

產品規格承認書

Specification For Approval

日期： 2007 / 10 / 08

Date

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Revision

承認廠商： 深圳磊科網絡有限公司

Customer

製造廠商： 東莞康捷電子有限公司

Manufacturer

型號品名： **2.4 GHz External Antenna**

Part Number

Description

R-AN2400-1901RS

廠商審核：

Approved By

Invax

英碩科技股份有限公司
台北市忠孝東路五段 815 號 4 樓
Tel: 886-2-2788-5218 Fax: 886-2-2783-1658

Cortec

東莞康捷電子有限公司
廣東省東莞市長安鎮振安路
沙頭段咸西工業區
Tel: 86-769-85388261 Fax: 86-769-85397133

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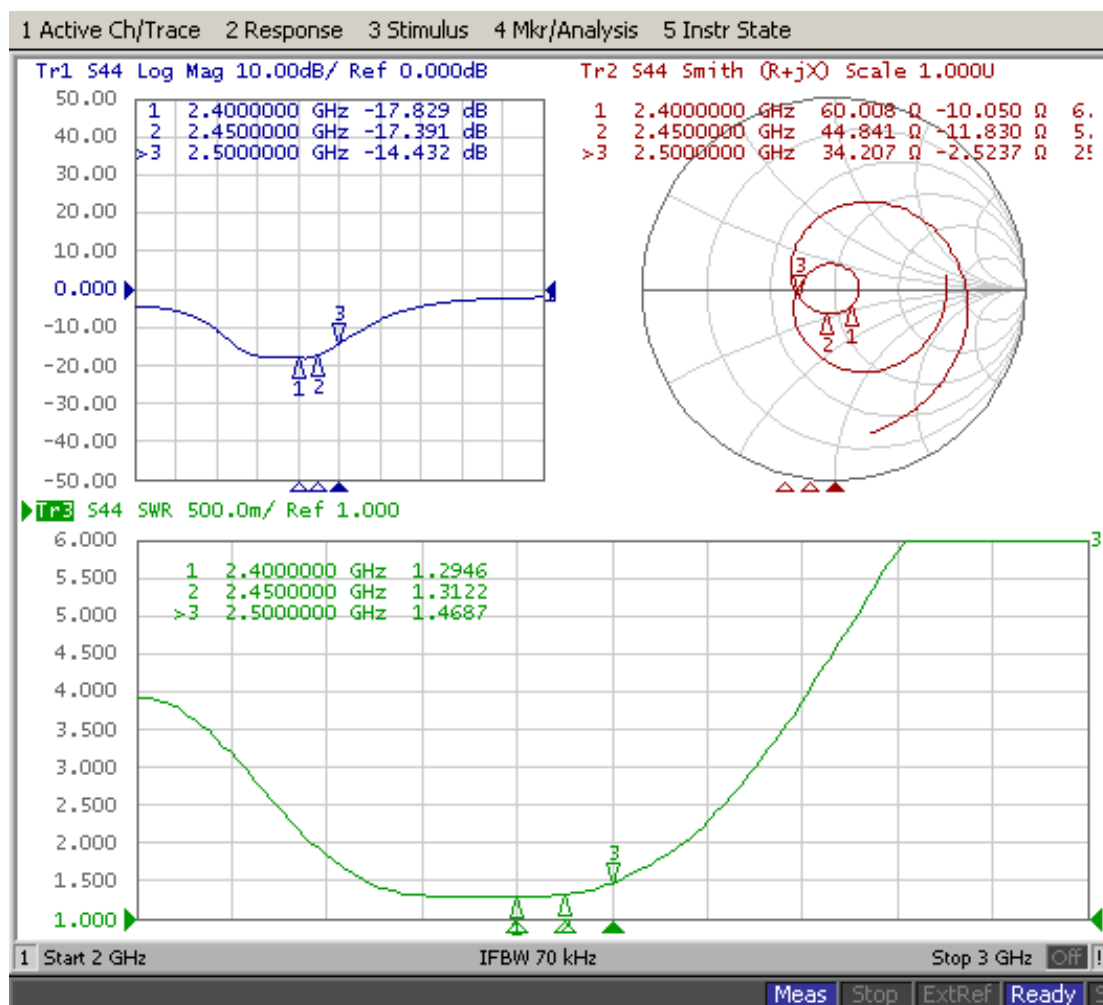
1. Reliability Testing

Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
3. Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
4. Endurance	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.	≤ 2.0 @ 2400 ~ 2500 MHz
Antenna Gain	5.0 ± 0.7 dBi (*Depends on Product Mechanical Environment*)
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
Connector Type	50 Ohm SMA Male Reverse
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

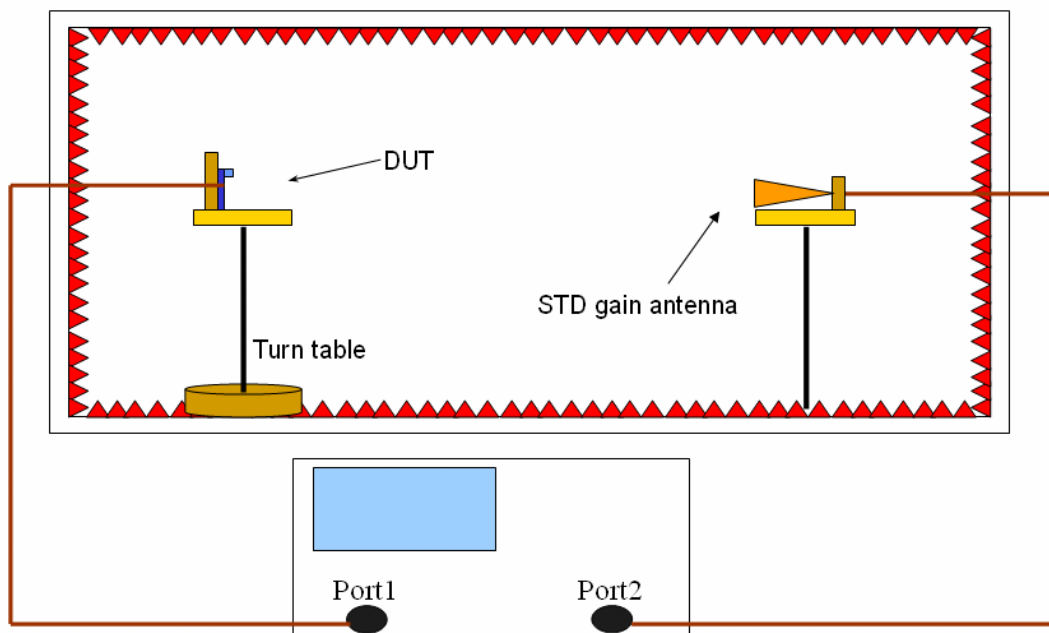
Quiet Zone: 600mm @1 GHz

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



Cortec Technology Inc.

广东省东莞市长安镇振安路沙头段咸西工业区

Model : 2.4GHz-5dBi Antenna // 03
Remark : H-Plane // Vertical Polarization
Tested by : CORTEC Antenna 3D Lab // Zhao Yao Rong

Location: Chamber

Date: 2007/5/12

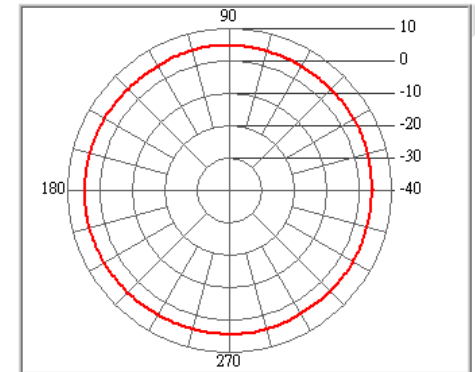
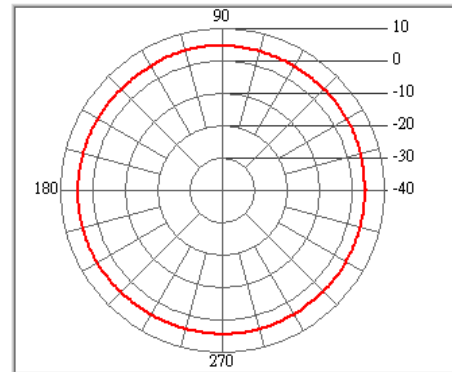
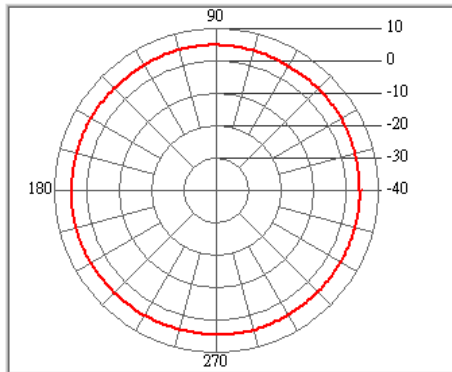
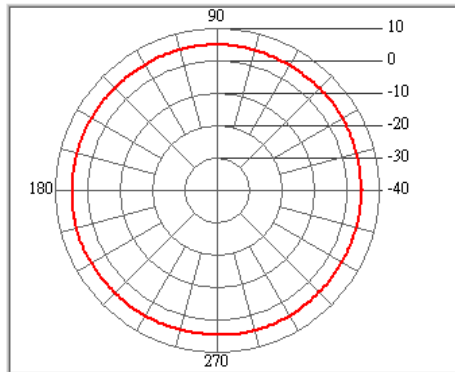
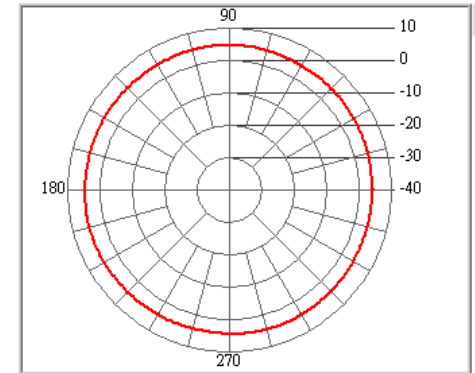
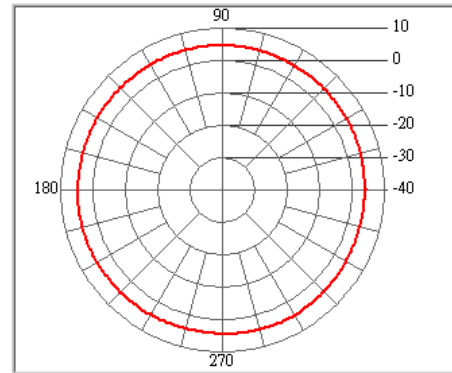
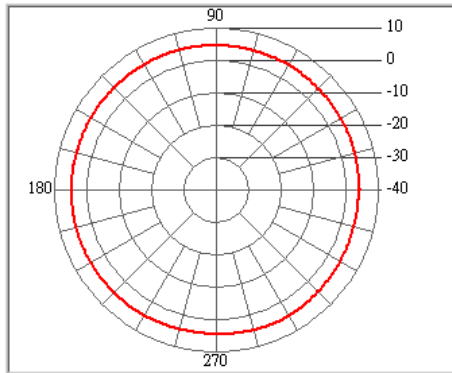
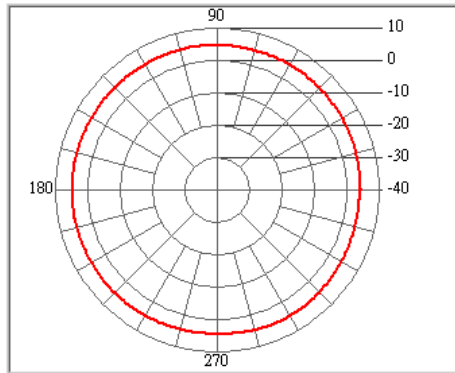
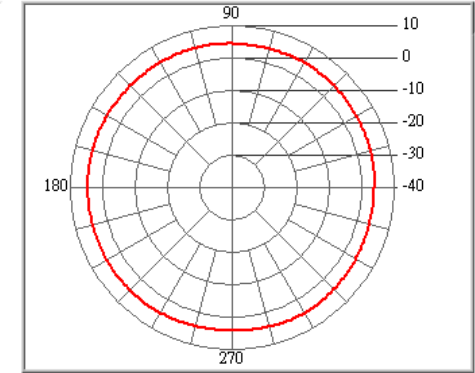
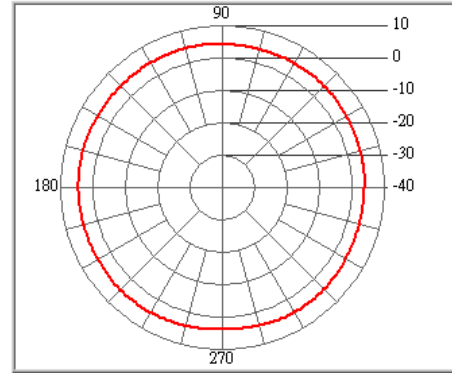
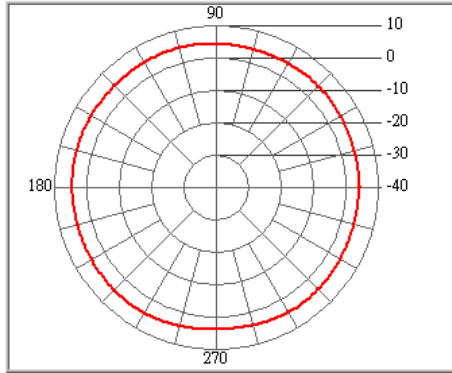
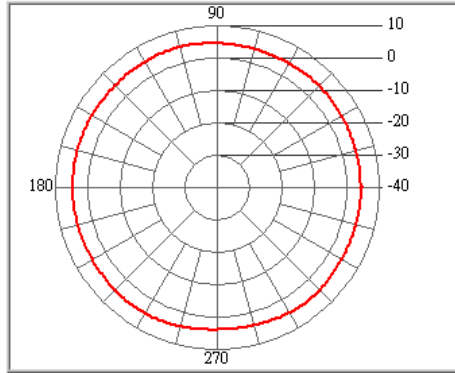
Time: 上午 09:43:22

