

品名：RFPCA381106IMAB301

1. Explanation of part number :

RF	PCA	3811	06	I	M	A	B	3	01
Type Code	Product Code	PCB Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
RF Device	PCB Antenna	Per 2 digits of length, width e.g.: 2221 Length 22mm, Width 21mm	2 digits for cable length e.g.: 14 Length 14.5cm	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 5: 5GHz 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 2:∅ 1.32 3:∅ 1.13 4:Low Loss ∅ 1.13 5:∅ 0.5 6:RG316 7: ∅ 1.37 8:RG178 9:Low Loss ∅ 1.37	01~99 series number

2. Electrical Specification :

Item	Specification
Working Frequency Range	2.4~2.5 GHz
Return Loss	-10 dB(Max.)
VSWR	2.0 Max.
Peak Gain	3.51 dBi
Impedance	50 Ohm Nominal
Radiation	Omni-directional
Polarization	Linear Vertical
Operation Temperature	-20°C ~ +65°C

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X = N/A X.X = N/A X.XX = N/A
 ANGLES = N/A HOLEDIA = N/A



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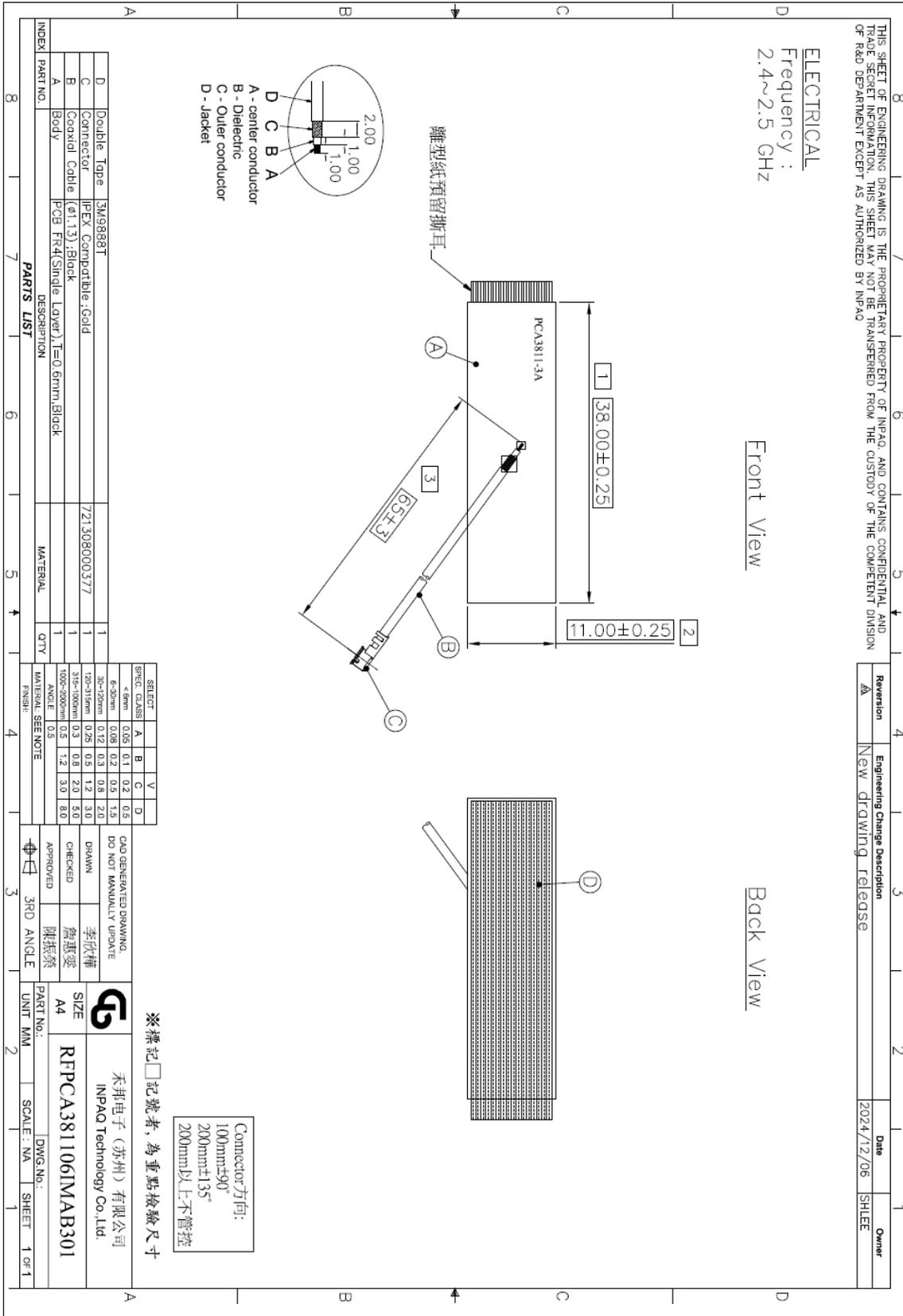
SCALE : N/A UNIT : mm
 DRAWN BY : 李欣樺 CHECKED BY : 詹惠雯
 DESIGNED BY : 黃瑞郎 APPROVED BY : 陳振榮

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3. Antenna Drawing :



UNLESS OTHER SPECIFIED TOLERANCES ON :
X=N/A X.X=N/A X.XX=N/A
ANGLES=N/A HOLEDIA=N/A



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DRAWN BY : 李欣樺
DESIGNED BY : 黃瑞部

UNIT : mm
CHECKED BY : 詹惠愛
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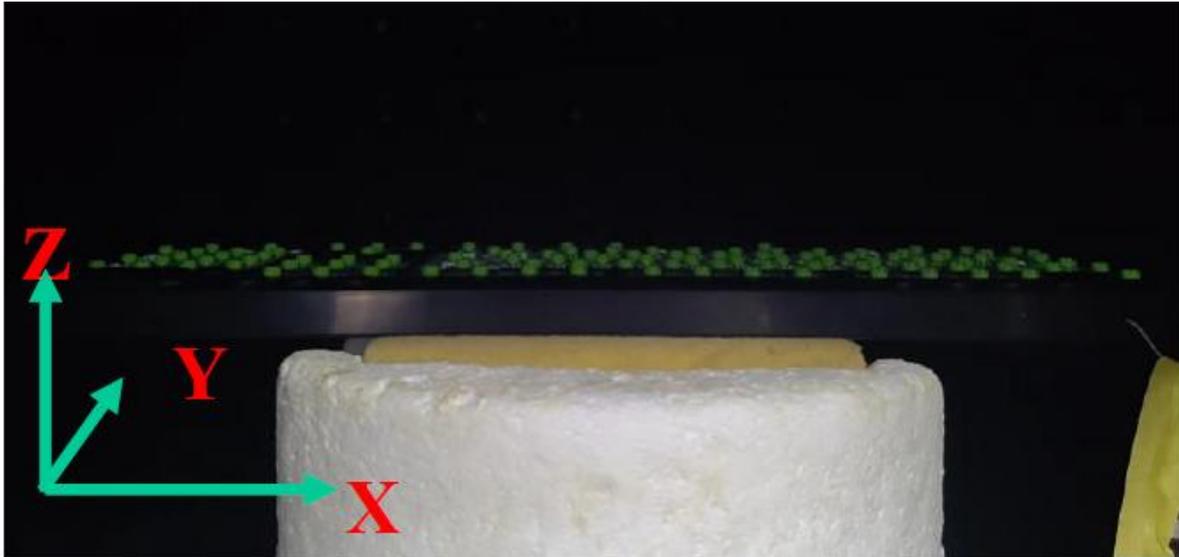
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4. Performance Report :

Test Report

ELECTRICAL CHARACTERISTICS

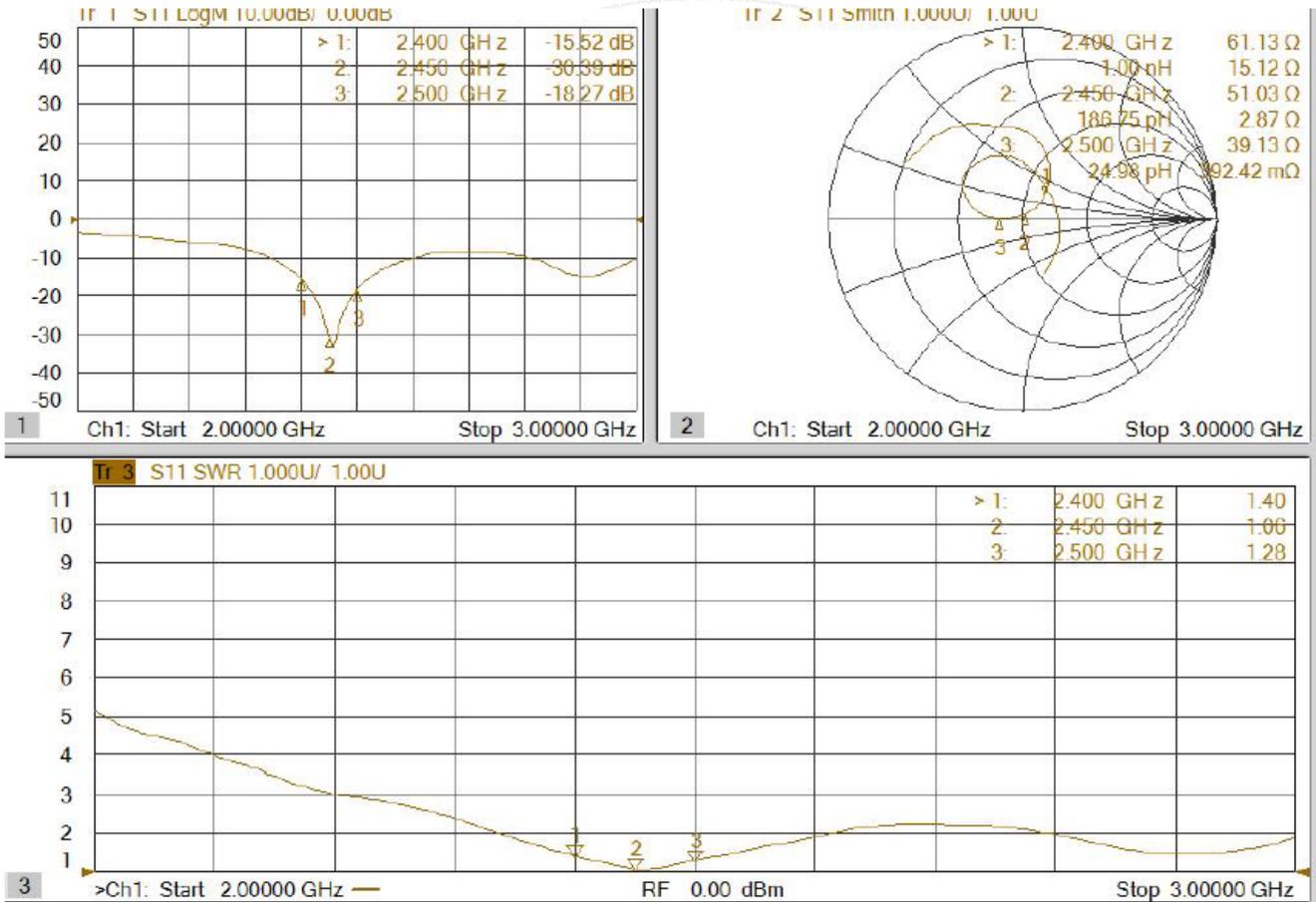
Return Loss



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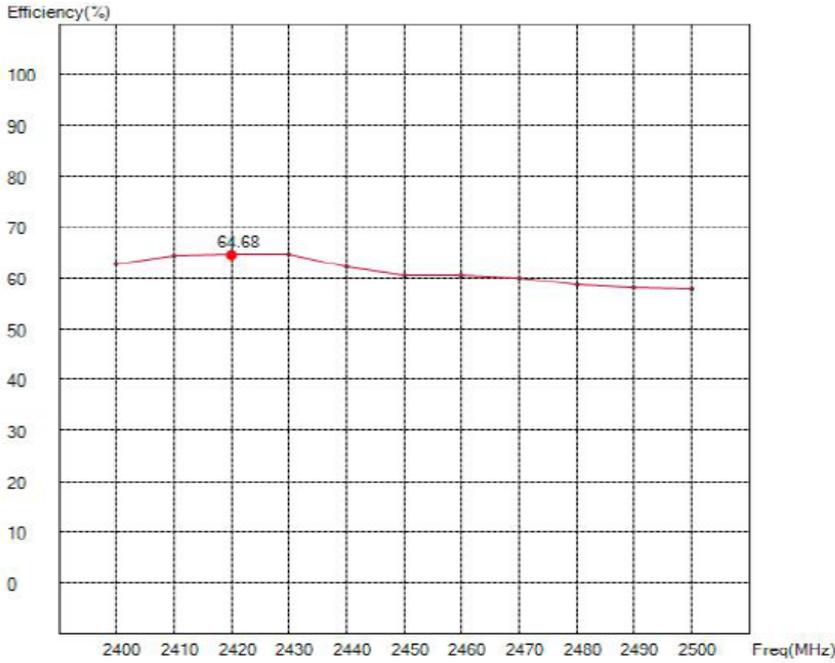
ELECTRICAL CHARACTERISTICS

