



Antenna Part Specification

Project name:	CE-2225N(T2C)
Material category:	L-antenna
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:	V1.0
Date:	2025.4.27



Contents

I: The report of passive data	3
II: 3D Active test report of antenna	6
III: Matching circuit.....	7
IV: Antenna placement and environmental treatment	8
V: Antenna structure diagram file	9

Change record			
Compile / change date	Reason for change	Changed content	Version
2025.4.27	First edition	First edition	V1.0

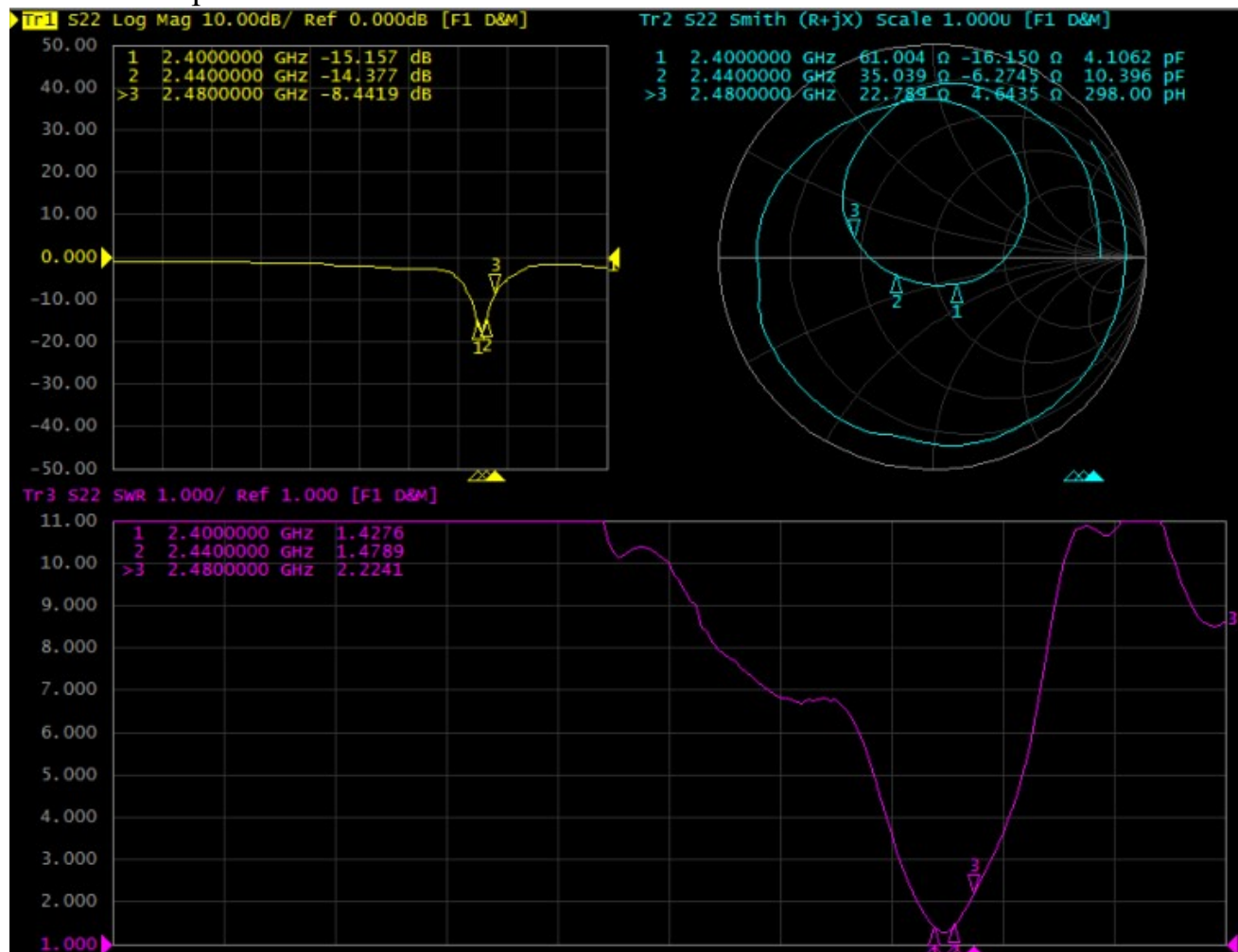


I: The report of passive data



Angilent E5071C

antenna S11 parameter:



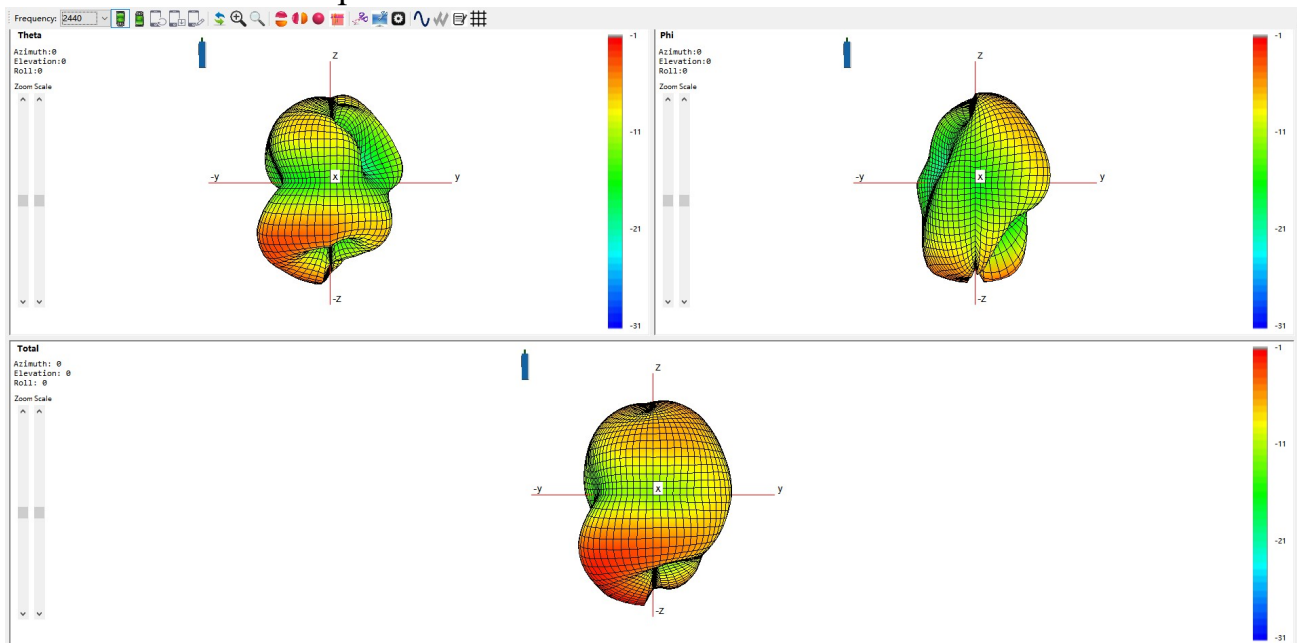


Efficiency:

2400-2480 MHz			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	18.9%	-7.2	-2.0
2410	19.2%	-7.2	-2.2
2420	19.0%	-7.2	-2.2
2430	19.1%	-7.2	-1.9
2440	20.3%	-6.9	-1.4
2450	20.5%	-6.9	-1.2
2460	22.1%	-6.6	-1.1
2470	22.2%	-6.5	-1.0
2480	21.3%	-6.7	-1.1
AVG	20.3%	-6.9	-1.6

Maximum gain of left ear antenna: -1.0

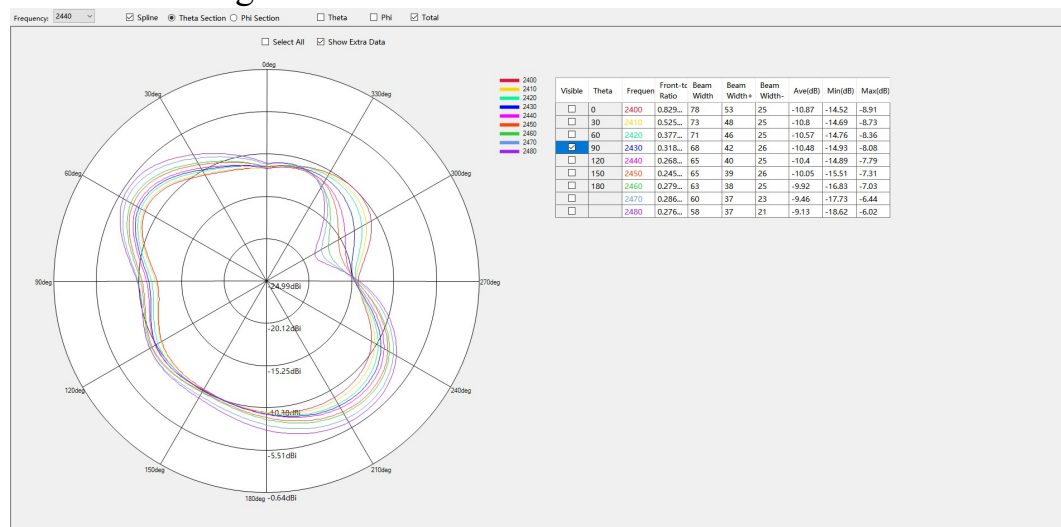
3D Antenna radiation pattern:



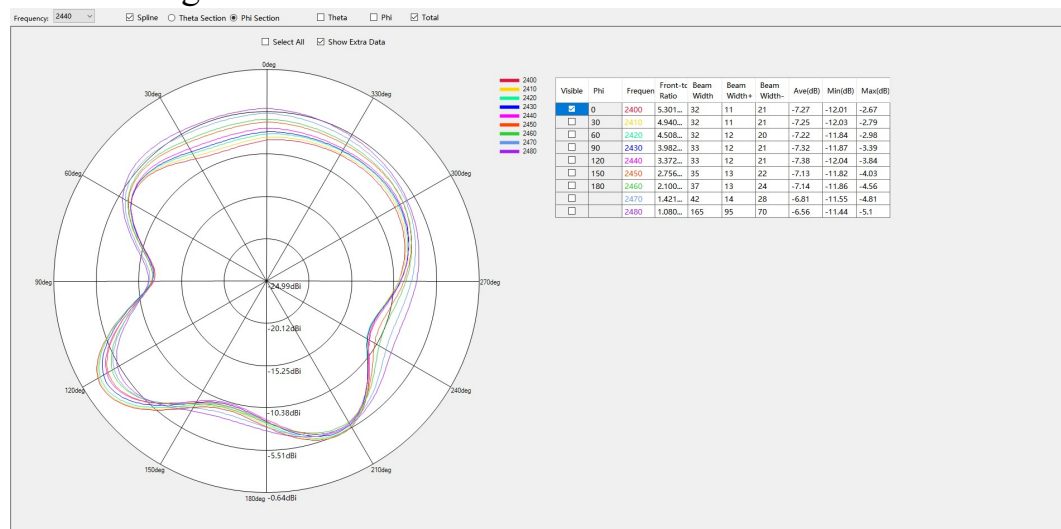


2D Antenna radiation pattern:

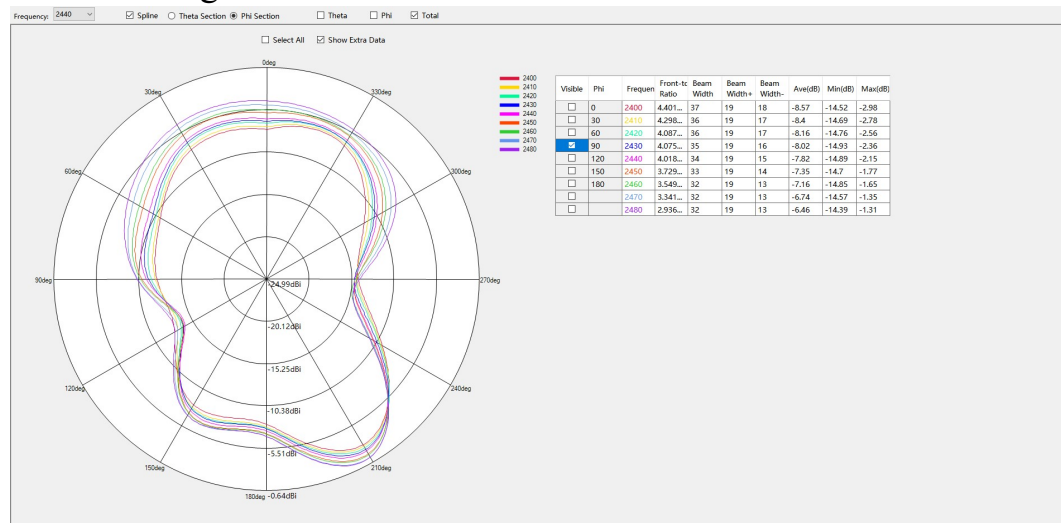
Theta=90.00deg (unit: dBi)



Phi=0.00deg (unit: dBi)



Phi=90.00deg (unit: dBi)





