



Antenna Part Specification

Project name:	Q950 base_station
Material category:	2.4G 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
Antenna type:	PIFA
Version:	V3.0
Date:	2025.5.27



Contents

I: The report of passive data 3
 II: Matching circuit..... 6
 III: 3D Active test report of antenna 7
 IV: Environmental treatment 7
 V: Structure file: 8

Change record			
Compile / change date	Reason for change	Changed content	Version
2025.02.13	First edition	First edition	V1.0
2025.02.19	Antenna image file update	Update BT antenna image file	V2.0
2025.05.27	Update RF data	Update RF data	V3.0

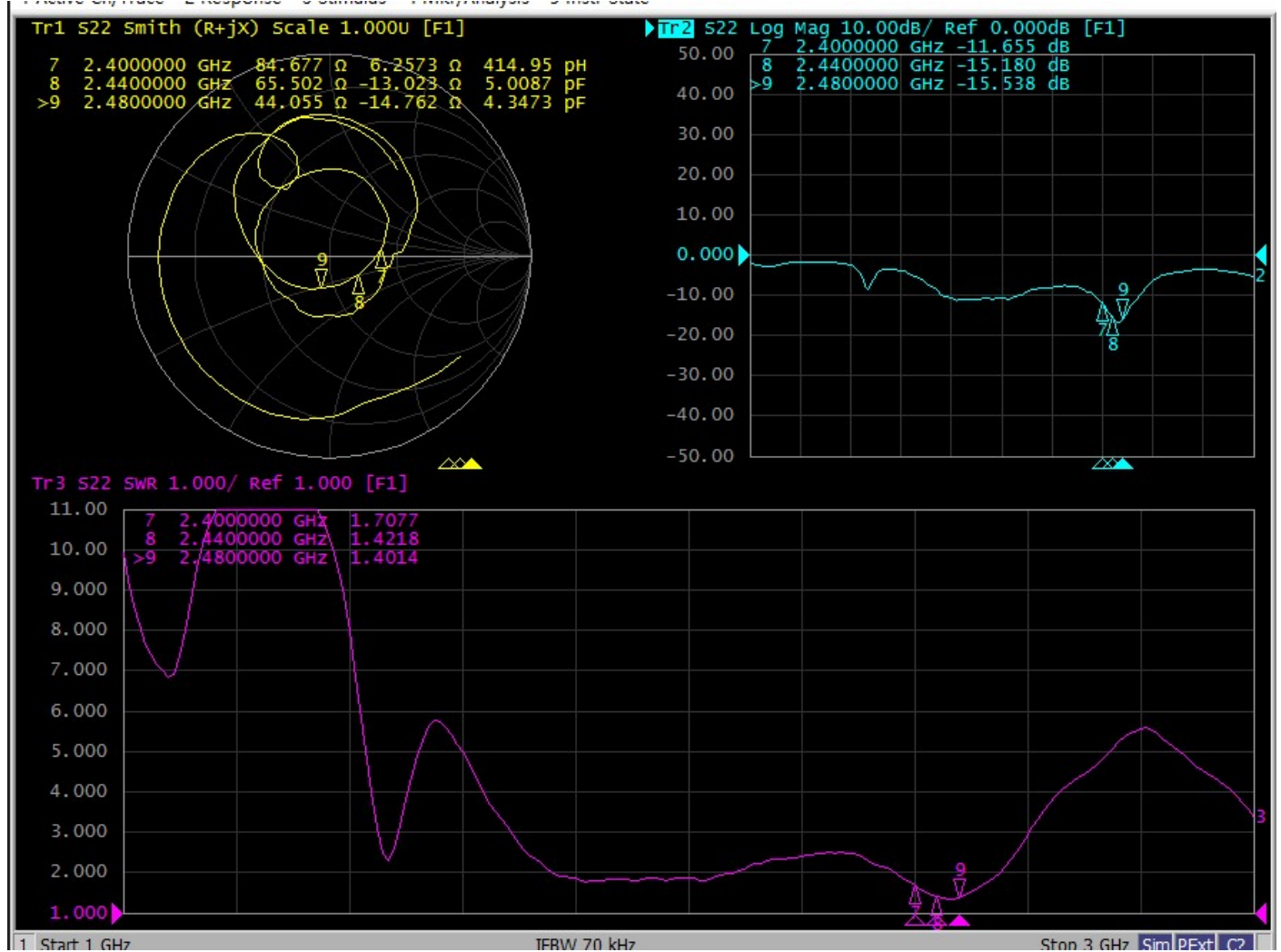


I: The report of passive data



Angilent E5071C

2.4G antenna S11 parameter: (free)

