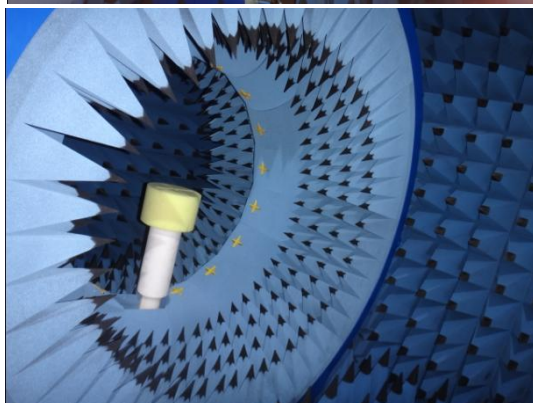


# Antenna Test Report



<b>Costomer name</b>	<b>JI JIA</b>	<b>Project name</b>	<b>CG6</b>
<b>Band</b>	<b>WIFI:2.4G</b>	<b>MD Type</b>	<b>Shrapnel</b>
<b>RF Enginner</b>	<b>LIU</b>	<b>MD Enginner</b>	<b>DUQIANG</b>
<b>antenna Type</b>	<b>PIFA</b>	<b>Date</b>	<b>20220620</b>



Imported from France SATIMO company StarLab 3d laboratory,  
can accurate、rapid test communications terminal products .such  
as mobile phones, PC of TRP, TIS, efficiency, gain, apple figure,  
directional diagram

