

品名：RFFPA201804IMAB101

History List

[illegible]

品名：RFFPA201804IMAB101

1. Explanation of part number：

RF	FPA	2018	04	I	M	A	B	1	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	FPC Antenna	Per 2 digits of length, width e.g.: 2813 Length 28mm, Width 13.1mm	2 digits for cable length e.g.: 12 Length 12.5cm	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)
Gain(peak)	0.24 dBi
VSWR	2 max.
Impedance	50 Ohm Nominal
Radiation	Omni-directional
Polarization	Linear Vertical
Operation Temperature	-20℃ ~ +65℃

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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No. 90 Keyi Street, Zhunan Town, Miaoli County, 350402

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

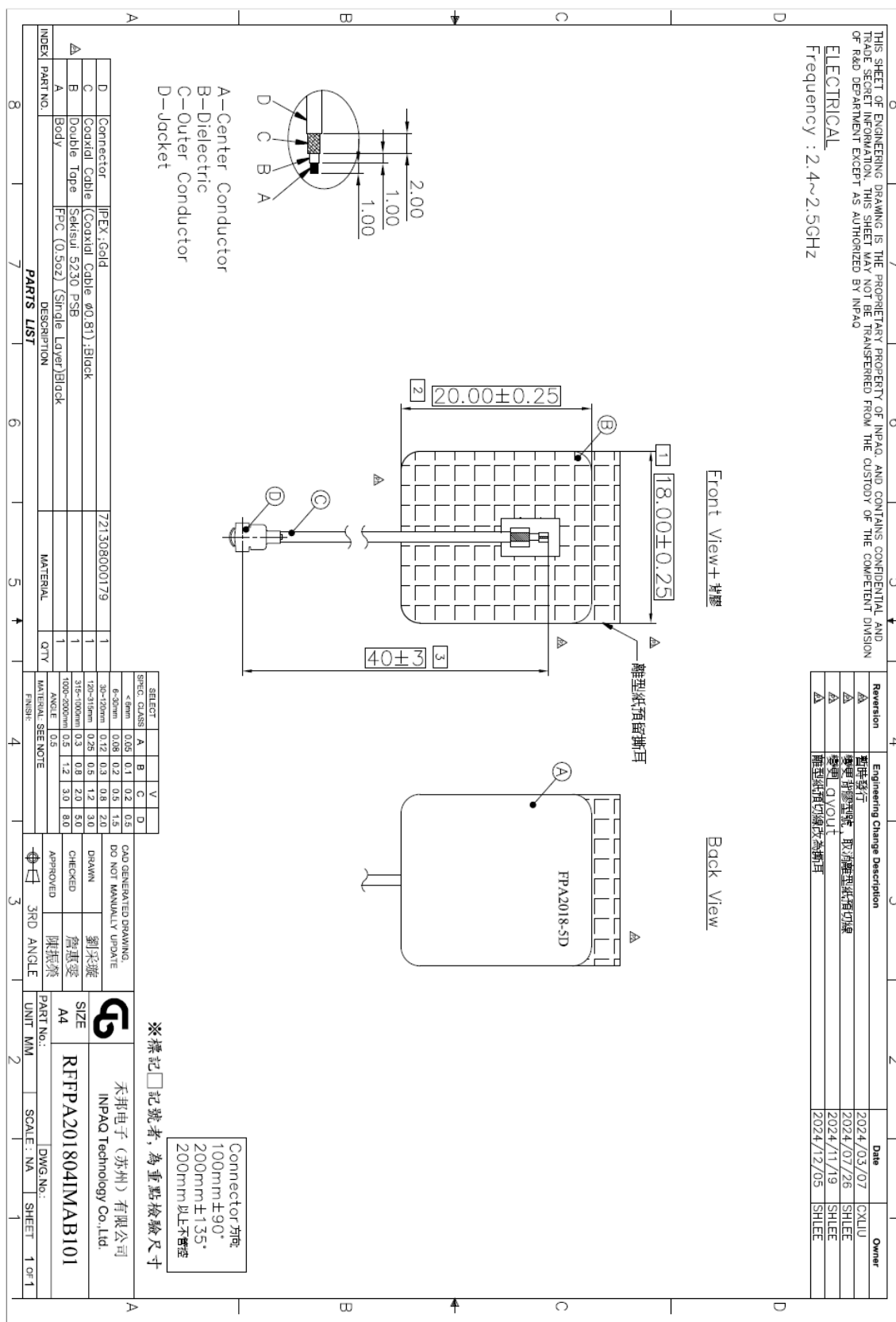
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3. Antenna Drawing :