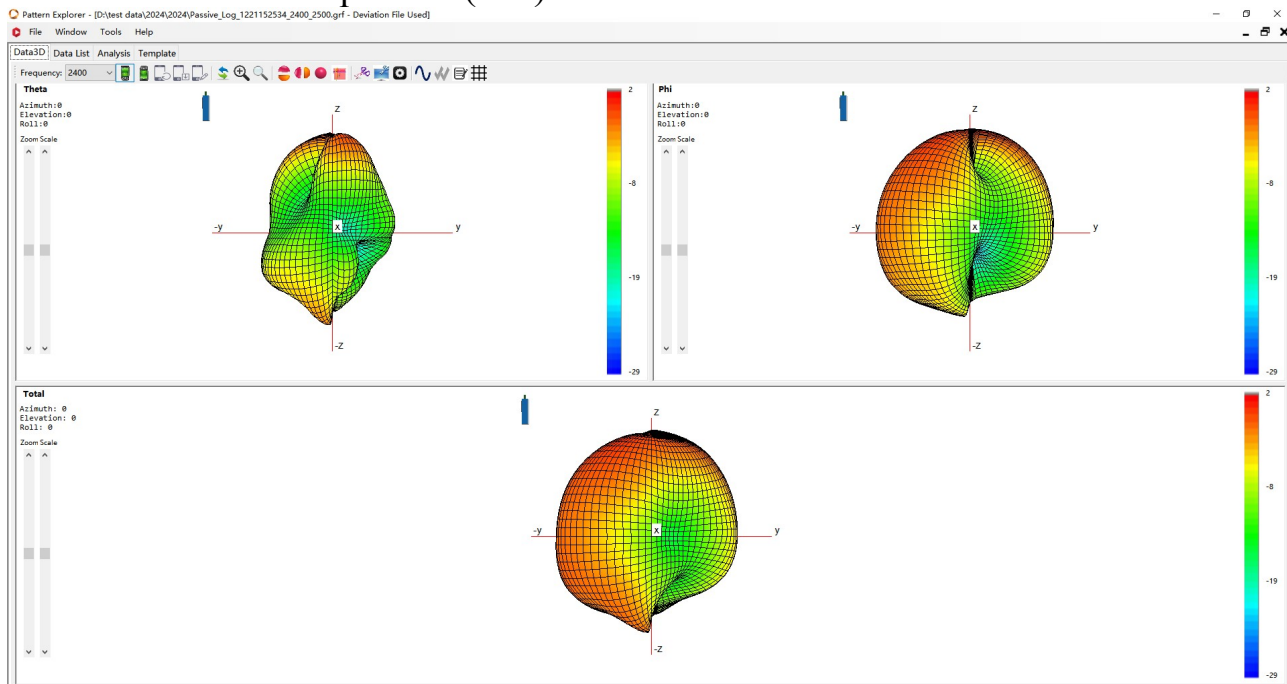




Efficiency: (free)