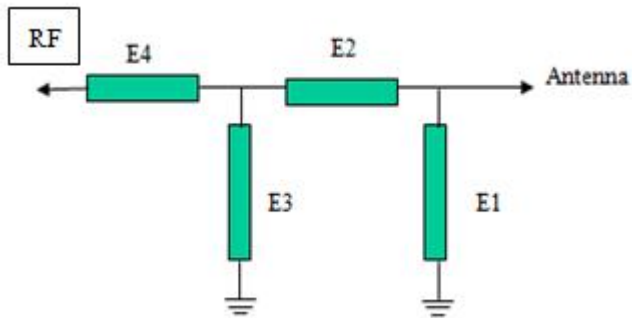
## Report version summary

Edition	Date	Content overview
V1	2022-06-20	Antenna test report

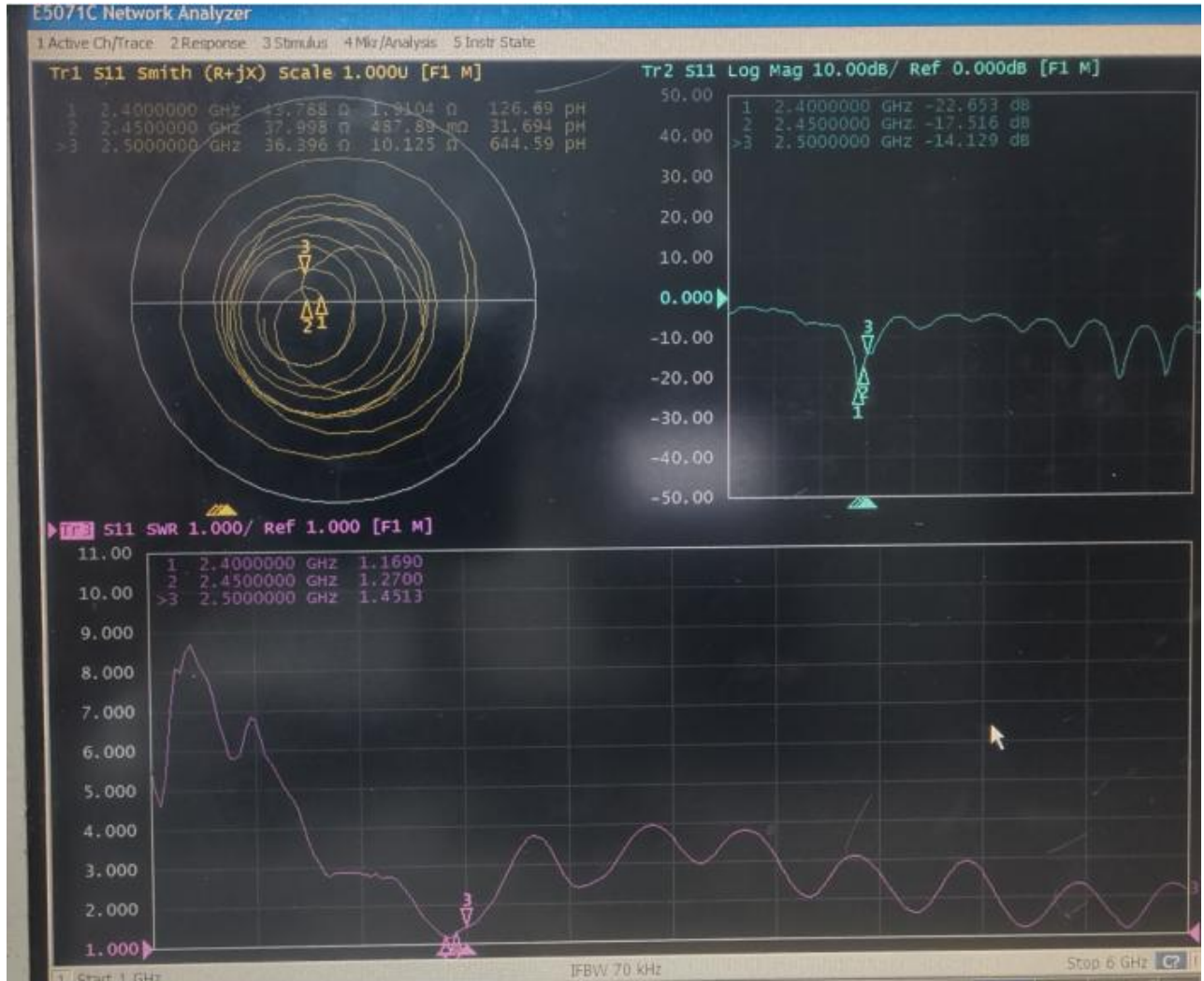
## Main antenna matching circuit

Element	E1	E2	E3	E4
Value	NC	0 欧	NC	0 欧

Our company has not made changes to the main antenna matching circuit!



## 2.4G passive standing wave

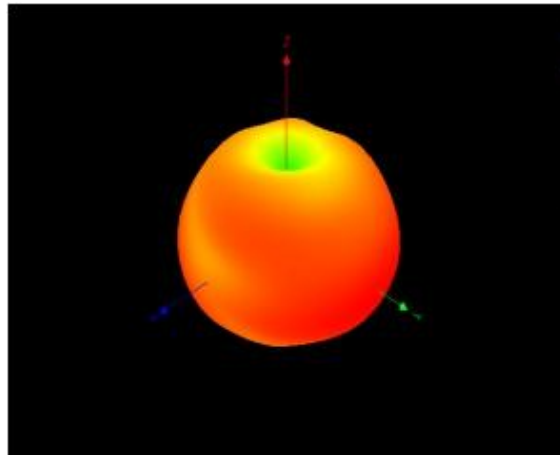


### 2.4G efficiency gain

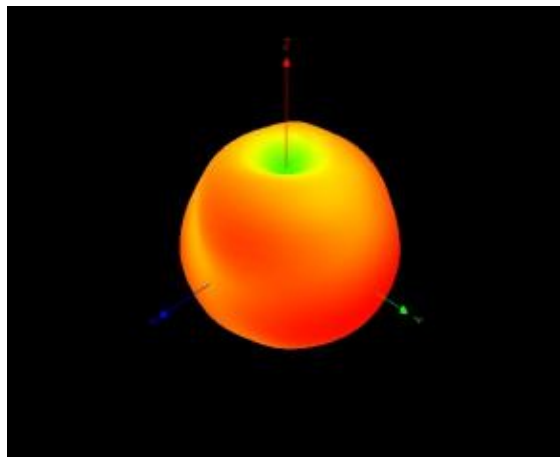
频率/frequency	效率/efficiency	增益/gain
2400000000MHz	56%	-2.537642167dBi
2405263157MHz	55%	-2.576126033dBi
2410526315MHz	55%	-2.631930822dBi
2415789473MHz	55%	-2.627502283dBi
2421052631MHz	55%	-2.577186007dBi
2426315789MHz	56%	-2.491878927dBi
2431578947MHz	56%	-2.485303562dBi
2431578947MHz	56%	-2.485303562dBi
2431578947MHz	56%	-2.485303562dBi
2431578947MHz	56%	-2.485303562dBi
2431578947MHz	56%	-2.485303562dBi
2431578947MHz	56%	-2.485303562dBi
2436842105MHz	56%	-2.517623524dBi
2442105263MHz	55%	-2.594675298dBi
2447368421MHz	54%	-2.649497787dBi
2452631578MHz	54%	-2.666030047dBi
2457894736MHz	55%	-2.624029057dBi
2463157894MHz	55%	-2.558688746dBi
2468421052MHz	55%	-2.569127469dBi
2473684210MHz	55%	-2.61441073dBi
2478947368MHz	54%	-2.704741558dBi
2484210526MHz	53%	-2.751299719dBi
2489473684 MHz	53%	-2.75832587dBi
2494736842MHz	53%	-2.717413952dBi
2500000000MHz	54%	-2.714009432dBi

