



Antenna Part Specification

Project name:	C20
Material category:	WIFI antenna module
Antenna type:	Dipole antenna
Antenna polarity:	linear
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
Version:	V2.0
Date:	2024.09.05





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Change record			
Compile / change date	Reason for change	Changed content	Version
2024.04.26	First edition	First edition	V1.0
2024.09.05	Data Update	Data Update	V2.0

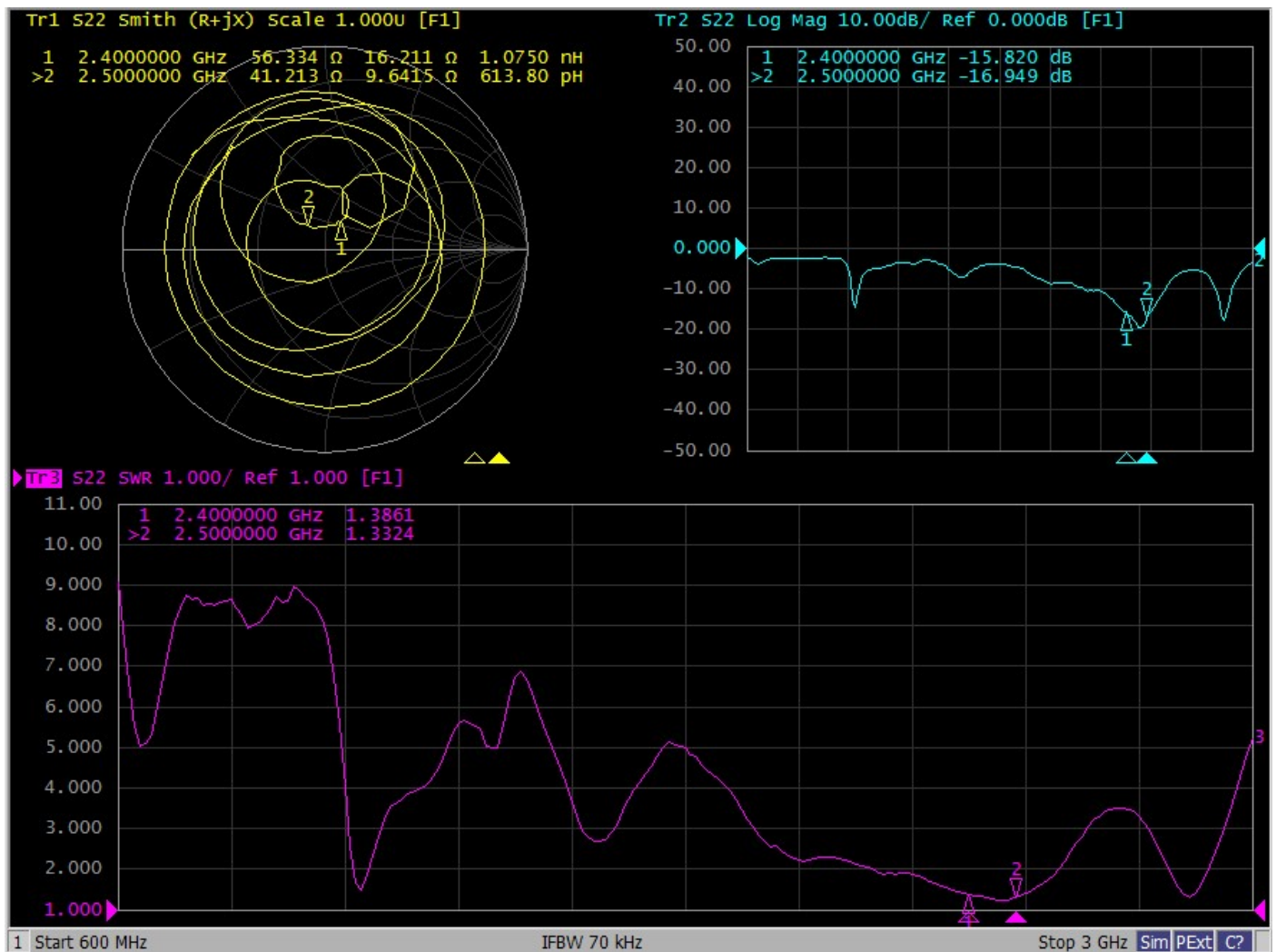


I: The report of passive data



Angilent E5071C

WIFI antenna S11 parameter: (2.4G)

