



天线承认书

Parts Approval Sheet

Customer	雷特	Project	SP-GW-4S-LT
Band	WIFI	Color	Black
PN	X1482	Version	V0
Customer material number			

DATE: 2022/11/18

R&D			QC
Issued by	Checked by	Confirmed by	Checked by
伍海沅		韦永斌	文孝群
Customer Confirm			

Environmental requirements: ☒ ROHS

☐ REACH

☐ 无

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1. Summary

This report summarizes the electrical results of the our antenna to support the project SP-GW-4S-LT. The test fixture is made for further testing, which is show below:

2. General Description

2.1Antenna Components/Part revisions

The antenna part number is T: A

2.2Definitions

VSWR: Voltage Standing Wave Rate

TRP: total radiated power

TIS: total istropic sensitivity

3. Electrical Performance

3.1 Matching Circuit Description



3.2 VSWR(Test in free space)



3.3 Gain&Efficiency

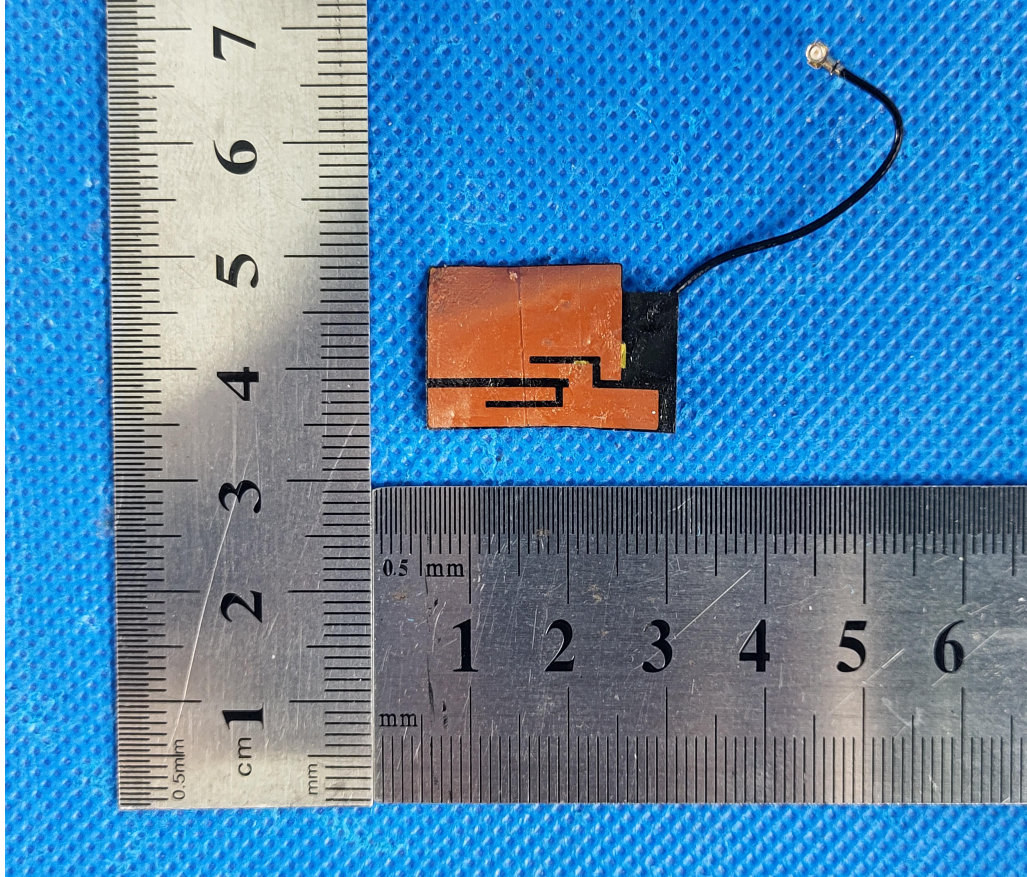
Frequency (MHz)	Gain(dB)	Efficiency (%)
2400	1.78	48.93
2410	2.00	48.61
2420	1.57	48.24
2430	1.46	48.34
2440	1.35	48.73
2450	1.26	49.78
2460	1.16	49.53
2470	1.17	49.91
2480	1.3	49.47
2490	1.32	49.24
2500	1.26	49.06

