



深圳自由行通信技术有限公司
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客户 (Customer) : **Micronet Union Technology**

产品 (Product) : **2.4G-exposed antenna (L=190mm)**

型号 (Model) : **51010051**

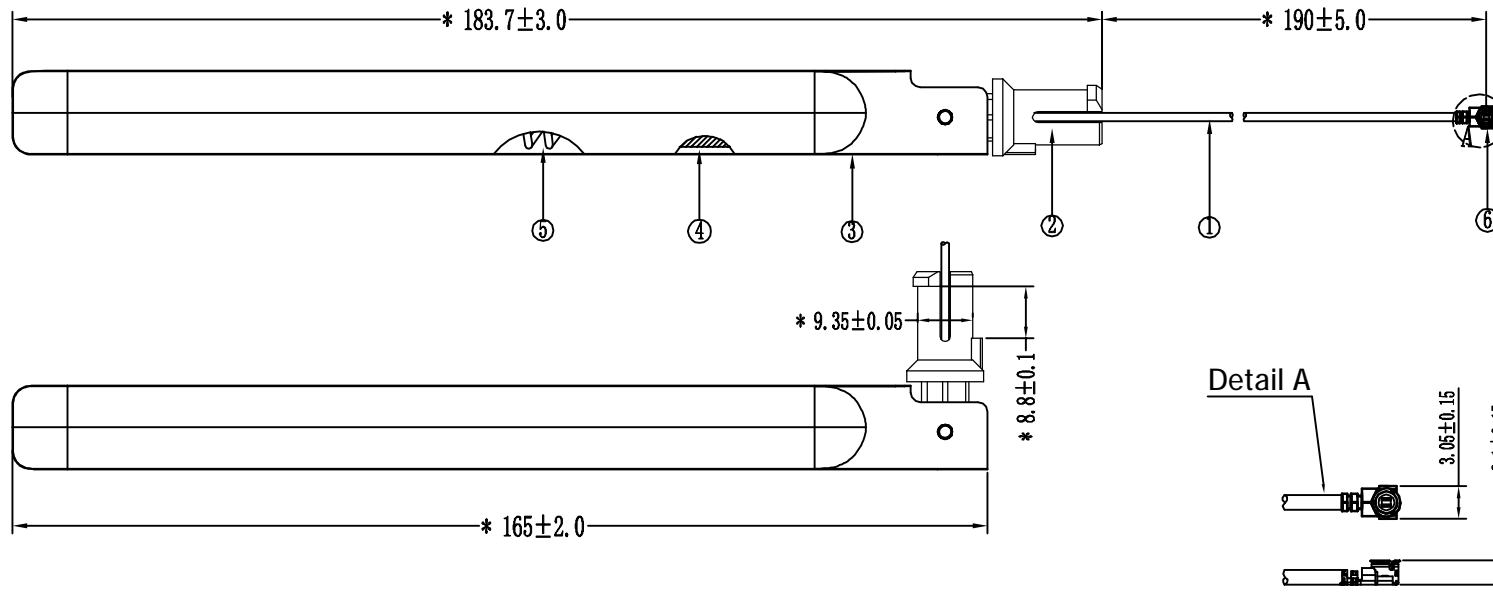
料号 (Part Number) : **Z01-20210-R01**

The basic parameters

A. Electrical Characteristics	
Frequency	2400 MHz ~2500MHz
VSWR	≤2
Efficiency	>60%
Impedance	50 Ohm
Polarization	Linear
Gain	5dBi±1
B. Material & Mechanical Characteristics	
Material of Radiator	
Cable Type	Φ1.37mm Gray
Connector Type	FIRST GEN
Dimension	IPEX
C. Environmental	
Operation Temperature	- 20 °C ~ + 60 °C
Storage Temperature	- 40 °C ~ + 80 °C



NAME	NAME	MATEL/Spec	COLOR	QTY	note
①	RF cable	1.3/coaxial line	BLACK	1	
②	Lower mount	ABS+PC	WHITE	1	
③	Sleeve	ABS	WHITE	1	
④	PCB	FR-4	BLACK	1	
⑤	spring	carbon steel	SILVER	1	
⑥	Terminal	first gen	GOLDEN	1	
⑦					



