



SHENZHEN SOUTH STAR
TECHNOLOGY CO., LTD.

APPROVAL SHEET

客户名称 Customer Name ZHI WEI

产品型号 Product Model 2.4G

客户料号 Customer P/N K4DK-680712-00

南斗星料号 Southstar P/N N12-3353-R0A

制作日期 Date Prepared 2021-12-08

制作版本 Revision A

Southstar		
Prepare	DQE	R&D
Customer		
PUR	QC	R&D

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Product Specification

A. Electrical Characteristics	
Frequency	2400MHz ~2500MHz ;
VSWR	< 3
Efficiency	>45%
Impedance	50 ± 25 Ohm
Polarization	Linear
Peak Gain	2.4G: 4.46 dBi
Note	
B. Material & Mechanical Characteristics	
Material of Radiator	
Cable Type	ϕ 1.78
Connector Type	
Dimension	
C. Environmental	
Operation Temperature	- 30 °C ~ + 80 °C
Storage Temperature	- 30 °C ~ + 85 °C

Test Equipment & Conditions

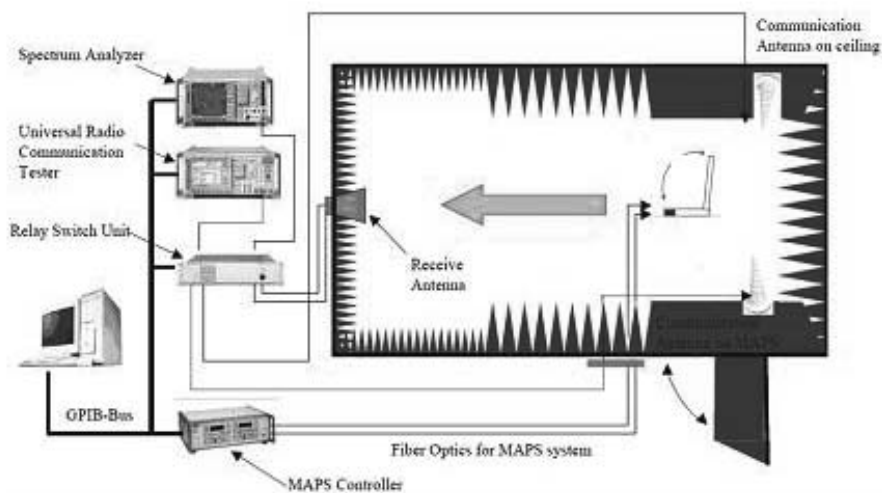
1. Network Analyzers :

Agilent 8753D 5071B

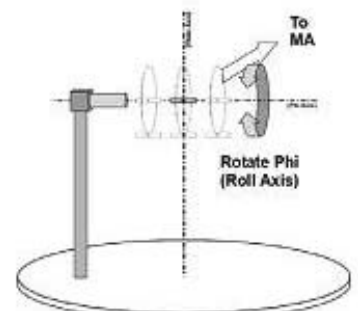
2. Communications Test Set:

Agilent E5515C

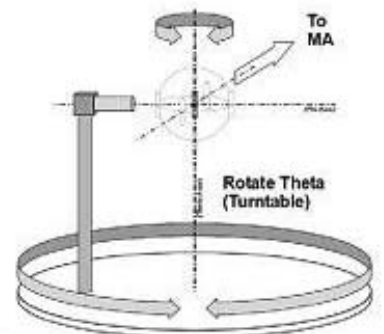
3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