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

SCALE : N/A

UNIT : mm

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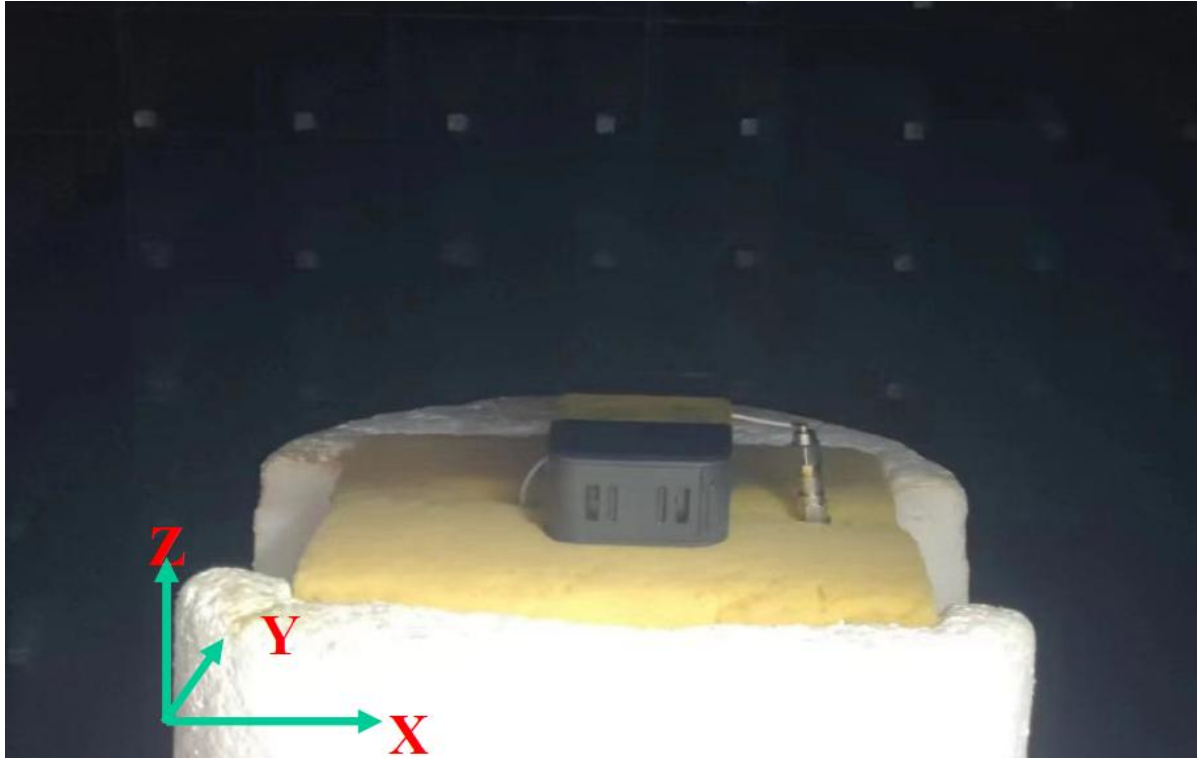
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4. Performance Report :

