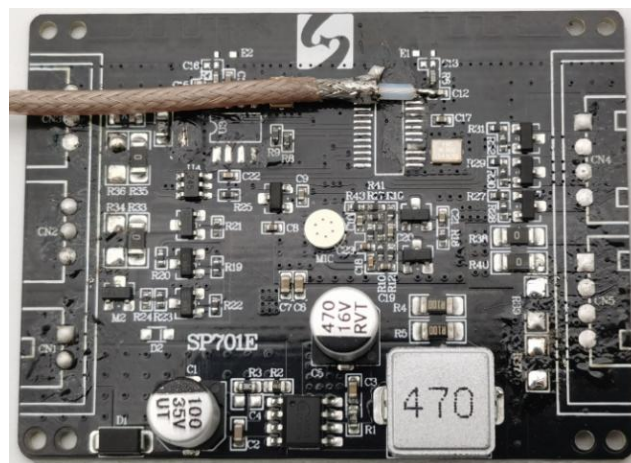
Name	X	Y
m1	2.4637	1.3785
m2	2.4010	1.9785
m3	2.5388	2.0535



HFSSDesign1
Curve Info
VSWR(S1(ANT_L_01_T1))
Setup1: Sweep
L_L=3mm

3.Test Report:

1)Appearance :



2)Antenna Smithchart ,VSWR and Return Loss:



4.Basic Characteristics:

A.Electrical Characteristics:	
Frequency	2400~2500 MHz
S.W.R.	≤ 2.5 @2400~2500 MHz
Max.Gain	2.68 dBi @2400~2500 MHz
Efficiency	40~50% @2400~2500 MHz
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℃~+60℃
Storage Temperature	-40℃~+80℃

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（%）	41.76	42.44	43.26	52.34	49.87	49.98	51.12	47.23	42.32	43.31	42.18
Gain（dBi）	1.81	1.97	2.24	2.68	2.45	2.50	2.61	2.32	2.19	2.27	2.00