## Radiation Pattern

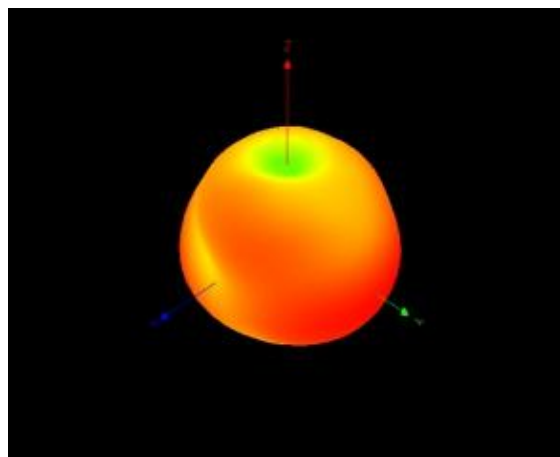
Antenna 3D Radiation Pattern



2400MHz



2450MHz



2500MHz

**Motherboard conduction data:**

**OU Zhi tong 2#**

Band	Channal	Power (dBm)	Sensitivity (dBm)	Band	Channal	Power (dBm)	Sensitivity (dBm)
2.4G B 模-11M	1	17.7	-88.0	2.4G G 模-54M	1	17.0	-76.0
	6	16.5	-87.0		6	16.5	-74.0
	11	15.5	-88.0		11	15.5	-75.0
2.4G N 模-65M	1	17.6	-72.0				
	6	16.5	-72.0				
	11	16.0	-72.0				

**Ai lian 5#**

Band	Channal	Power (dBm)	Sensitivity (dBm)	Band	Channal	Power (dBm)	Sensitivity (dBm)
2.4G B 模-11M	1	16.0	-89.0	2.4G G 模-54M	1	17.0	-76.0
	6	15.1	-88.0		6	15.6	-75.0
	11	14.7	-88.0		11	15.2	-75.0
2.4G N 模-65M	1	16.8	-70.0				
	6	14.2	-71.0				
	11	13.5	-72.0				



Antenna FS OTA :

### OU Zhi tong 1#

Band	Channal	TRP(dBm)	TIS(dBm)	Band	Channal	TRP(dBm)	TIS(dBm)
2.4G B 模-11M	1	14.1	-82.1	2.4G G 模-54M	1	13.1	-70.1
	6	13.8	-82.0		6	13.4	-69.5
	11	13.7	-82.9		11	13.2	-69.2
2.4G N 模-65M	1	13.3	-67.2				
	6	13.7	-66.4				
	11	13.2	-66.3				

### OU Zhi tong 2#

Band	Channal	TRP(dBm)	TIS(dBm)	Band	Channal	TRP(dBm)	TIS(dBm)
2.4G B 模-11M	1	13.9	-81.6	2.4G G 模-54M	1	13.6	-69.4
	6	13.7	-80.6		6	13.6	-68.8
	11	13.4	-81.8		11	13.7	-68.7
2.4G N 模-65M	1	13.3	-67.1				
	6	13.2	-66.5				
	11	13.0	-66.2				

### Ai lian 4#

Band	Channal	TRP(dBm)	TIS(dBm)	Band	Channal	TRP(dBm)	TIS(dBm)
2.4G B 模-11M	1	14.3	-84.1	2.4G G 模-54M	1	14.4	-71.5
	6	13.7	-83.5		6	13.4	-70.8
	11	13.1	-83.3		11	13.3	-71.4
2.4G N 模-65M	1	14.0	-66.7				
	6	13.4	-65.7				
	11	12.7	-66.4				

### Ai lian 5#

Band	Channal	TRP(dBm)	TIS(dBm)	Band	Channal	TRP(dBm)	TIS(dBm)
2.4G B 模-11M	1	14.6	-83.1	2.4G G 模-54M	1	13.6	-70.1
	6	13.9	-82.7		6	12.5	-69.4
	11	12.7	-81.8		11	12.7	-70.2
2.4G N 模-65M	1	13.7	-66.5				
	6	13.2	-65.5				
	11	13.0	-66.3				

