



SHUN DA CHENG TECHNOLOGY CO, LTD

Antenna Test Report



Professional design and supplier of
4G/3G/GPS/WIFI antenna schemes

Customer Name : Singui Peak Technology Co.Ltd.

Project Name : TongGuan

Band : WIFI

Version : A

Date : 2023-12-08



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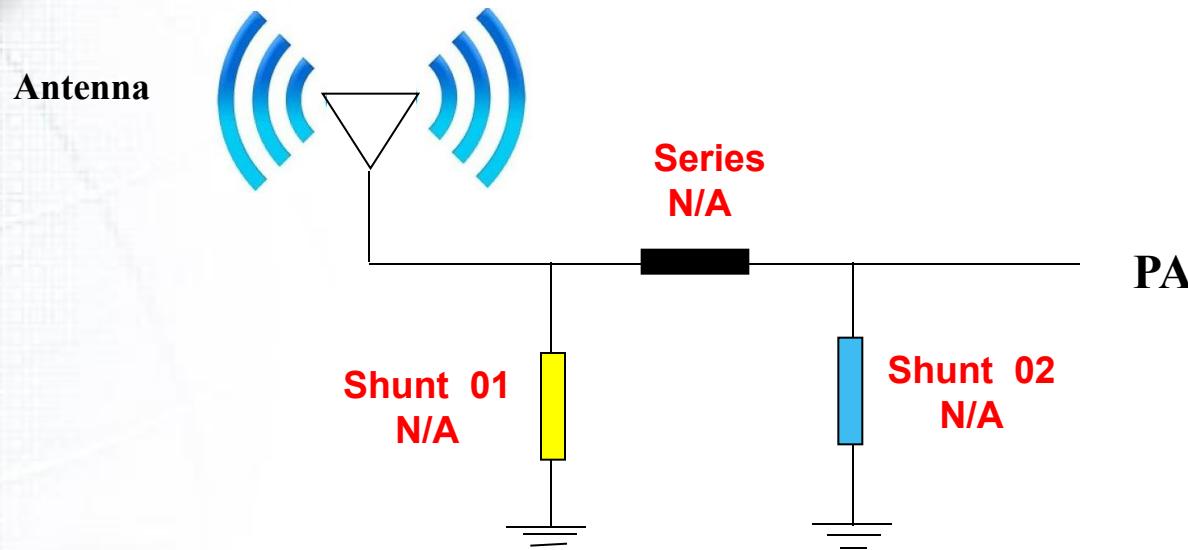
1. Test system

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 &CMW2 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C