S-Parameter

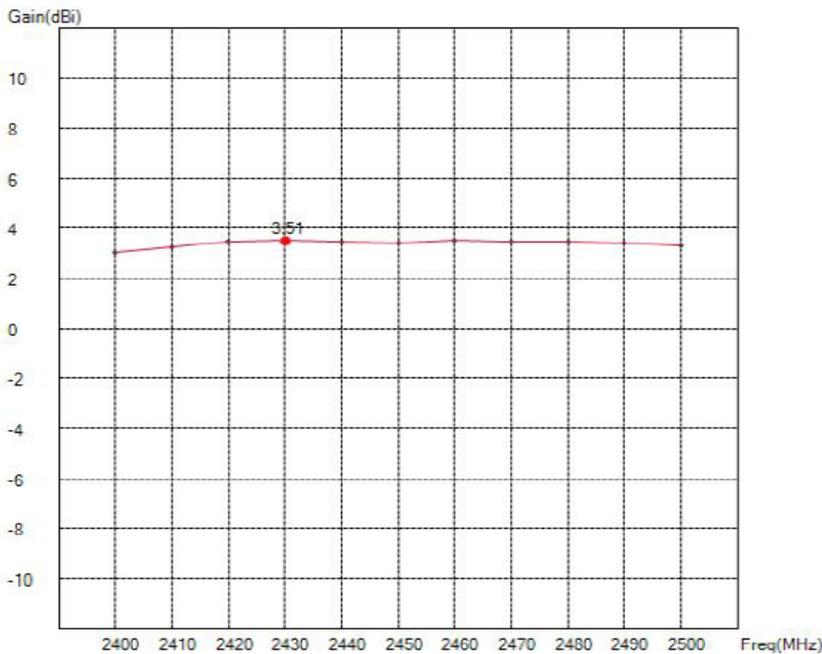


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Antenna Efficiency and Peak Gain



Maximum Efficiency at 2420MHz : 64.68%



Maximum Peak Gain at 2430MHz : 3.51dBi

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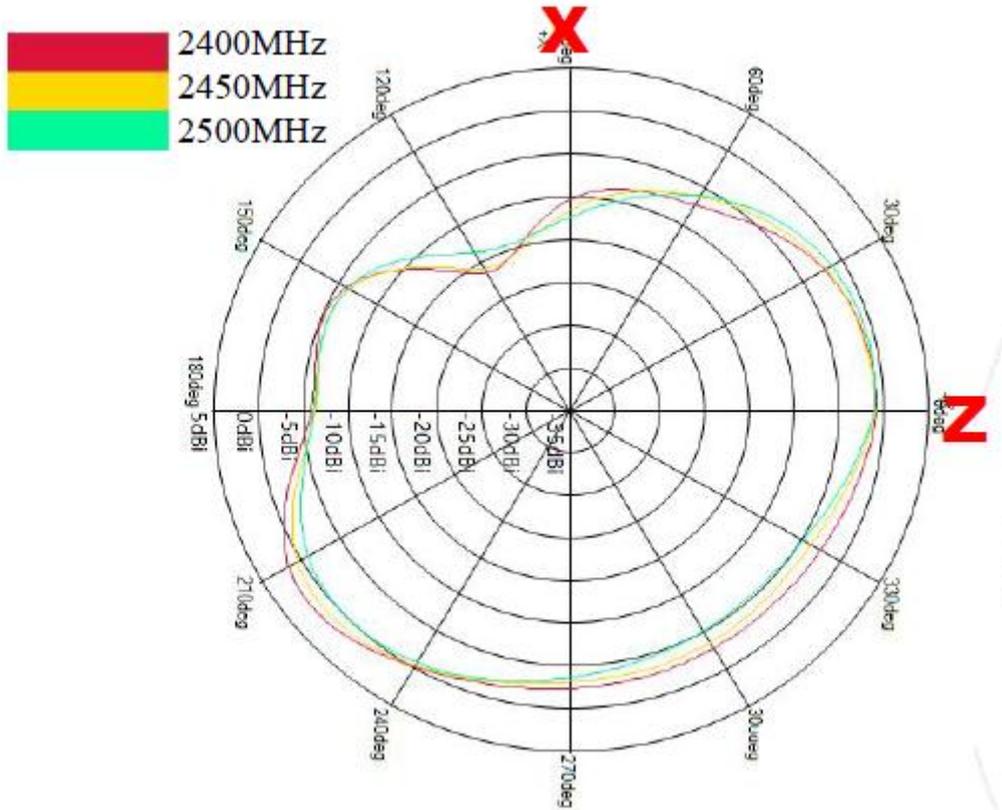
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RADIATION PATTERN