Temperatur (°C): 22.00

Humidity (%): 55.00

Approved by:

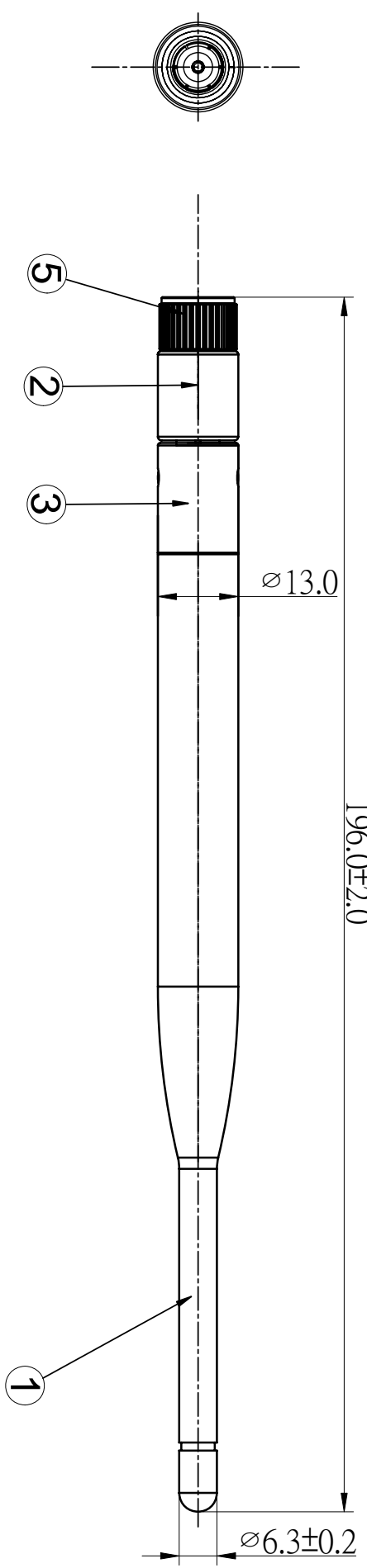
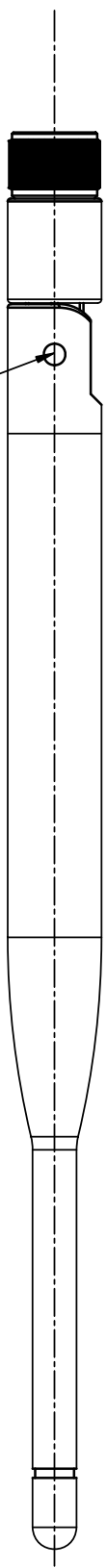
Freq. (MHz)	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	5	4.76	4.61	4.74	4.92	4.83	4.73	4.78	5.02	4.94	4.78	4.85
Peak Degree	117	228	228	228	295	295	203	105	105	105	99	99
AV Gain (dBi)	4.52	4.37	4.3	4.45	4.65	4.56	4.46	4.47	4.72	4.57	4.36	4.38



ROHS

Compatible

SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



No.	Part Number	Description	Material	Finished	Qty
5	R-SMA324-ZC8MRANT	SMA Male Reverse	Metal	Electrodeposition	1
4	R-AN03-514CZ	Pin	Metal	Electrodeposition	2
3	R-AN03-T01	Body1	PA-6	Black	1
2	R-AN03-T02	Body2	PA-6	Black	1
1	R-AN1901-01	Body	TPE	Black	1

Inrax System Group.
Cortec
 Cortec Technology Inc.
 Http://www.inraxsystem.com
 E-mail:lin@inrax.com.tw
 Tel: 886-2-27888218
 Fax: 886-2-27831698

TITLE: 2.4 GHz Antenna
 PART NO.: R-AN2400-1901RS
 DWG NAME: R-AN2400-1901RS.dwg

APPROVED BY	CHECKED BY	DESIGNED BY	UNITS: mm	Tolerance
Grant	Liu kui	Zhang yue xin	SCALE: 1/1	X.X ±0.1
2007/08/06	2007/08/06	2007/08/06	REVISION: A	X.XX ±0.05
				X° ±1°