

[illegible]

品名：RFFPA420712IMAB301

1. Explanation of part number：

RF	FPA	4207	12	I	M	A	B	3	01
Type Code	Product Code	Dipole 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.: 4014 Length 40.4mm, Width 14.1mm	2 digits for cable length e.g.: 11 Cable Length:11cm	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: 5 GHz 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:Ø0.81 3:Ø1.13 6:RG316 7:Ø1.37 8:RG178	01~99 series number

2. Electrical Specification：

Item	Specification
Working Frequency Range	2.4 ~ 2.5 GHz
Return Loss	-10dB(Max)
VSWR	2 max.
Peak Gain	1.78 dBi
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω
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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SCALE：N/A

UNIT：mm

DRAWN BY：李欣樺

CHECKED BY：詹惠雯

DESIGNED BY：黃瑞郎

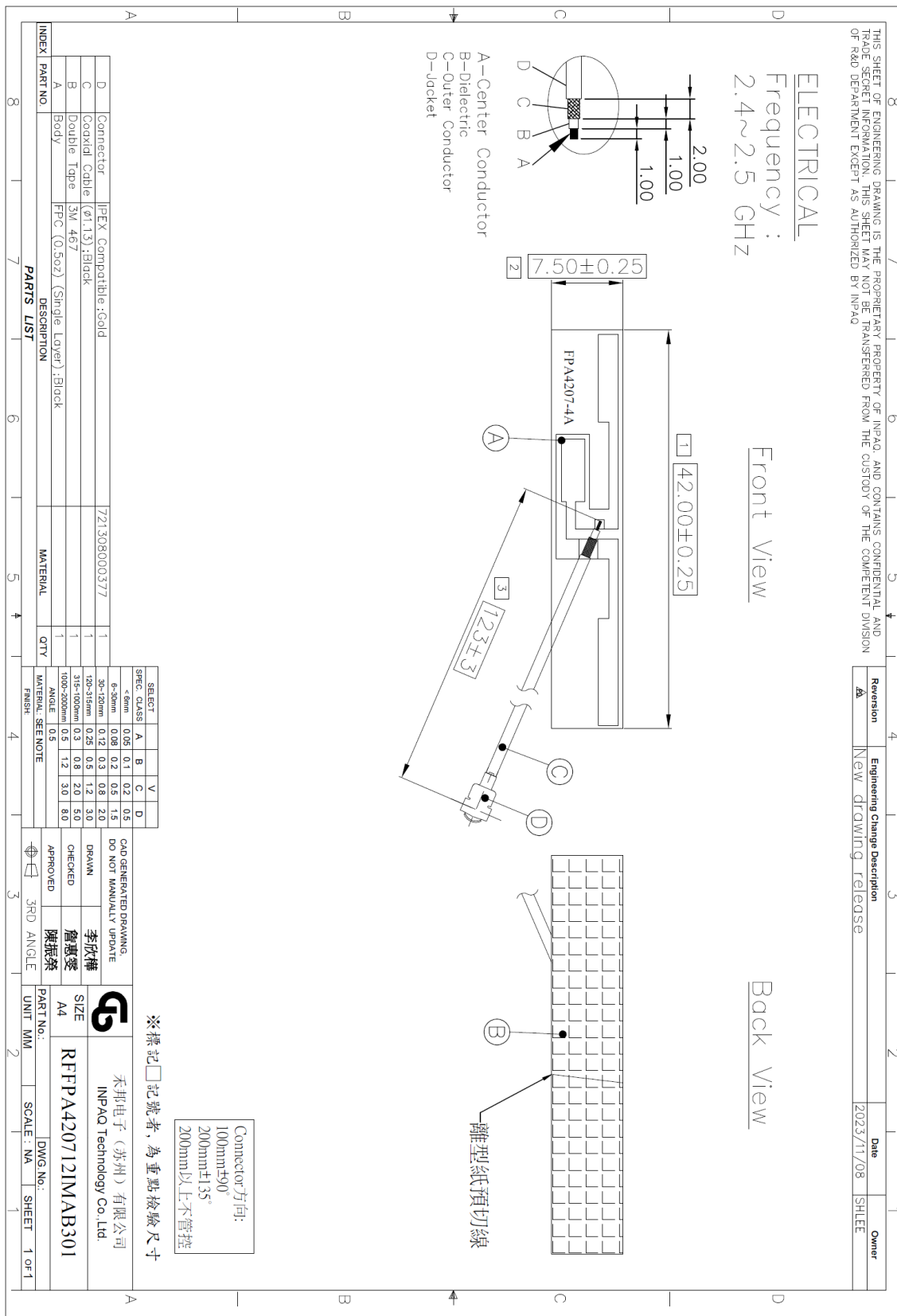
APPROVED BY：陳振榮

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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

DRAWN BY : 李欣樺

CHECKED BY : 詹惠愛

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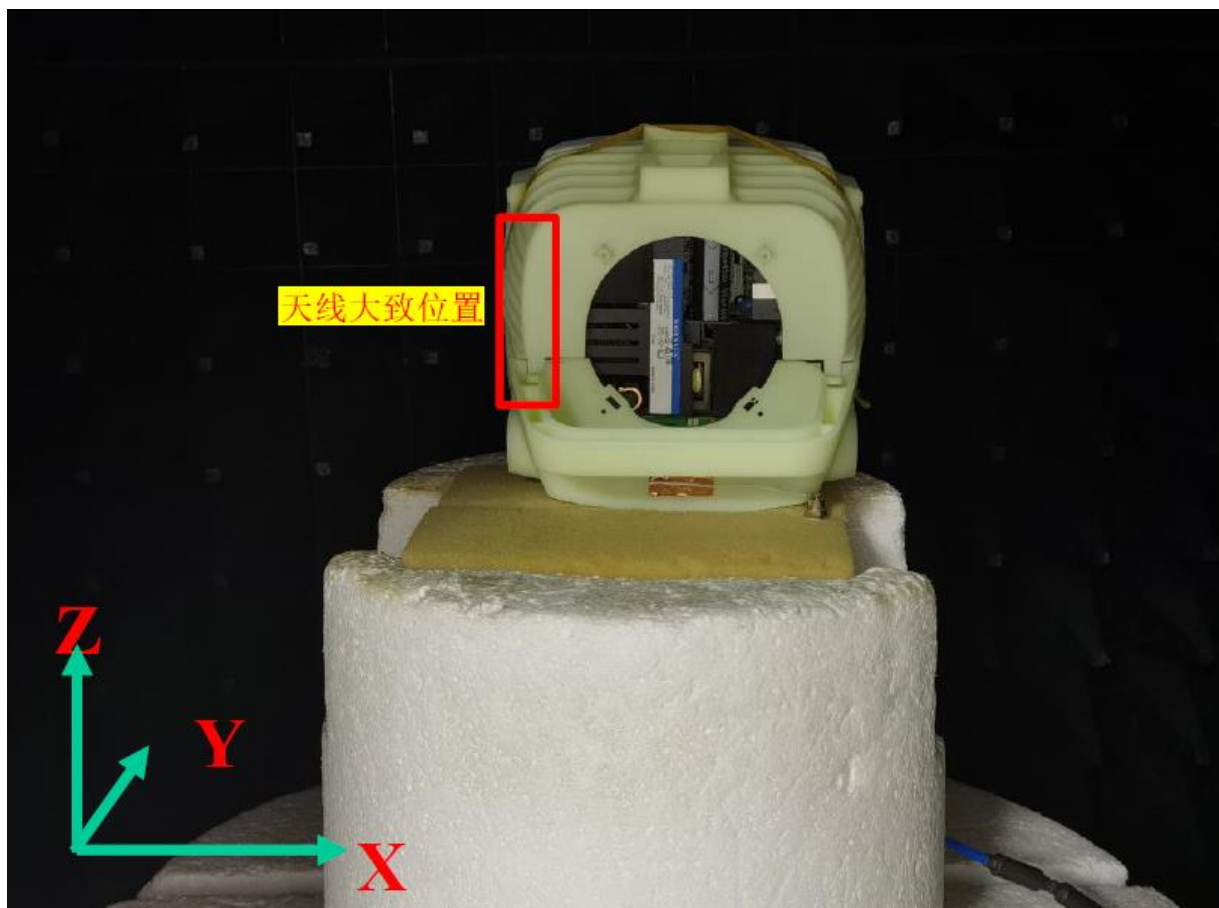
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4. Performance Report :

Test Report**Experimental Setup**

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SCALE : N/A

UNIT : mm

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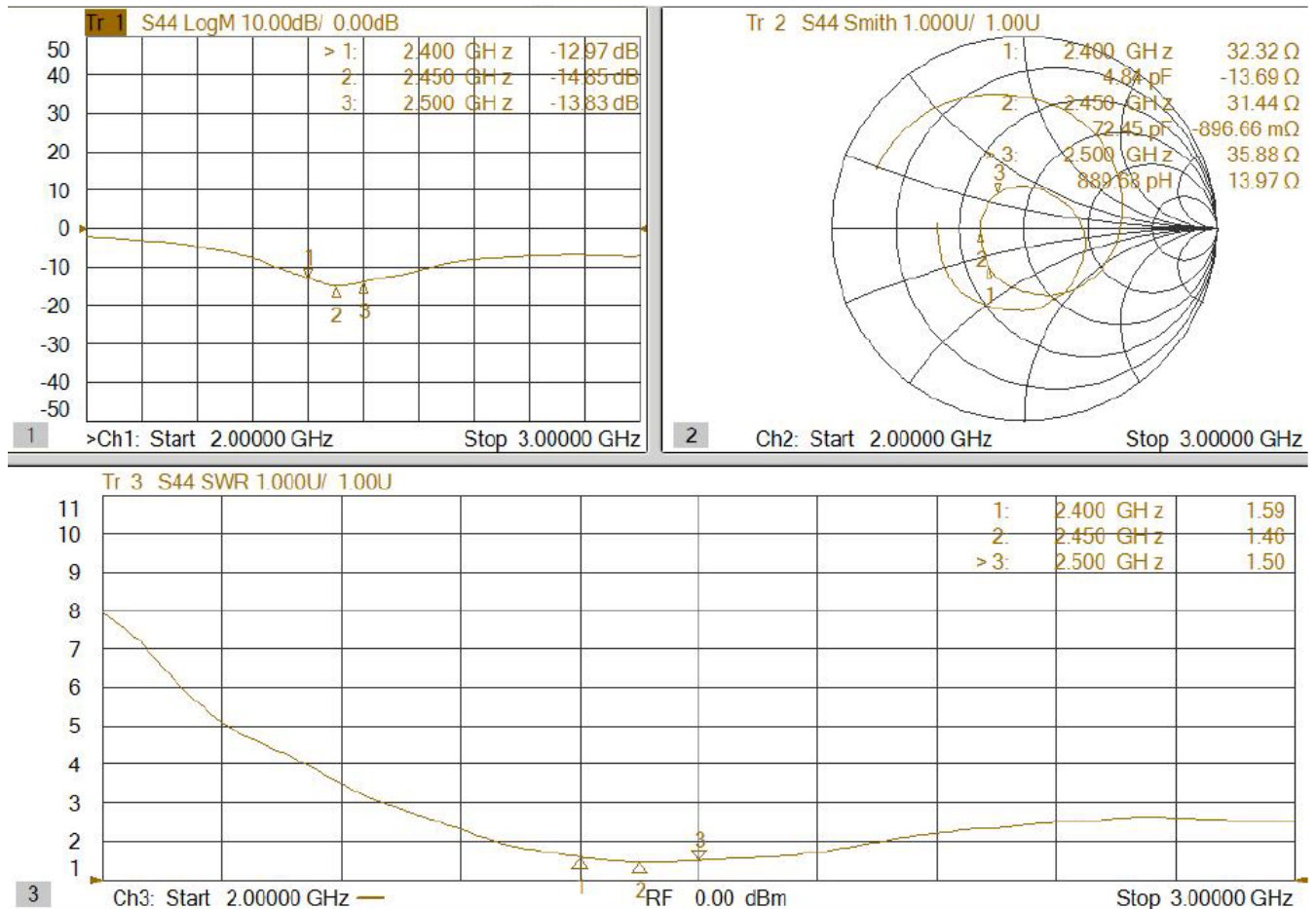
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ELECTRICAL CHARACTERISTICS

S-Parameter



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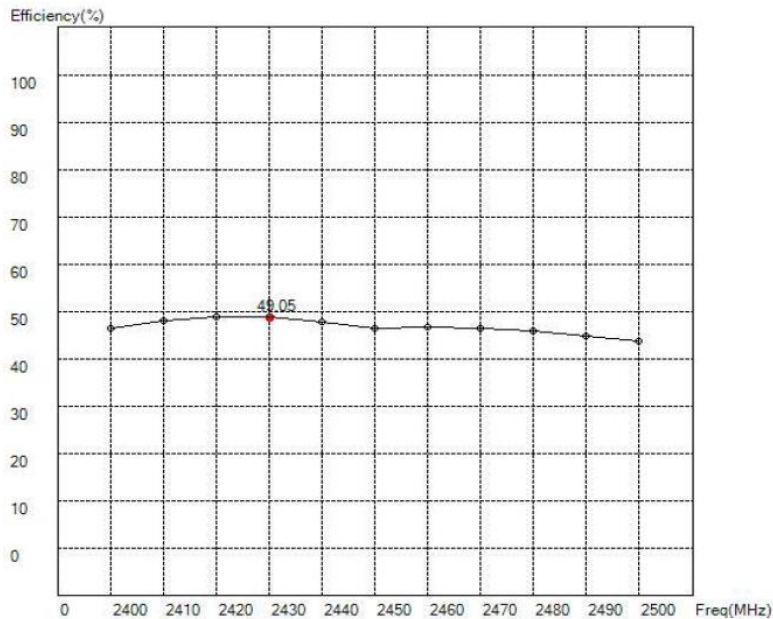
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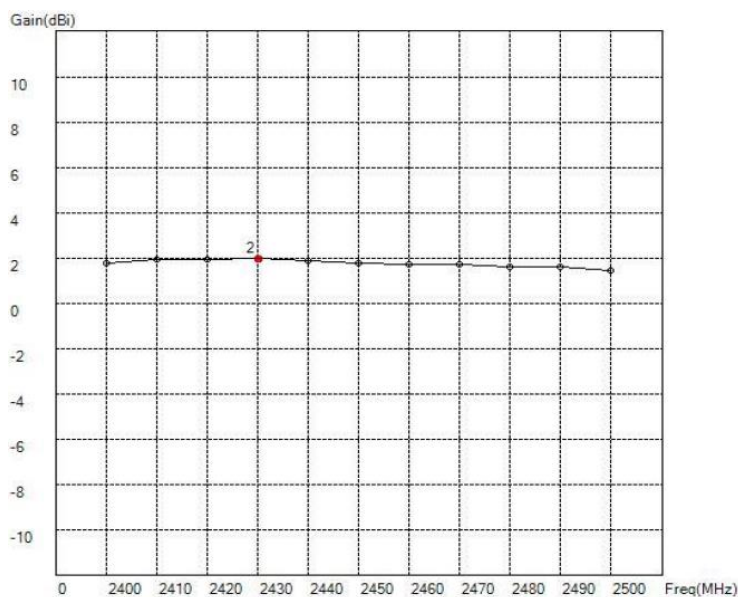
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■ Antenna Efficiency and Peak Gain