II: 3D Active test report of antenna

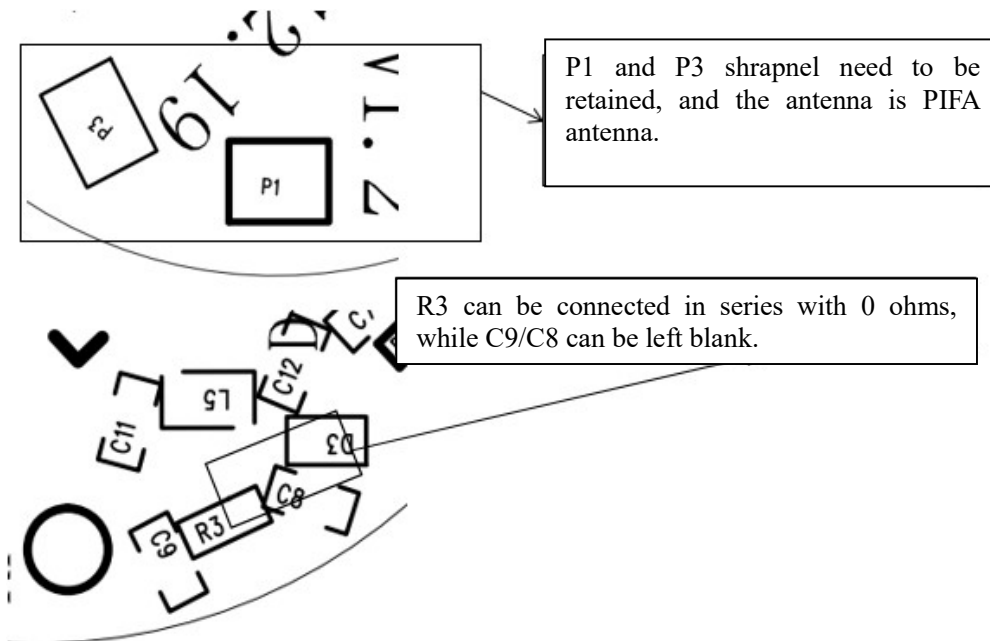
		Free		Head model	
5	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
L	CH 0	5.6	-89.4	-2.7	-80.5
	CH 39	6.3	-89.7	-1.4	-80.5
	CH 78	5.7	-89.6	-1.3	-81.3
		Free		Head model	
6	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
L	CH 0	6.4	-90.0	-0.4	-81.2
	CH 39	6.6	-90.0	-0.4	-81.4
	CH 78	6.8	-90.2	0.1	-82.3



OTA Standard Chamber



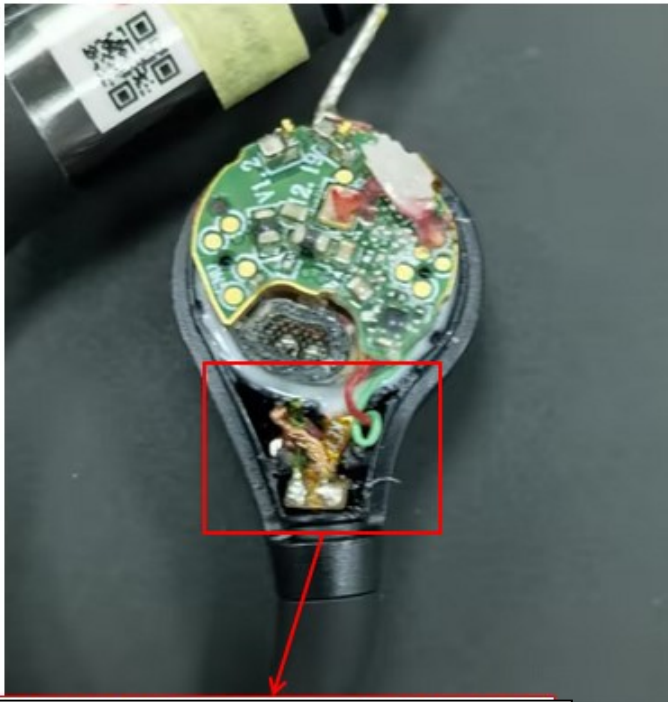
III: Matching circuit





IV: Antenna placement and environmental treatment

L (near the end of the board)



The length and assembly method of each welding wire are consistent with the R ear

L (near the battery end)



The length and assembly method of each welding wire are consistent with the R ear, and the battery wire and GND/button wire are placed on both sides separately.



V: Antenna structure diagram file

