


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
		Wu Yu	Zhong Zhi	

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Revision history

VERSION	DATE	STATE
A1	2020-04-14	A1 SPECIFICATION

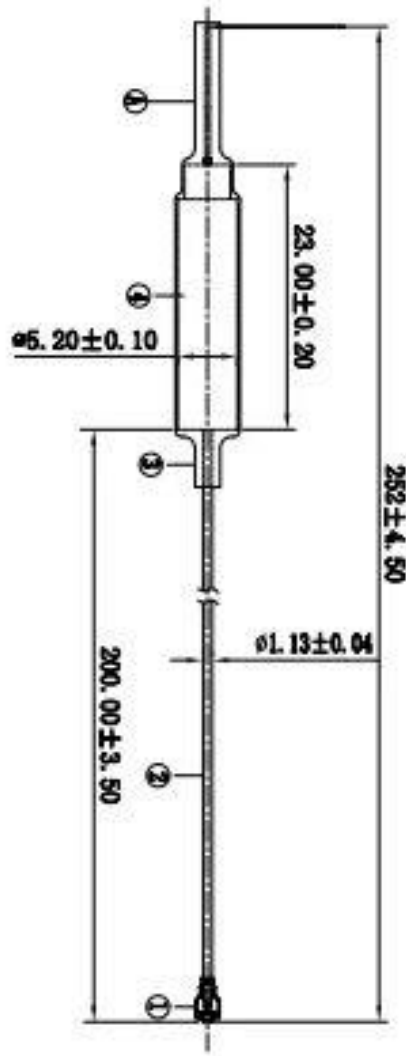


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1. Mechanical Specification

1-1 Mechanical Configuration(天线组件)



Part Name	Part Name	Part Name	Part Name
AL	AL	AL	AL
Material	Material	Material	Material
AL	AL	AL	AL
Part No.	Part No.	Part No.	Part No.
AL	AL	AL	AL

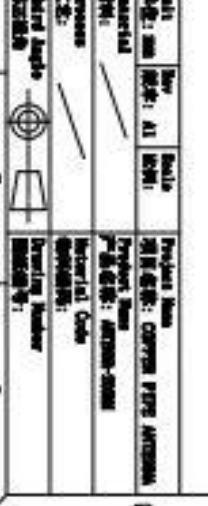


REMARK:
 1>PULL: 9.8N-25N
 2>Compliance with RoHS2.0.

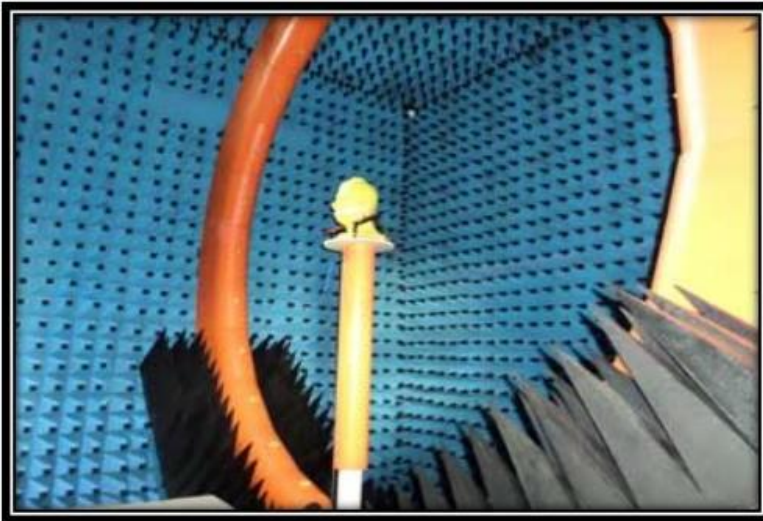
NO.	PARTS NAME	MATERIAL	PART NO.
①	RF JACK-1	Phosphor bronze Gold-plated	ZP00011386
②	RF-13	BLACK	SP113/99-035
③	HEAT SHIE	BR/BLACK	05, 50*60
④	CARRIER PIPE	Zinc alloy	05, 20*23