2400~2500 MHz

Phi=0.00deg

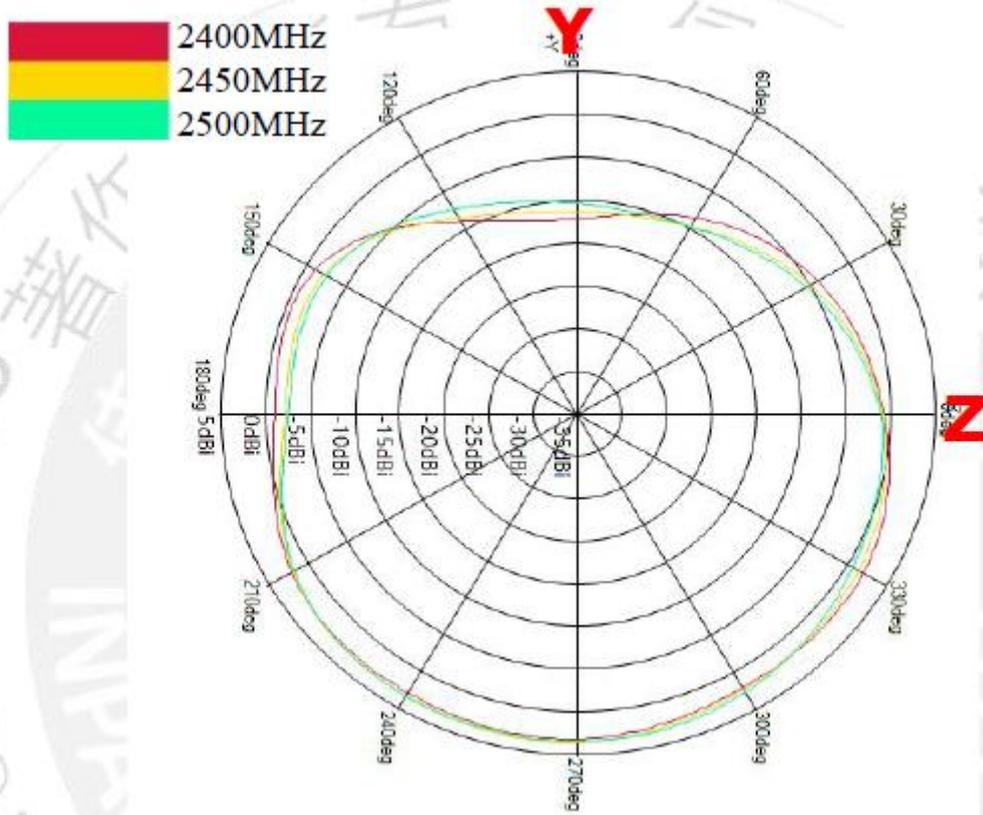
Gain . dBi



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Phi=90.00deg

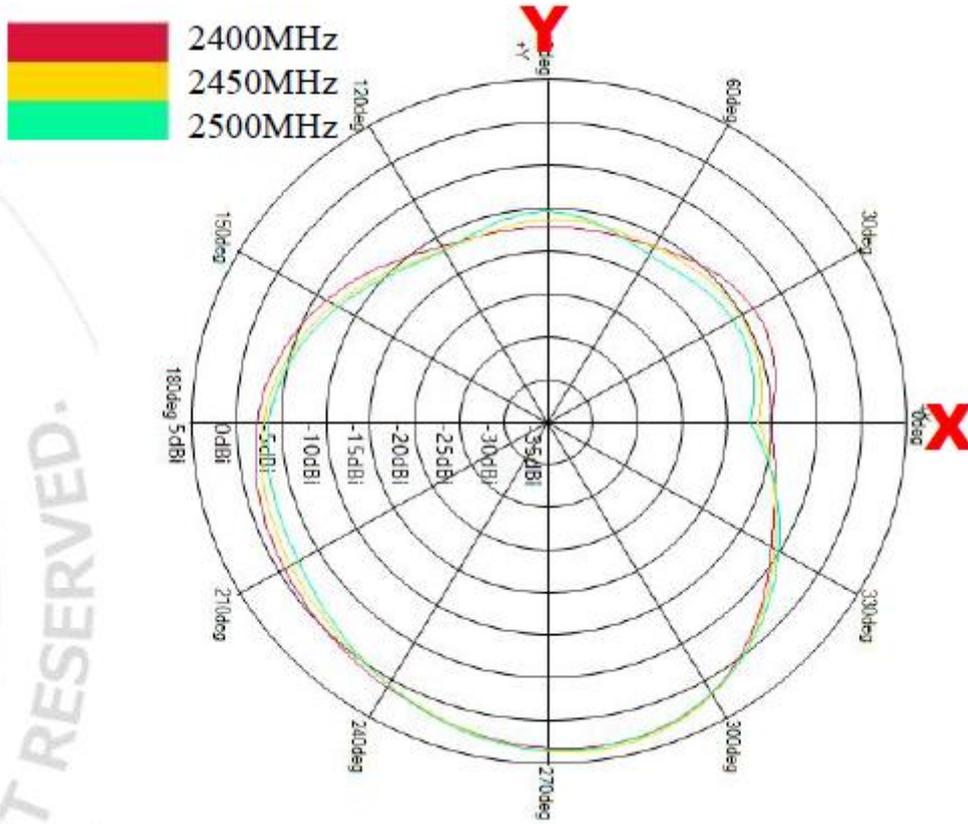
Gain . dBi



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Theta=90.00deg

Gain . dBi



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	1.32	-2.25	3.05	0.03	3.05	-2.36
2450	0.20	-2.70	3.40	0.06	3.40	-2.48
2500	-0.85	-3.09	3.31	-0.02	3.31	-2.68