2. Antenna Matching Network



Location	Description	Vendor
Shunt 01	N/A	N/A
Series	N/A	N/A
Shunt 02	N/A	N/A

**Unchanged
motherboard
matching
circuit**



S11 Parameter-SWR



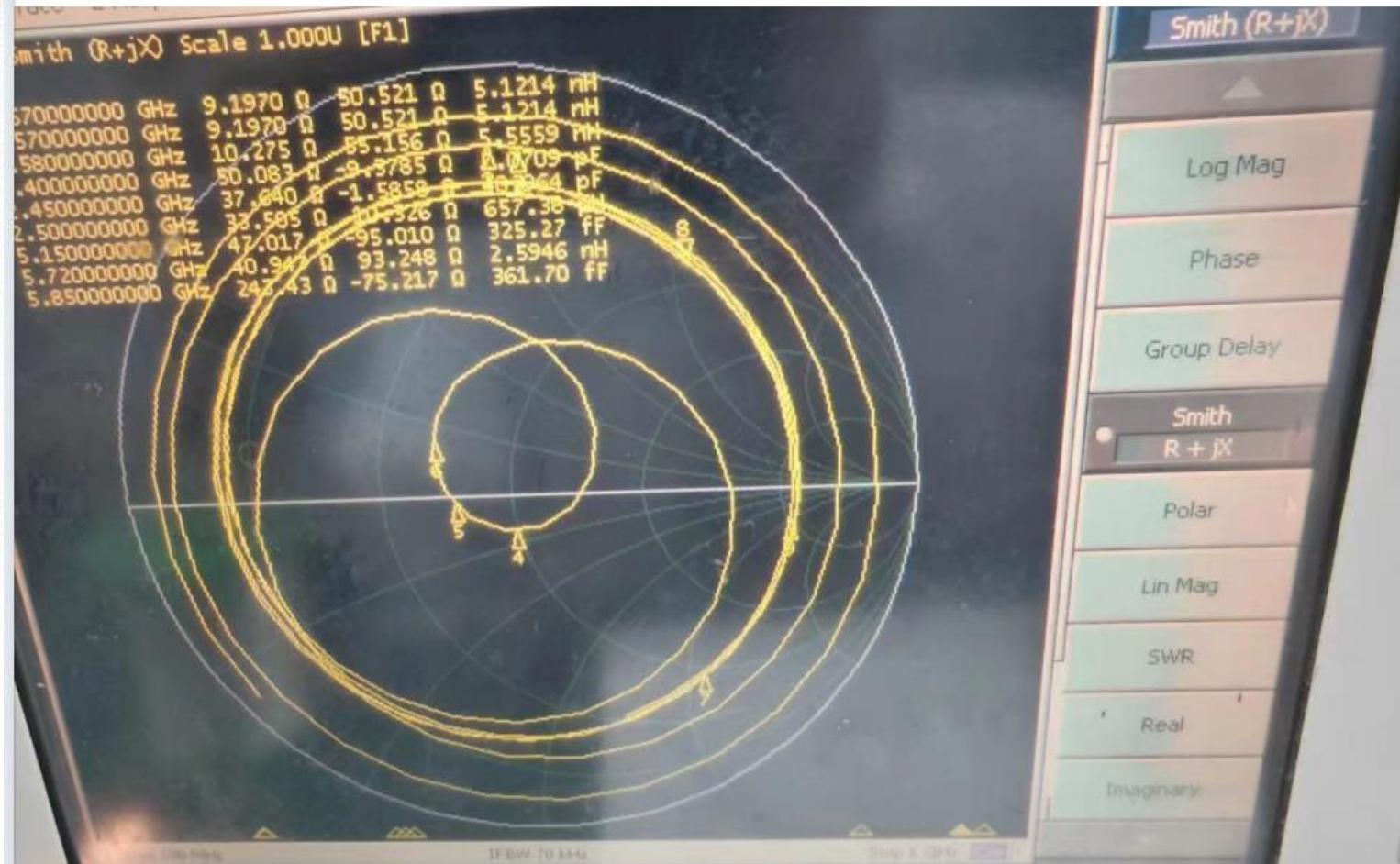


S11 Parameter-Log Mag





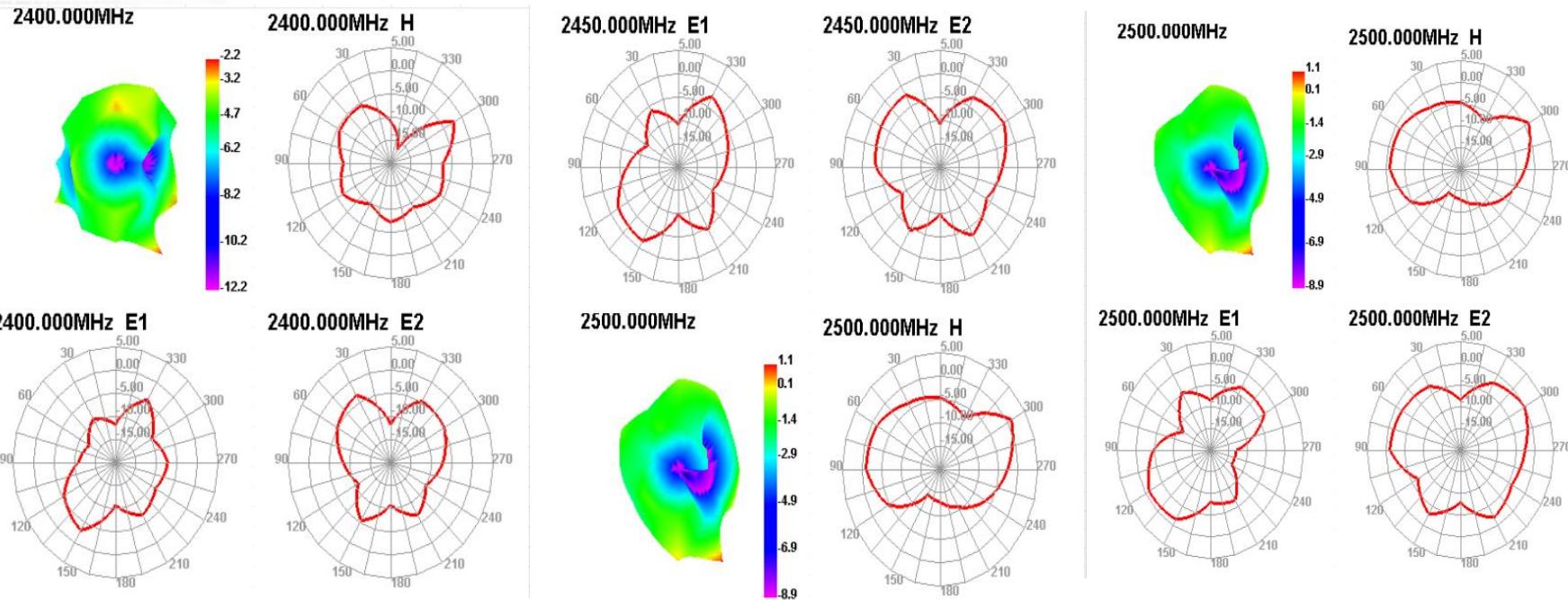
S11 Parameter-Smith





Gain & Efficiency

Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	38.15	-3.86	0.75	-4.38	0	0	1.08	-16.52	4.12	30	47.77	47.82
2425	41.83	-3.78	1.16	-4.09	0	0	1.16	-13.83	3.94	30	48.06	48.12
2450	38.93	-4.57	0.89	-2.67	0	0	0.89	-14.72	4.05	30	48.56	48.53
2475	39.06	-4.08	0.93	-1.81	0	0	0.93	-16.94	4.42	30	48.46	48.26
2500	42.11	-3.76	1.22	-1.07	0	0	1.22	-13.76	4.83	30	48.42	48.12





A	B	C	D	E	F	G
					REV DATE	DESCRIPTION
1					A0 2023.03.23	New Issue
2						
3						
4						
5						
6						

Coaxial length: 1000 ± 2

Baking tube $\phi 4.4$

Length of copper pipe: 24.8

The core is exposed: 25

① ② ③ ④ ⑤

5	Terminal	IPEX1	1		
4	Wire core	Expose25mm	1		
3	Baking tube	4.0*34mm White casing	1		
2	Cable	$\phi 1.13$ Cable White, 50Ω	1000		
1	Copper pipe	$\phi 4.4*24.8$ mm Silver copper pipe	1		
NO	DESCRIPTION			Q'TY	REMARK

XX.	± 5	APPROVED	CUSTOMER: PART NAME: SDC P/NO : DRAWING	Singui Peak		
X	± 3.0	符学荣		WIFI antenna (copper pipe) with a diameter of $4.4*24.8$ silver copper pipe +1.13 white wire +IPEXI+ with a diameter of $4.0*34$ mm white casing, the total length of 1000mm+ exposed 25mm		Shenzhen City shun reachTechnology Co., LTD.
X	± 1.0	CHECKED		T170-1131-K1000-25		
XX	± 0.5	李瑶娜		FILE :		
.XXX	± 0.1			A0	m/m	
		李瑶娜		SHEET : 1/1		



Thank you for your support

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