



Antenna Part Specification

Project name:	Q10
Material category:	WIFI antenna
Antenna type:	Dipole
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
Version:	V1.0
Date:	2025.9.3



Contents

I: The report of passive data.....	3
II: 3D Active test report of antenna.....	6
III: Matching circuit.....	7
IV: Antenna environment processing.....	7
V: Antenna structure diagram file	8

Change record			
Compile / change date	Reason for change	Changed content	Version
2025.9.3	First edition	First edition	V1.0



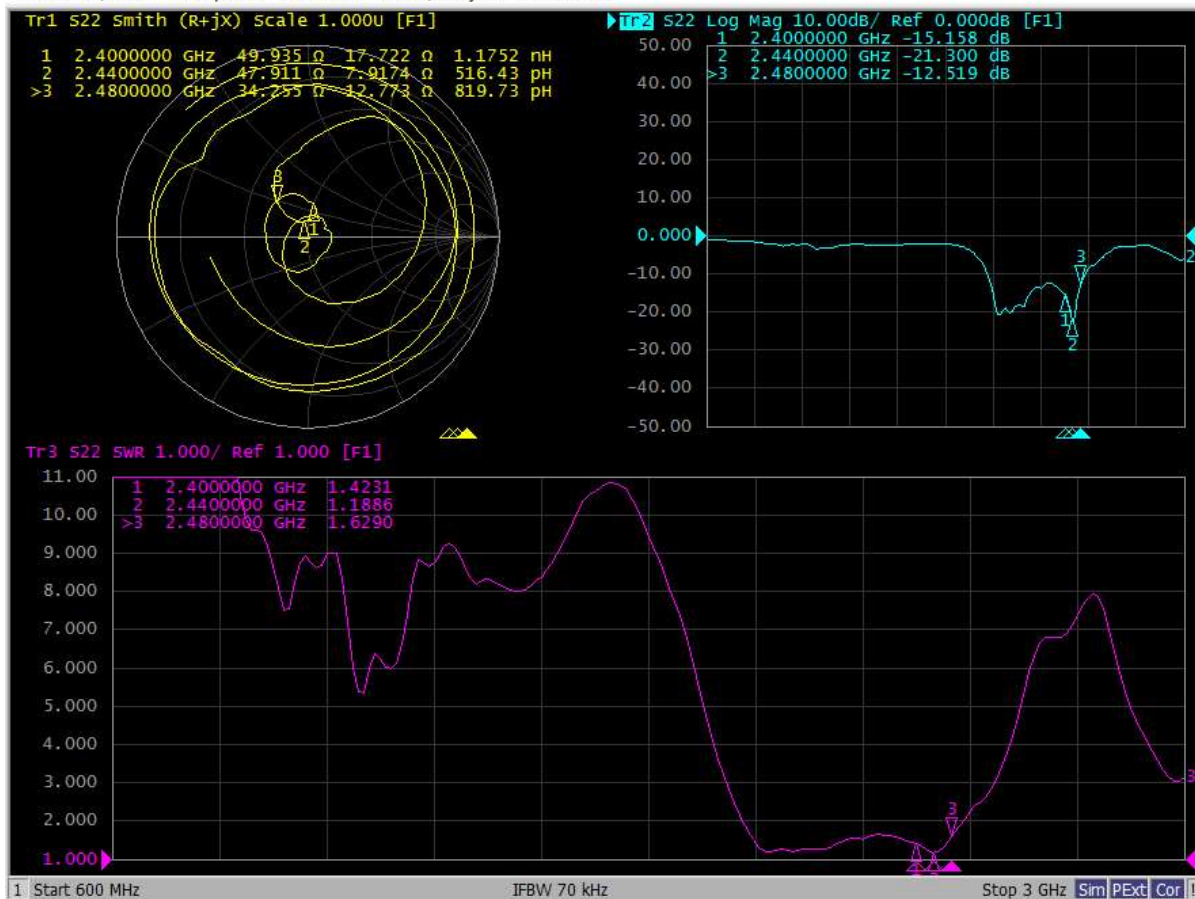
I: The report of passive data



Angilent E5071C

antenna S11 parameter:

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

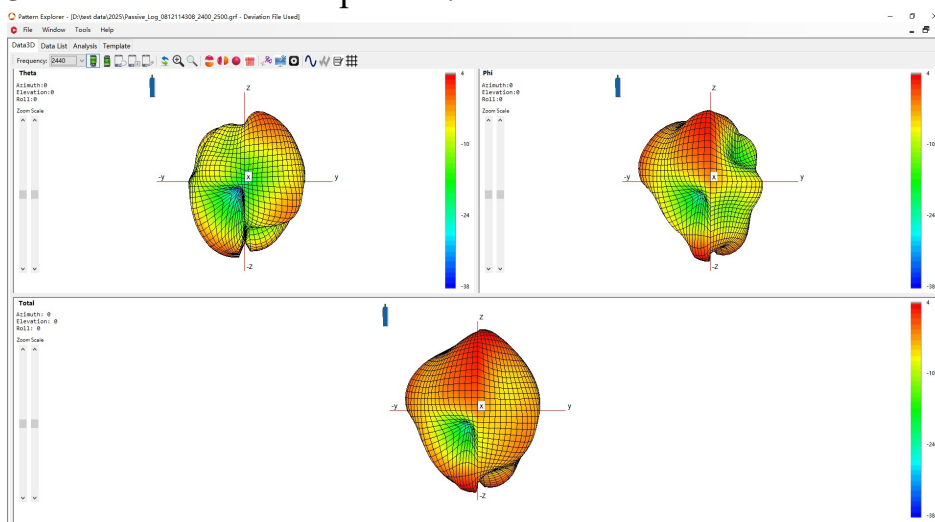




Efficiency:

2400-2480 MHz			
Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-3.15	1.97	48.42
2410	-3.04	2.37	49.65
2420	-2.99	2.80	50.24
2430	-3.01	3.08	50.06
2440	-3.00	3.22	50.15
2450	-2.97	3.33	50.46
2460	-3.00	3.37	50.08
2470	-3.10	3.35	49.00
2480	-3.12	3.27	48.80
AVG	-3.04	2.97	49.65

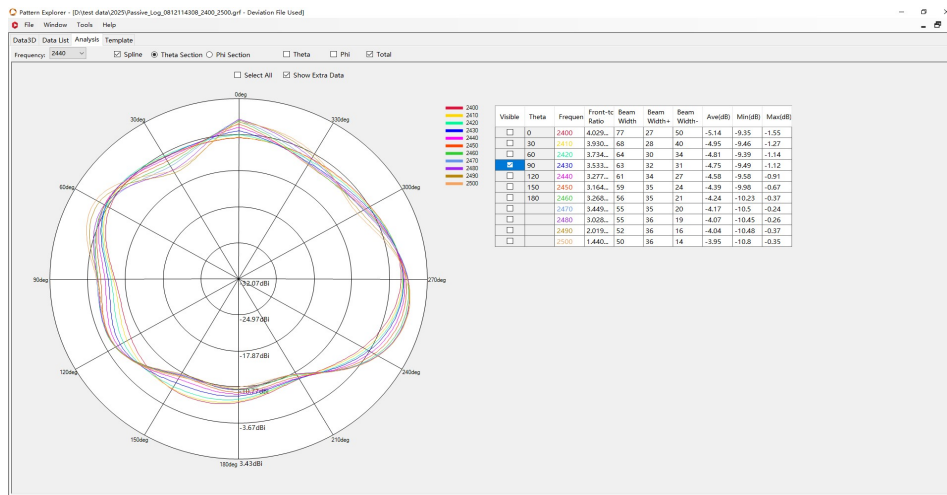
3D Antenna radiation pattern:



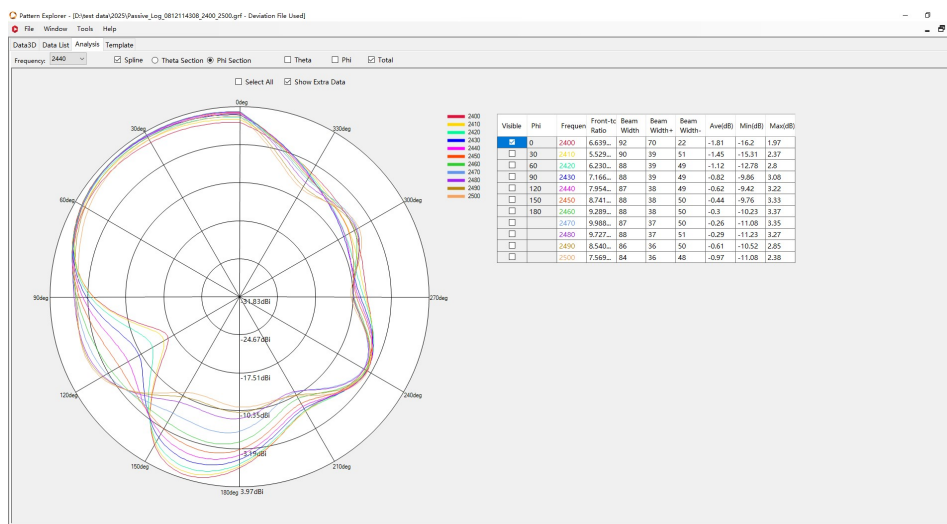


2D Antenna radiation pattern:

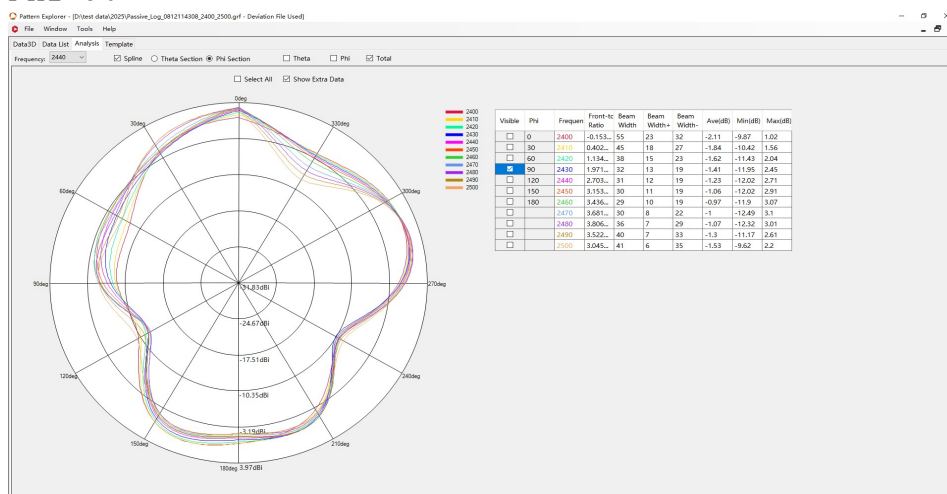
Theta=90°



Phi=0°



Phi=90°





II: 3D Active test report of antenna

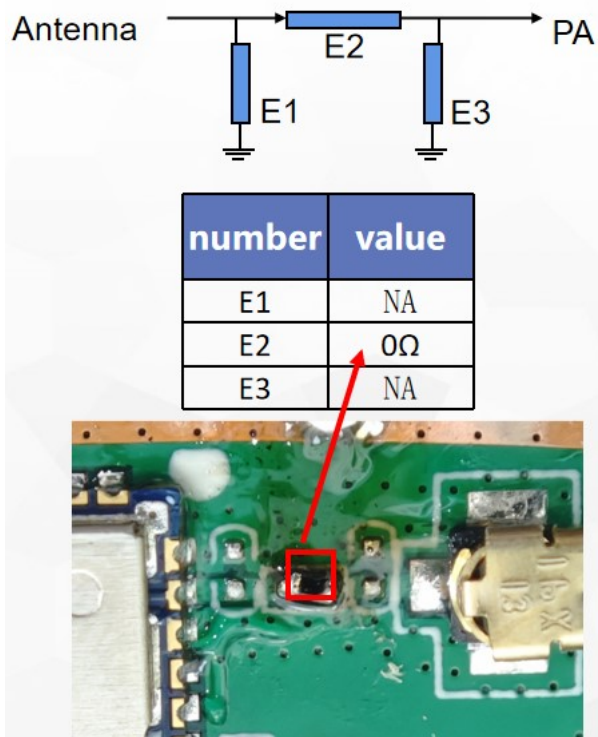
11M-static	Channel	TRP (dBm)	TIS (dBm)
WIFI B	CH 1	17.0	-82.3
	CH 7	17.5	-82.8
	CH 13	17.6	-84.3
54M-static	Channel	TRP (dBm)	TIS (dBm)
WIFI G	CH 1	15.7	-72.7
	CH 7	15.4	-72.3
	CH 13	16.3	-72.0
11M-Dynamic gear 1	Channel	TRP (dBm)	TIS (dBm)
WIFI B	CH 1	17.2	-80.2
	CH 7	17.5	-80.5
	CH 13	17.6	-80.0
54M-Dynamic gear 1	Channel	TRP (dBm)	TIS (dBm)
WIFI G	CH 1	15.4	-71.4
	CH 7	15.4	-71.3
	CH 13	16.3	-71.1
11M-Dynamic gear 4	Channel	TRP (dBm)	TIS (dBm)
WIFI B	CH 1	17.2	-78.5
	CH 7	17.5	-79.5
	CH 13	17.6	-79.6
54M-Dynamic gear 4	Channel	TRP (dBm)	TIS (dBm)
WIFI G	CH 1	15.4	-67.6
	CH 7	15.4	-67.4
	CH 13	16.4	-68.3



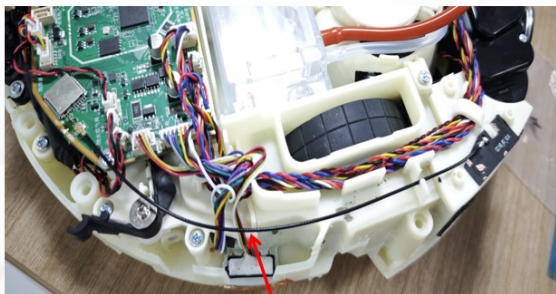
OTA Standard Chamber



III: Matching circuit

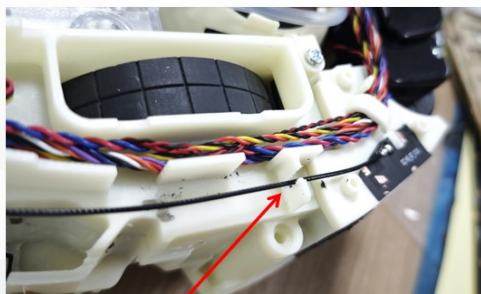


IV: Antenna environment processing



As shown in the figure:

1. The antenna is attached to the right side of the machine.
2. The same applies to coaxial lines, as shown in the above diagram.



Due to the need to place the cable line for the antenna here, a hole needs to be opened in the machine's bone position to allow the cable to pass through.



V: Antenna structure diagram file