Test Equipment & Conditions

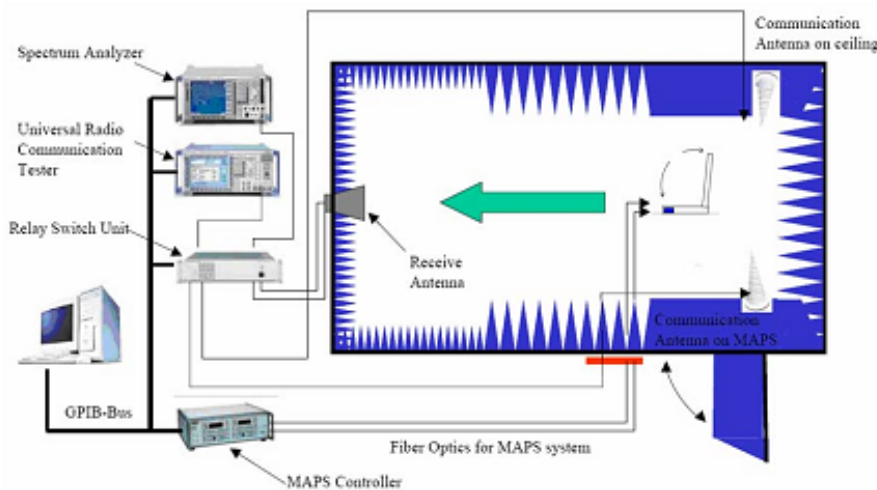
1. Network Analyzers :

Agilent 8753D 5071C

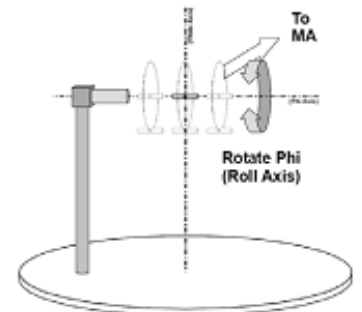
2. Communications Test Set:

Agilent 8960 CMW500

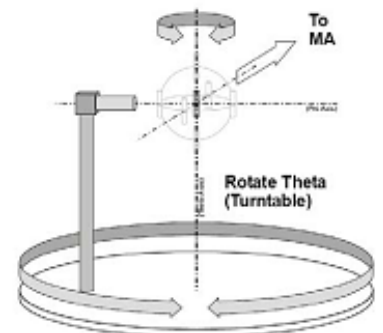
3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