KESHARE ELECTRON LTD

General Tolerance	Date	Scale	Unit	Draw	Scale	Project Name
±0.10	2019-08-10	A	mm	1:1	1:1	项目名称: CARRIER PIPE ANTENNA
±0.15	2019-08-10	B	mm	1:1	1:1	项目编号: ANTENNA-0001
±0.20	2019-08-10	C	mm	1:1	1:1	物料名称: ANTENNA-0001
±0.25	2019-08-10	D	mm	1:1	1:1	物料编号: ANTENNA-0001
±0.30	2019-08-10	E	mm	1:1	1:1	物料规格: ANTENNA-0001
±0.35	2019-08-10	F	mm	1:1	1:1	物料图号: ANTENNA-0001
±0.40	2019-08-10	G	mm	1:1	1:1	物料备注: ANTENNA-0001



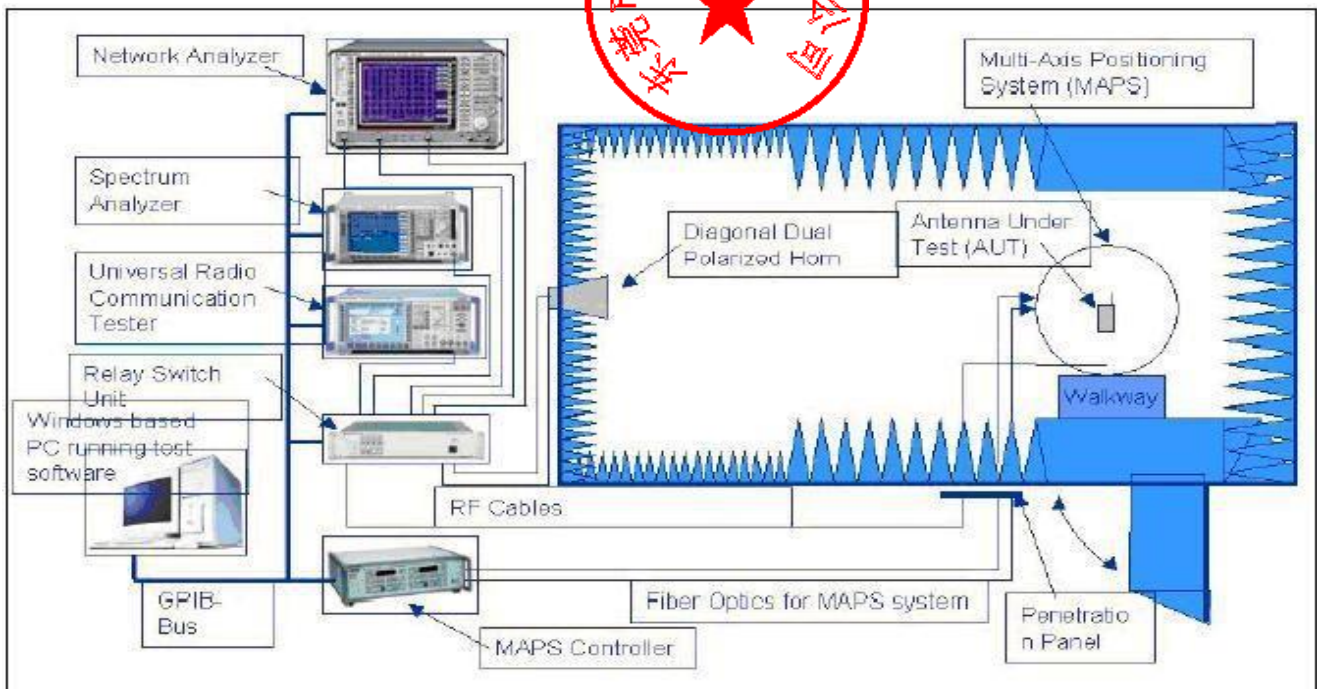
2. Test equipment



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.