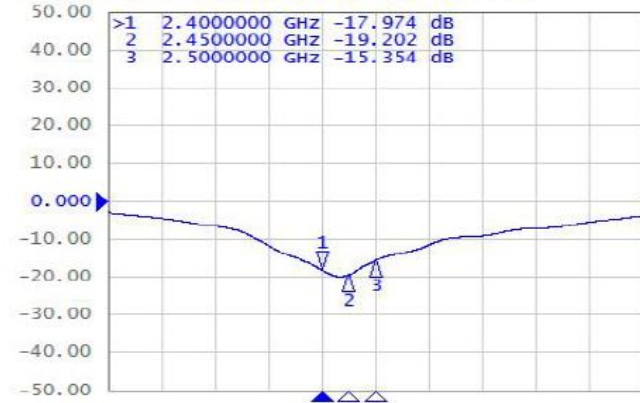
Test Report**■ Experimental Setup**

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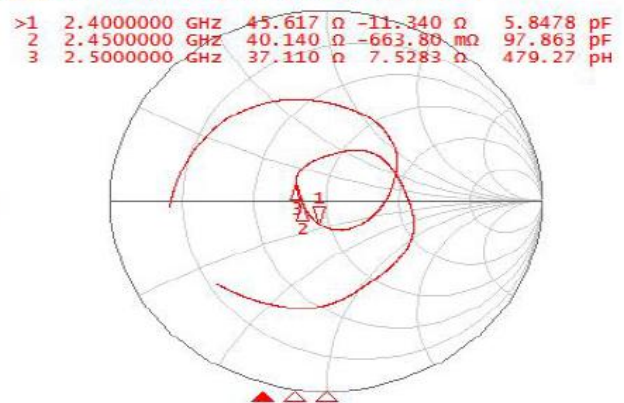
ELECTRICAL CHARACTERISTICS

S-Parameter

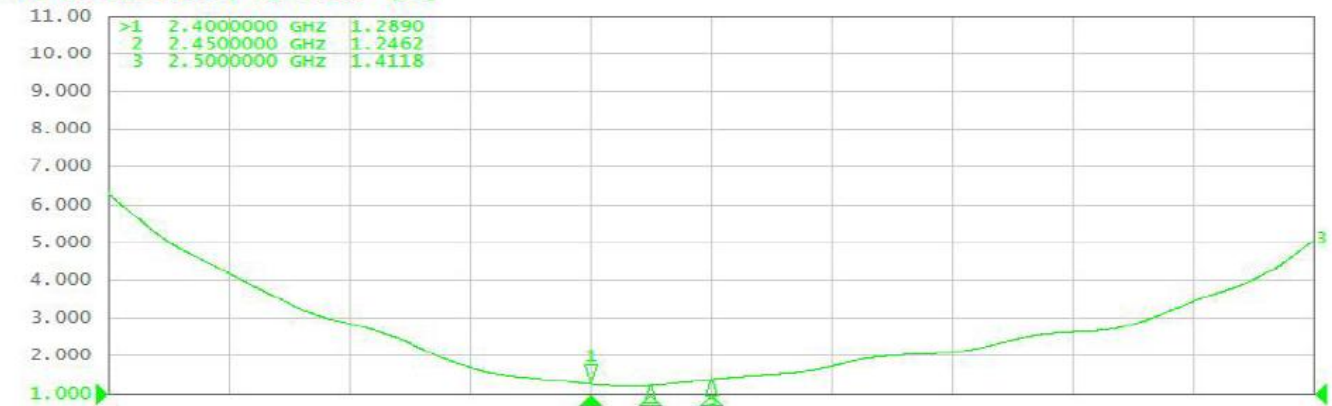
Tr1 S11 Log Mag 10.00 dB/ Ref 0.000 dB [F1]



Tr2 S11 Smith (R+jX) scale 1.000 u [F1]



Tr3 S11 SWR 1.000 / Ref 1.000 [F1]



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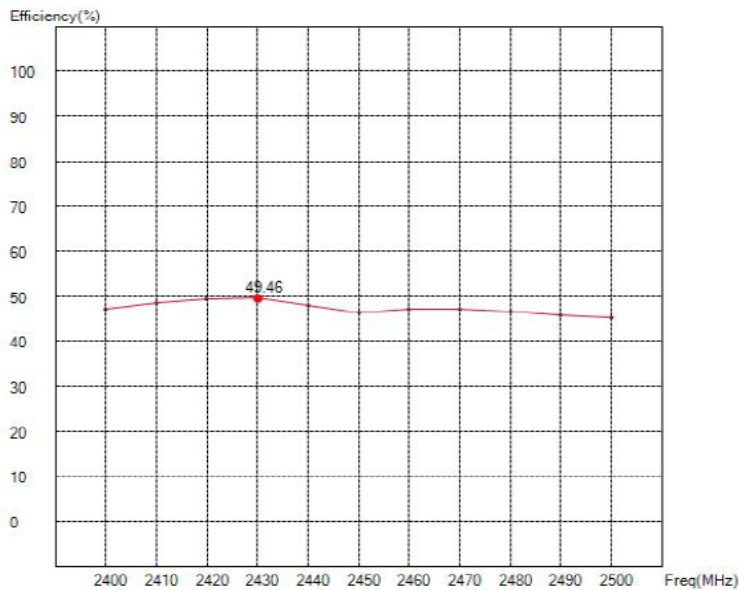
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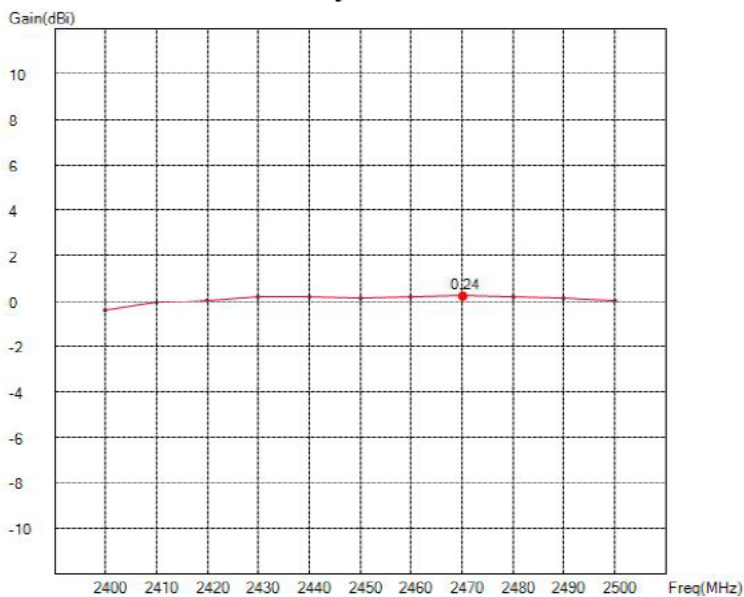
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■ Antenna Efficiency & Peak Gain