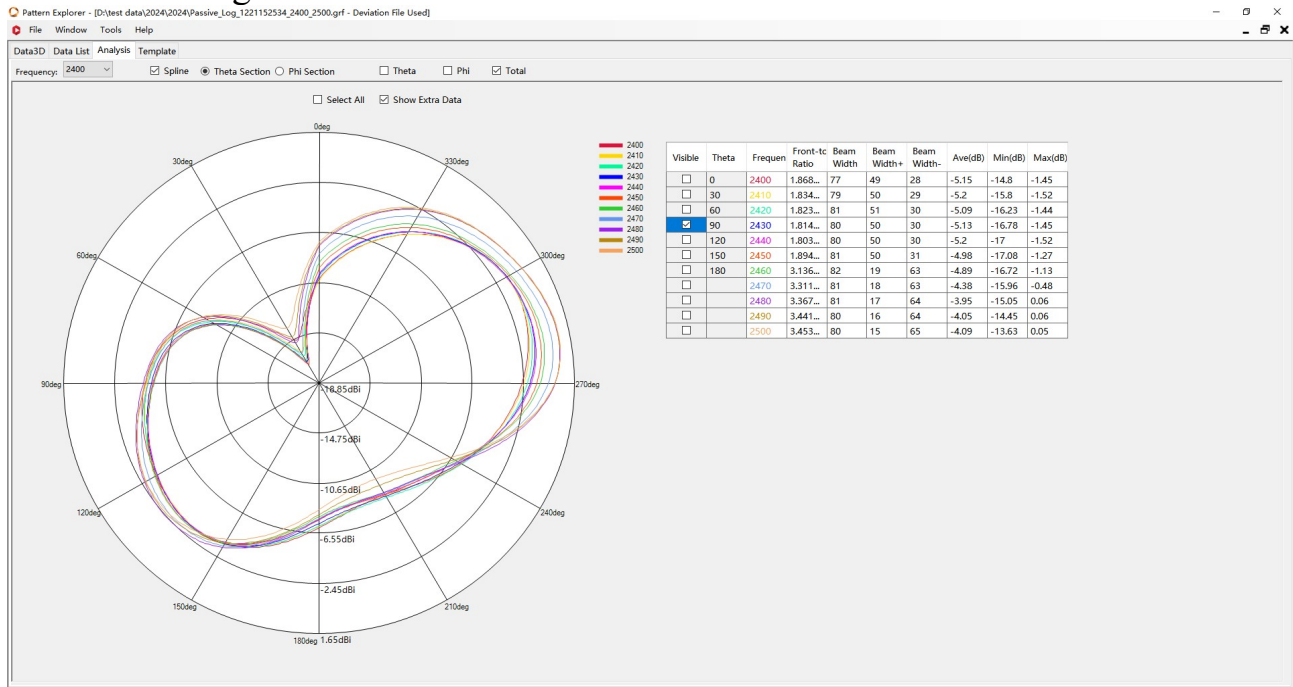
2400-2480MHz			
Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-3.6	1.6	43.7%
2410	-3.6	1.6	43.3%
2420	-3.6	1.6	43.2%
2430	-3.8	1.3	41.6%
2440	-3.9	1.1	40.4%
2450	-3.8	1.3	42.1%
2460	-3.8	1.1	42.0%
2470	-3.4	1.3	45.7%
2480	-3.1	1.4	48.9%
AVG	-3.6	1.4	43.4%

3D Antenna radiation pattern: (free)