Frequency (MHz)	Gain(dB)	Efficiency (%)
5150	1.21	49.3
5200	1.93	54.86
5250	2.00	57.62
5300	1.75	56.37
5350	1.41	58.69
5400	1.02	56.26
5450	1.73	53.71
5500	1.83	53.94
5550	1.19	54.2
5600	1.34	55.03
5650	1.74	61.41
5700	1.86	63.22
5750	1.08	66.06
5800	1.93	64.24

3.4 Antenna TRP&TIS test results

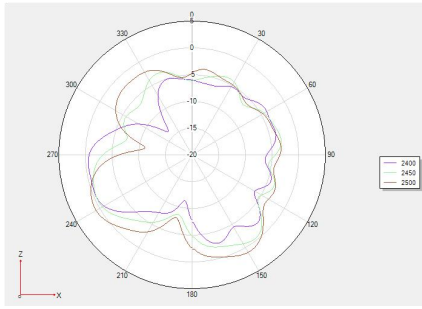
	802.11b		
WIFI2.4G	Band	TRP	TIS
	1	15.26	-75.38
	7	15.88	-77.34
	13	15.69	-77.07
	802.11a		
WIFI5.8G	Band	TRP	TIS
	165	18	-68.68
	64	17.07	-68.36
	36	16.46	-67.66

4. Antenna Engineer drawing

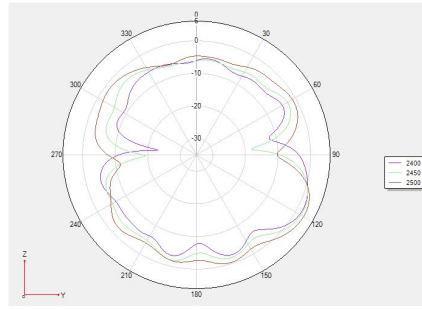


Length 24mm and Width 13mm

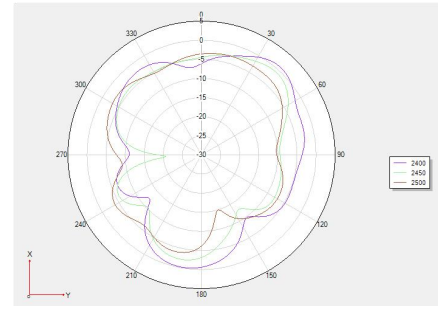
Phi 0 2D :



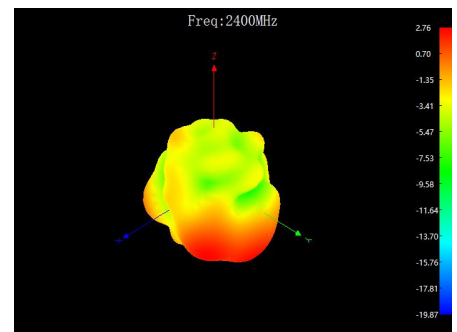
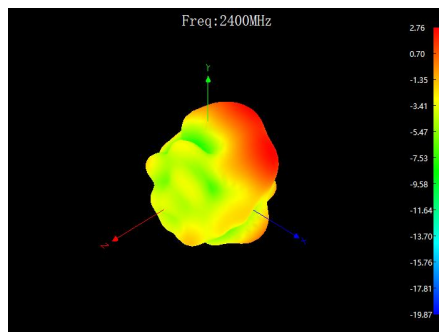
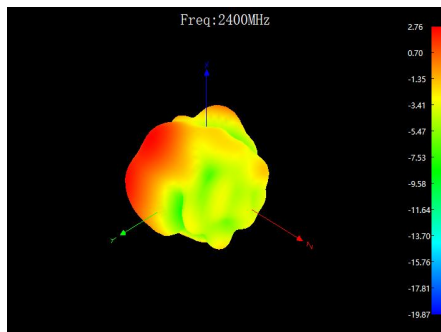
Phi 90 2D



Theta 90 2D



3D 2400-2500:



3D 5000-5800:

