



Antenna Approval Sheet

For
WF03AProject

Customer		Project	WF03A
Band	WiFi 2.4G		
ZC PN	ZG005-CA-93		
Version	R:A	Data	2023-12-21

RF		ME	
Checked By			
Confirmed By			
Cust Confirm			



1.Manufacturer information

Company name: Shenzhen Zhongcheng communication products Co., Ltd

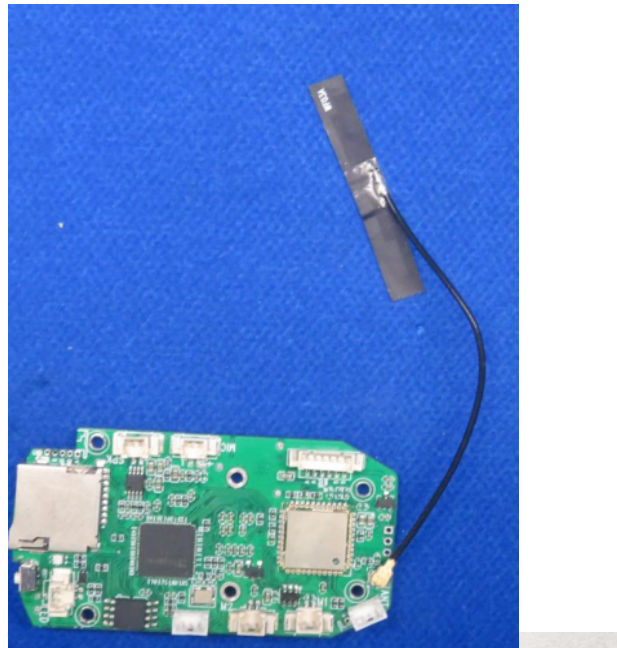
Address: 5th floor, building C, Huafeng Industrial Zone, Liuxian Road, 71 District, Bao' an, Shenzhen

2. Summary of the DUT

WF03A Picture



Antenna Picture



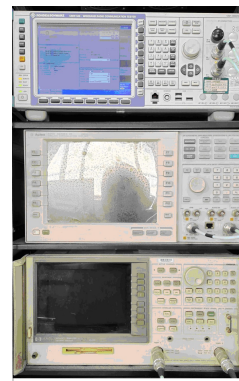
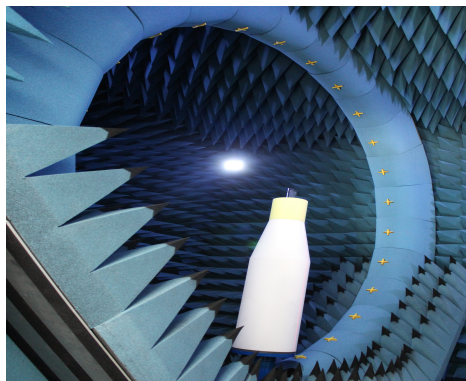
3. Electrical Specification:

Antenna types	Built-in WIFI antenna
Frequency	2400-2500 MHz
Impedance	50 Ω
VSWR	< 2.0
Peak Gain	2.4GHZ 1.5 dBi
Efficiency	>35 %
Antenna Material	FPCB+Coaxial Cable
Connector Type	1.13 MHF-1-Plug



4. Test Condition

4.1	TEST ITEM	TESTING INSTRUMENT	REMARKS
PASSIVE TEST	1.Radiation Pattern 2.Antenna Gain 3. Return Loss 4. S.W.R	1.Satimo SG24(3D) 2. Agilent 8960 E5515C 3. R&S ZVL6	



4.2 Matching Circuit The matching circuit was Default

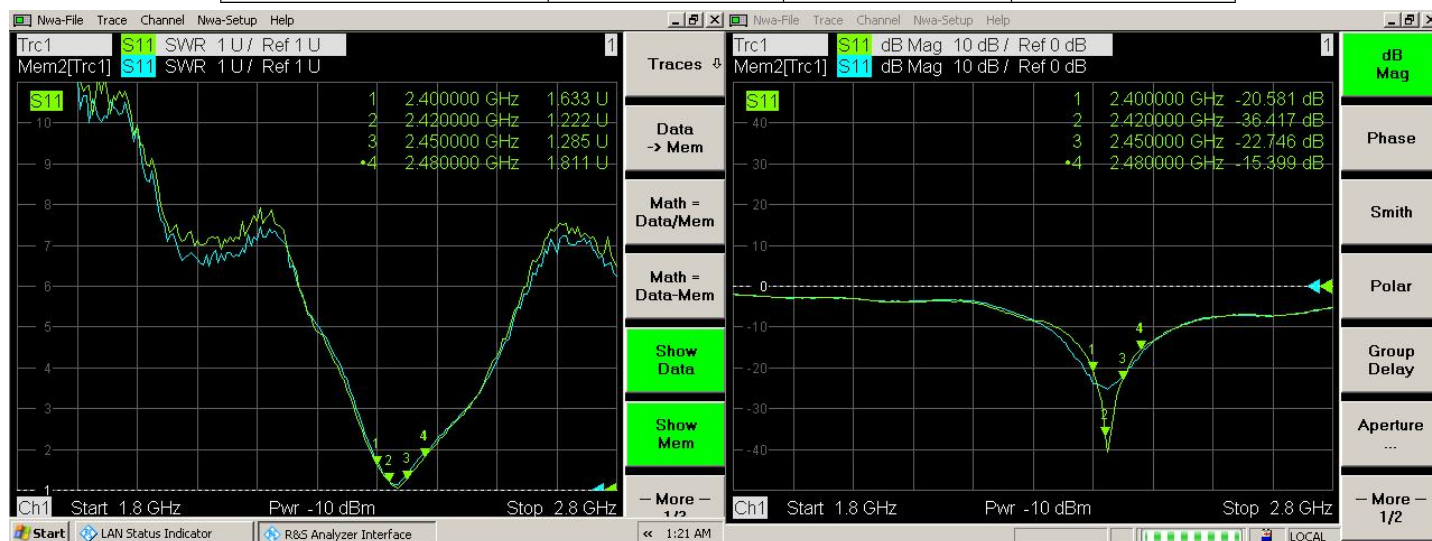
5. RF Performance

5.1 Passive parameters

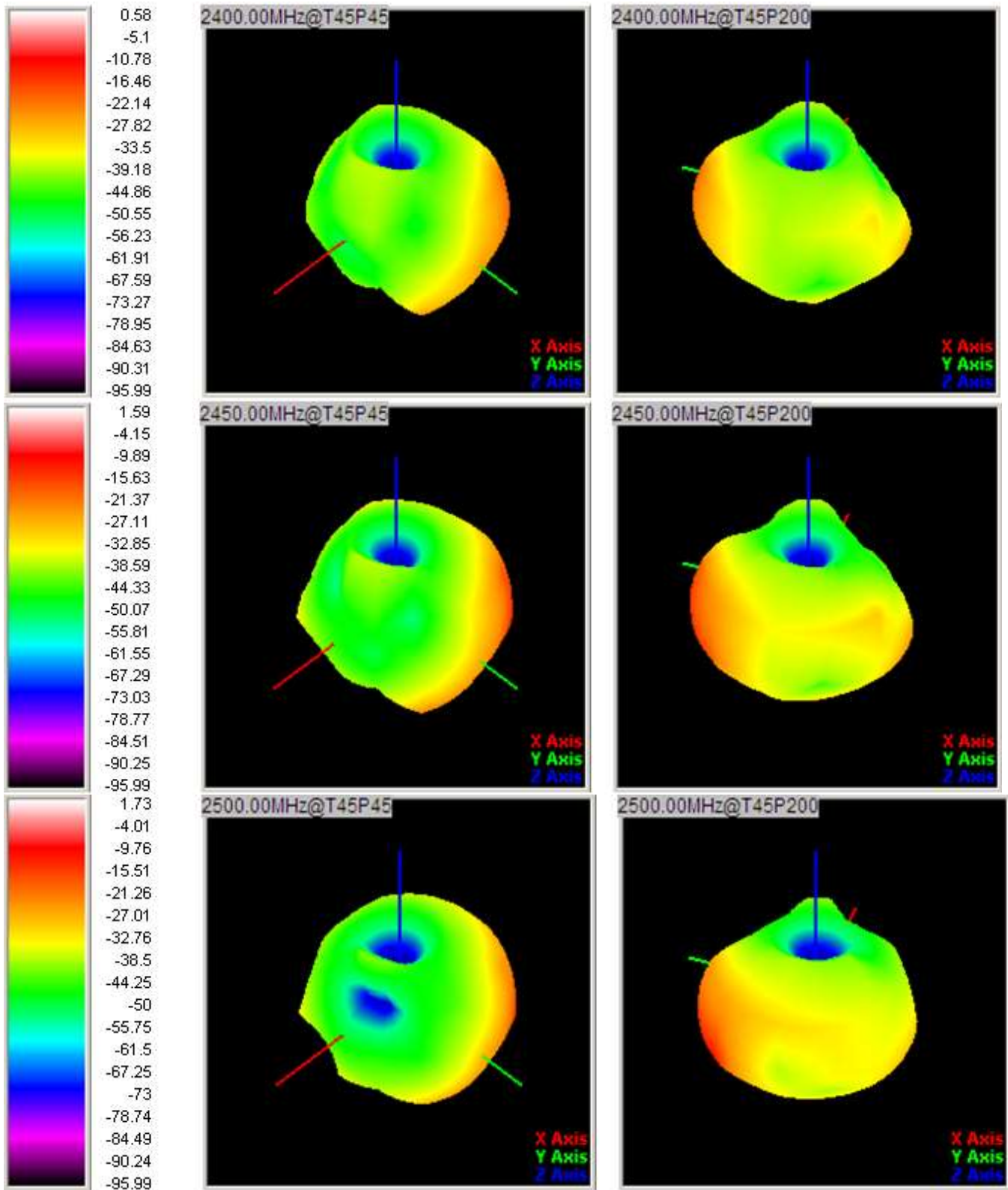
Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	0.58	0.66	1.1	1.02	1.17	1.59	0.72	0.08	0.72	1.19	1.73

