Product Number: HN0915-9201SM
Product Name: Antenna

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1. S pecification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	**920 ~ 925 MHz**
S.W.R. <=	**2.0**
Antenna Gain	**0.85dbi**
Polarization Linear	
Impedance	**50 Ohm**
B. Material & Mechanical Characteristics	
Material of Radiator	**Cu**
Material of Plastic	**Body: TPE** **Holder: PA+ABS**
Cable Type	**RG-178**
Connector Pull Test	**>= 5 Kg**
Connector Torque Test	**200 ~ 500 g.cm**
C. Environmental	
Operation Temperature	**- 40 ℃ ~ + 85 ℃**
Storage Temperature	**- 40 ℃ ~ + 85 ℃**
MANUFACTURER	Dongguan Hao Nuo electronic Co., LTD
Address	Room 201, No. 316, Shuan Road, Humen Town, Dongguan City, Guangdong Province

2. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	MIL-STD-202G, 201A Amplitude: 0.03 inch (0.76mm); Freq: 10 to 55 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	Height: 1.5 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	MIL-STD-202G, 210F, cond. A Solder iron: 350±10°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	MIL-STD-202G, 211A, cond. A Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M5	Terminal-Torque Test	MIL-STD-202G, 211A, cond. E Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M6	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	MIL-STD-202G, 101E, cond. B Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	MIL-STD-202G, 103B, cond. B Temp: 40°C; RH: >= 95%; Time: 48 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E4	Life (High Temp.)	MIL-STD-202G, 108A, cond. A Temp: 85°C; Time: 96 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2002/95/EC
R2	PFOS	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC
R3	PFOA	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC

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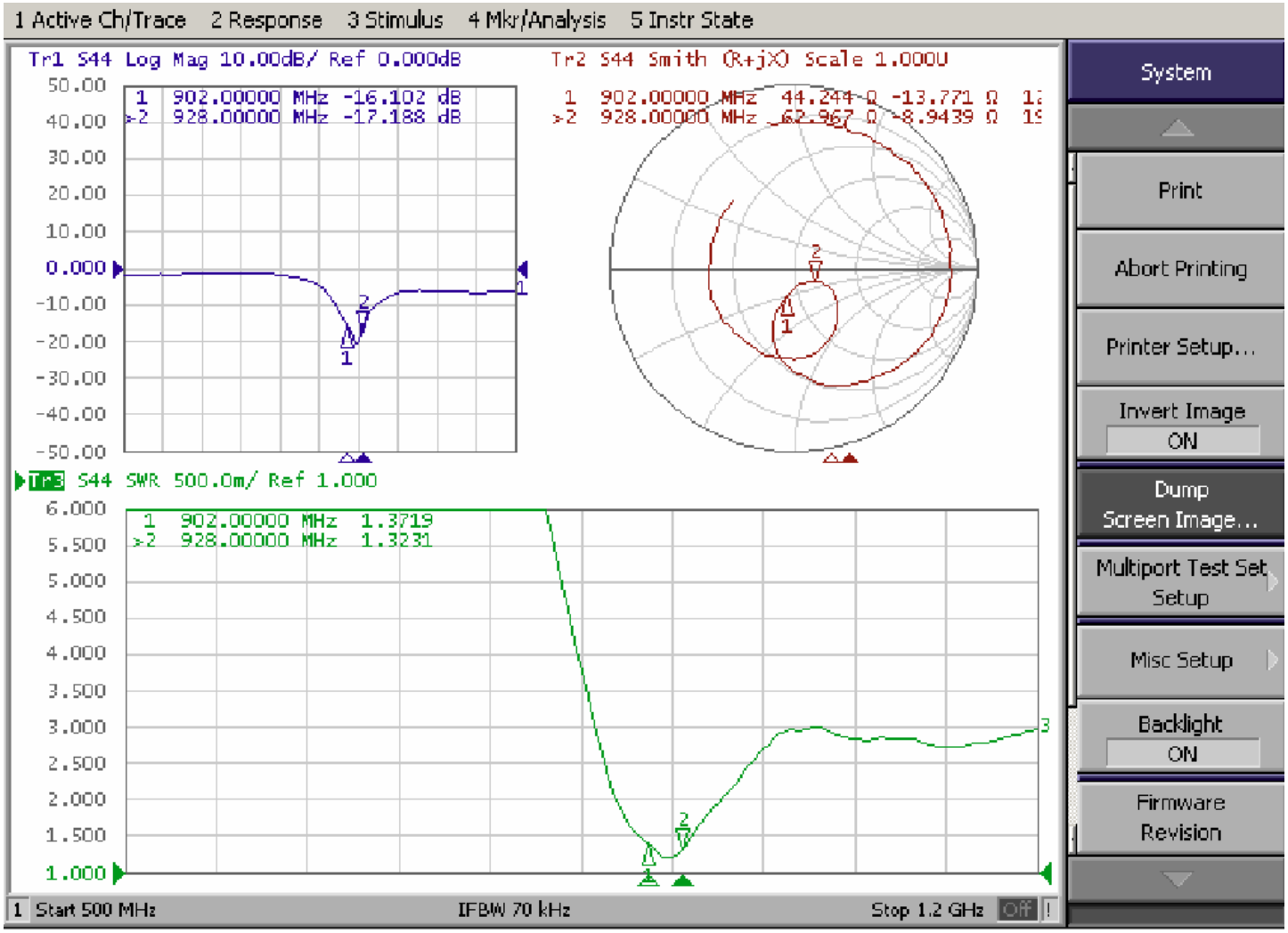
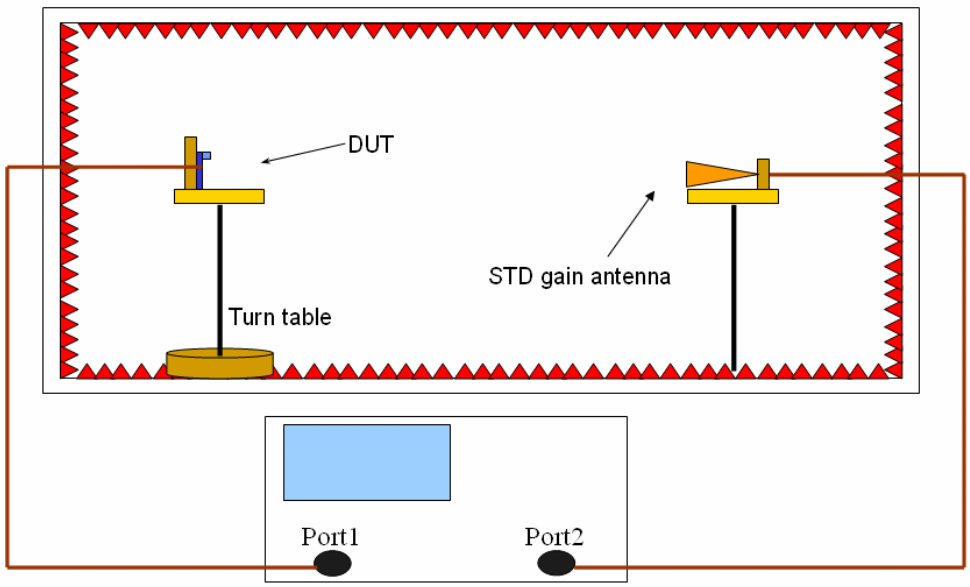
3. Antenna - S Parameter Test Data



4. Antenna - Radiation Pattern Test Data

Testing Equipment Specification:

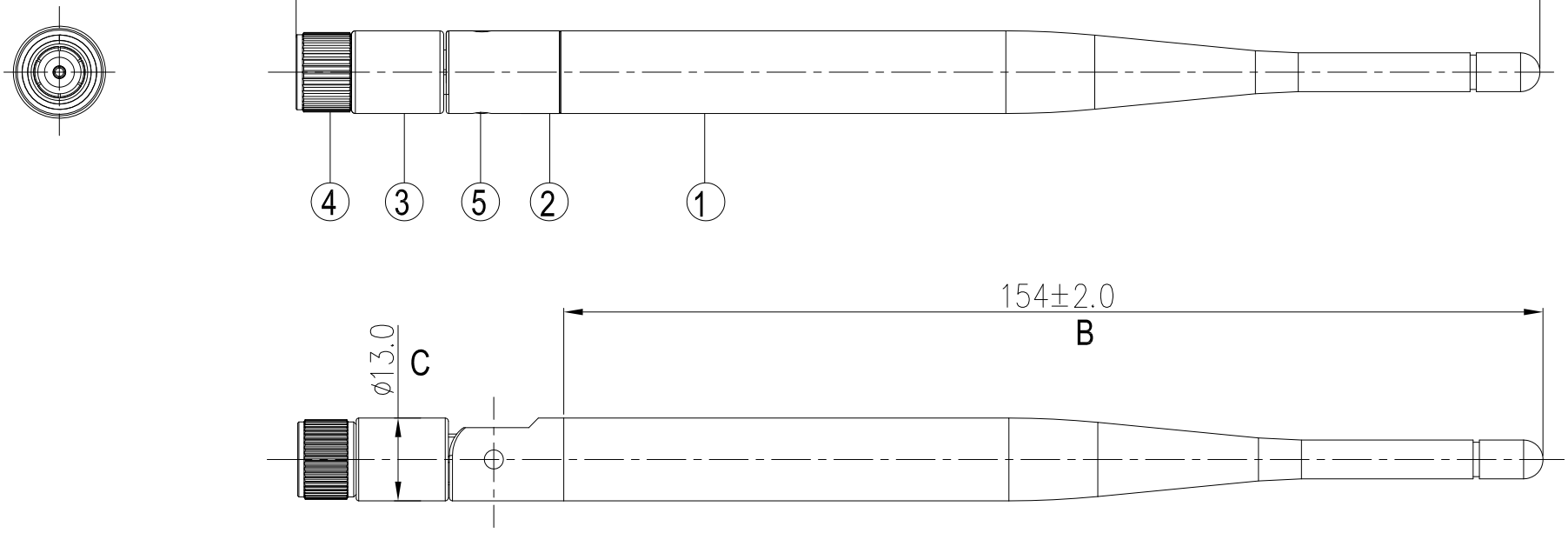
Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m
Quite Zone: 600mm @1 GHz
Isolation: >100dB @ 1 MHz ~ 10 GHz
Testing Equipment: Agilent 5071B
Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration
Double Ridged Horn Antenna



5. Mechanical Drawing

See attached files

SIGN	DATE	DESCRIPTION	APPROVER
B			
C			
D			

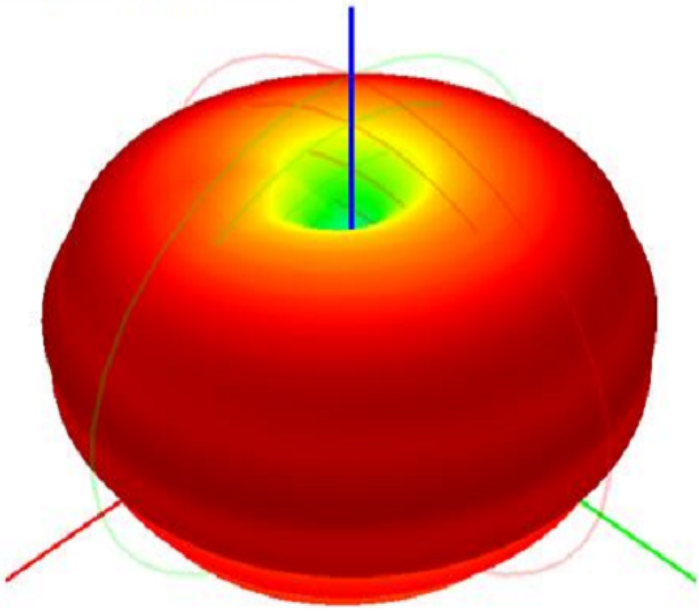


No.	Part Number	Description	Material	Finished	Q'ty
4	SMA096-CCT5AN96	SMA Male	Cu	Eletrodeposition	1
3	WF03-T06B	Body-1	PA+ABS	Black	1
2	WF9601-02B	Body-2	PA+ABS	Black	1
1	WF9601-04B	Body-3	TPE	Black	1

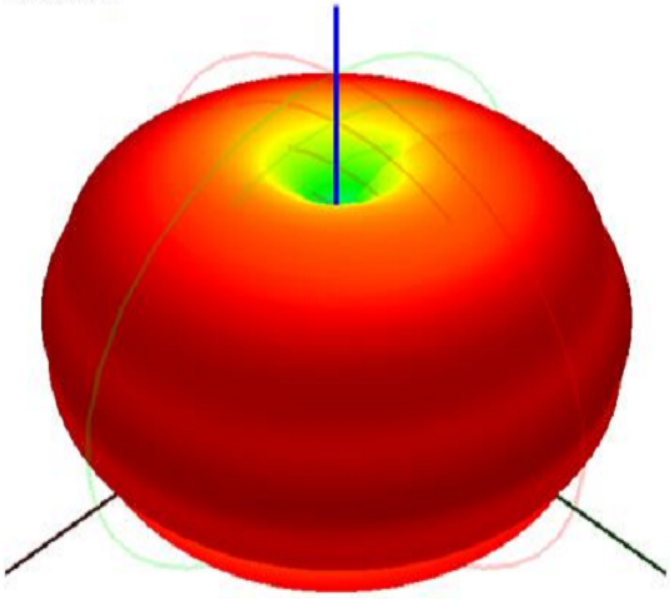
Tel:86-0769-89158063
Fax:86-0769-85309196

TITLE: 915MHz Antenna				
PART NO.: HN0915-9201SM			DWG NAME: HN0915-9201SM.DWG	
APPROVED BY	CHECKED BY	DESIDNED BY		Tolerance
Grant 2014-06-05	leon 2014-06-05	ZYR 2014-06-05	UNITS: mm SCALE: 1/1 REVISION: A	X.X ±0.30 X.XX ±0.10 X° ±3°

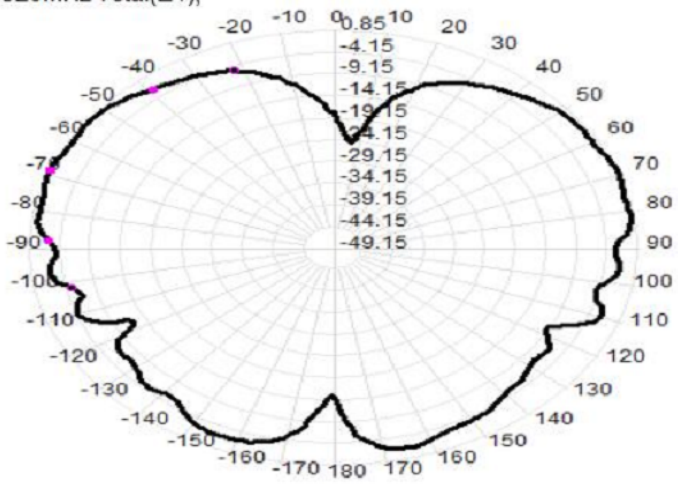
920MHz H+V, Eff: 53.5%



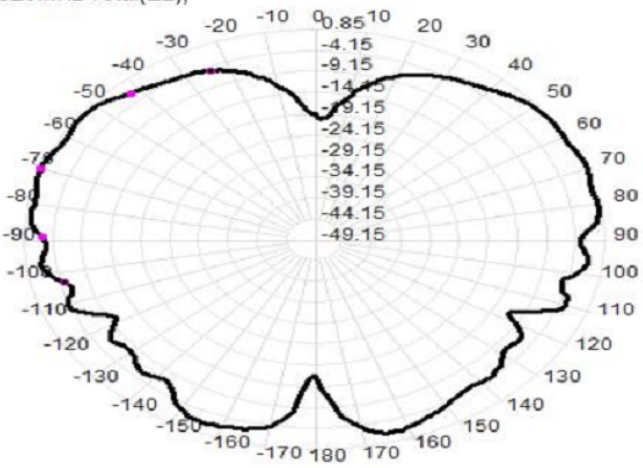
Back View



920MHz Total(E1),



920MHz Total(E2),



920MHz Total(H),