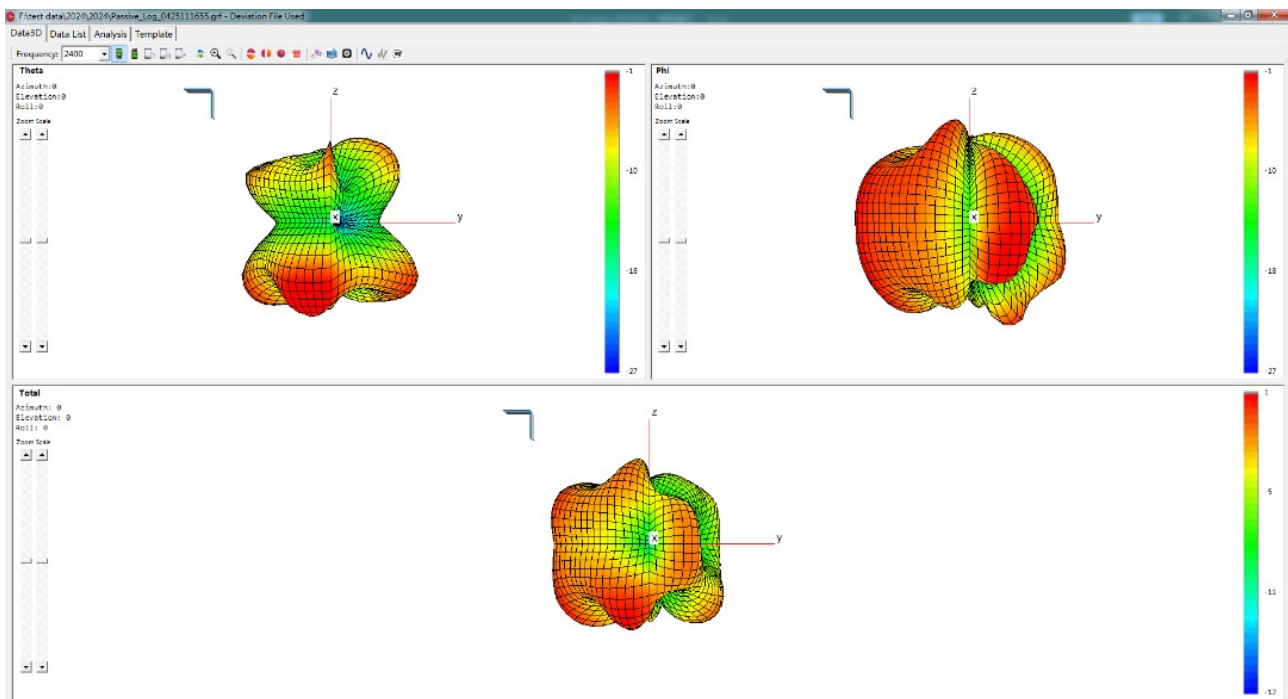




Efficiency: (2.4G)

2.4G			
Frequency(MHz)	Gain	Efficiency (dB)	Efficiency (%)
2400	0.74	-2.98	50.31
2410	0.81	-2.91	51.14
2420	0.91	-2.81	52.40
2430	0.88	-2.79	52.65
2440	0.81	-2.94	50.78
2450	0.92	-2.92	51.05
2460	0.83	-2.92	51.04
2470	1.20	-2.69	53.88
2480	1.41	-2.67	54.08
2490	1.27	-2.85	51.83
2500	1.32	-2.97	50.41
Average value	1.01	-2.86	51.78

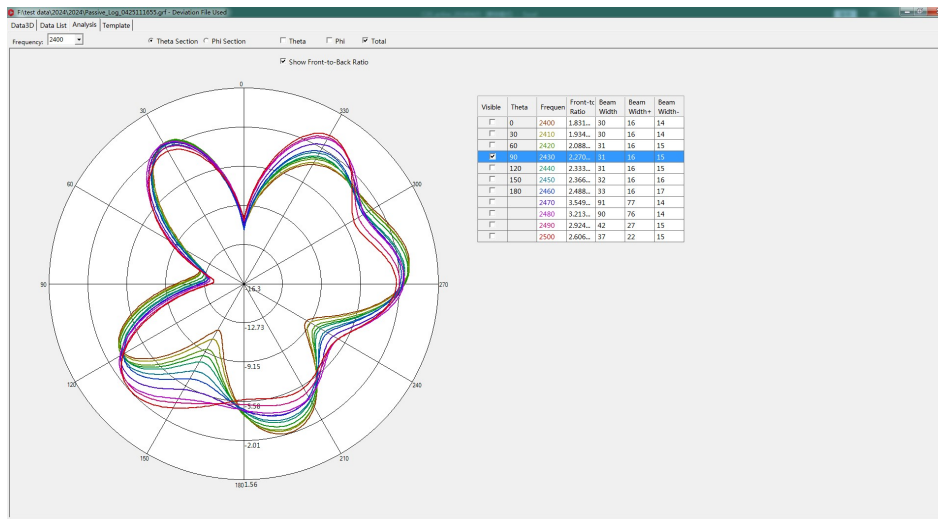
3D Antenna radiation pattern: (2.4G)



