

Antenna Part Approved Sheet

Edition: V2.0 Date: 2021.08.19 Number: _____

Stage of material: ☐ Trial production ☐ Batch production

supplier: Shenzhen Cicent Communication Technology Co., Ltd.

Supplier Address: 505-506 ,A Block,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china

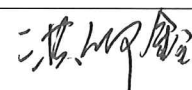
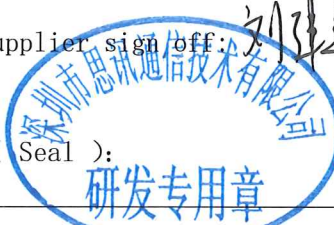
Material name: FPC antenna

Material code: 35.02.1100058-000

Specification and model: CRL260/FPC antenna, 2.4G/ First generation IPEX, Line length

330mm/T=0.2mm PET support plate

Supplier audit

Supplier sign off:   
(Seal): 

ShanChuan Robot countersignature

Made by	Checked by	Approved by

Enclosure: ☐ Sample drawings or specifications ☐ FAI ☐ Performance test report
☐ Reliability test report

PS:



Contents

I: The report of passive data	2
II: 3D Active test report of antenna.....	5
III: Matching circuit	5
IV: Environmental treatment.....	6
V: Structure file	7
VI: The report of size detection.....	8
VII: The report of Reliability test.....	9

Change record			
Compile / change date	Reason for change	Changed content	Version
2021.06.21	First edition	First edition	V1.0
2021.08.19	Structural update	Add hand tear position to the antenna	V2.0