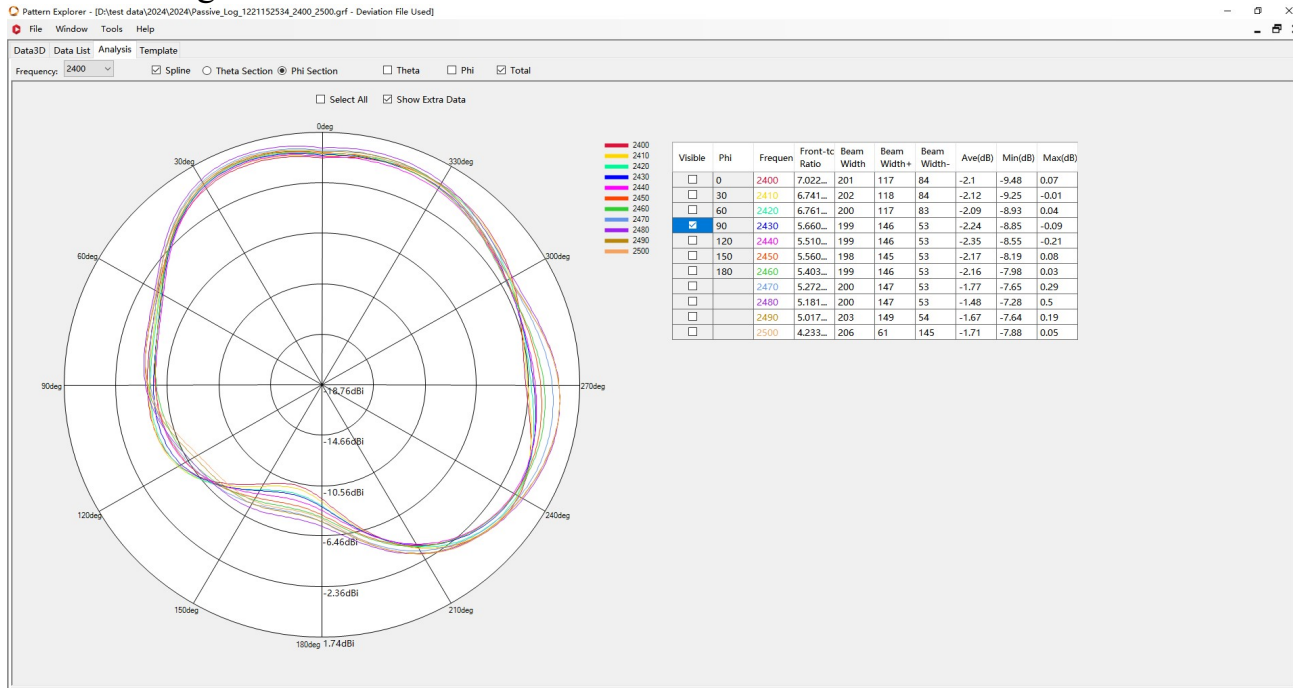




Antenna radiation pattern: (free) Theta=90.00deg

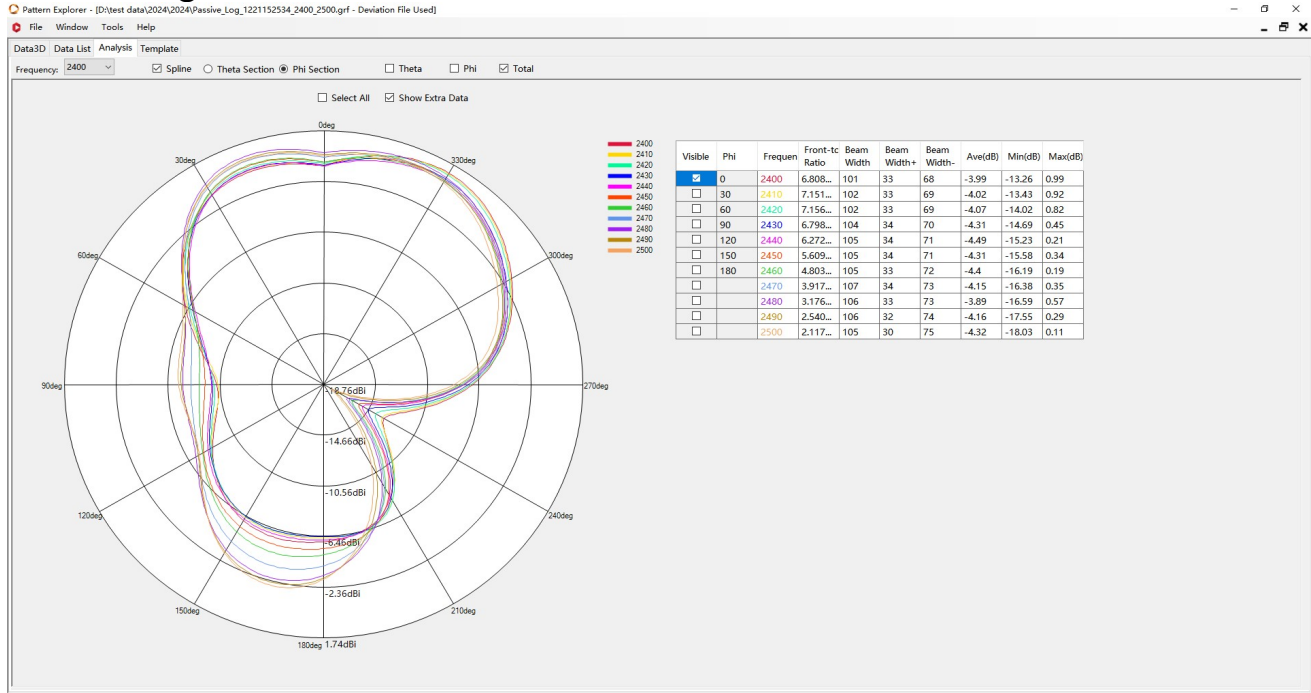


Phi=90.00deg

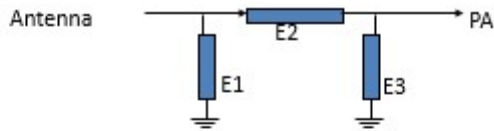




Phi=0.00deg



II: Matching circuit



number	Matching Value
E1	1.2PF
E2	0Ω
E3	NA





III: 3D Active test report of antenna

		free	
	Channel	TRP (dBm)	TIS (dBm)
2.4G	CH 0	8.1	-93.7
	CH 39	8.3	-93.6
	CH 78	8.4	-93.0



OTA Standard Chamber

IV: Environmental treatment



The line length is 80mm, and additional weight blocks have been added.



V: Structure file:

