

品名：RFFPA381204NNAB101

History List

[illegible]

品名：RFFPA381204NNAB101

1. Explanation of part number：

RF	FPA	3812	04	N	N	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.: 2924 Length 29.6mm, Width 24.7mm	2 digits for cable length e.g.: 33 Length 33.5cm	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: $\varnothing$ 0.81 2: $\varnothing$ 1.32 3: $\varnothing$ 1.13 4: Low Loss $\varnothing$ 1.13 5: $\varnothing$ 0.5 6: RG316 7: $\varnothing$ 1.37 8: RG178 9: Low Loss $\varnothing$ 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)	-0.41 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



INPAQ TECHNOLOGY CO., LTD.

SCALE：N/A

UNIT：mm

DRAWN BY：李欣樺

CHECKED BY：詹惠雯

DESIGNED BY：黃瑞郎

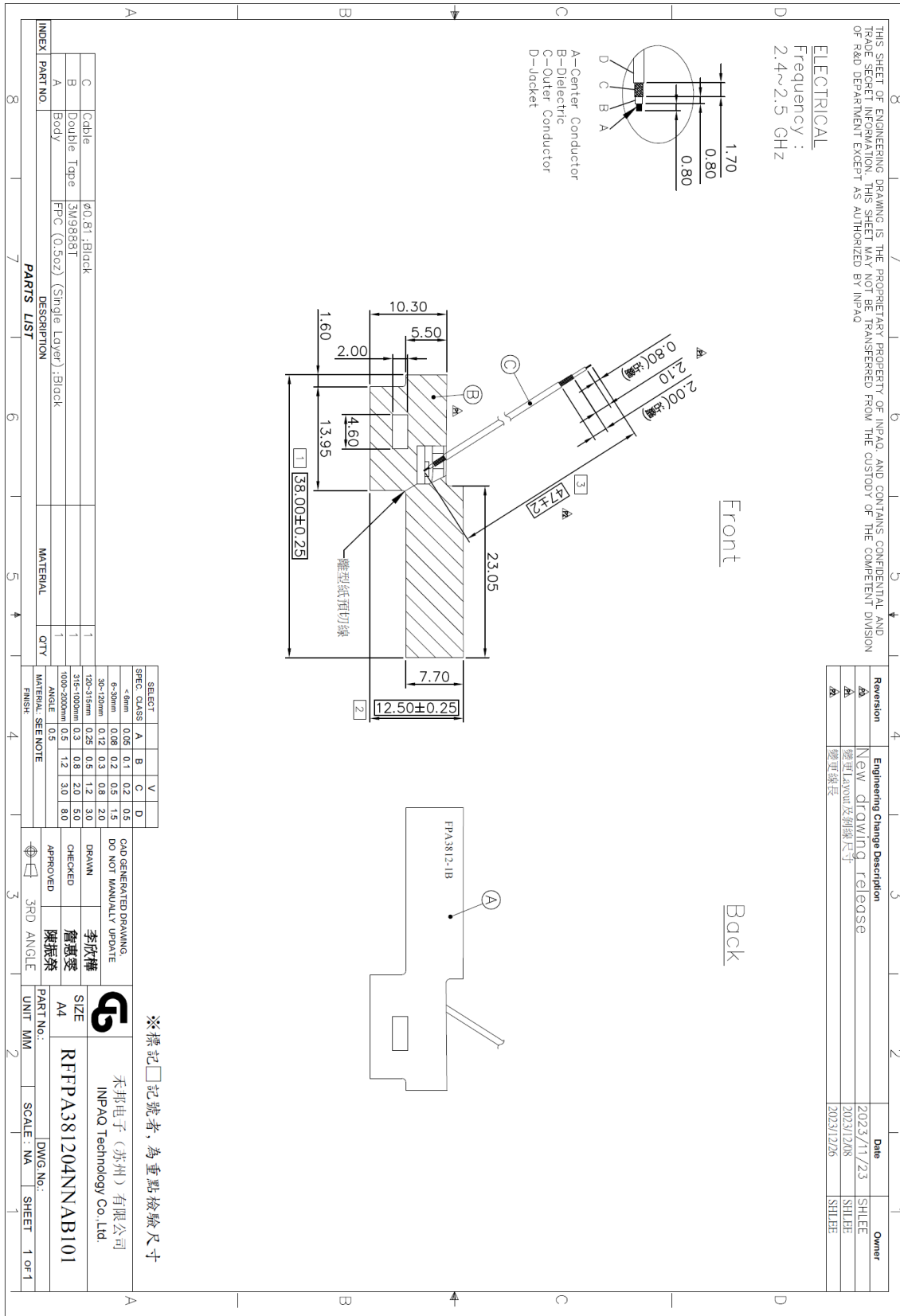
APPROVED BY：陳振榮

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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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SCALE : N/A

UNIT : mm

DRAWN BY : 李欣樺

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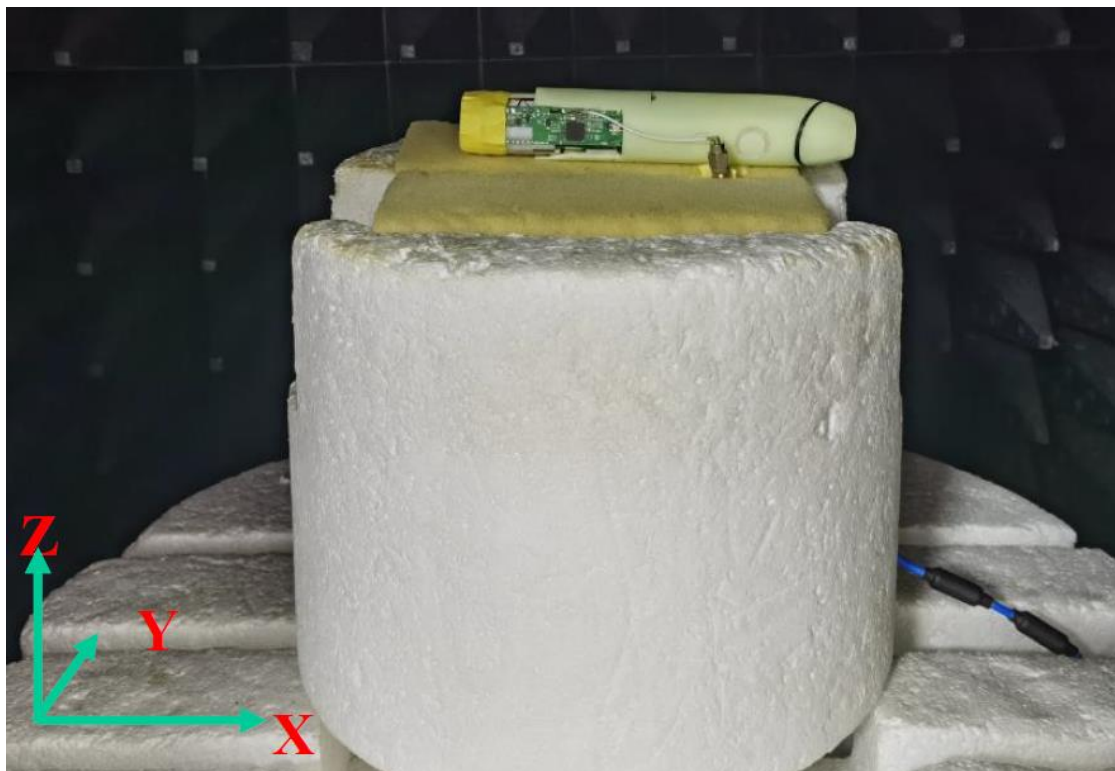
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4. Performance Report :

Test Report

■ Experimental Setup



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 ANGLES = N/A HOLEDIA = N/A



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SCALE : N/A

UNIT : mm

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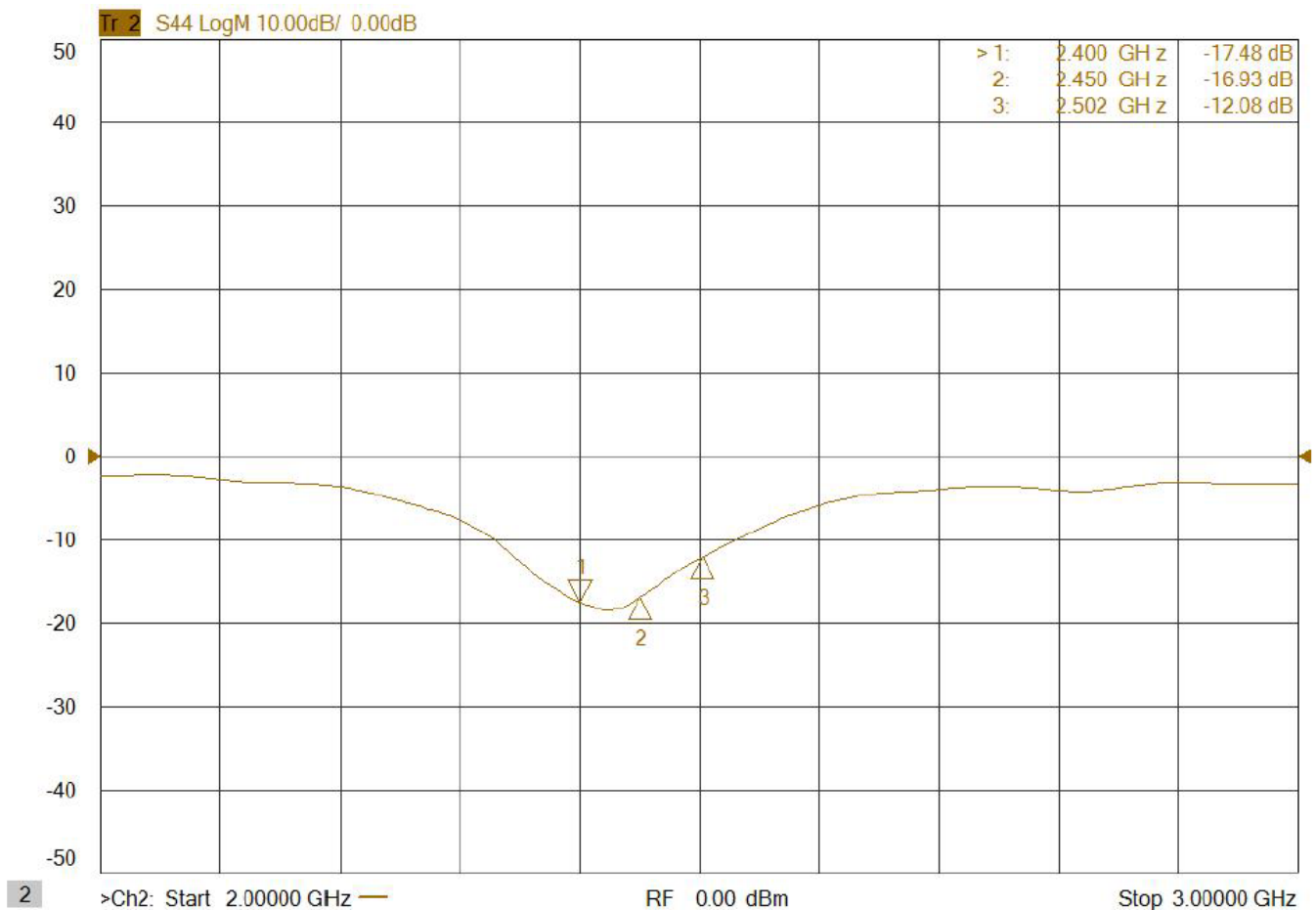
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ELECTRICAL CHARACTERISTICS

S-Parameter



UNLESS OTHER SPECIFIED TOLERANCES ON :
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UNIT : mm

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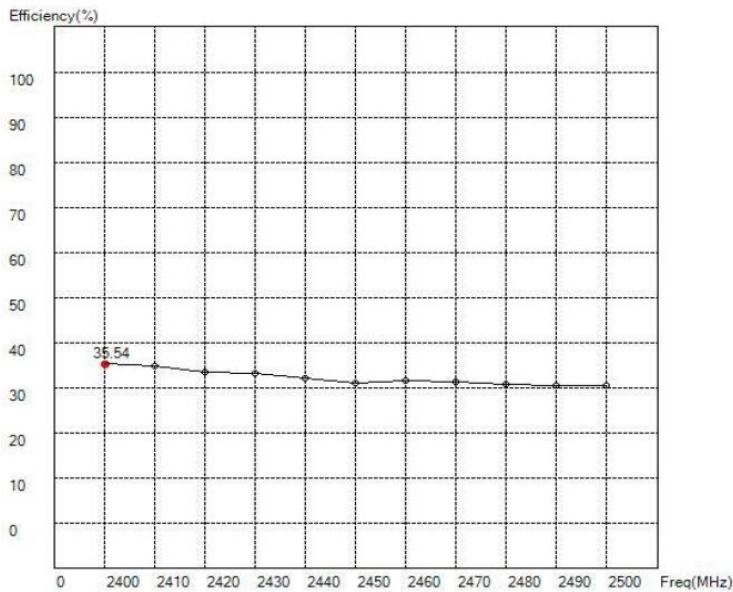
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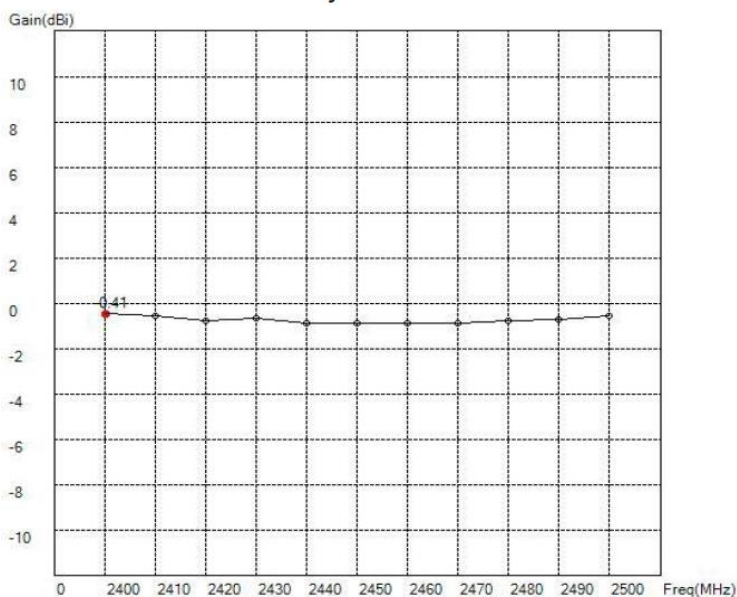
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■ Antenna Efficiency & Peak Gain