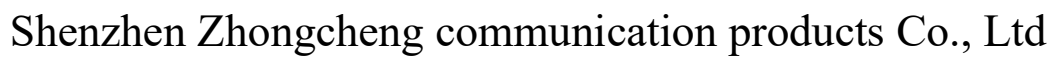
5.2 S Parameter

Frequency (MHz)	2400	2450	2480
Return Loss (dB)	-20.58	-22.74	-15.39
VSWR	1.63	1.28	1.81



5.3 Antenna 3D Radiation Pattern (Unit:dbi)





61-C'LS-Sr																								
Back adhesive																								
		REV		Description of change		BY		DATE																
		T:A		New drawings		GUO		2023-12-21																
Technical note:																								
1. The total length of the coaxial cable is 55 mm.																								
2. Can not burn PFC, can not cause PFC deformation, wrinkle, indentation,																								
3. Stripping wire can not be deformed or broken.																								
4. Add "*" size as the important dimensions, add "0" as the reference dimension																								
<table border="1"> <tr> <td>NO.</td> <td>Product Name</td> <td>Part NO.</td> <td>Material</td> <td>Color</td> </tr> <tr> <td>1</td> <td>PFC</td> <td>Z6005-P6-13</td> <td>PI</td> <td>—</td> </tr> <tr> <td>2</td> <td>Cable</td> <td>T13-70</td> <td>TC4EP</td> <td>Black</td> </tr> </table>		NO.	Product Name	Part NO.	Material	Color	1	PFC	Z6005-P6-13	PI	—	2	Cable	T13-70	TC4EP	Black								
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Shenzhen Zhongcheng Communication Technology Co., Ltd.		Third Angle:		Unit: mm		NAME: Antenna		DATE: 2023-12-21																
General Tolerance				<table border="1"> <tr> <td>±0.5</td> <td>PART NO. Z6005-CA-93-7A</td> <td>DRWN:</td> </tr> <tr> <td>±0.25</td> <td>MATERIAL:</td> <td>CHKD:</td> </tr> <tr> <td>±0.10</td> <td>SURFACE:</td> <td>APPD:</td> </tr> <tr> <td>±0.05</td> <td>COLOR:</td> <td>SCALE: 2:1</td> </tr> <tr> <td>ANGULAR</td> <td>±1°</td> <td>REV: T:A</td> </tr> </table>		±0.5	PART NO. Z6005-CA-93-7A	DRWN:	±0.25	MATERIAL:	CHKD:	±0.10	SURFACE:	APPD:	±0.05	COLOR:	SCALE: 2:1	ANGULAR	±1°	REV: T:A				
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