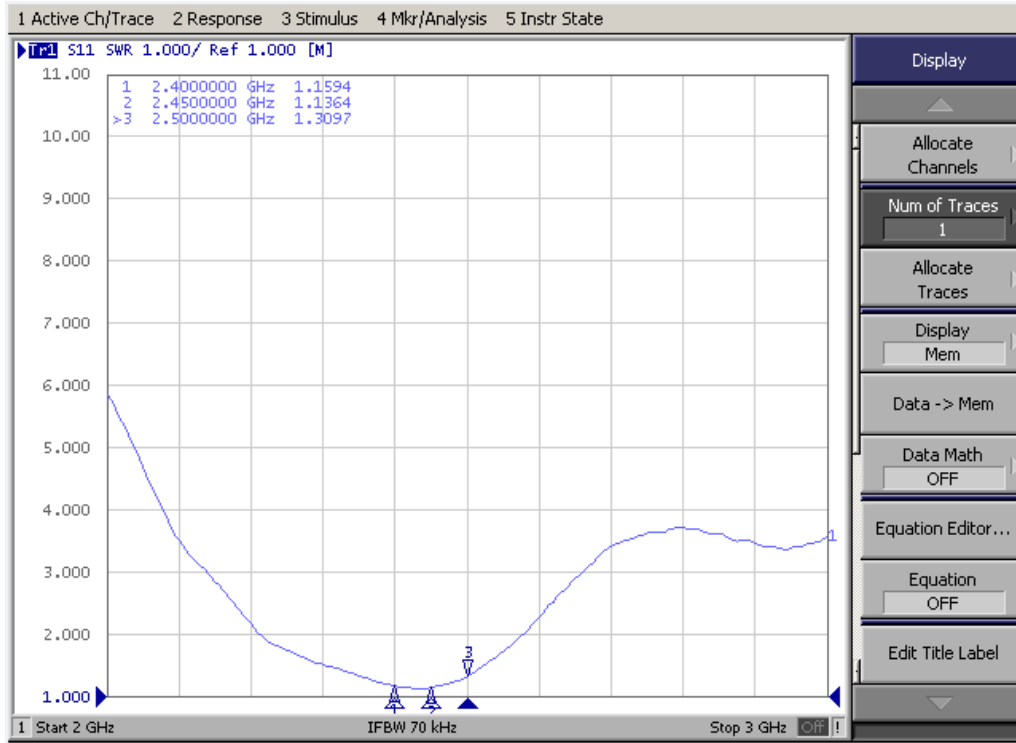
Phi axis test



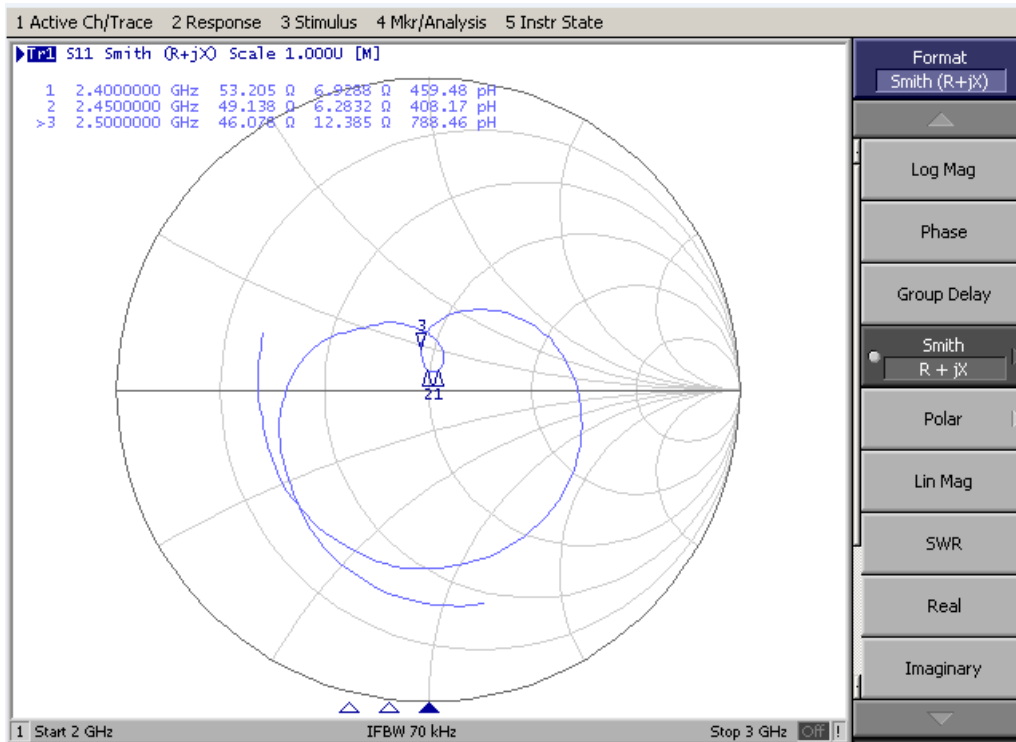
Theta axis test

Test Data

SWR



Smith



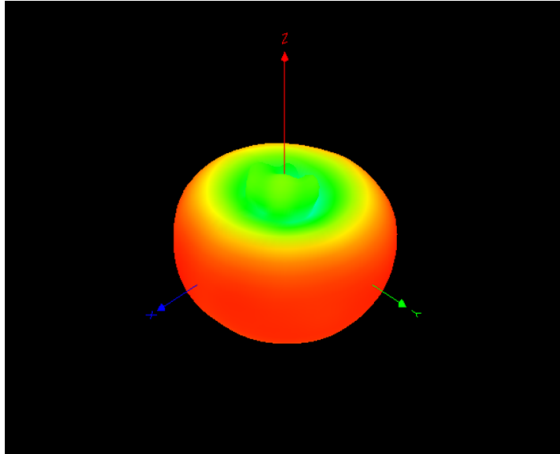
效率&增益:

Efficiency&Gain

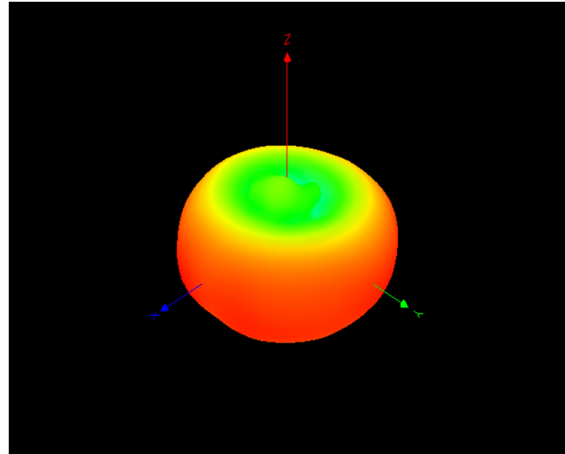
Frequency / MHz	Efficiency / %	Gain/ dBi
2400	71.34	4.52
2410	67.25	5.32
2420	72.13	5.01
2430	68.34	4.68
2440	71.33	4.82
2450	69.52	4.85
2460	75.24	5.06
2470	72.23	5.12
2480	70.35	5.02
2490	71.34	4.85
2500	71.25	4.89

3D Patten

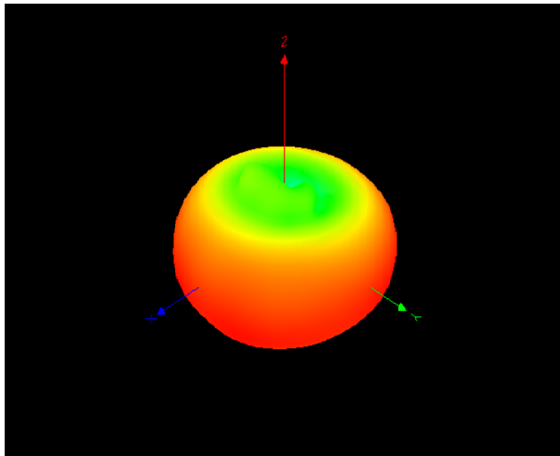
2400MHz



2450MHz

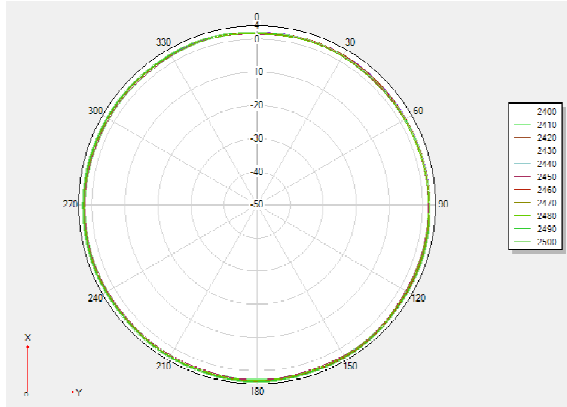


2500MHz

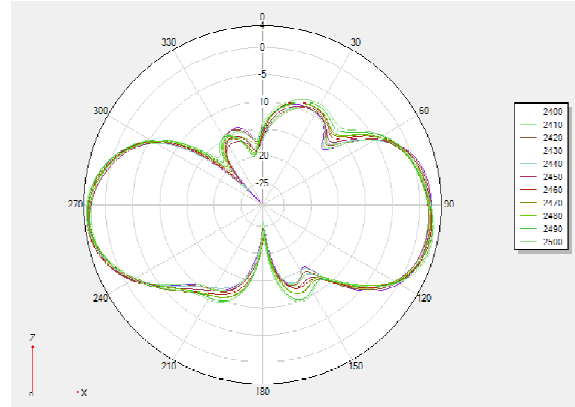


2D Patten

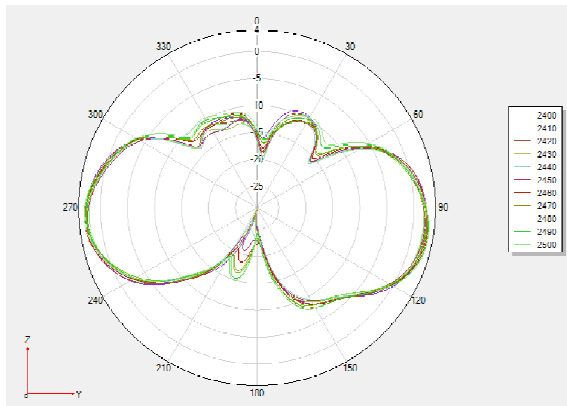
XOY- p l a n e



ZOX - p l a n e



ZOY - p l a n e



Antenna picture