2.4~2.5 GHz



Maximum Efficiency at 2400 MHz : 35.54 %



Maximum Peak Gain at 2400MHz : -0.41dBi

UNLESS OTHER SPECIFIED TOLERANCES ON :
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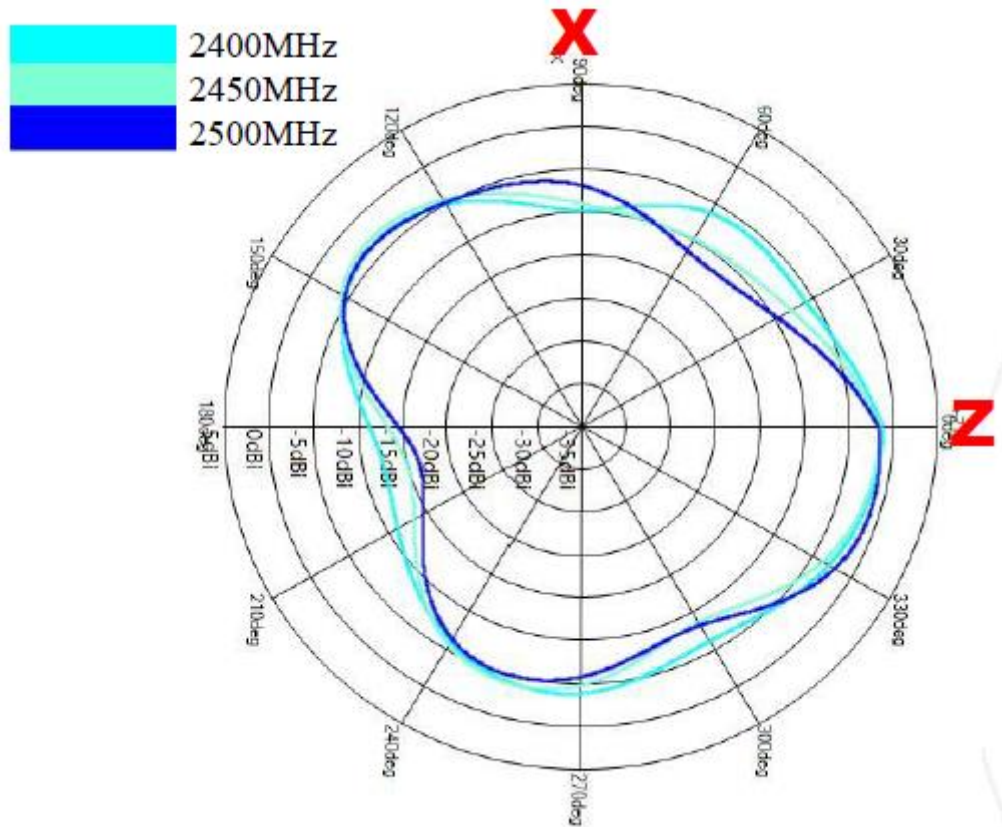
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RADIATION PATTERN

2.4~2.5 GHz**Phi=0.00deg****Gain . dB**

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ANGLES = N/A HOLEDIA = N/A

**INPAQ TECHNOLOGY CO., LTD.**

SCALE : N/A

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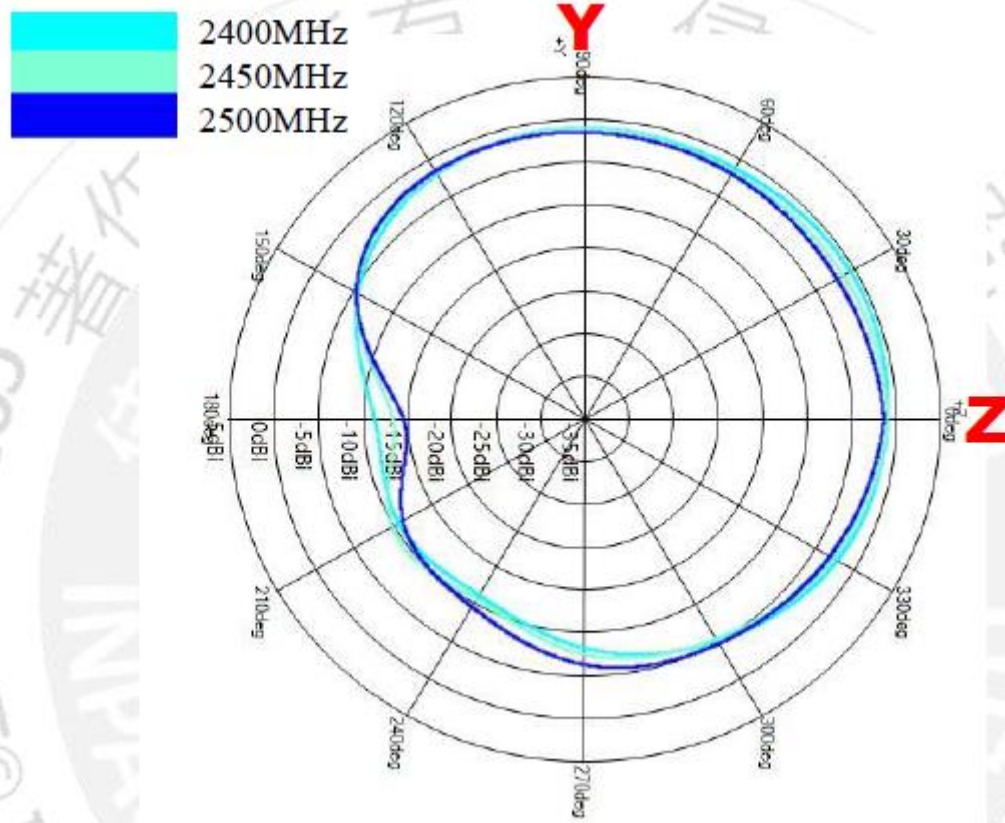
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Phi=90.00deg

