

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A2)

	CUSTOMER(客户名称)	Newland	
	CS P/N(客户机种)	N950	
	PART NAME(品名)	WIFI	
	FREQUENCY(频率)	2400-2500MHz, 5150-5850MHz。	
	ZTX NO.(物料编号)	F.00000509	
	DATE(日期)	2022-9-9	



福州中天迅通信技术有限公司
ZHONGTIAN XUN Communication Technology Co.,Ltd.

Fuzhou Address: Building 45, Unit SC02, 2nd Floor, Jinshan Industrial Zone,
Cangshan District, Fuzhou City, Fujian Province

ANTENNA SPECIFICATION

CUS P/N : N950 WIFI

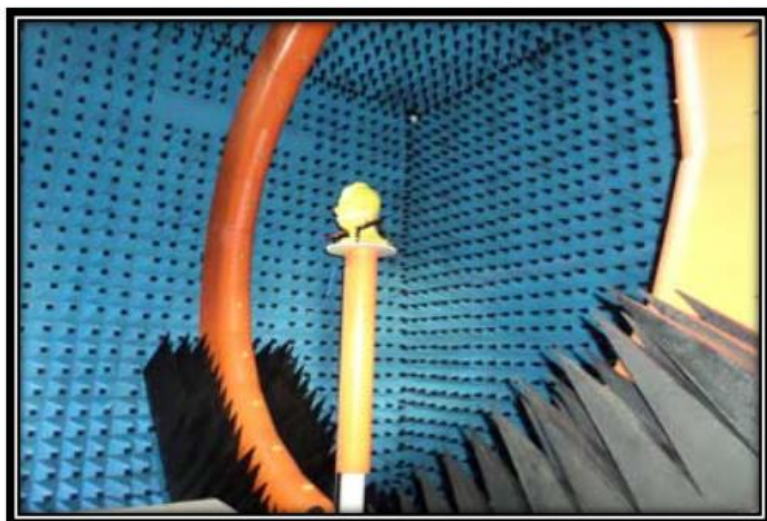
ApplicationDate:Sep,9,2022

Rev: R:A2

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Editor:

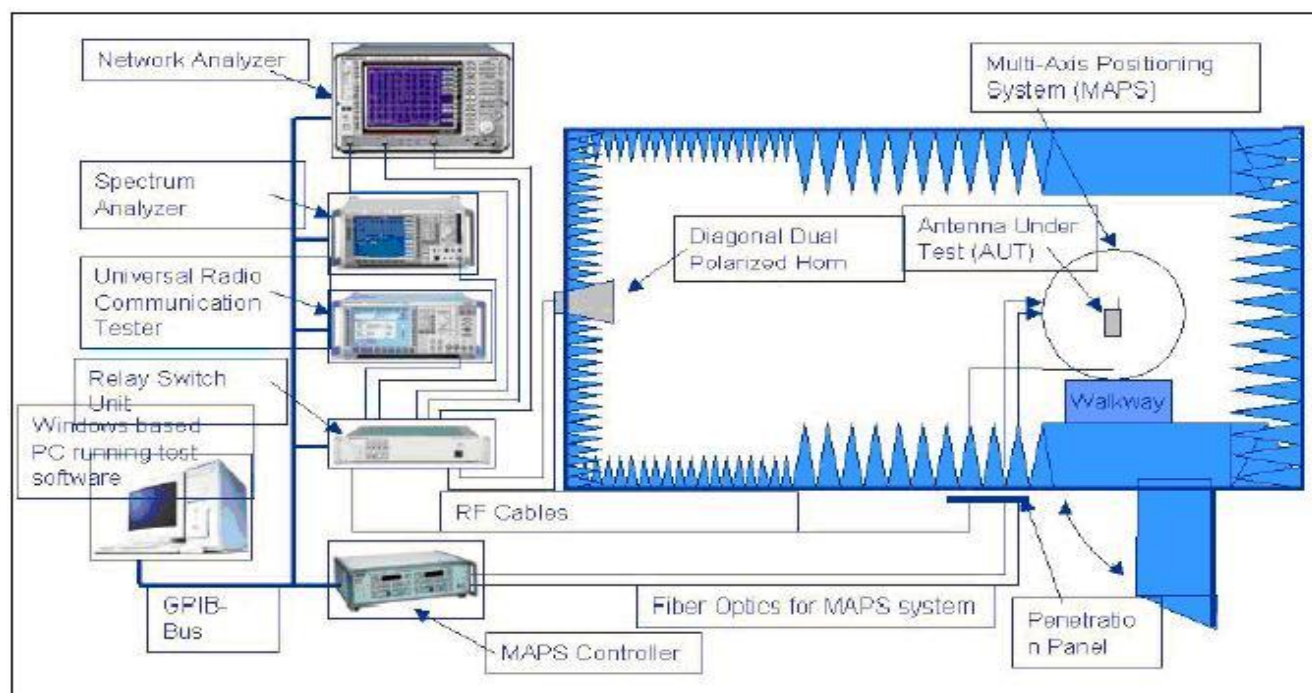
1. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CITA standards.