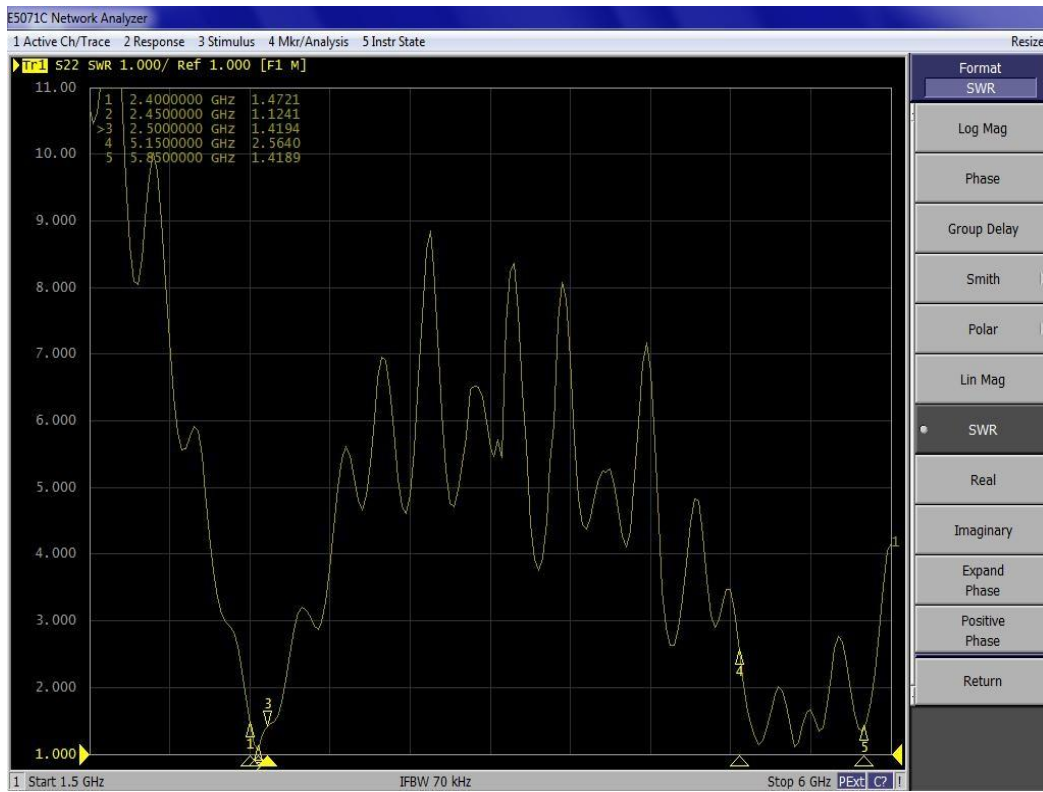
Testing range:

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

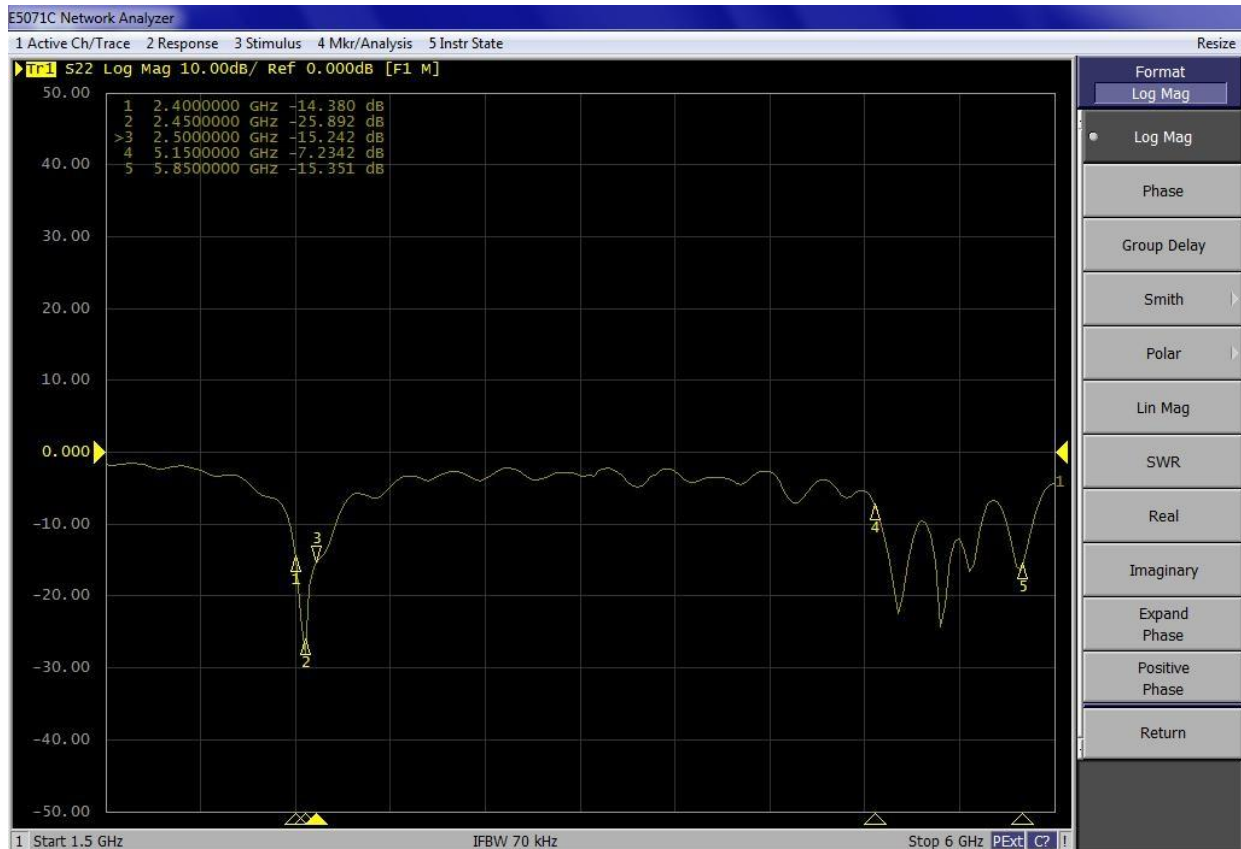


3. Antenna test data

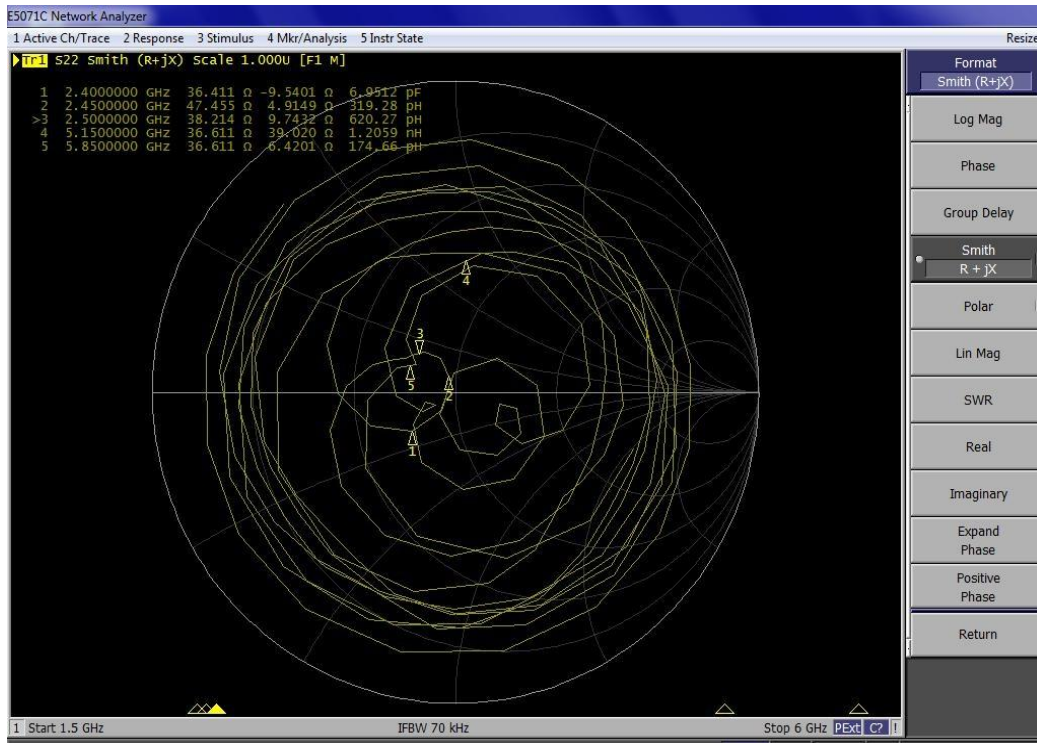
3-1 VSWR



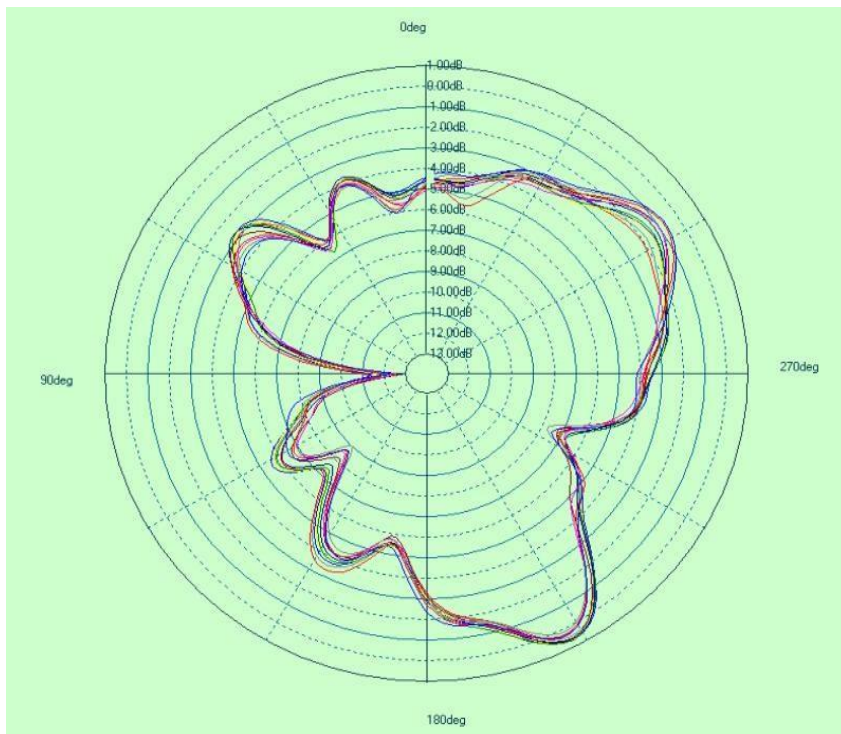
3-2 Return loss plot



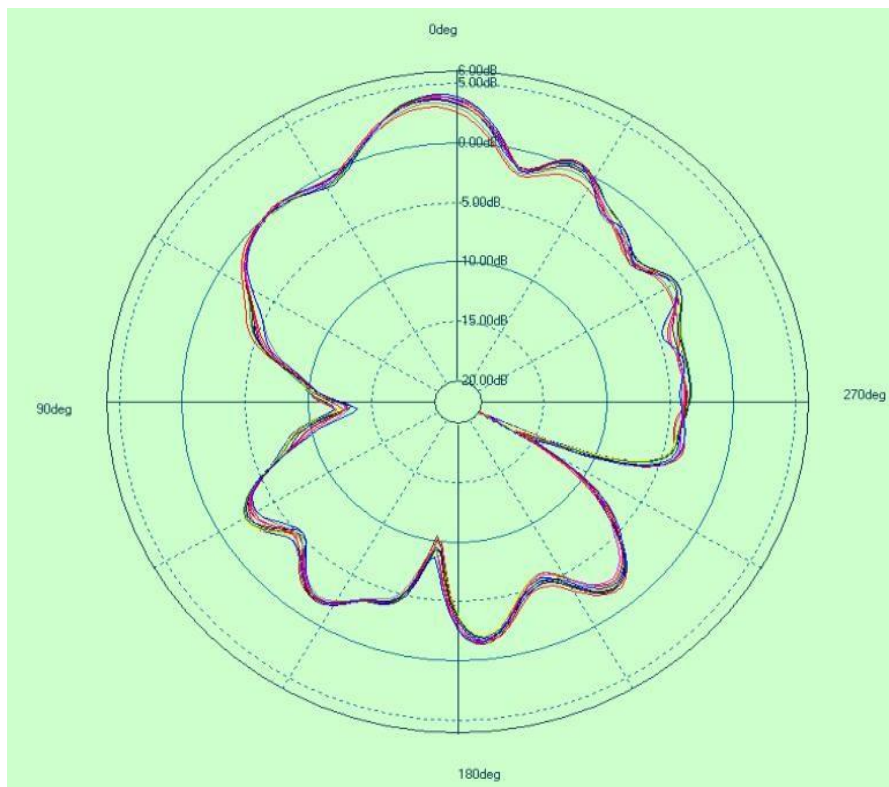
3-3 Smith chart



3-4

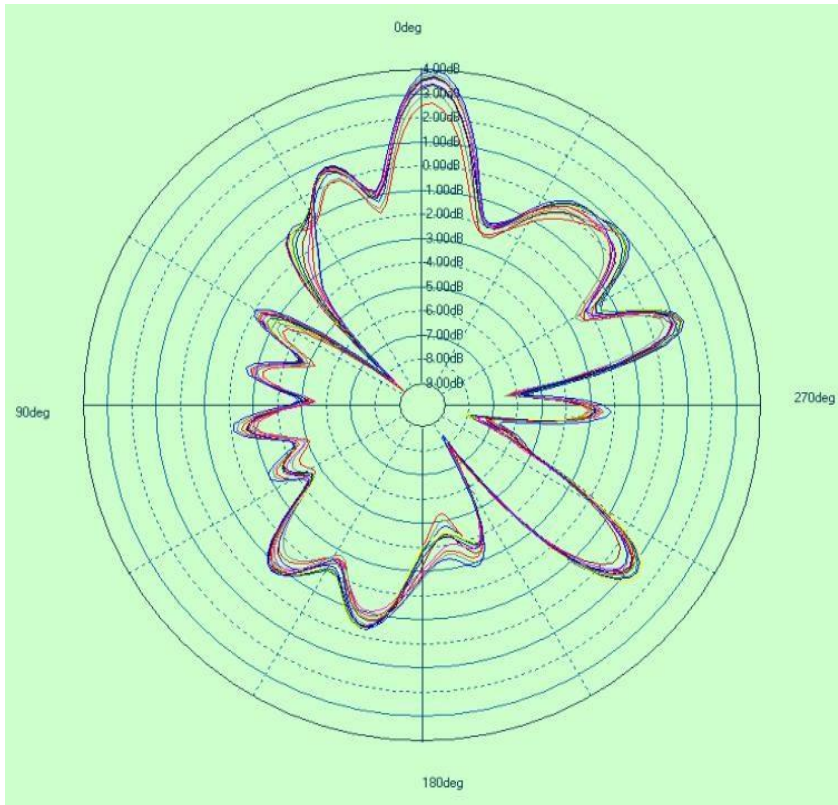


(XY Z=0)

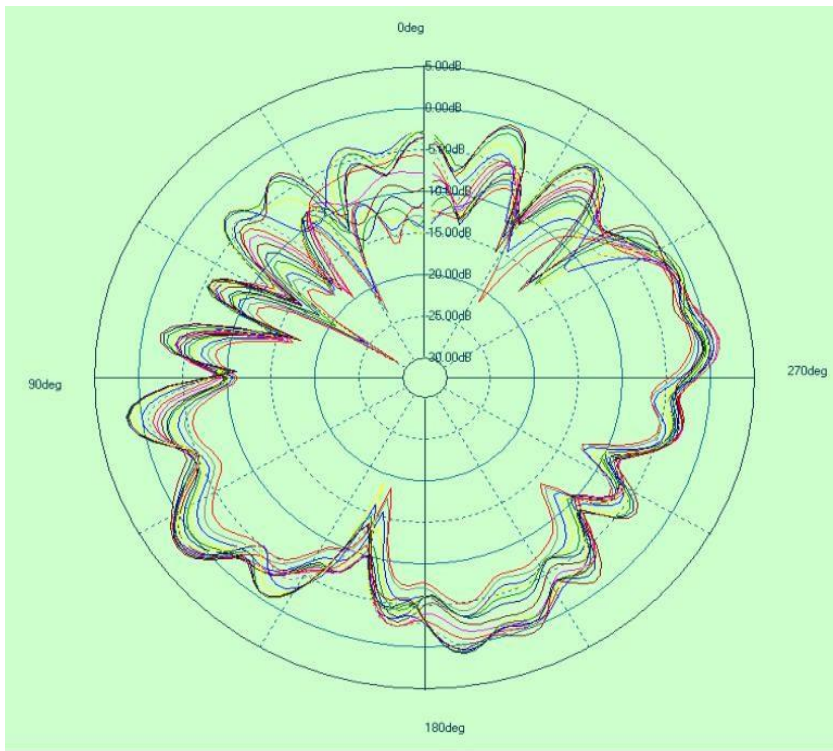


(XZ Y=0)

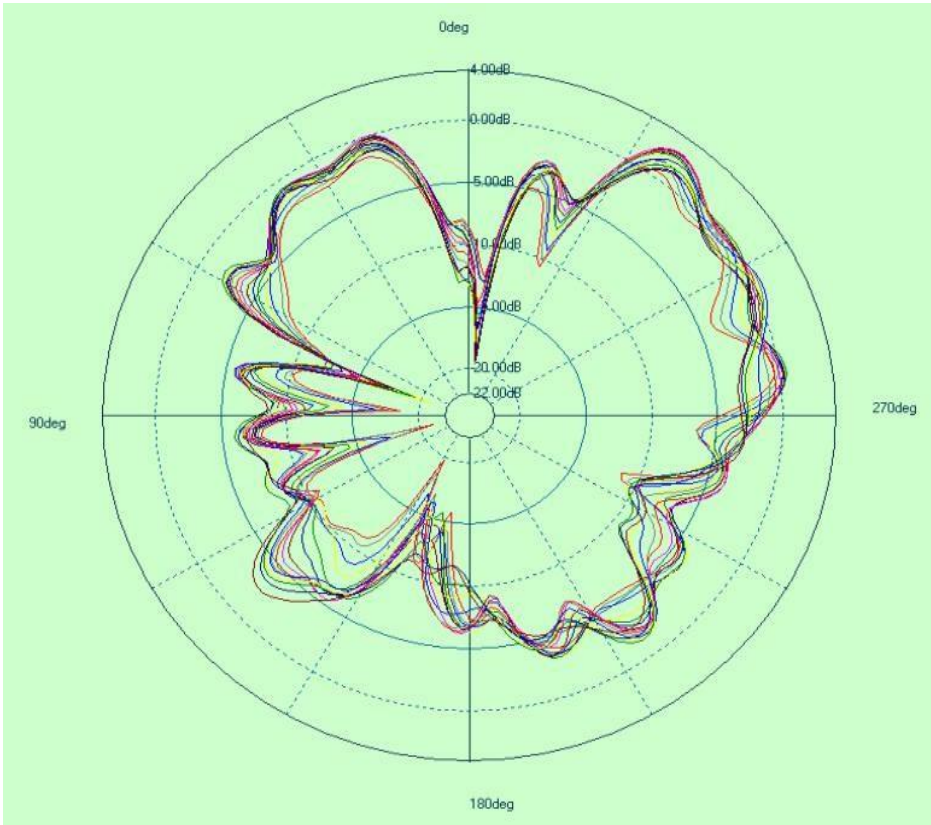
(YZ X=0)



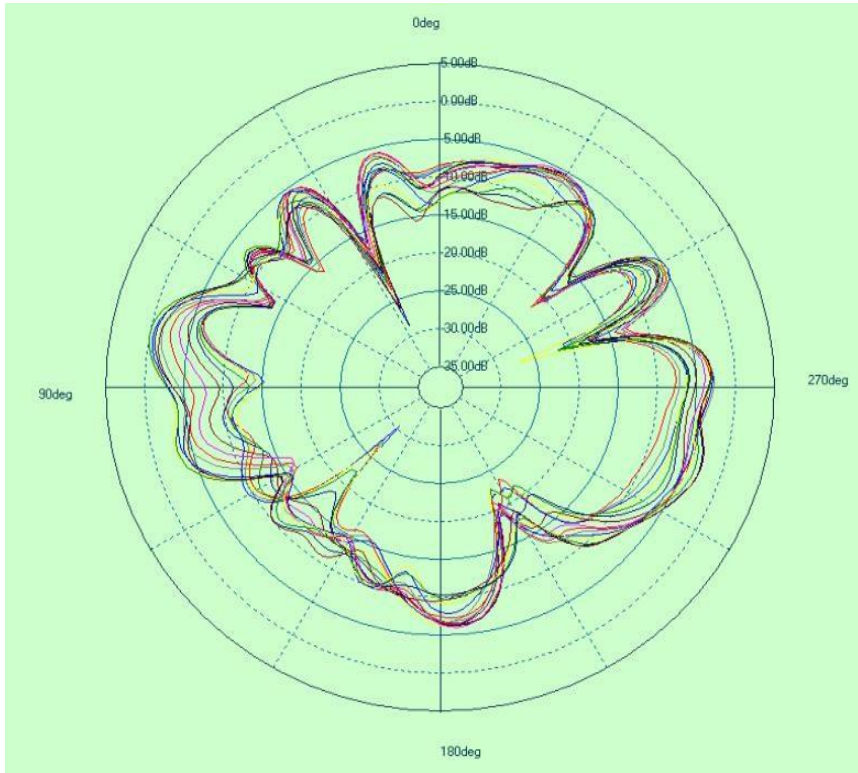
5.8G



(XY Z=0)



(XZ Y=0)



(YZ X=0)

5.8G

Frequency (MHz)	X-Z plane		Y-Z plane		X-Y plane		E-total (dBi)	Efficiency (%)
	Phi=0 Peak Gain	Phi=0 Average Gain	Phi=90 Peak Gain	Phi=90 Average Gain	theta=90 Peak Gain	theta=90 Average Gain		
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



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: $90\sim 95\% \text{RH}$ 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: $0\% \text{RH}$ 3. Time: 48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these tests.