2400~2500 MHz



Maximum Efficiency at 2430MHz : 49.46%



Maximum Peak Gain at 2470MHz : 0.24dBi

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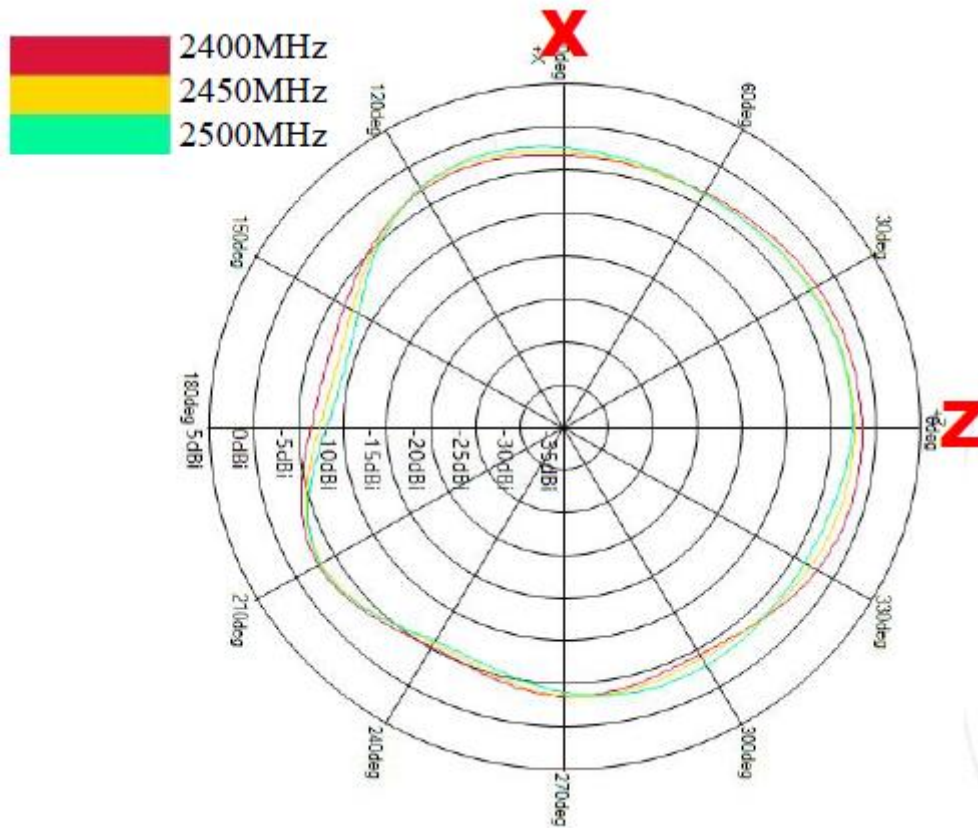
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RADIATION PATTERN

2400~2500 MHz

Phi=0.00deg

Gain . dBi



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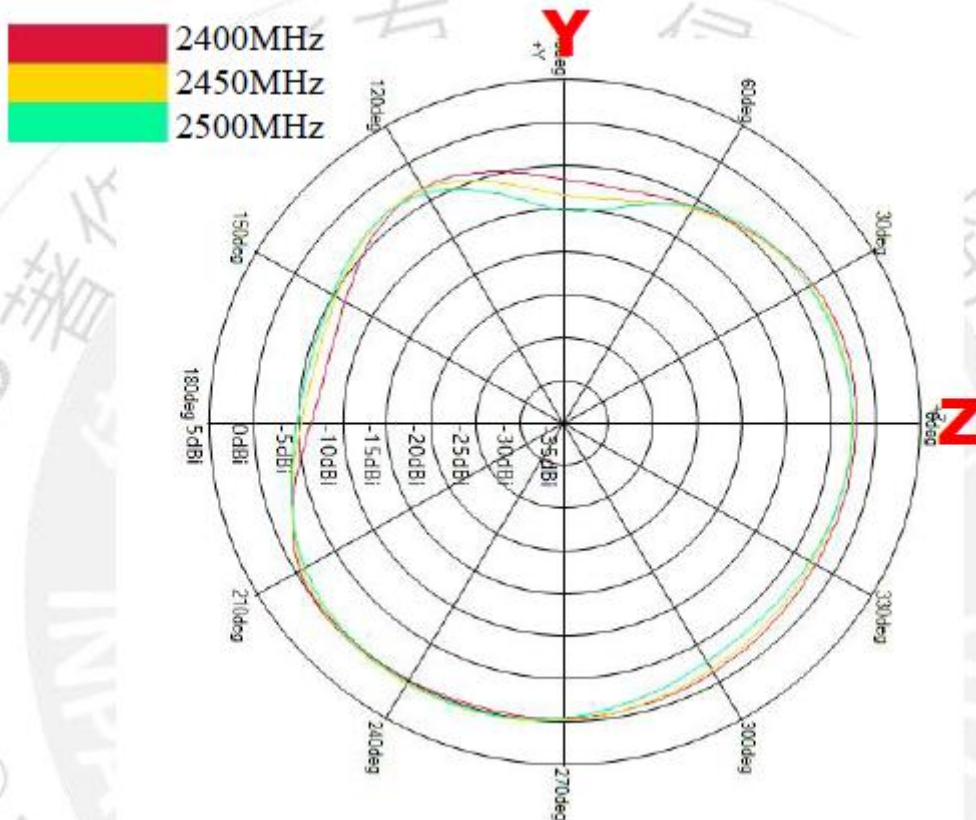
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Phi=90.00deg