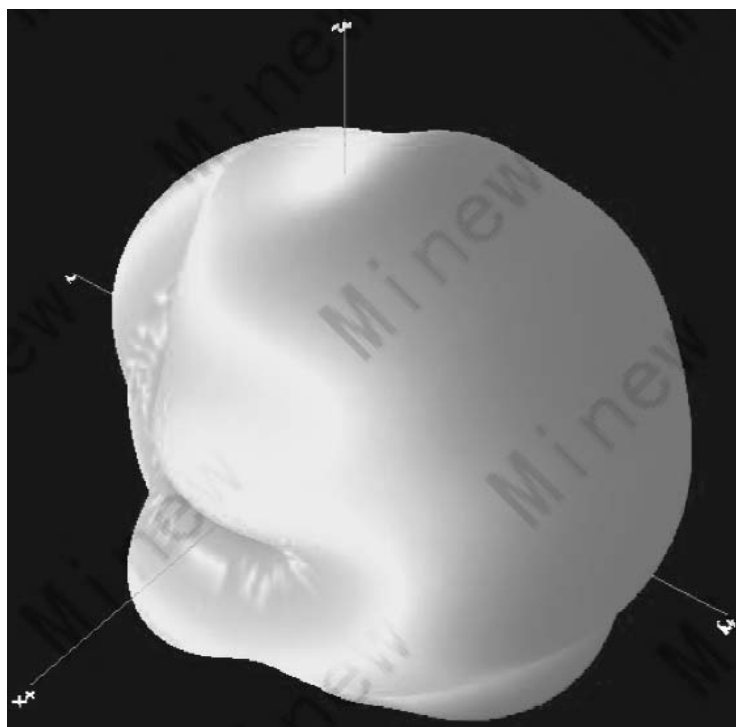
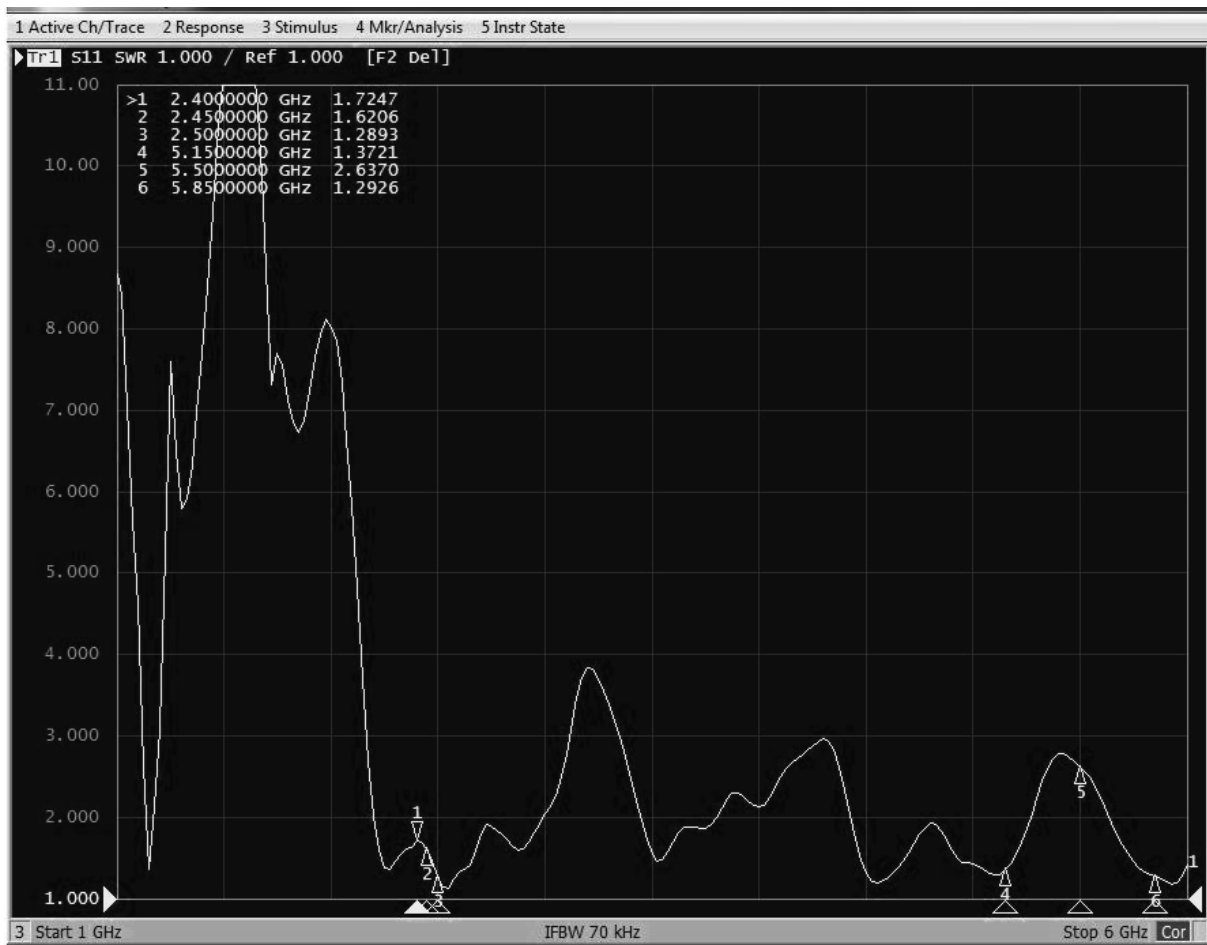
Phi axis test



