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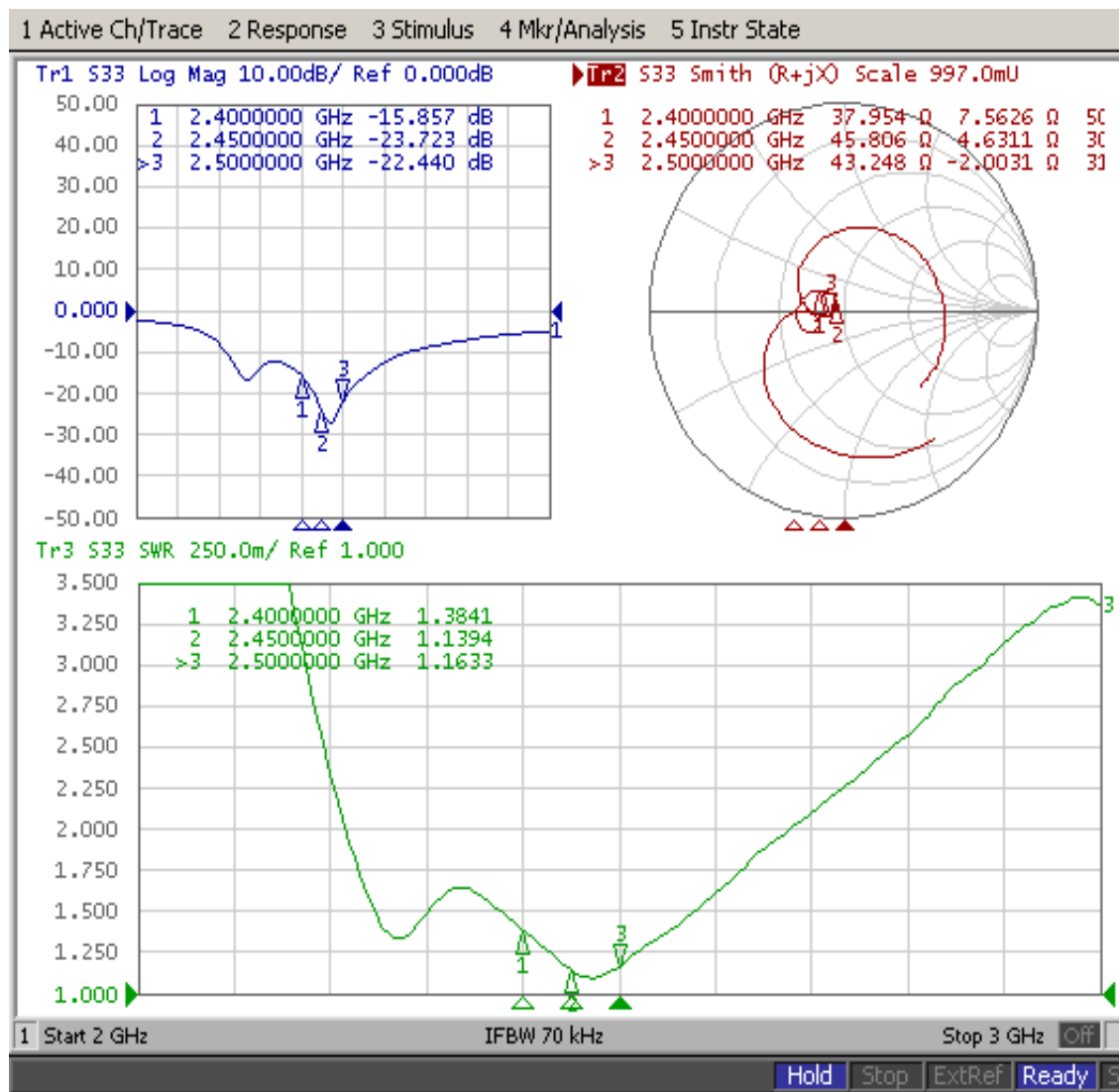
**1. Reliability Testing**

<b>Test Item</b>	<b>Procedure</b>	<b>Requirement</b>
<b>1. Visual inspection and Dimension Check</b>	Applicable methods using x5 magnification	follow specification
<b>2. Rapid Changing of Temperature</b>	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
<b>3. Damp Heat</b>	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
<b>4. Endurance</b>	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

## 2. Specification

A. Electrical Characteristics	
S.W.R.	$\leq 2.0$ @ 2400~2500 MHz
Antenna Gain	$+2.0 \pm 0.7$ dBi @ 2450 MHz
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

## 3. S Parameter Test Data



#### 4. Antenna Radiation Pattern

##### Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

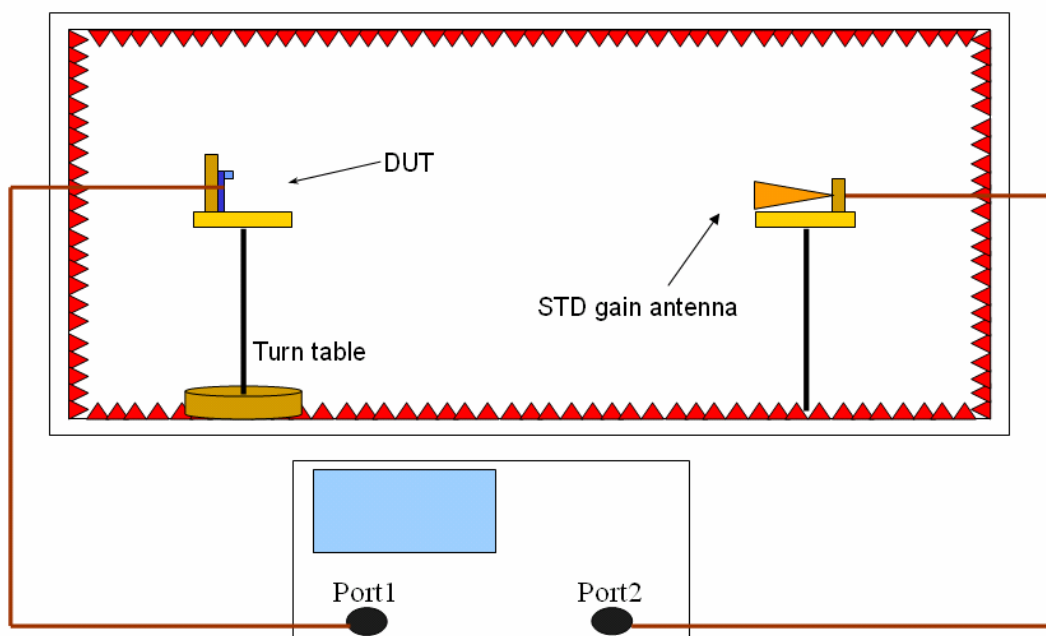
Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna



#### 5. Mechanical Drawing

#### 6. MSDS & SGS Report



Model : 2.4GHz Antenna // Cortec  
 Remark : H-plane // Vertical Polazation  
 Tested by : CORTEC Antenna 3D Lab // Zhang Bing Xiang

Location: **Chamber**      Date: **2007/11/22**      Time: **上午 11:24:23**  
 Temperatur (°C): **22.00**      Humidity (%): **55.00**      Approved by:

Freq. (MHz)	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	2.23	2.4	2.39	2.28	2.48	2.1	2.24	2.19	1.77	2.01	1.98	1.61
Peak Degree	166	160	160	160	159	123	123	123	148	147	147	147
AV Gain (dBi)	1.18	1.4	1.37	1.33	1.62	1.25	1.36	1.37	0.95	0.96	0.72	0.28