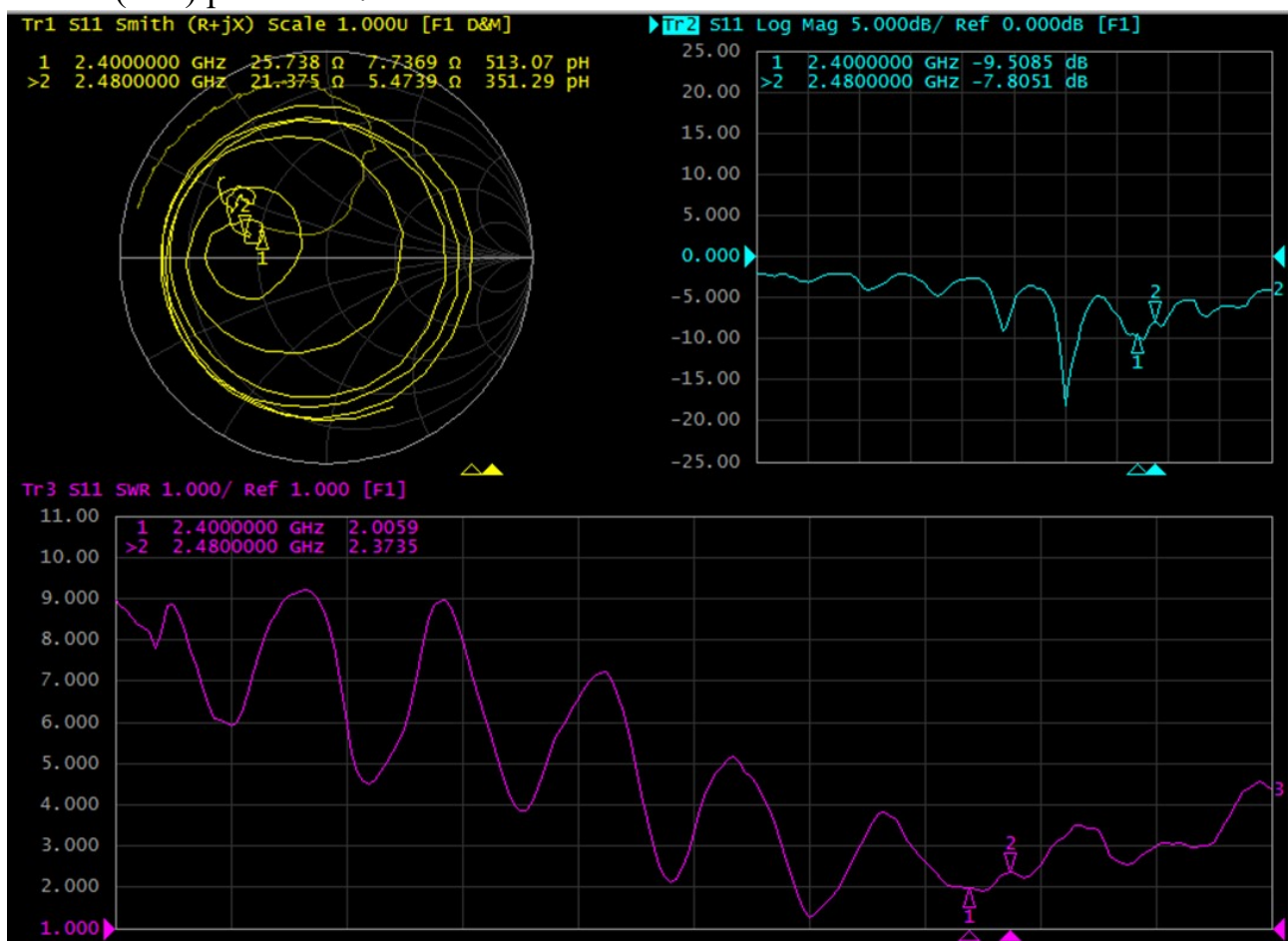


I: The report of passive data



Angilent E5071C

VSWR(S11) parameter:

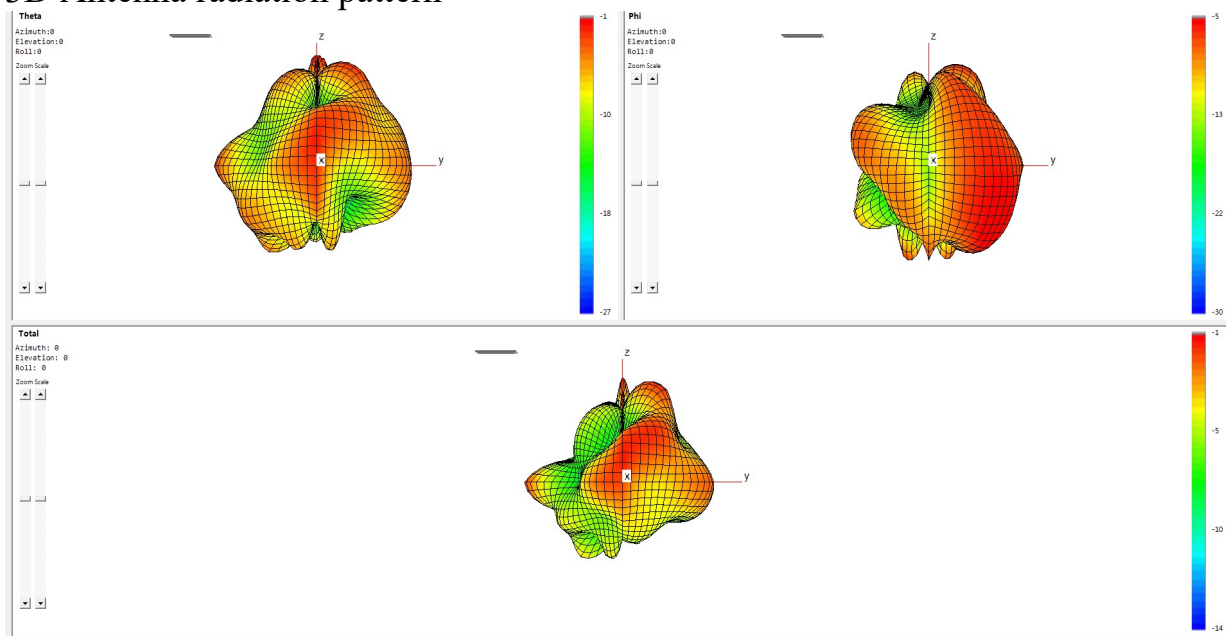




Efficiency:

2400-2480 MHz			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	31.85%	-4.97	-1.38
2410	32.10%	-4.94	-1.47
2420	33.15%	-4.80	-1.25
2430	32.35%	-4.90	-1.02
2440	31.01%	-5.09	-0.92
2450	31.46%	-5.02	-0.66
2460	30.55%	-5.15	-0.75
2470	32.29%	-4.91	-0.66
2480	33.70%	-4.72	-0.70
Average value	32.05%	-4.94	-0.98