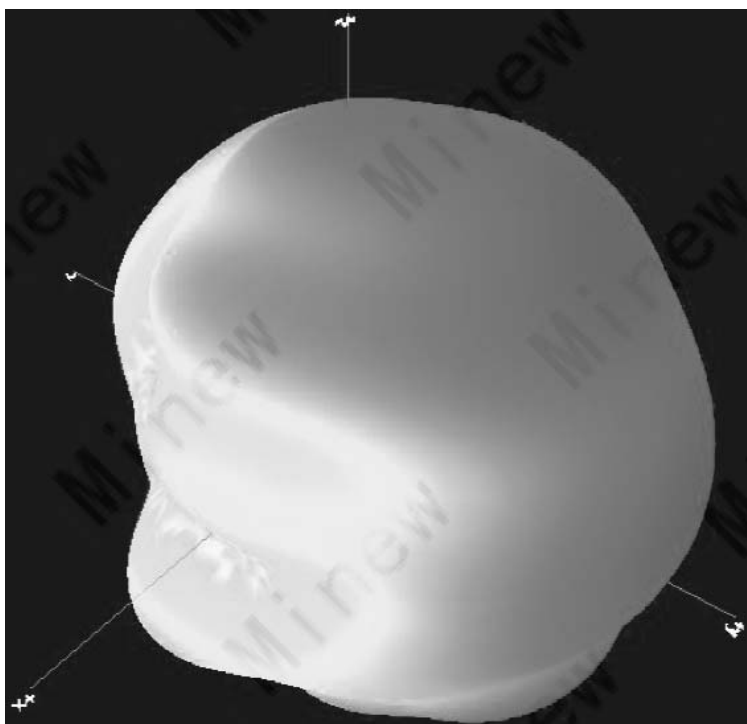
Theta axis test

Antenna Impedance:

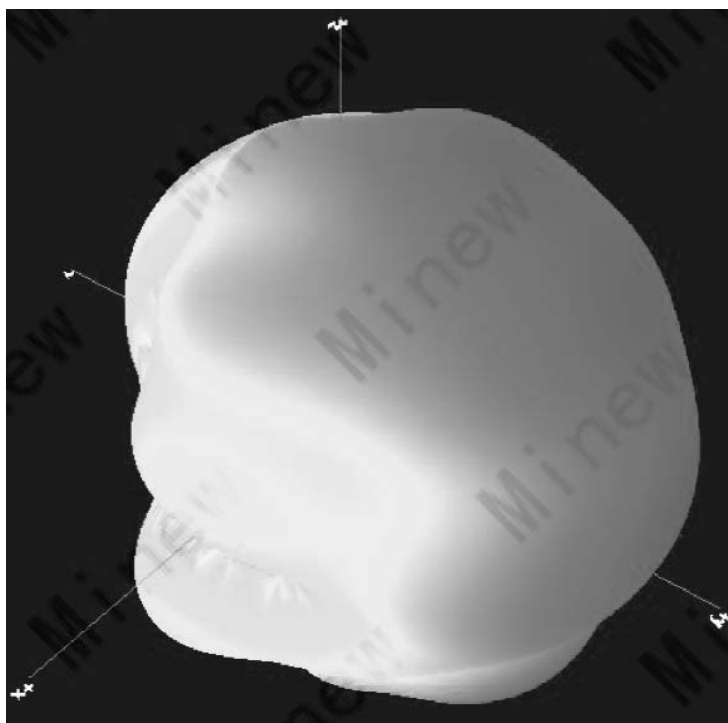
VSWR & Smith



2402MHz



2240MHz

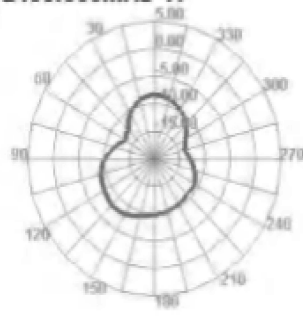


2480MHz

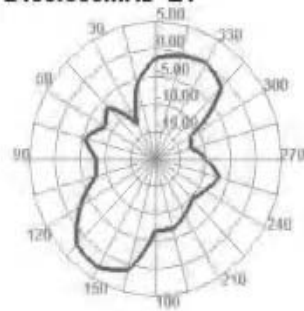
2400.000MHz



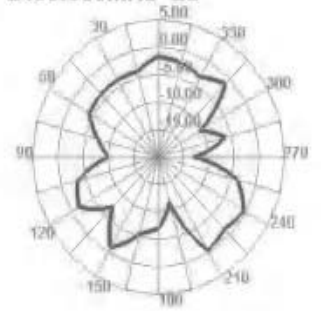
2400.000MHz H



2400.000MHz E1



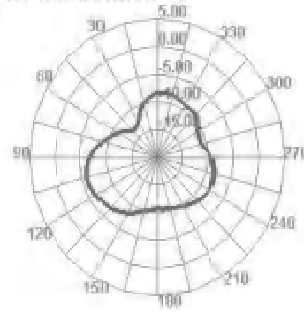
2400.000MHz E2



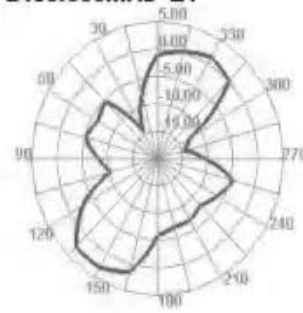
2450.000MHz



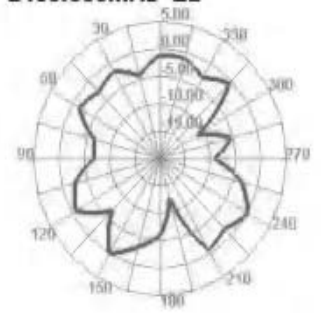
2450.000MHz H



2450.000MHz E1



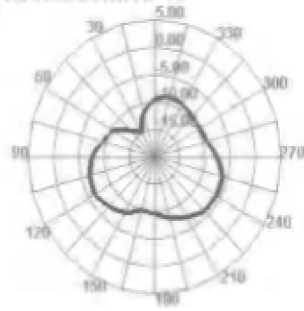
2450.000MHz E2



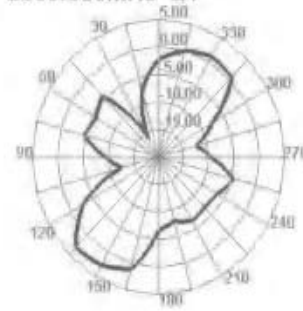
2500.000MHz



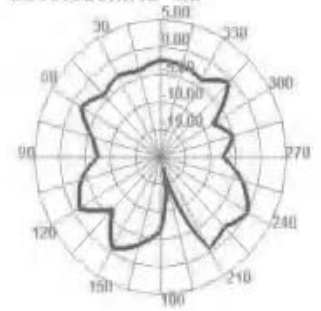
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



Total Efficiency& GAIN:

Freq (MHz)	Effi (%)	Gain (dBi)
2400	67.53	4.46
2410	66.9	3.92
2420	67.03	4.04
2430	71.15	4.27
2440	68.03	4.06
2450	65.4	3.95
2460	62.82	3.88
2470	64.41	4.09
2480	66.85	4.28
2490	66.74	4.35
2500	66.34	4.33
	66.65454545	4.148181818