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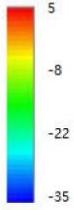
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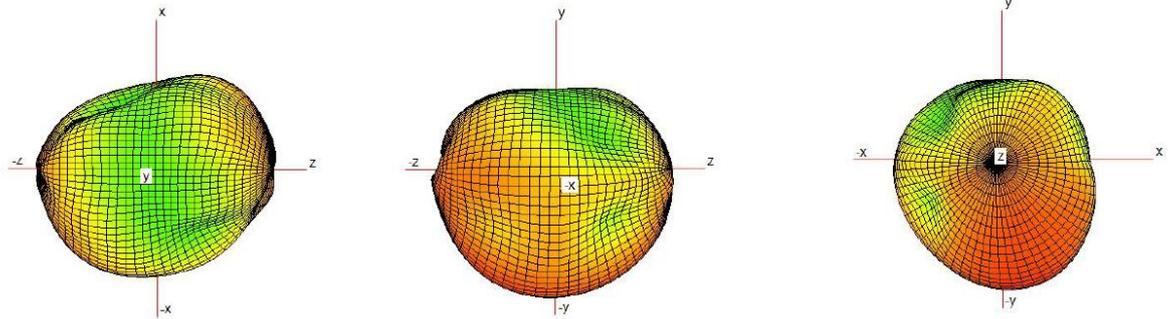
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3D Radiation Patterns



2450MHz



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ANGLES = N/A		HOLEDIA = N/A	
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