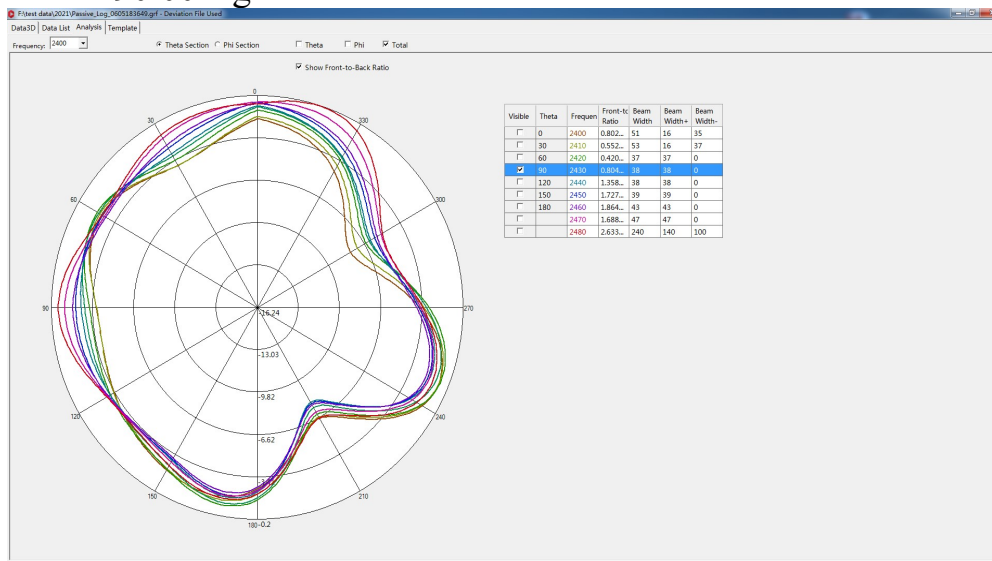
3D Antenna radiation pattern



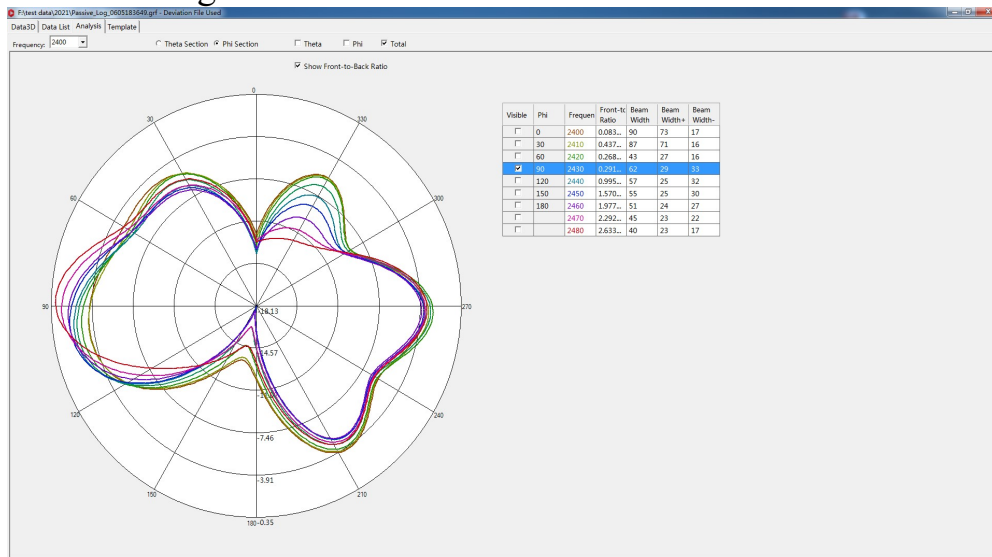


Antenna radiation pattern

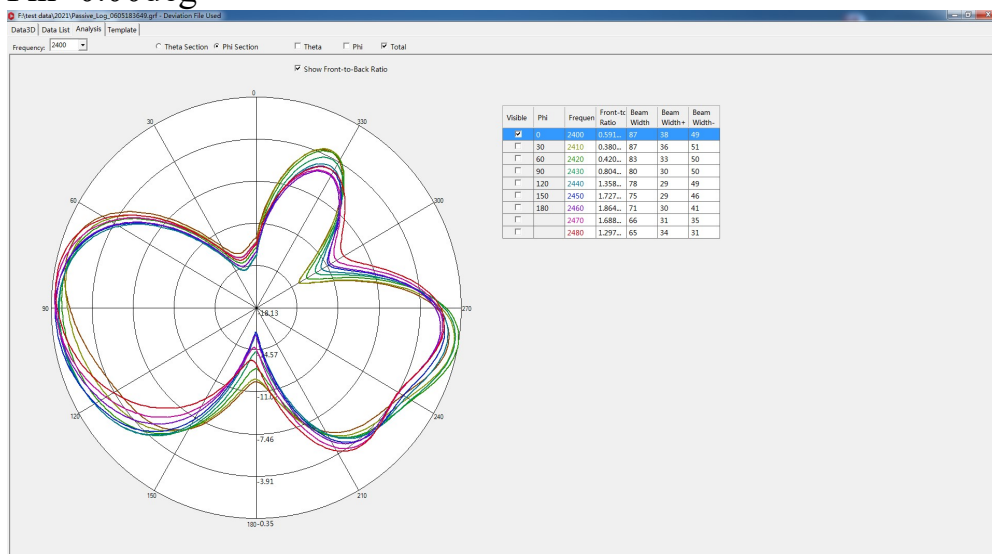
Theta=90.00deg



Phi=90.00deg



Phi=0.00deg



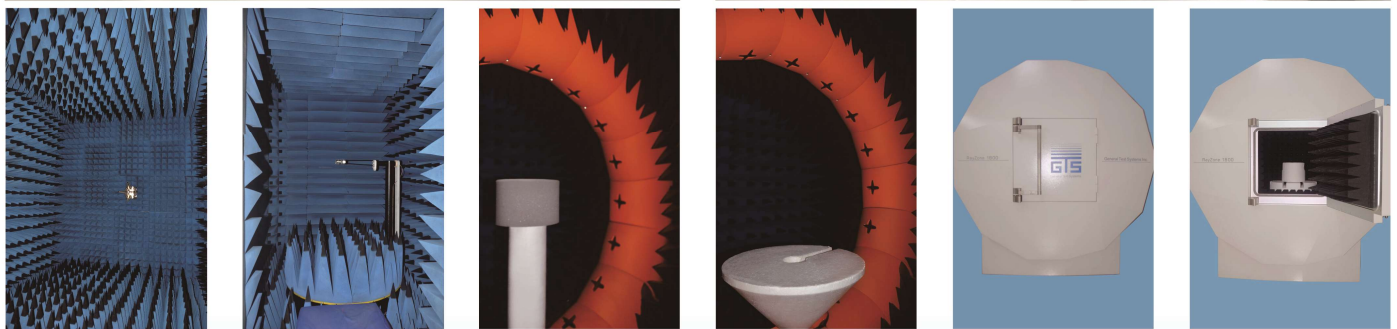


II: 3D Active test report of antenna

11M/11M	Channel	TRP (dBm)	TIS (dBm)
WIFI B	1	14.2	-80.3
	7	12.8	-82.1
	13	12.3	-81.7

6M/54M	Channel	TRP (dBm)	TIS (dBm)
WIFI G	1	14.9	-71.5
	7	13.5	-71.2
	13	12.9	-71.2

6.5M/65M	Channel	TRP (dBm)	TIS (dBm)
WIFI N	1	14.5	-65.8
	7	13.8	-65.1
	13	13.2	-65.0



OTA Standard Chamber

III: Matching circuit



IV: Environmental treatment



V: Structure file



VI: The report of size detection

Sample size inspection report

Model type: 1S

Material: FPC+Cable

Date: 20210805

The test items		The standard	Sample inspection status					Result of decision	NOTE
			1	2	3	4	5		
appearance	scratch	According to finished product inspection specification.	√	√	√	√	√	OK	
	friction		√	√	√	√	√	OK	
	dirt		√	√	√	√	√	OK	
	variant		√	√	√	√	√	OK	
	other		√	√	√	√	√	OK	
Structure size	A1	34.20±0.20	34.18	34.26	34.25	34.25	34.20	OK	
	A2	26.11±0.20	26.14	26.06	26.18	26.08	26.10	OK	

Approver: Zhang Rencun

Reviewers: Zhang Rencun

Tester: Xu Xiaoyan



VII: The report of Reliability test

Reliability Test									
									
			The project name	1S					
NO:	Reliability test items	Test conditions and requirements	The standard	Testing tools	Number of tests	The test results			NOTE
						OK	NG	NA	
1	Salt spray test	In a closed environment of $35\pm 2^{\circ}\text{C}$, humidity $\geq 85\%$, PH value in the range of 6.5-7.2, after spraying with $5\% \pm 1\%$ NaCl solution for 24h, the product was removed and gently rinsed with water, and placed at room temperature for 2H to check the appearance.	There is no foaming, oxidation and coating shedding on the surface of the product.	Salt spray tester	5pcs	OK			
2	Constant temperature and humidity test	Put the tested product into a constant temperature testing machine, and place it at a temperature of $55\pm 2^{\circ}\text{C}$ and humidity of $93\% \pm 3\%$ (RH) for 10h; After taking out the sample, place it at room temperature for 2 hours to observe the appearance.	Surface warping, blistering, paint or coating peeling are not allowed.	Constant temperature and humidity box	5pcs	OK			
Tester: Xu Xiaoyan Reviewers: Zhang Rencun Approver: Zhang Rencun									