Gain . dBi



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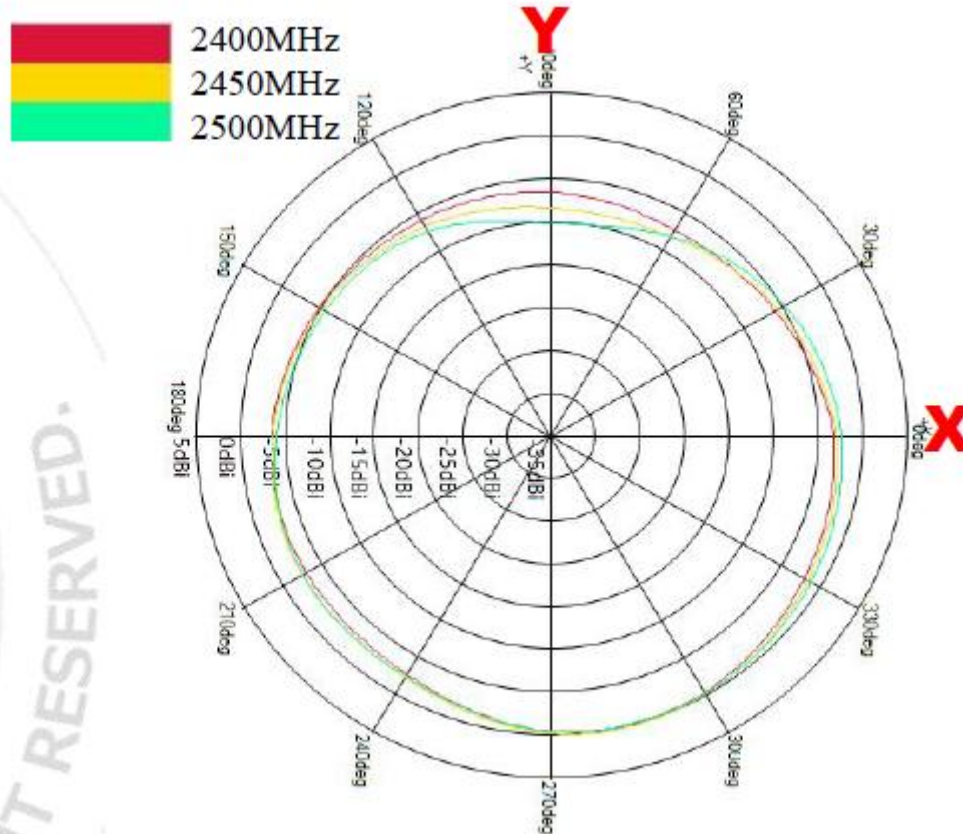
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Theta=90.00deg

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	-1.43	-2.84	-0.39	-2.14	-0.45	-3.32
2450	-2.25	-3.20	0.15	-2.34	-0.21	-3.21
2500	-2.27	-3.21	-0.02	-2.61	-0.28	-3.24

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