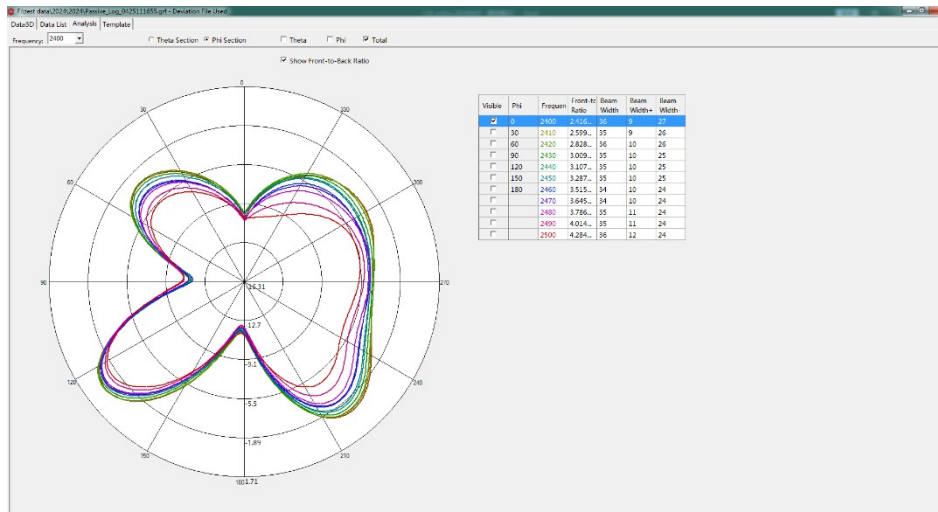


Antenna radiation pattern: (2.4G)

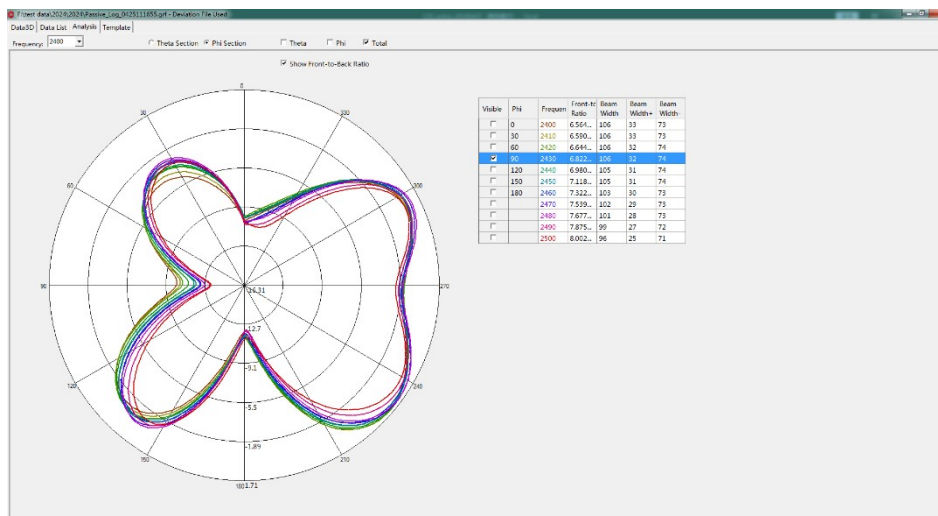
Theta=90°



Phi=0°



Phi=90°





II: 3D Active test report of antenna:

11M	Channel	TRP (dBm)	TIS (dBm)
WIFI B	CH 1	15.6	-84.5
	CH 6	15.6	-84.3
	CH 11	15.2	-84.8

6/54M	Channel	TRP (dBm)	TIS (dBm)
WIFI G	CH 1	13.6	-72.1
	CH 6	13.6	-72.6
	CH 11	13.2	-72.5

