



# Antenna Part Specification

Project name:	P100
Material category:	BT antenna
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer address:	505-506 ,A Block,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
Antenna type:	Monopole
Antenna model:	CC P100
Version:	V3.0
Date:	2024.01.15



# Contents

I: The report of passive data ..... 3  
 II: Matching circuit..... 6  
 III: 3D Active test report of antenna..... 6  
 IV: Structure file: ..... 7

Change record			
Compile / change date	Reason for change	Changed content	Version
2023.07.25	First edition	First edition	V1.0
2023.10.09	RF update	Antenna optimization	V2.0
2024.01.15	Mold sample verificatio	Mass production data	V3.0

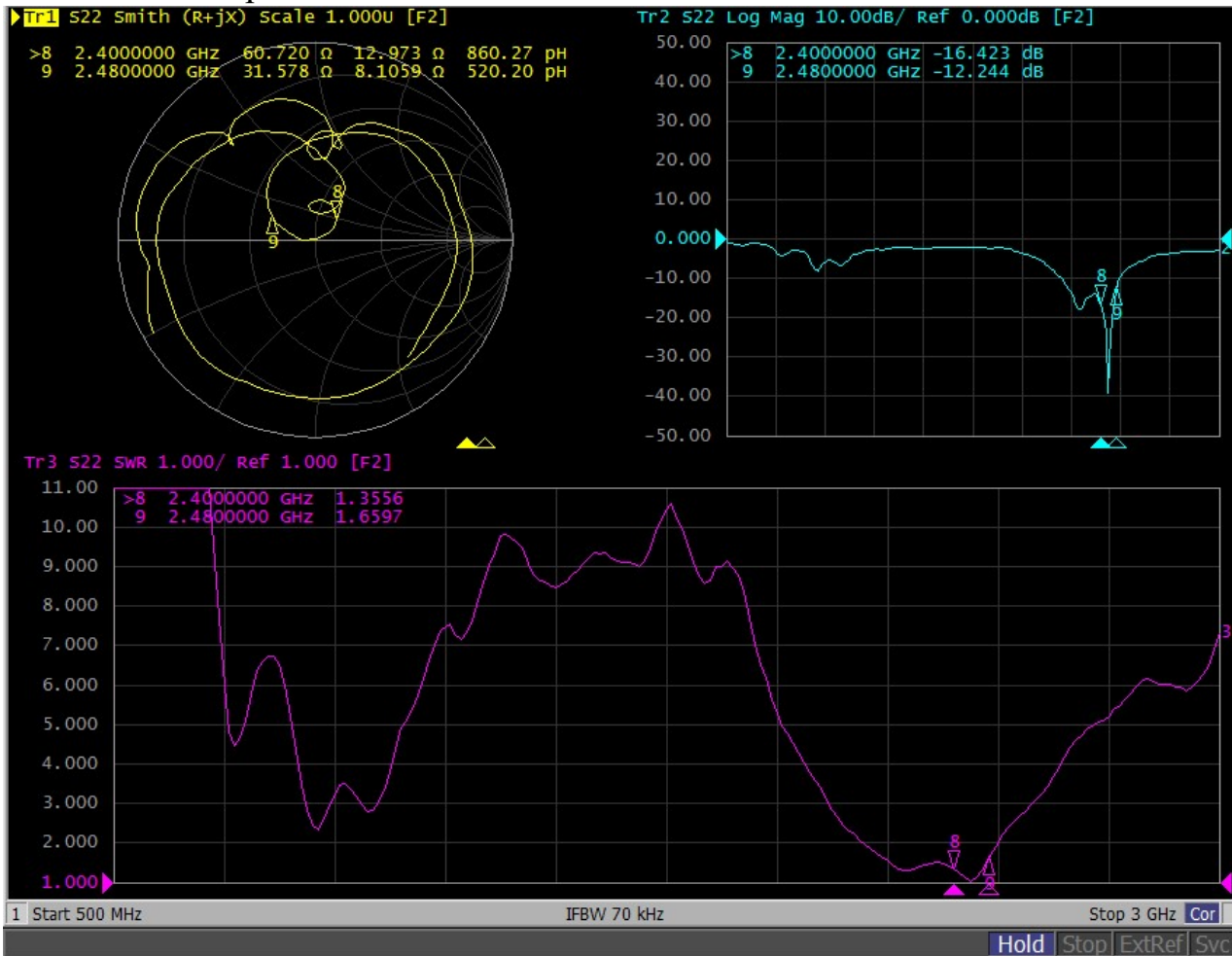


I: The report of passive data



Agilent E5071C

BT antenna S11 parameter:

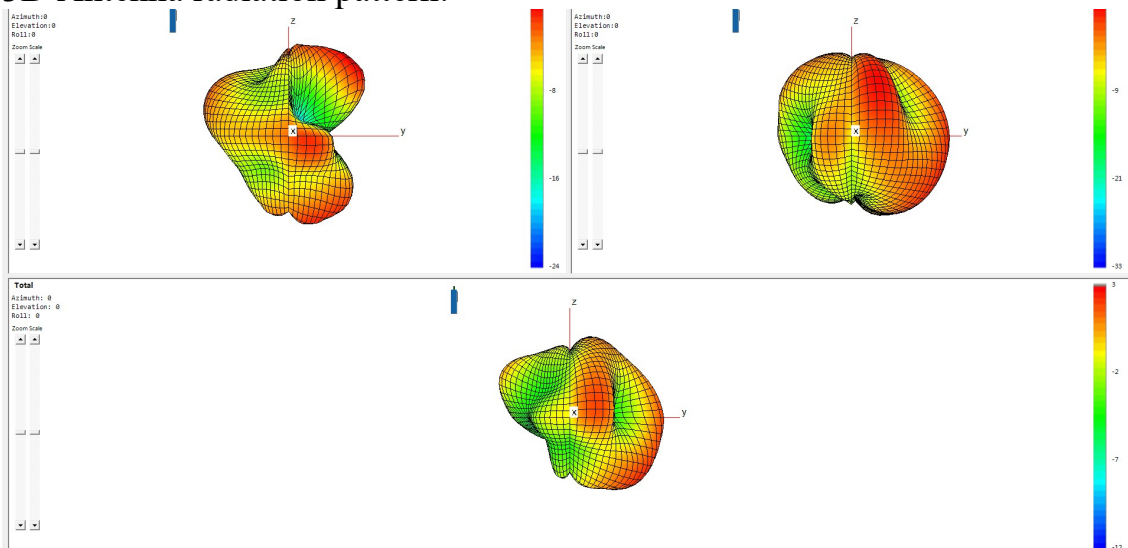




Efficiency:

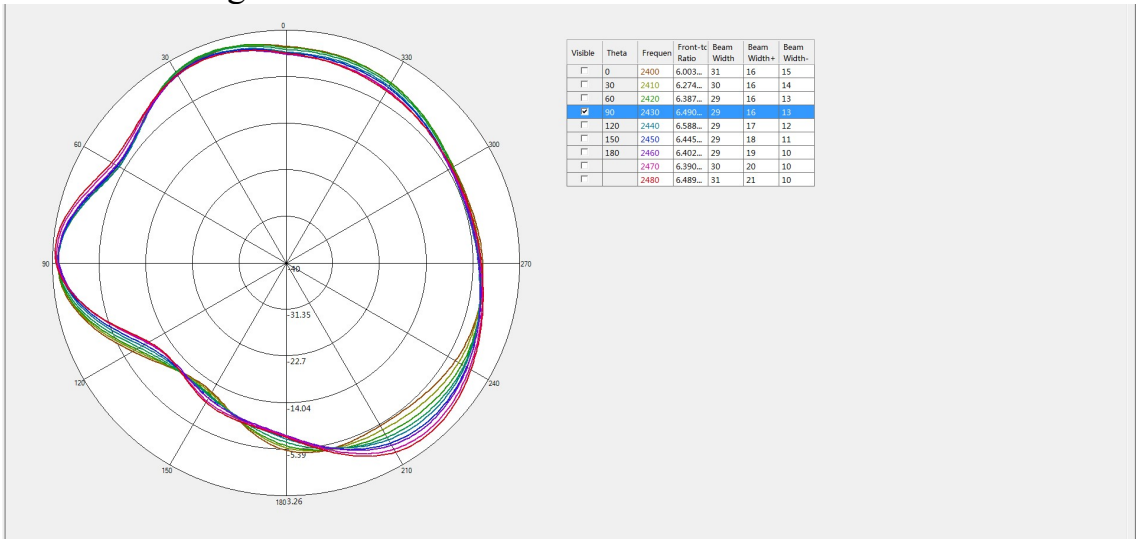
BT			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	59.9	-2.2	2.6
2410	59.8	-2.2	2.6
2420	59.9	-2.2	2.6
2430	57.9	-2.4	2.5
2440	56.2	-2.5	2.3
2450	57.4	-2.4	2.3
2460	55.8	-2.5	2.2
2470	59.3	-2.3	2.5
2480	61.2	-2.1	2.7
Average value	58.6	-2.3	2.5

3D Antenna radiation pattern:

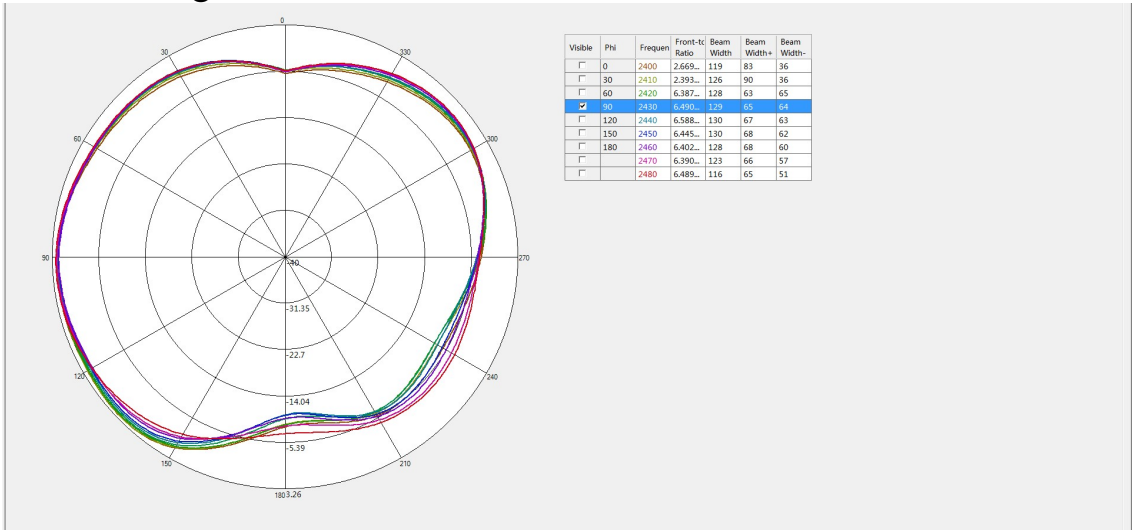




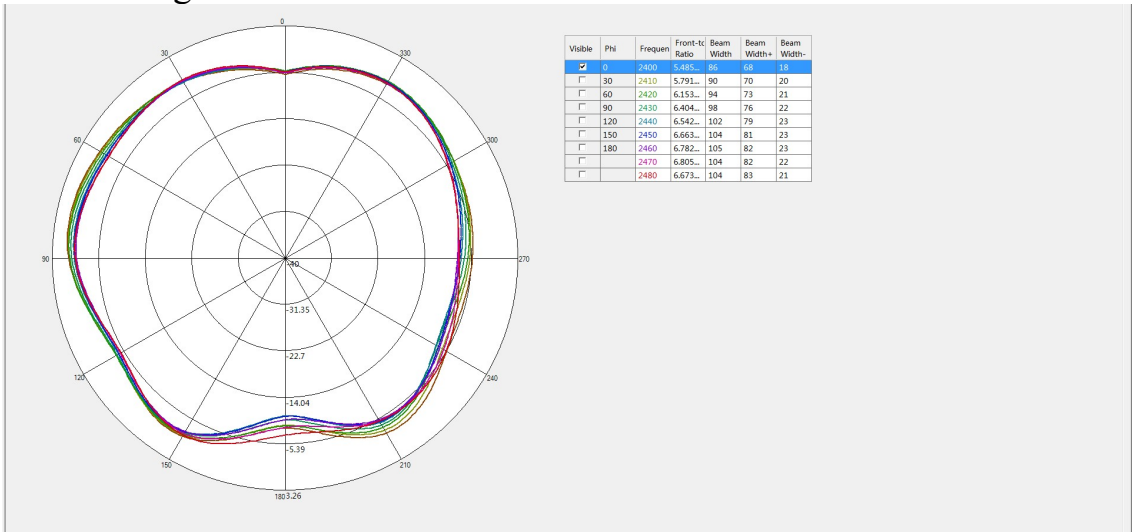
Antenna radiation pattern:  
Theta=90.00deg



Phi=90.00deg



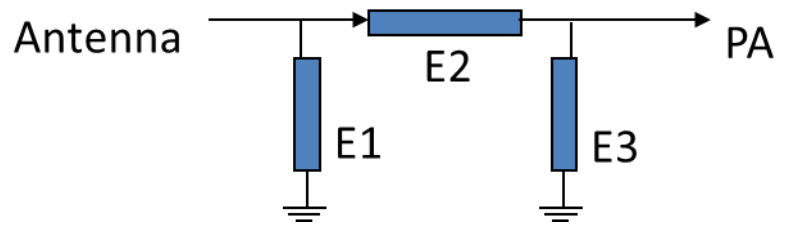
Phi=0.00deg





II: Matching circuit

Number	Value
E1	N/A
E2	0Ω
E3	N/A



III: 3D Active test report of antenna

Free Space	Channel	TRP(dBm)	TIS (dBm)
BT	CH 0	10.6	-93.1
	CH 39	11.5	-93.6
	CH 78	11.7	-93.6

Headform	Channel	TRP(dBm)	TIS (dBm)
BT	CH 0	9.0	-90.9
	CH 39	9.6	-91.8
	CH 78	9.9	-92.3



OTA Standard Chamber



