

KESHARE ELCTRON LTD

SAMPLE SPECIFICATION

(Revision: R: A1)

CUSTOMER(客户名称)		
CS P/N(客户机种)	HQ252-COPPER PIPE ANTENNA	
PART NAME(品名)	WIFI ANTENNA	L=252MM
FREQUENCY(频率)	2.4G~2.5G/5G~5.8G	
NO.(物料编号)		
DATE(日期)	2020-4-14	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章): _____

MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		吴宇	钟志	

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Revision history

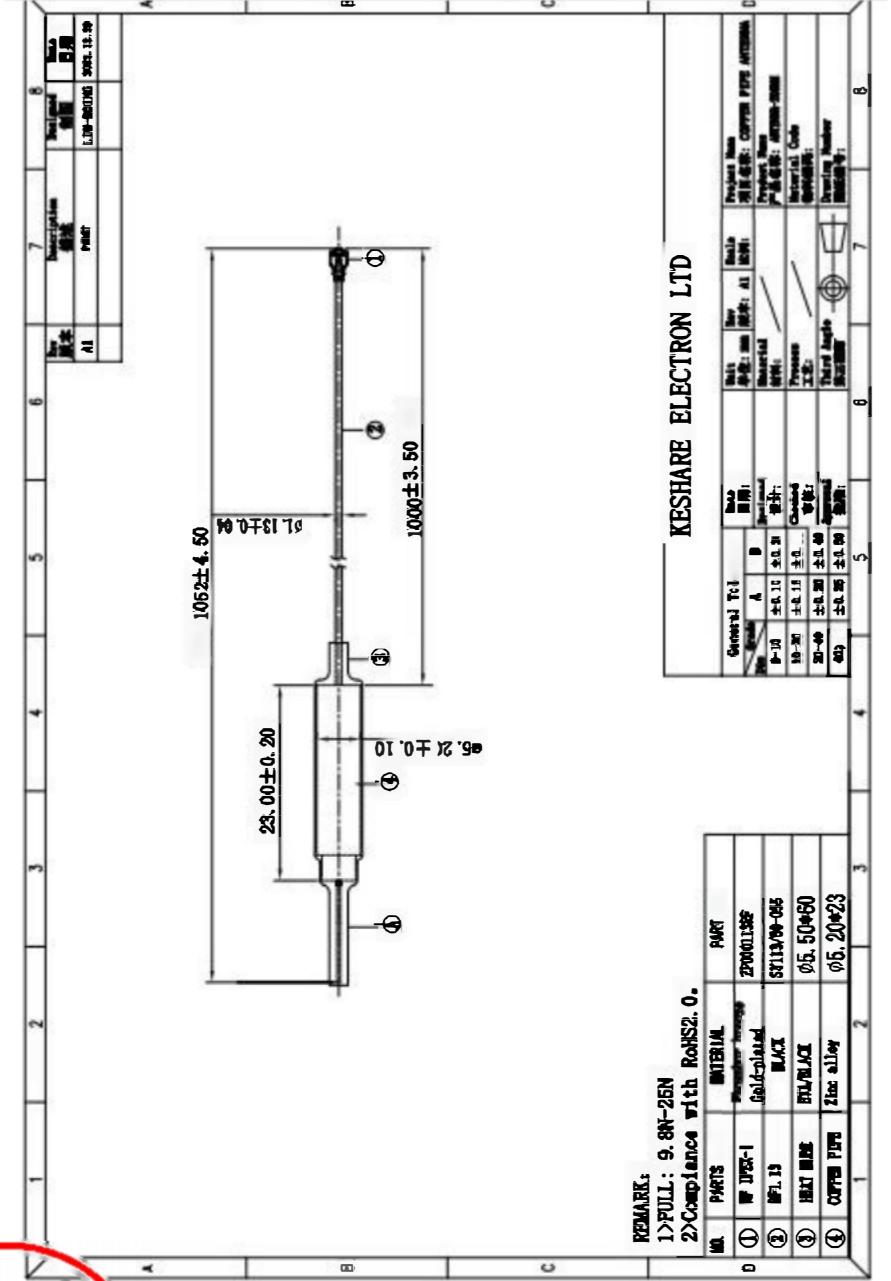
VERSION	DATE	STATE
A1	2020-04-14	A1 SPECIFICATION



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1. Mechanical Specification 1-1 Mechanical Configuration(天线组件)



REMARK:
1>FULL: 9.8N-25N
2>Compliance with RoHS2.0.

NO.	PARTS	MATERIAL	PART
①	TOP COVER-1	Plastic/theroply	ZPM01136F
②	RF. 13	Gold-plated	SK113/M-055
③	HEAT SHIELD	BLACK	Ø5.50*60
④	COPPER PIPE	Zinc alloy	Ø5.20*23

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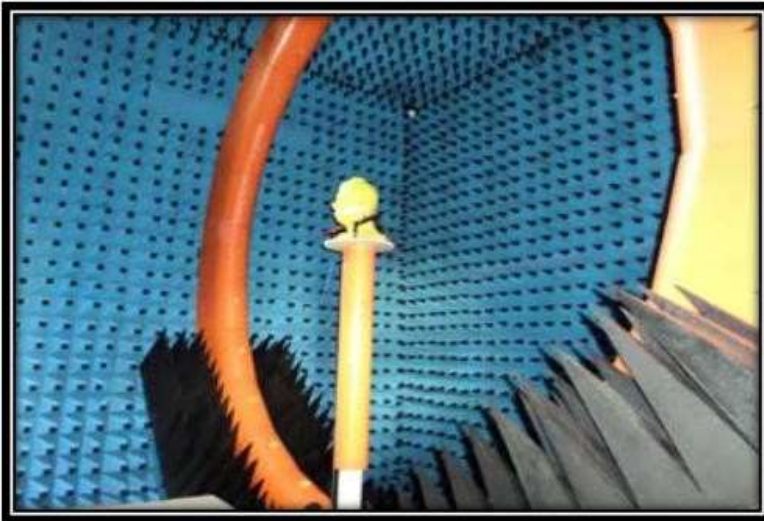
Checked To:	Rev	Scale	Project Name
Checked By:	Material	Material	Project Name
Checked By:	Process	Process	Project Name
Checked By:	Third Party Approval	Third Party Approval	Project Name
Checked By:	Drawing Number	Drawing Number	Project Name

Rev	Description	Rev	Description
A1	PART	L13N-001136	2023.12.29

2. Test equipment

Equipment list	Equipment	Manufacturer	Model	SN	Last Cal.	Due date
	network analyzer	Keysight	E6071C	MY47002902	2020.02.25	2021.02.24
	OTA certification testing system	SATIMO	SG24	/	2020.02.25	2021.02.24

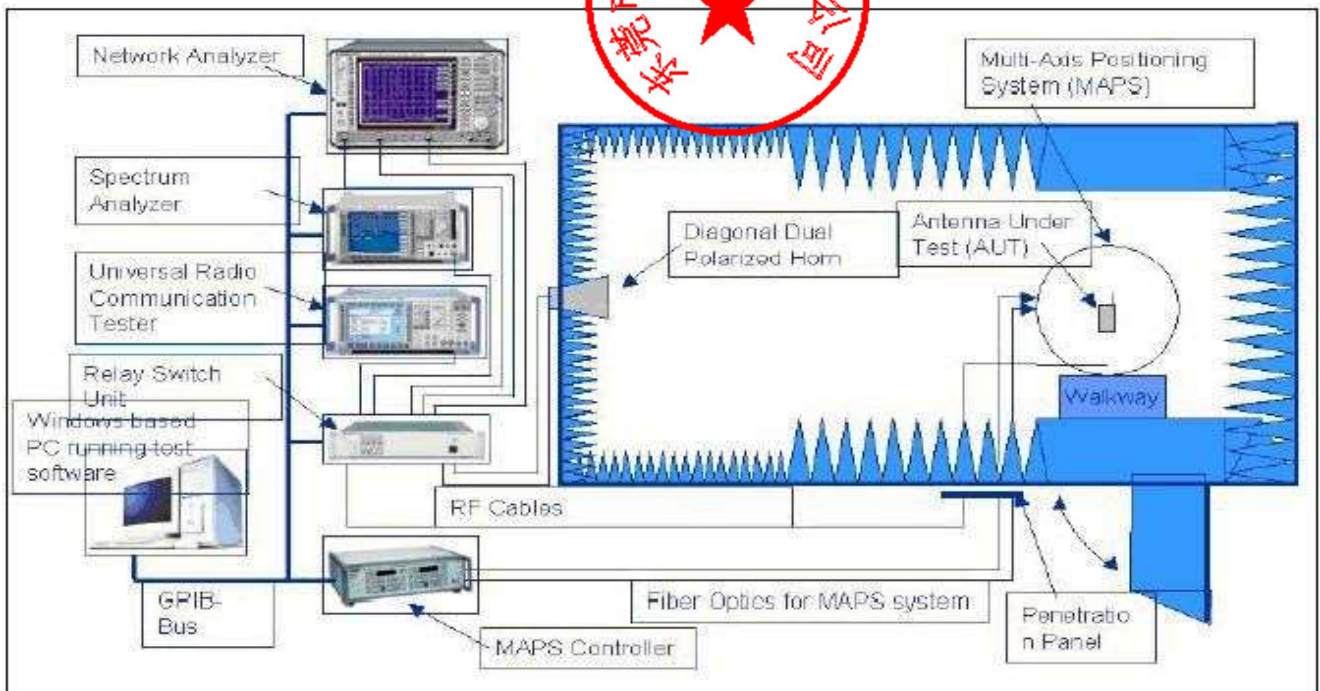
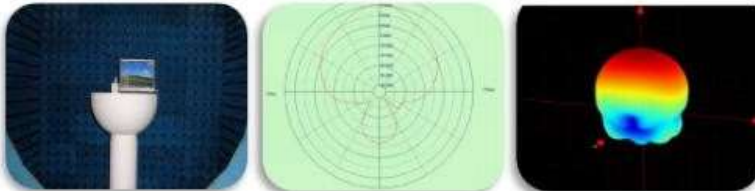
Test software: Satimo Spm
Test standard: GB/T 9410-2008



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.

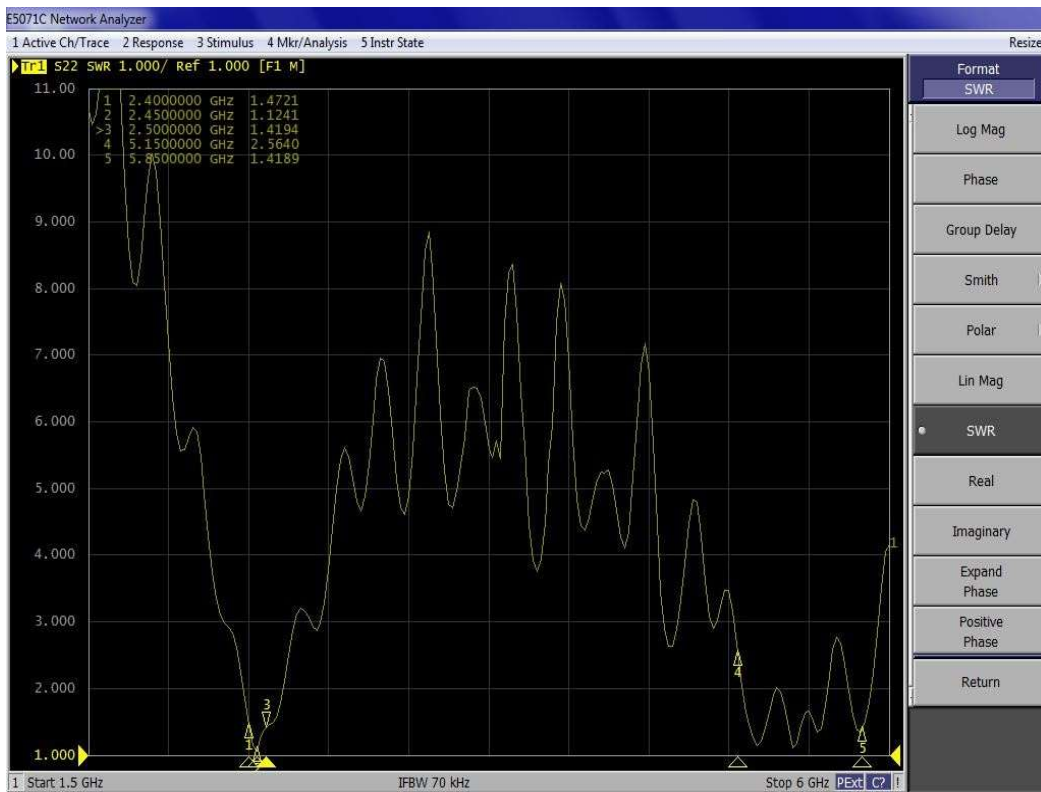
Testing range:

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

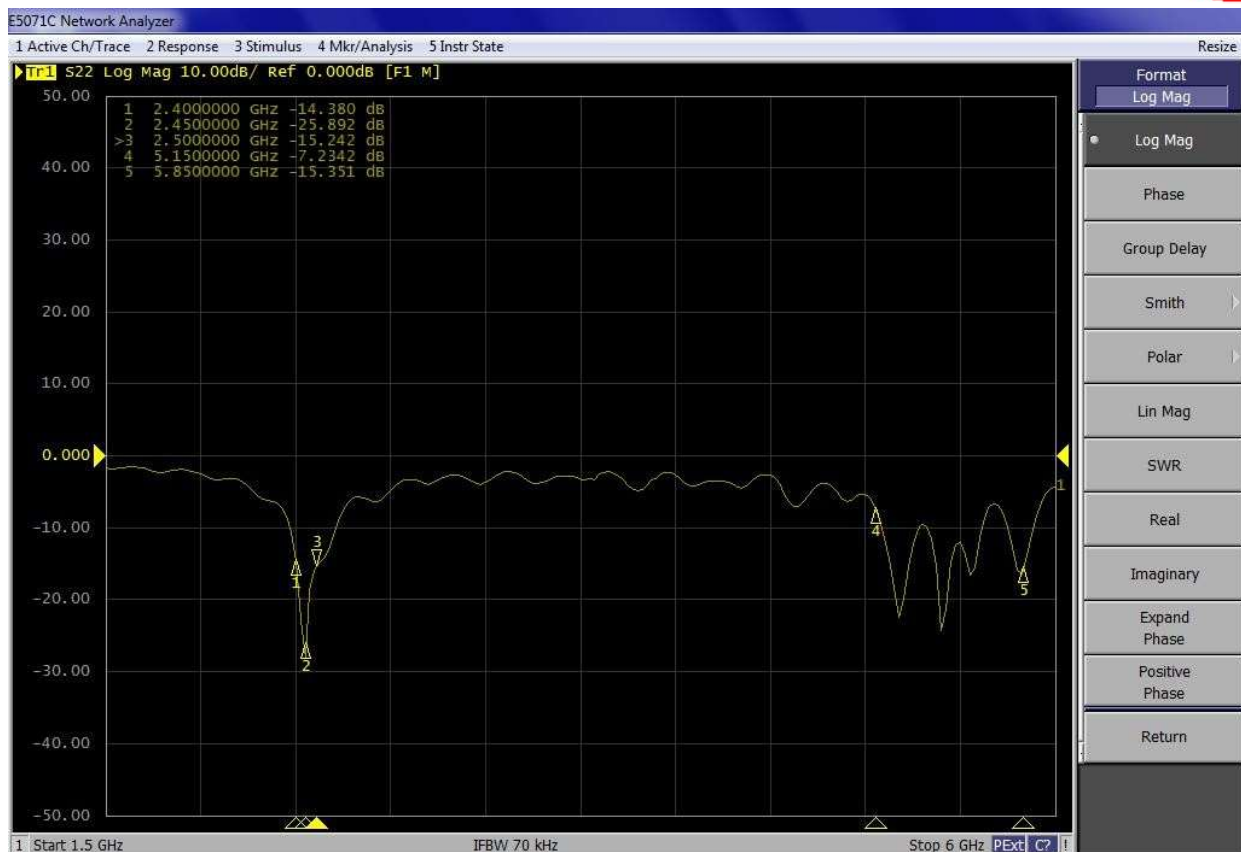


3. Antenna test data

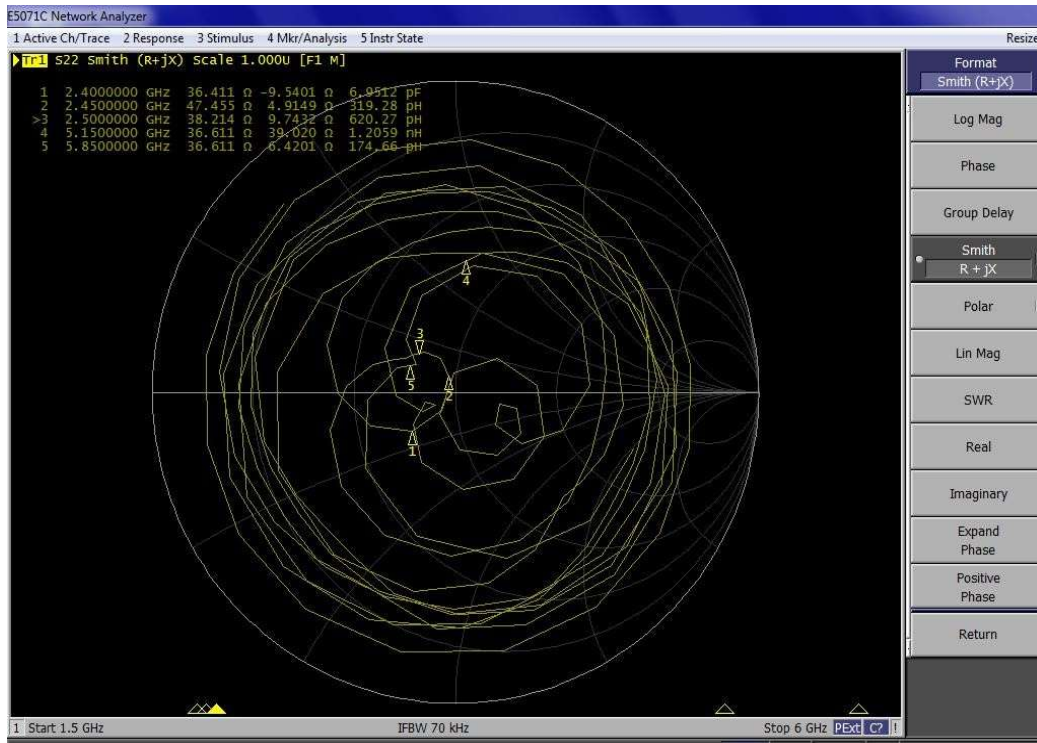
3-1 VSWR



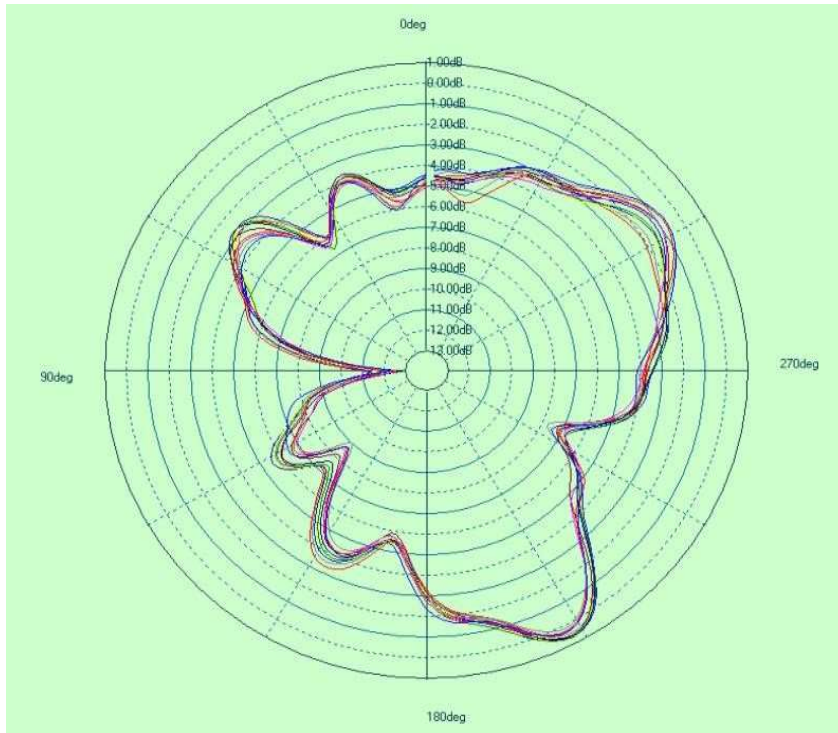
3-2 Return loss plot



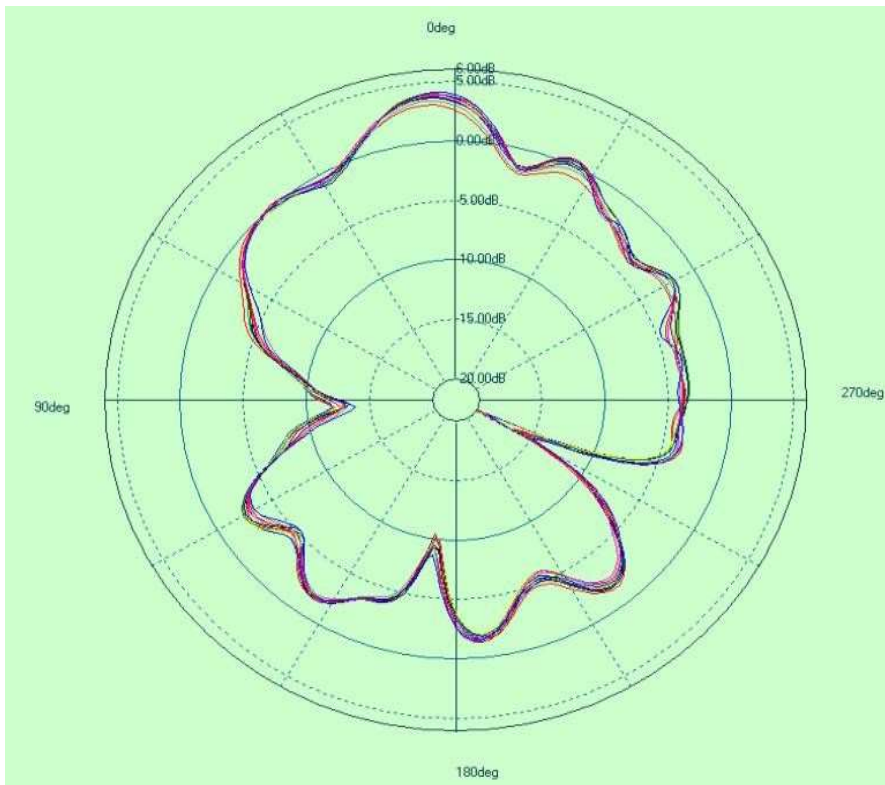
3-3 Smith chart



3-4 方向图

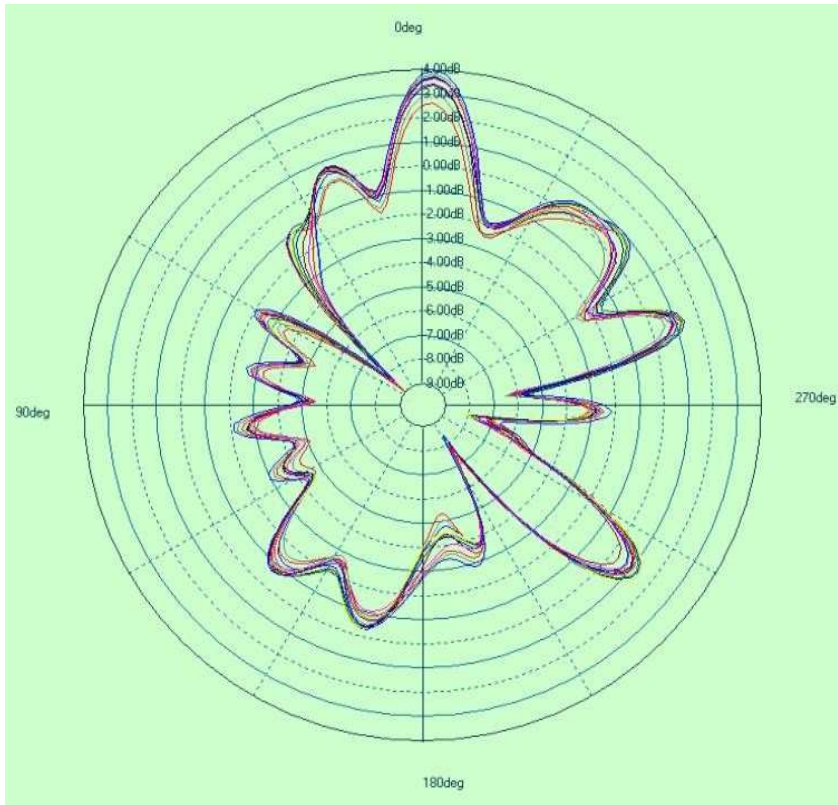


(XY平面 Z=0)

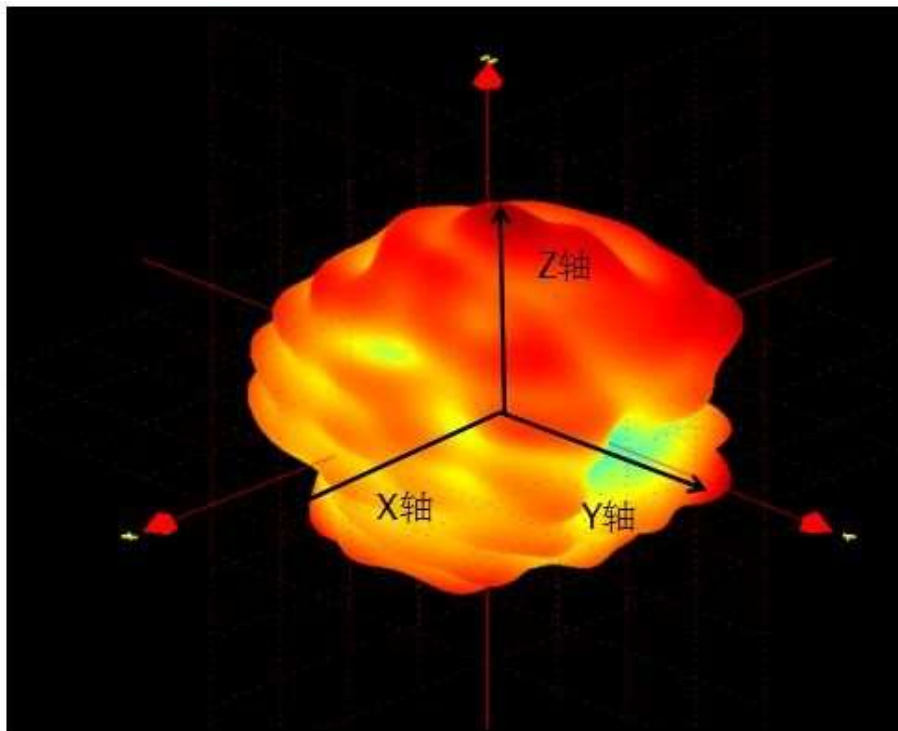


(XZ平面 Y=0)

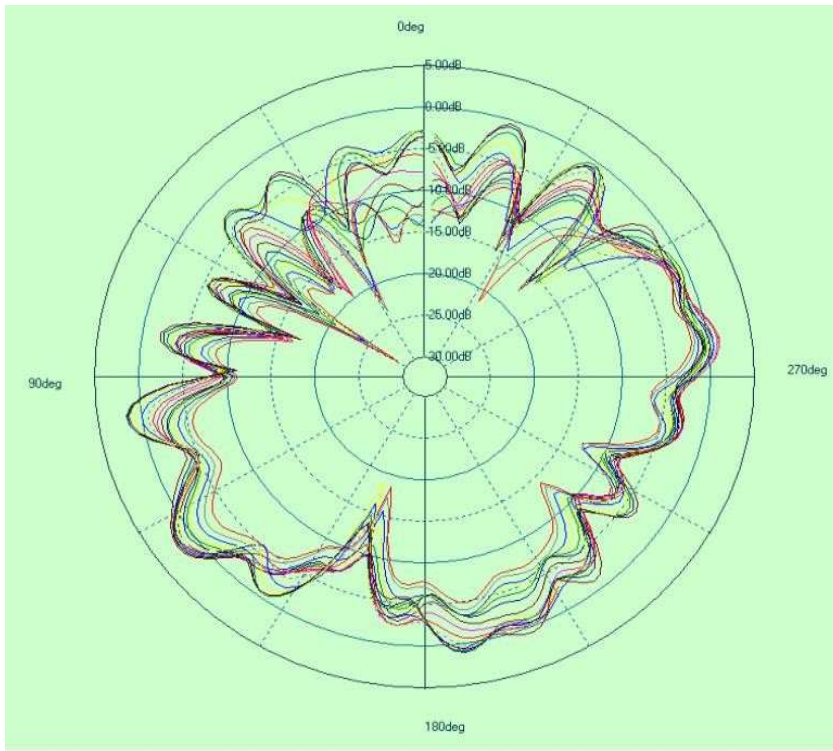
(YZ平面 X=0)



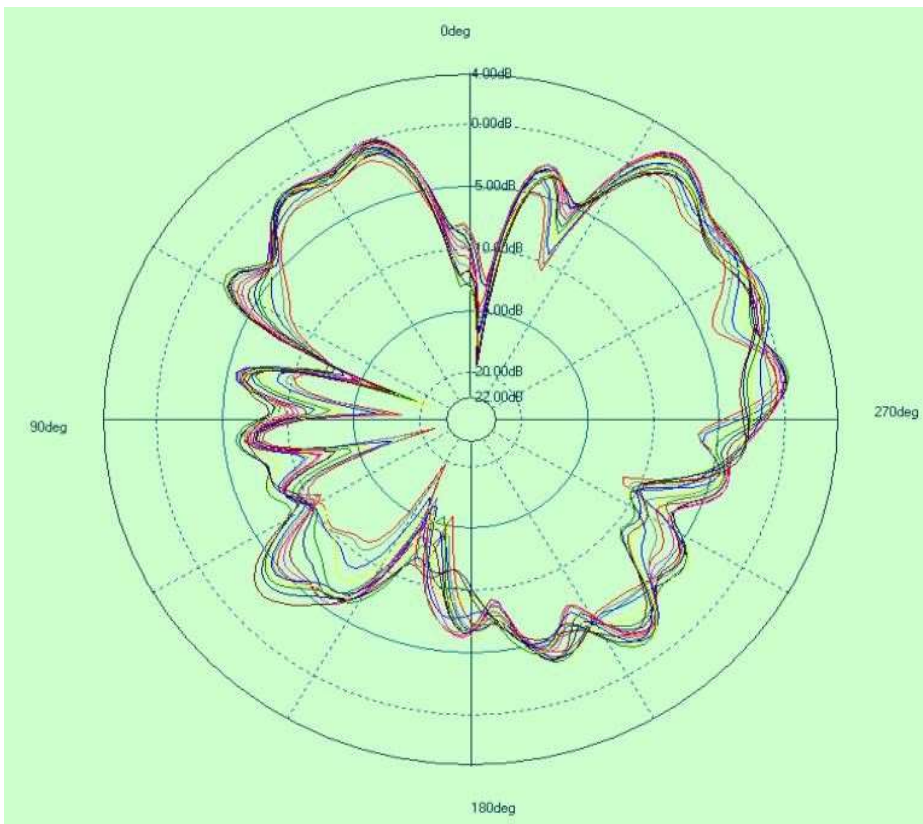
2.4苹果图



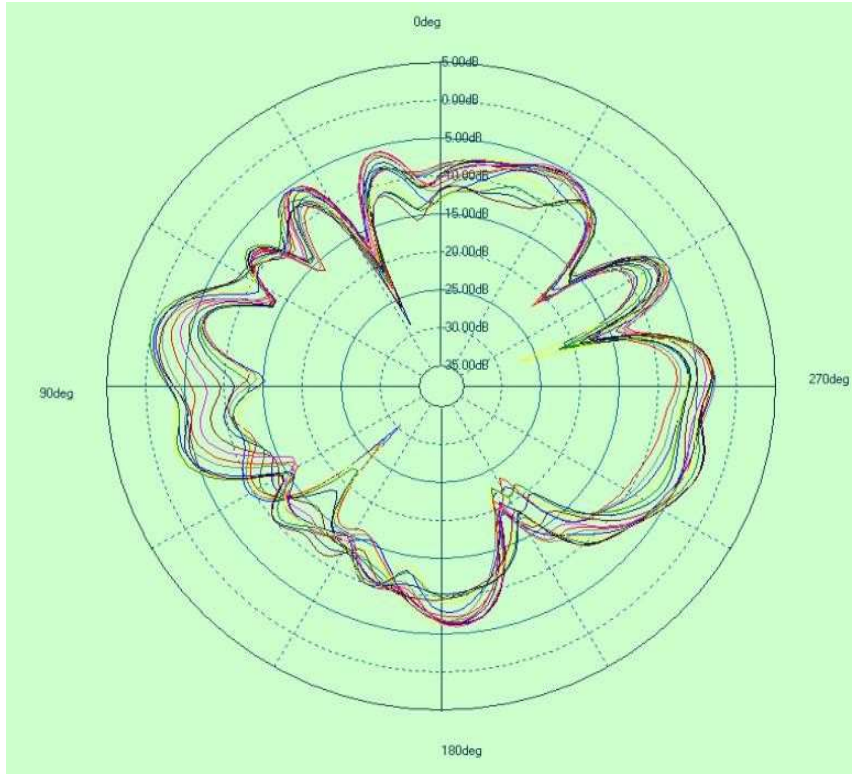
5.8G方向图



(XY平面 Z=0)

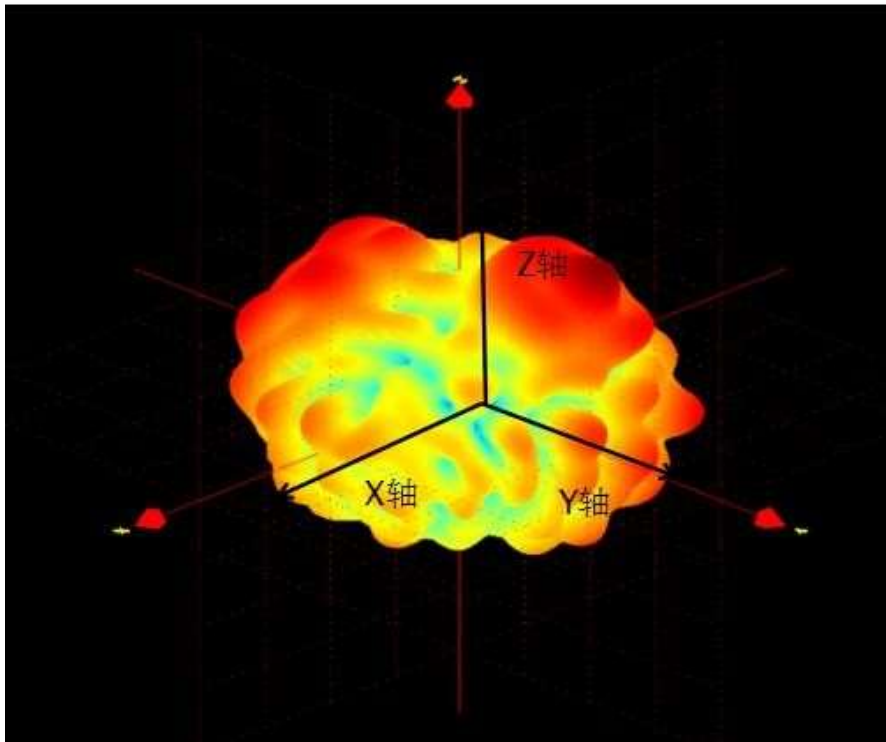


(XZ平面 Y=0)



(YZ平面 X=0)

5.8G苹果图



3-5测试数据

Frequency (MHz)	X-Z plane		Y-Z plane		X-Y plane		E-total (dBi)	Efficiency (%)
	Phi=0	Phi=90	Phi=90	Phi=0	theta=90	theta=0		
2400	1.10	-1.52	1.38	-2.02	0.61	0.43	1.61	60
2410	1.11	-1.54	1.40	-2.05	0.62	0.45	1.63	60
2420	1.20	-1.21	1.13	-2.19	0.70	0.36	1.76	59
2430	1.32	-1.91	1.30	-1.88	0.63	0.56	2.00	55
2440	1.31	-1.35	1.21	-1.98	0.81	0.55	1.86	66
2450	1.28	-1.81	1.31	-2.01	0.62	0.55	1.68	62
2460	1.31	-1.72	1.28	-2.05	0.75	0.52	1.84	59
2470	1.25	-1.55	1.19	-1.98	0.68	0.53	1.68	63
2480	1.24	-1.65	1.32	-1.95	0.61	0.54	1.75	61
2490	1.31	-1.63	1.26	-1.89	0.71	0.53	1.72	68
2500	1.33	-1.64	1.28	-2.03	0.69	0.55	1.73	65
5000	1.18	-1.58	1.27	-2.05	0.68	0.56	1.82	66
5050	1.24	-1.64	1.19	-2.01	0.81	0.71	1.92	56
5100	1.33	-1.38	1.31	-2.03	0.78	0.68	1.88	62
5150	1.28	-1.49	1.35	-1.98	0.68	0.59	1.93	63
5200	1.24	-1.64	1.38	-1.89	0.71	0.62	1.68	67
5250	1.28	-1.56	1.35	-1.88	0.68	0.65	1.69	68
5300	1.19	-1.88	1.36	-1.85	0.69	0.66	1.70	65
5350	1.32	-1.76	1.29	-1.79	0.72	0.75	1.68	66
5400	1.35	-1.81	1.24	-1.82	0.77	0.71	1.70	71
5450	1.32	-1.65	1.28	-1.76	0.70	0.69	1.69	66
5500	1.28	-1.68	1.31	-1.83	0.69	0.71	1.75	62
5550	1.29	-1.69	1.26	-1.88	0.68	0.72	1.72	59
5600	1.34	-1.59	1.29	-1.79	0.67	0.68	1.73	63
5650	1.29	-1.66	1.30	-1.91	0.67	0.69	1.69	58
5700	1.33	-1.59	1.28	-1.83	0.76	0.70	1.72	67
5750	1.34	-1.71	1.27	-1.90	0.75	0.69	1.73	69
5800	1.18	-1.73	1.28	-1.82	0.78	0.68	1.66	63
5850	1.17	-1.70	1.27	-1.80	0.77	0.67	1.63	63



4. Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
4-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: $+80 \pm 2^{\circ}\text{C}$ 2.Humidity: $90\sim 95\%RH$ 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

