APPROVAL SHEET

Dipole ANTENNA

433MHz Working Frequency

Halogens Free Product

P/N: RFDPA131000SBUB802

Customer：_____

Customer ‘s Part No.：_____

Approval No.：_____

Issue Date：_____

*Contents in this sheet are subject to change without prior notice.

Version	Date	Description	Author
V01	2017 Feb.	New Release	SHLEE

ELECTRICAL CHARACTERISTICS

Item	Specification
Frequency Range	433 MHz(note-1)
Impedance	50 Ohm Nominal
VSWR	2 Max.
Radiation	Omni-directional
Gain(peak)	1.3dBi
Polarization	Linear Vertical
Admitted Power	1W

*note-1: Electrical characteristics will depend on customer's final application.

MATERIAL TABLE

Items	Description
Cable	RG178(Brown)
Antenna Cover	ABS(Black)
Antenna Base	PC+PBT(Black)
Connector	Reverse SMA Plug(Black)
PCB	FR4
Sponge	Black

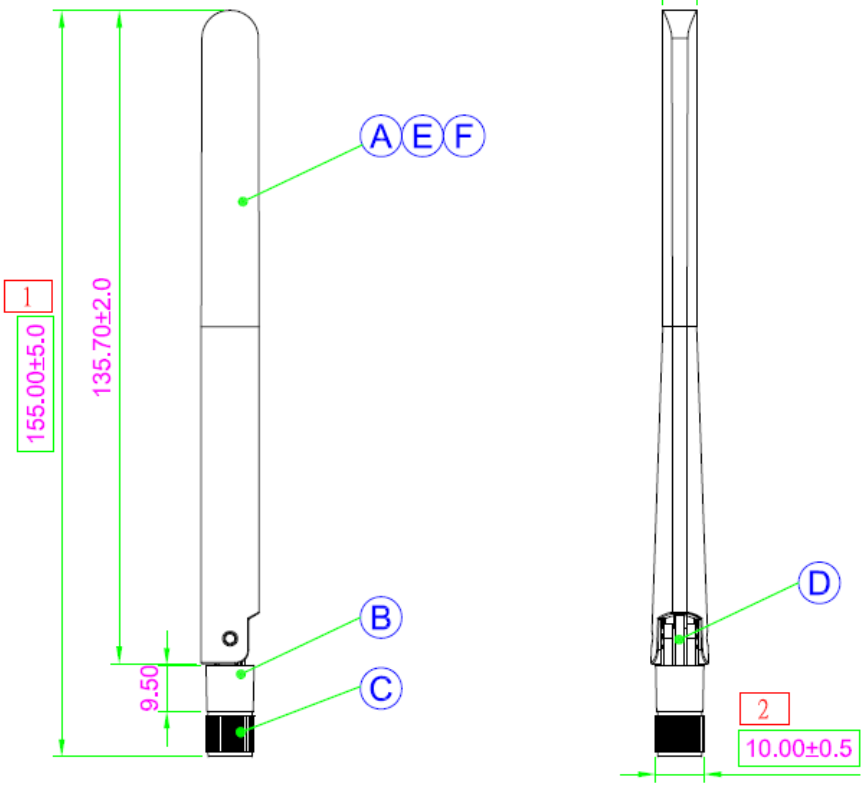
ORDERING RULE

RF	DPA	1310	00	S	B	U	B	8	02
Type Code	**Product Code**	**Dipole Dimension (Unit: mm)**	**Cable Length (unit: cm)**	**Connector Brand**	**Type of Connector**	**Application**	**Project status**	**Wire Diameter**	**Project**
Walsin RF Device	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 1510 Length 150.8mm, Width 10mm	2 digits for cable length e.g.: 00 None Cable	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 3: 3GHz 6: 6GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band N: NFC T: LTE band W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:⌀ 0.81 3:⌀ 1.13 6:RG316 7:⌀ 1.37 8:RG178	01~99 series number

DIMENSIONS

	No.	DESCRIPTION	MAT'L	Color	Q'TY
A	Antenna Cover		ABS	Black	1
B	Antenna Base		PC+PBT	Black	1
C	Connector	Reverse SMA Plug	Brass	Black	1
D	Cable	RG178	——	Brown	1
E	PCB	RFPCA1109-06_Rev01	FR4	——	1
F	Sponge		——	Black	1

ELECTRICAL
Frequency:433 MHz



※標記□記號者，為重點檢驗尺寸

LTR	DESCRIPTION	DATE	REQ. BY

華新科技股份有限公司
Walsin Technology Corporation

設計DR. SHLEE 2017.02.08
核准Approved Marco

容許公差 TOLERANCE
6以下.....±0.2
6以上~30.....±0.5
30以上~120.....±0.8
120以上~315.....±1.2
315以上~1000.....±2.0
1000以上~2000.....±3.0

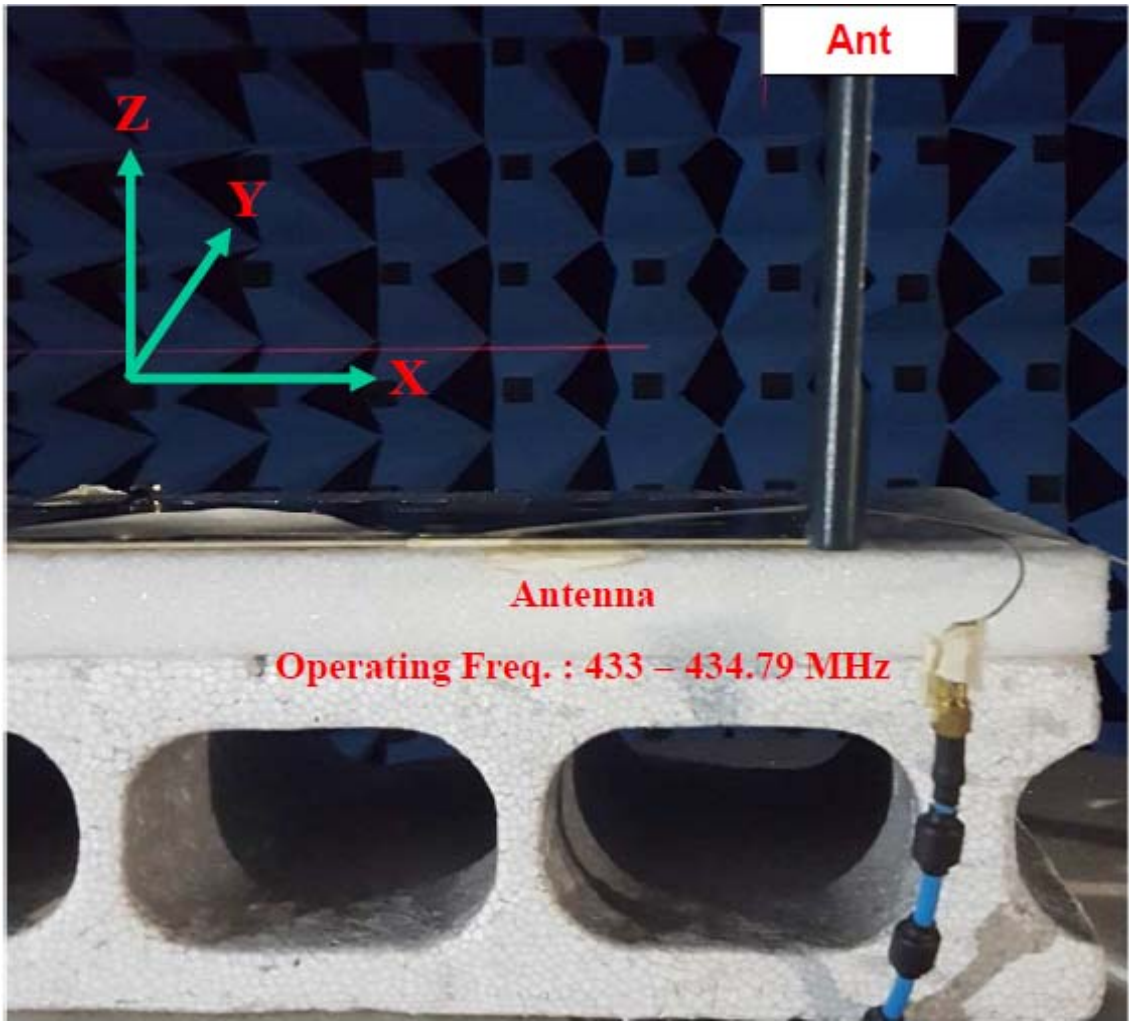
品名 ARTICLE: RFDPA131000SBUB802

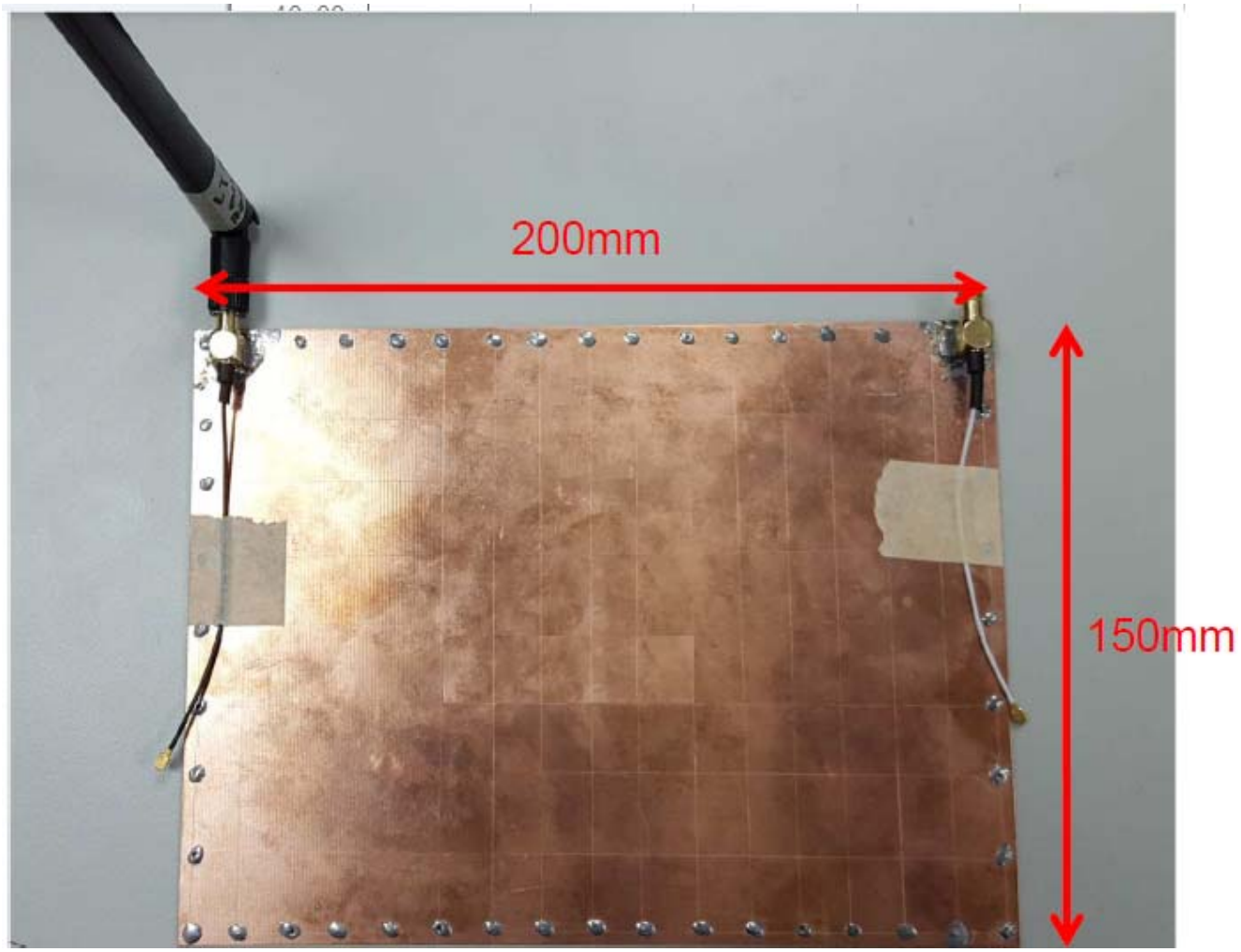
版本 REV.: A

單位 UNIT: mm
比例 SCALE: ****
張數 SHEET: 1

Test Report

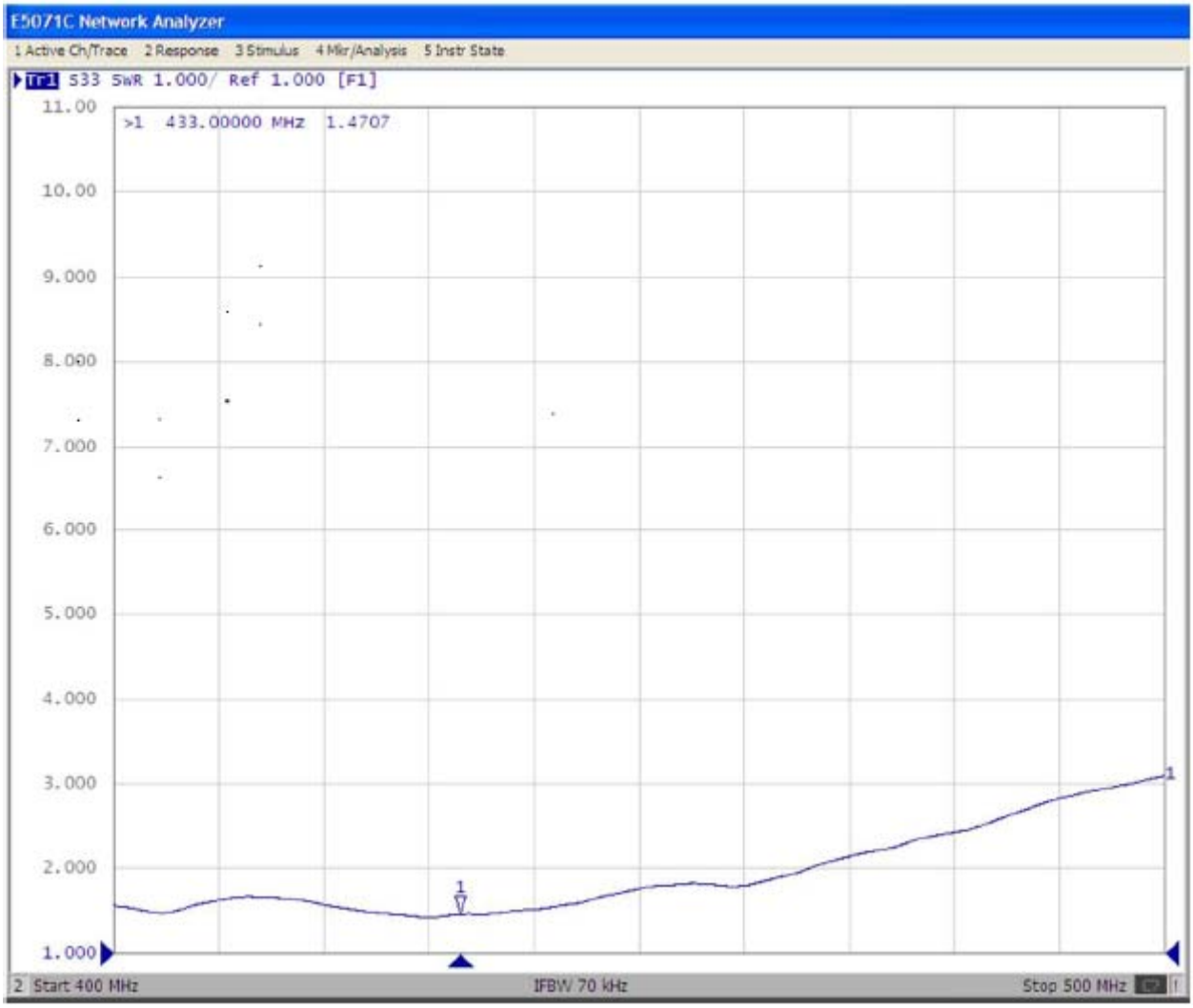
EXPERIMENTAL SETUP




200mm
150mm

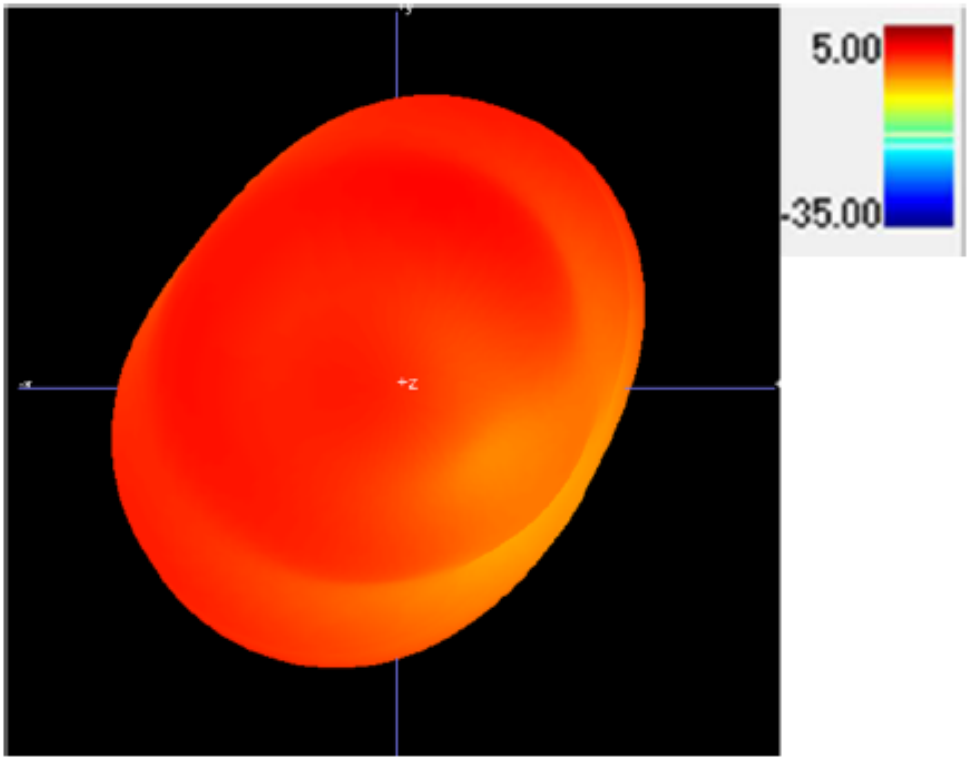
ELECTRICAL CHARACTERISTICS