2G



Maximum Efficiency at 2430 MHz : 49.05 %



Maximum Peak Gain at 2430MHz : 2.0dBi

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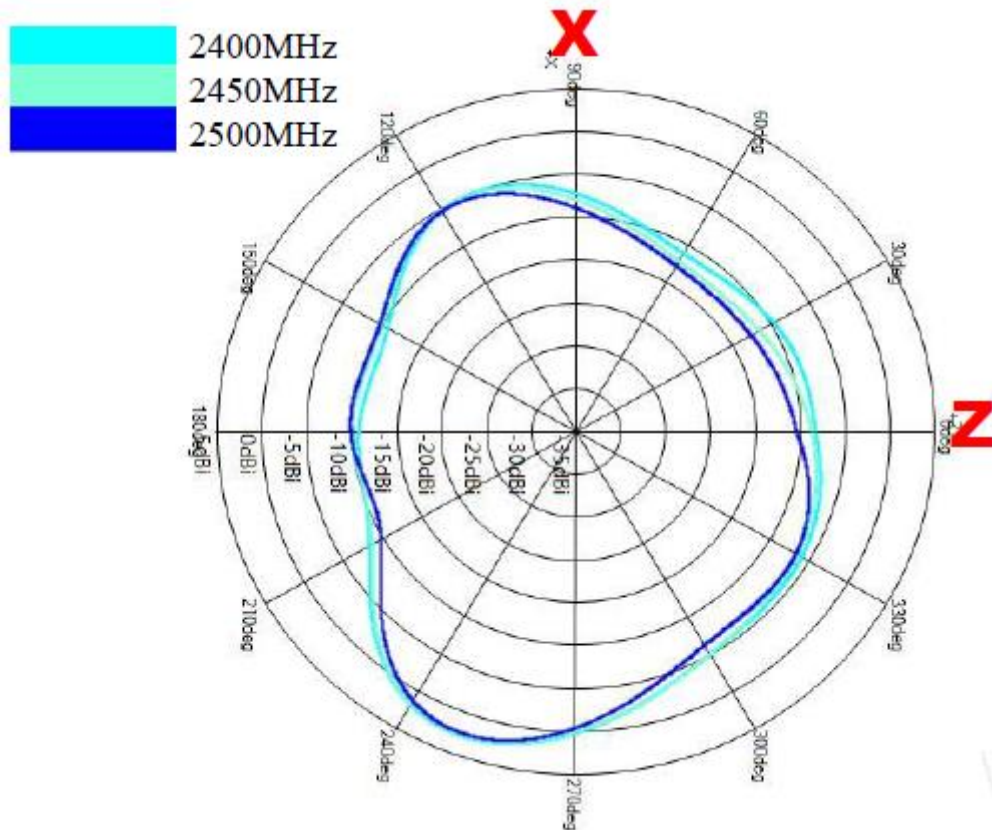
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RADIATION PATTERN

X-Z Plane

Phi=0.00deg

Gain . dB



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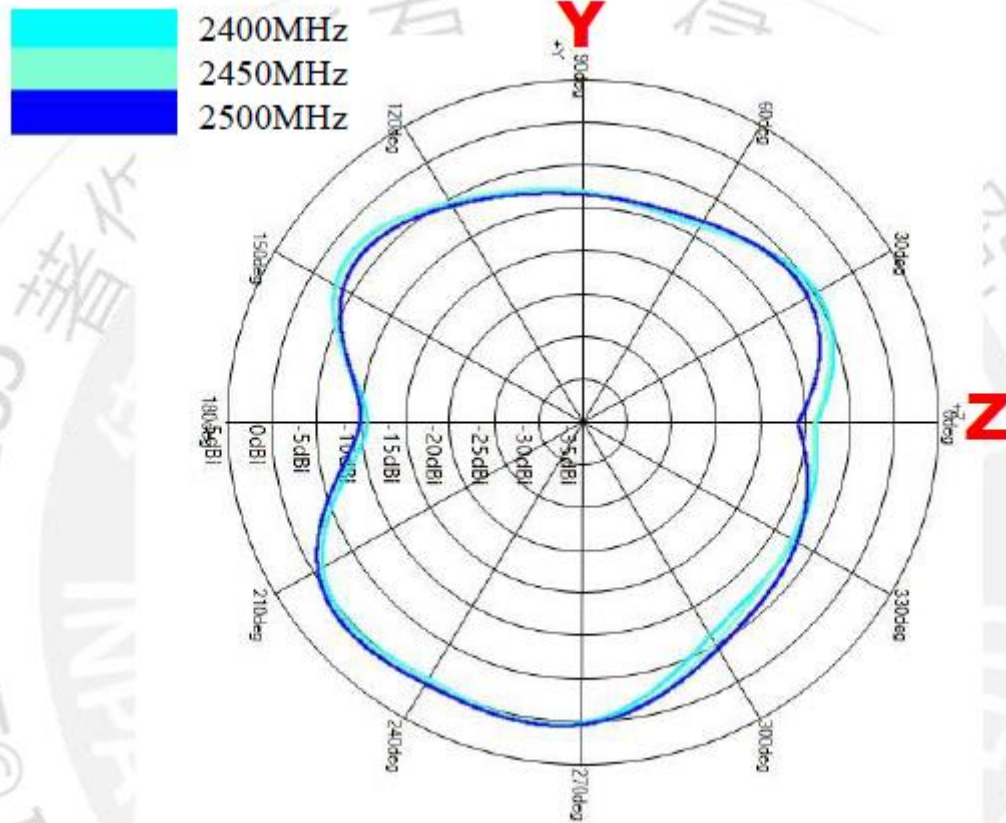
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Y-Z Plane
Phi=90.00deg

Gain . dB



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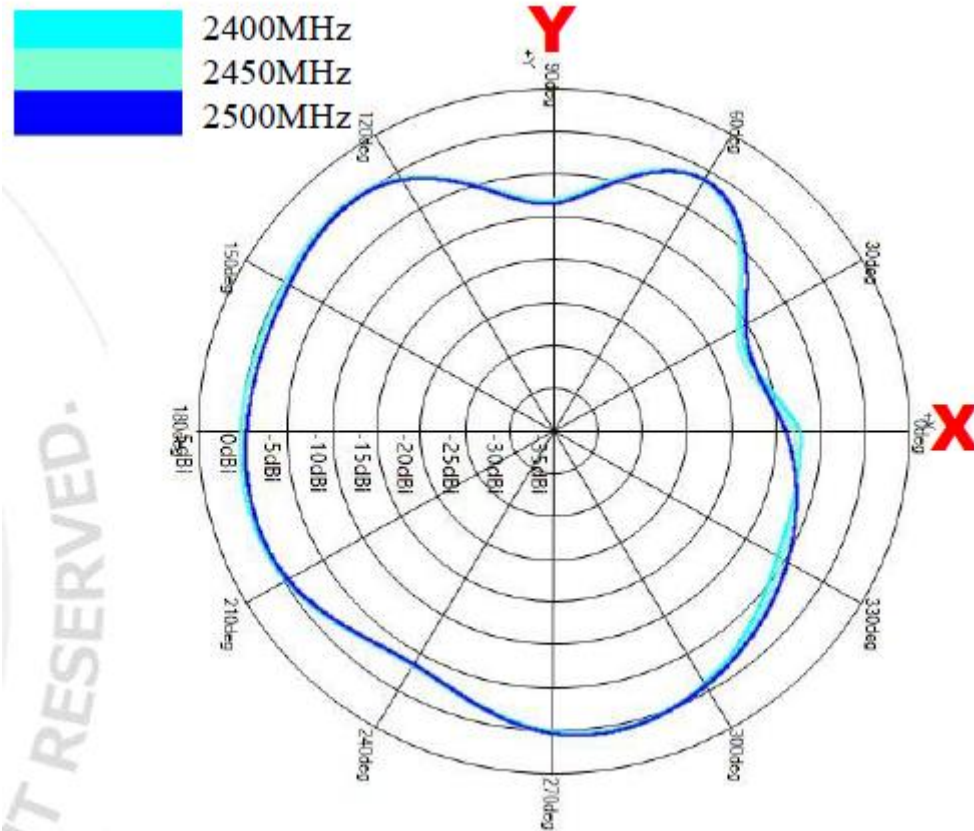
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X-Y Plane

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	1.78	-4.14	0.04	-4.08	0.14	-2.05
2450	1.69	-4.36	0.27	-3.91	0.27	-2.00
2500	1.22	-4.97	0.28	-3.83	0.28	-2.16

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