6.5/65M	Channel	TRP (dBm)	TIS (dBm)
WIFI N	CH 1	11.6	-68.3
	CH 6	11.3	-68.3
	CH 11	11.3	-68.3

11M	Channel	TRP (dBm)	TIS (dBm)
WIFI B	CH 1	14.7	-71.1
	CH 6	15.3	-73.1
	CH 11	15.9	-72.6

6/54M	Channel	TRP (dBm)	TIS (dBm)
WIFI G	CH 1	12.9	-71.8
	CH 6	13.3	-71.6
	CH 11	13.8	-71.6

6.5/65M	Channel	TRP (dBm)	TIS (dBm)
WIFI N	CH 1	11.0	-67.7
	CH 6	11.3	-67.3
	CH 11	11.9	-67.6

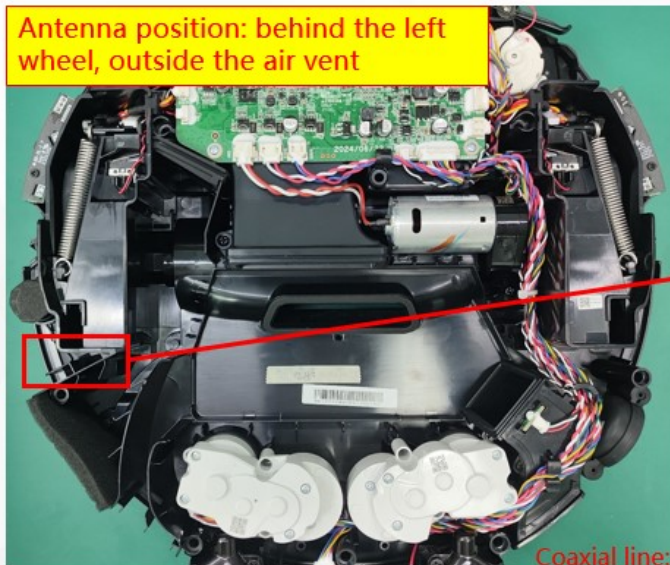


OTA Standard Chamber



III: Environmental treatment

Antenna position: behind the left wheel, outside the air vent

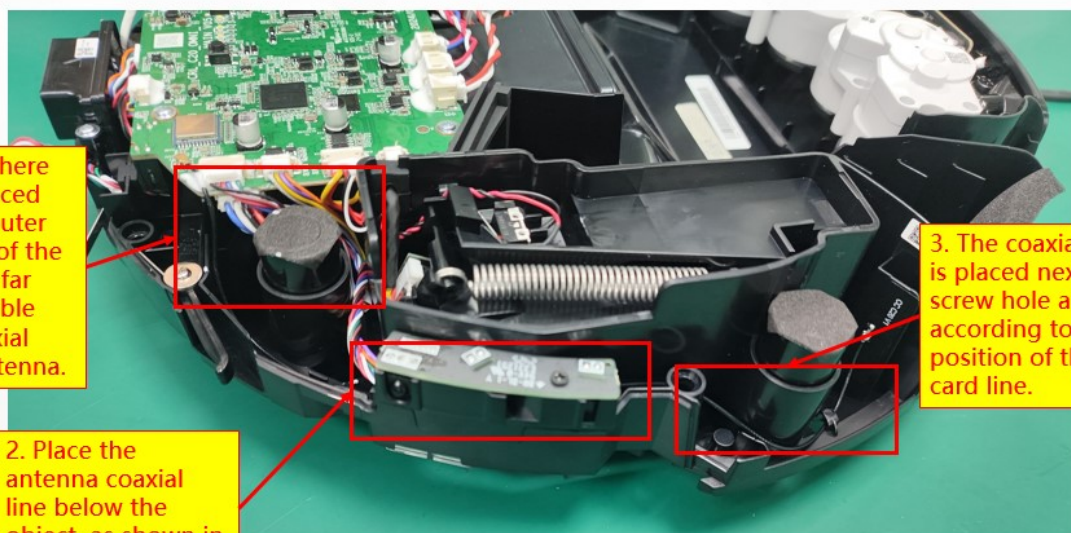


Coaxial line: 266.5mm (excluding welding and terminal length of 255mm)

1. The wiring here should be placed close to the outer shell in front of the left wheel, as far away as possible from the coaxial line of the antenna.

2. Place the antenna coaxial line below the object, as shown in the figure.

3. The coaxial line here is placed next to the screw hole and according to the position of the bottom card line.





IV: Structure file