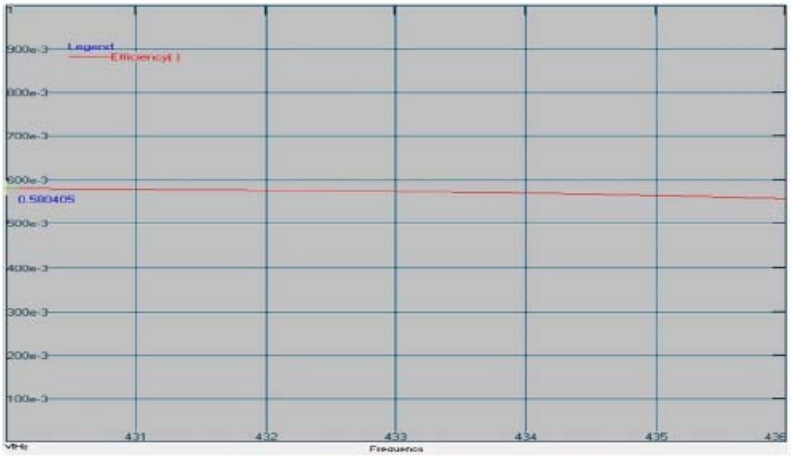
VSWR



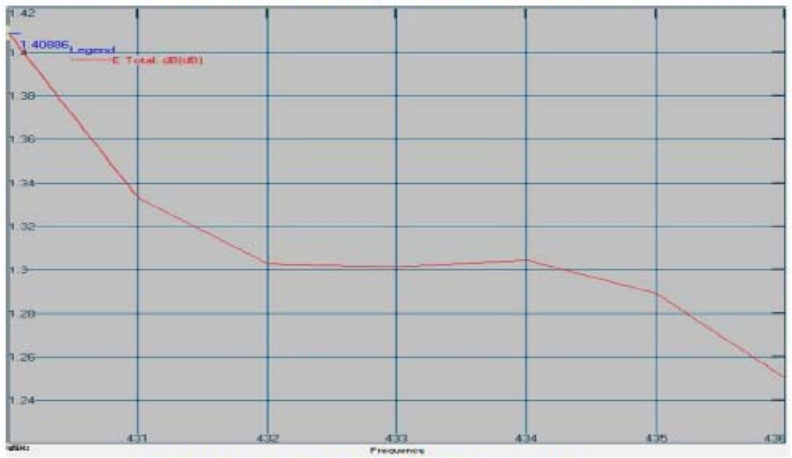
■Antenna and Peak Gain

433MHz





Maximum Efficiency 433MHZ : 57.04 %



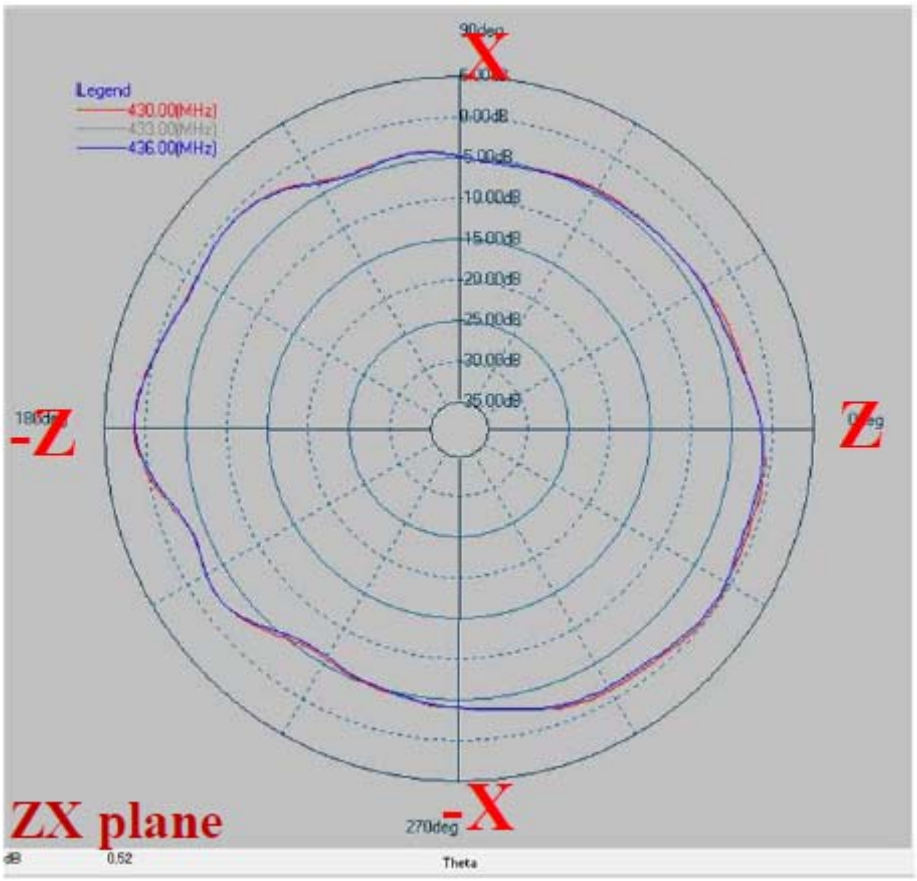
Peak Gain at 433MHZ : 1.3 dBi

RADIATION PATTERN

433 MHz

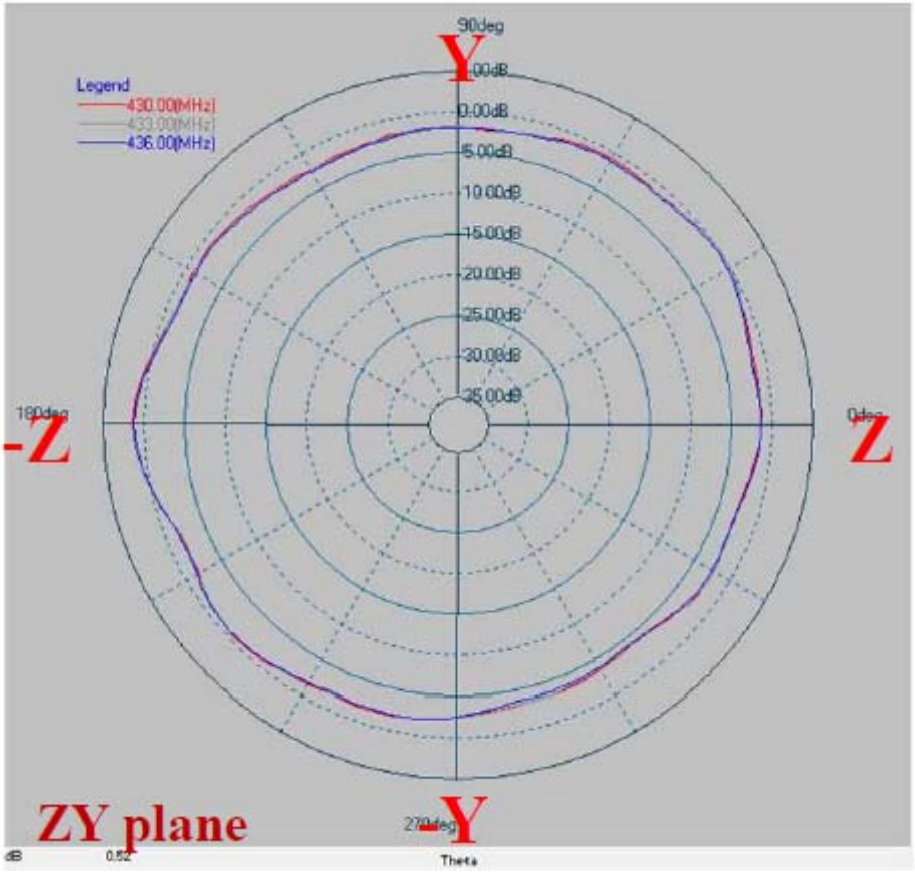
Phi=0.00deg

Gain . dB



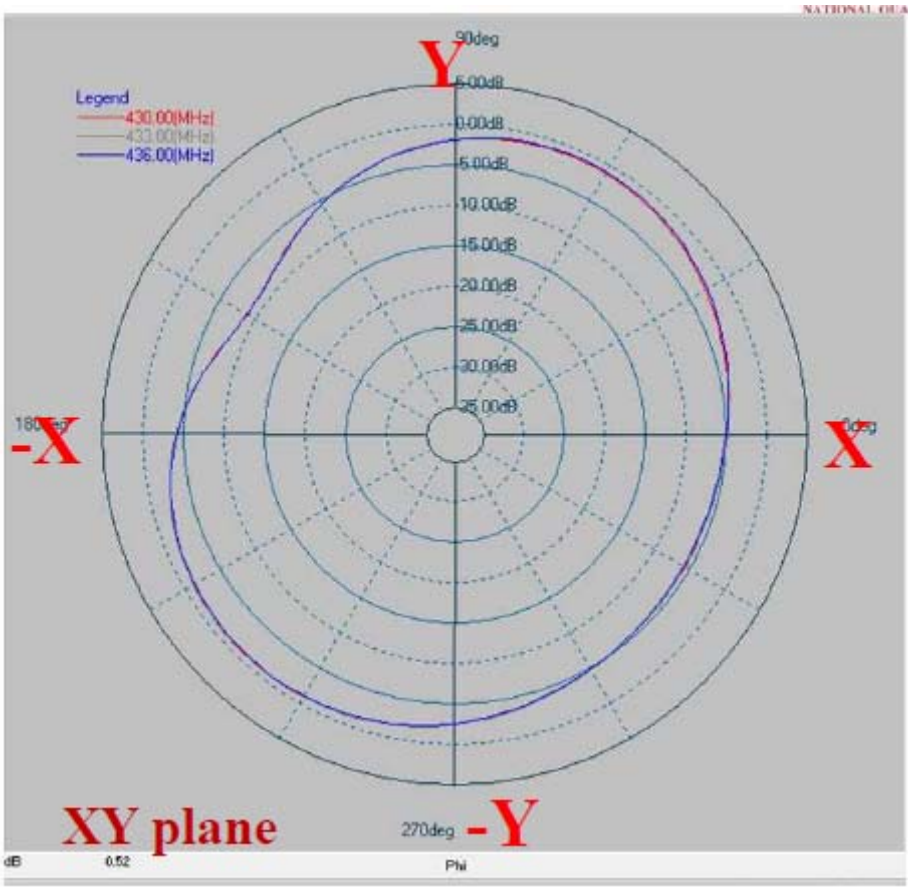
Phi=90.00deg

Gain . dB



Theta=90.00deg

Gain . dB



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
430	1.39 dB	-2.24 dB	1.39 dB	-1.47 dB	-0.93 dB	-3.25 dB
433	1.30 dB	-2.31 dB	1.28 dB	-1.52 dB	-0.82 dB	-3.15 dB
436	1.24 dB	-2.45 dB	1.22 dB	-1.63 dB	-1.00 dB	-3.25 dB