Gain . dB



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ANGLES = N/A HOLEDIA = N/A



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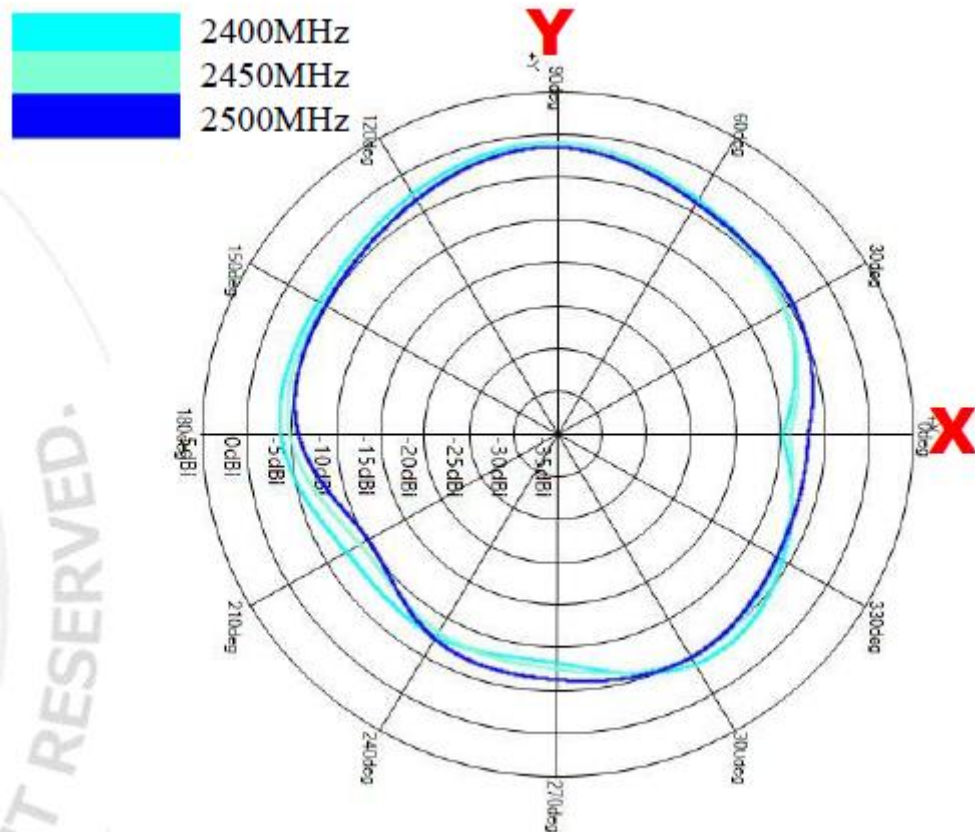
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Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	-1.02	-4.39	-0.41	-2.64	-0.93	-4.58
2450	-1.24	-4.99	-0.89	-2.84	-0.98	-5.03
2500	-1.51	-5.06	-1.30	-3.08	-1.42	-4.98

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