Testing range:

Support active, passive testing of
GSM/CDMA/WCDMA/TD-
SCDMA/LTE/WIFI/WLAN/WiMax/BT
/GPS/MIMO/UWB within 0.4-6G.



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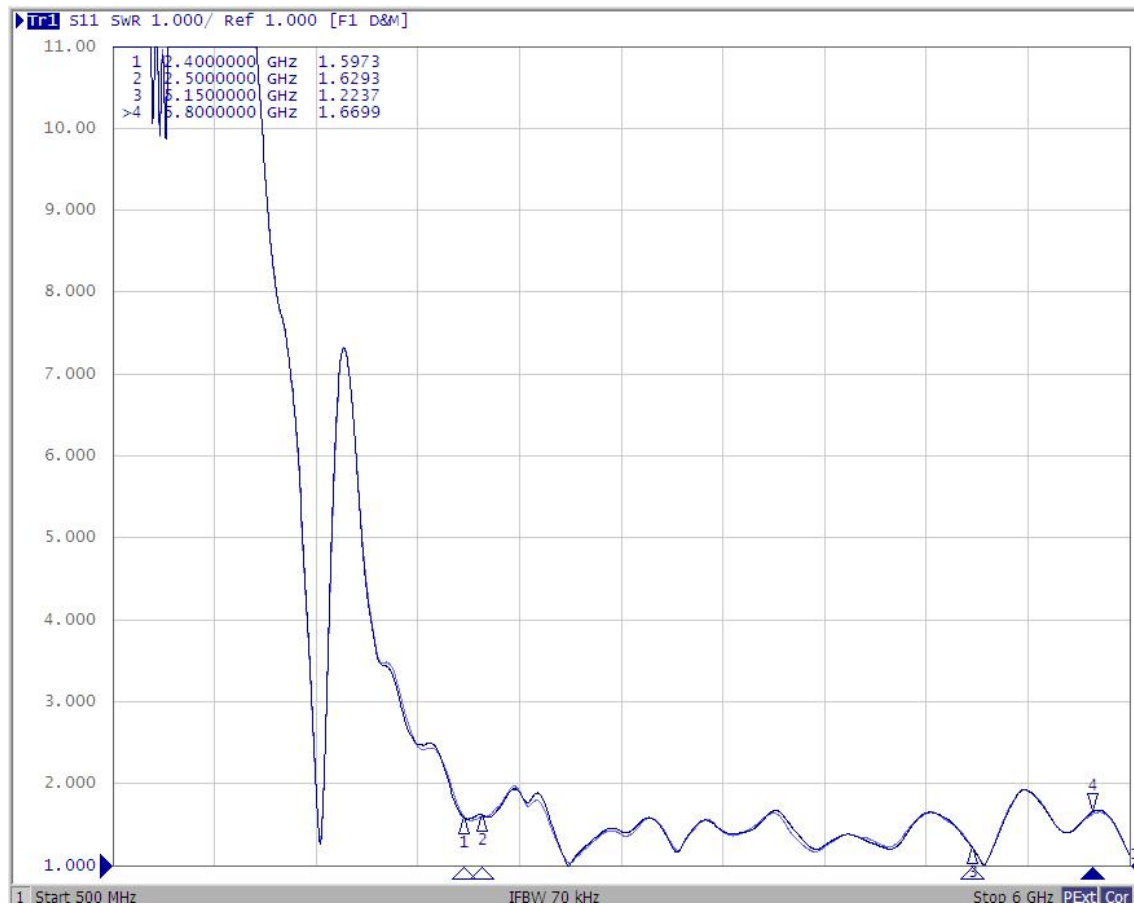
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2. Antenna test data

2-1 VSWR



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2-2 Antenna passive test

chNo	Freq (MHz)	Gain (dBi)	Efficiency_ Pcent (%)	chNo	Freq (MHz)	Gain (dBi)	Efficiency_ Pcent (%)
1	2400	0.315195	42.35424	16	5350	-0.57378	34.08853
2	2410	0.456693	43.76952	17	5400	-0.42462	35.16685
3	2420	0.837307	45.10086	18	5450	-1.06229	30.20873
4	2430	0.703193	44.5147	19	5500	-1.15095	32.39089
5	2440	0.320372	42.9824	20	5550	-0.05744	30.56973
6	2450	0.427159	44.19127	21	5600	1.006023	30.55984
7	2460	0.337641	44.42312	22	5650	1.352835	32.24879
8	2470	0.353612	45.87617	23	5700	0.735721	32.62423
9	2480	0.359295	44.31366	24	5750	-1.22719	30.76339
10	2490	0.371114	44.51974	25	5800	-0.13736	31.43563
11	2500	0.716495	46.34328	26	5850	0.080963	31.05619
12	5150	-0.3302	30.6478				
13	5200	-0.0176	30.90572				
14	5250	0.821039	35.05076				
15	5300	-0.76602	32.34756				



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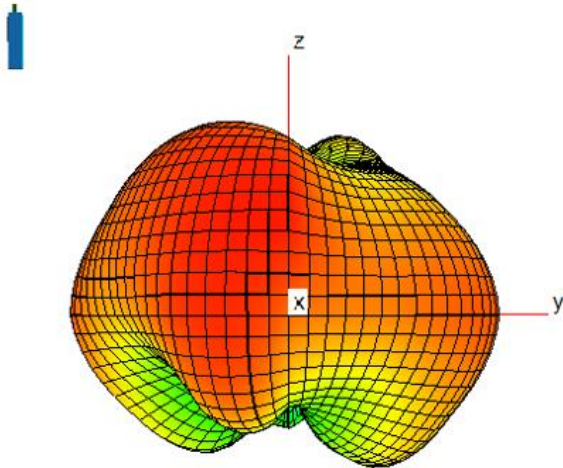
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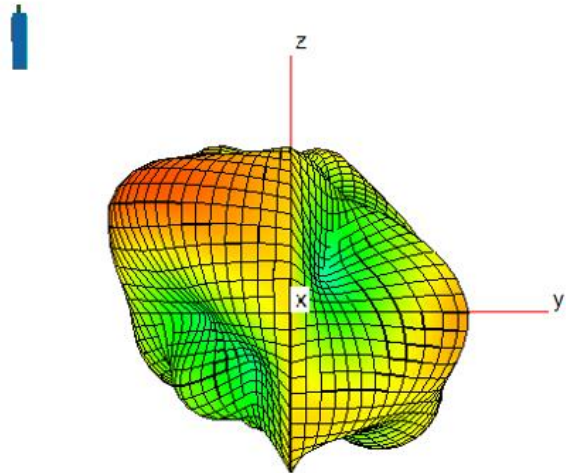
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2-3 3D radiation drawing

2450MHz



5500MHz



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2-4 Active test data 11-200L

2.4G 802.11g	channel	1	7	13
	TRP (dBm)	13.33	14.15	13.55
	TIS (dBm)	-70.83	-71.37	-70.49



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1-200E

2.4G 802.11g	channel	1	7	13
	TRP (dBm)	11.26	11.04	11.34
	TIS (dBm)	-69.40	-70.58	-70.31
5G 802.11a	channel	36	100	161
	TRP (dBm)	8.78	9.82	9.36
	TIS (dBm)	-68.05	-65.85	-66.83



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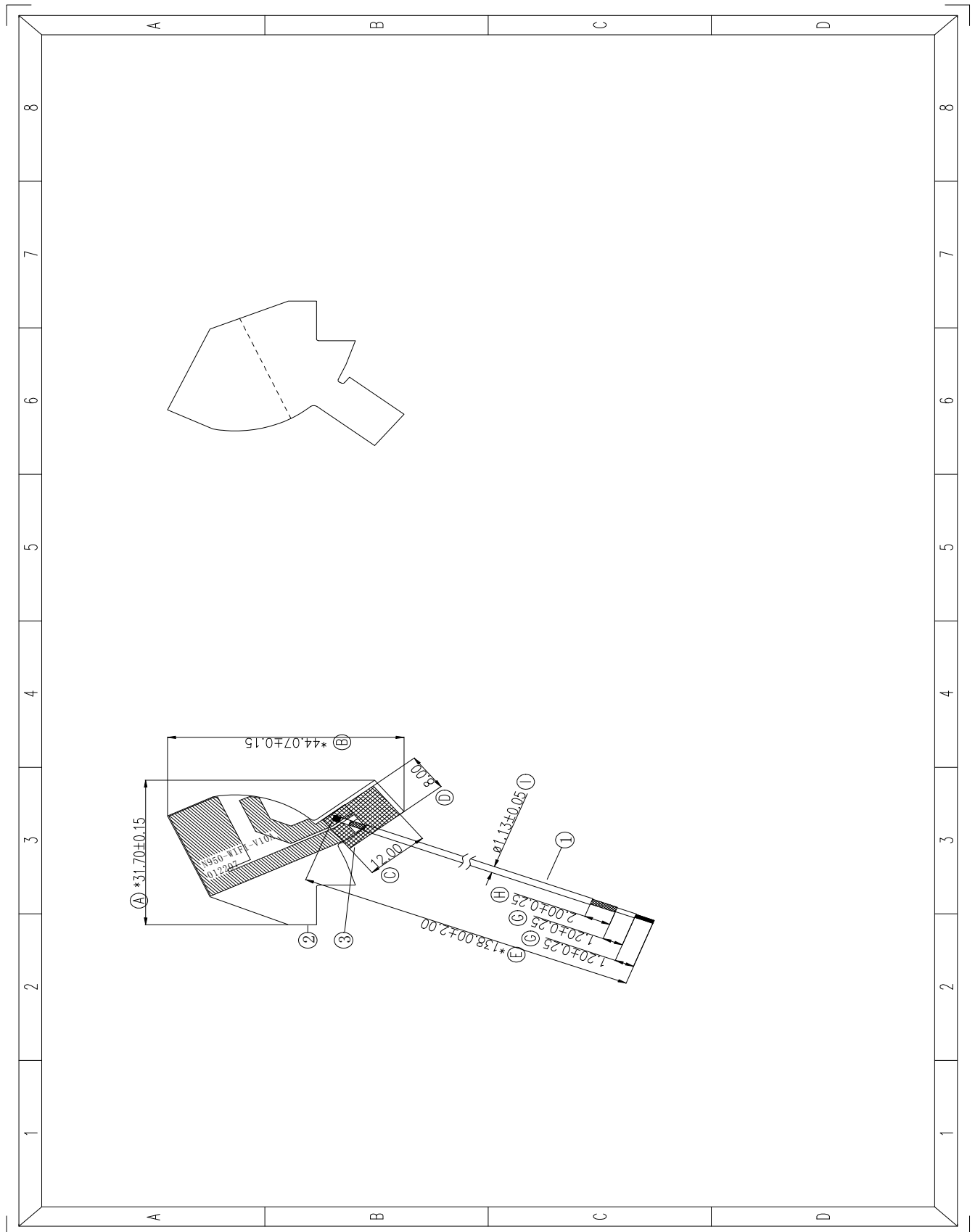
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3. Mechanical Specification



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4.Size report

5.Salt-Spray test

6.Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
4-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: $+70 \pm 2^{\circ}\text{C}$ 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed.
4-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: $-30 \pm 2^{\circ}\text{C}$ 2.Humidity: 0%RH 3.Time:48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.

