

品名：RFFPA312207IMLB301

History List

[illegible]

品名：RFFPA312207IMLB301

1. Explanation of part number：

RF	FPA	3122	07	I	M	L	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 / 5.15 ~ 5.85 GHz
Return Loss	-10dB(Max)
VSWR	2 max.
Peak Gain	2.21 dBi@2.4~2.5 GHz 3.44 dBi@5.15~5.85 GHz
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

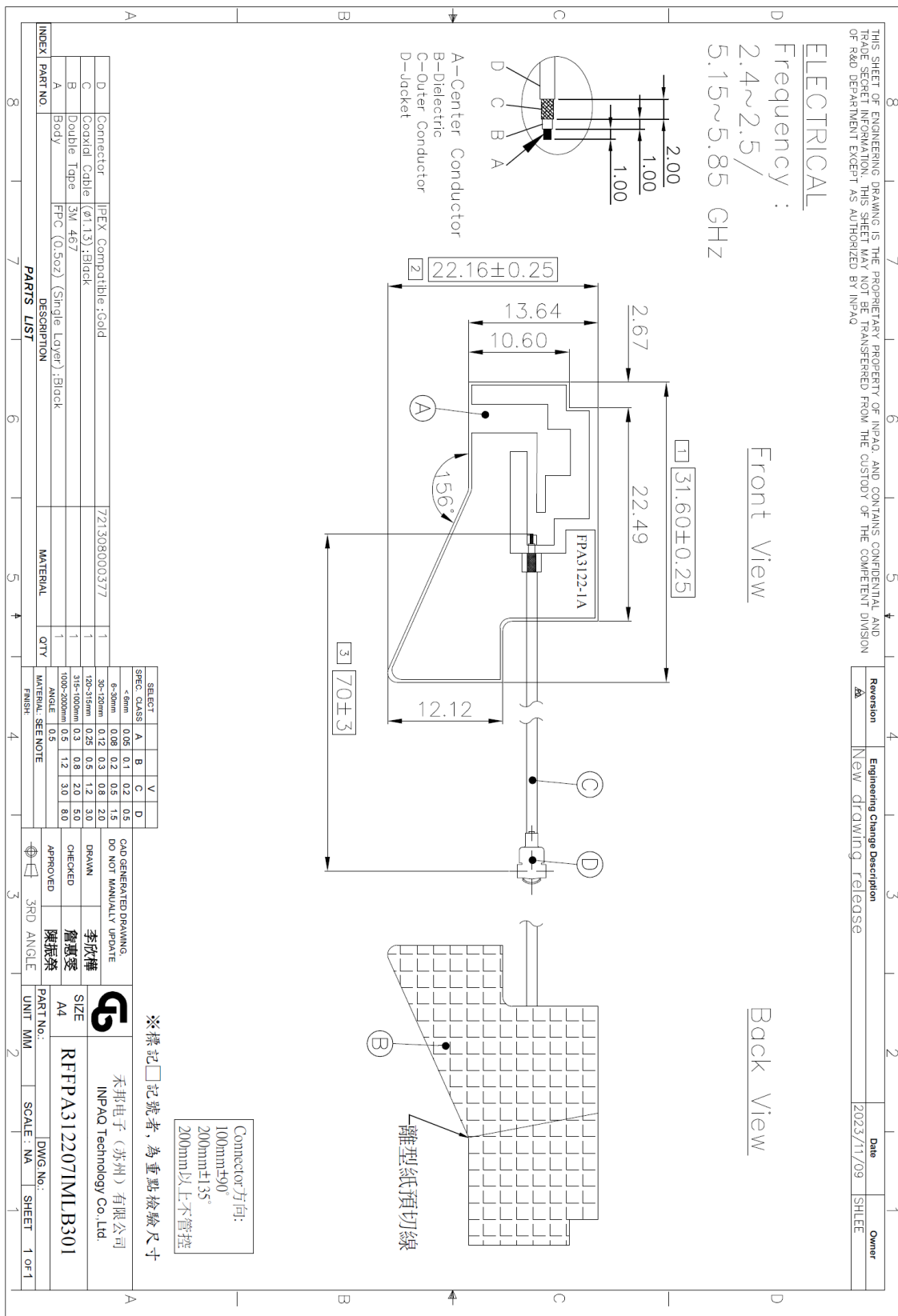
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3. Antenna Drawing :



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

DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

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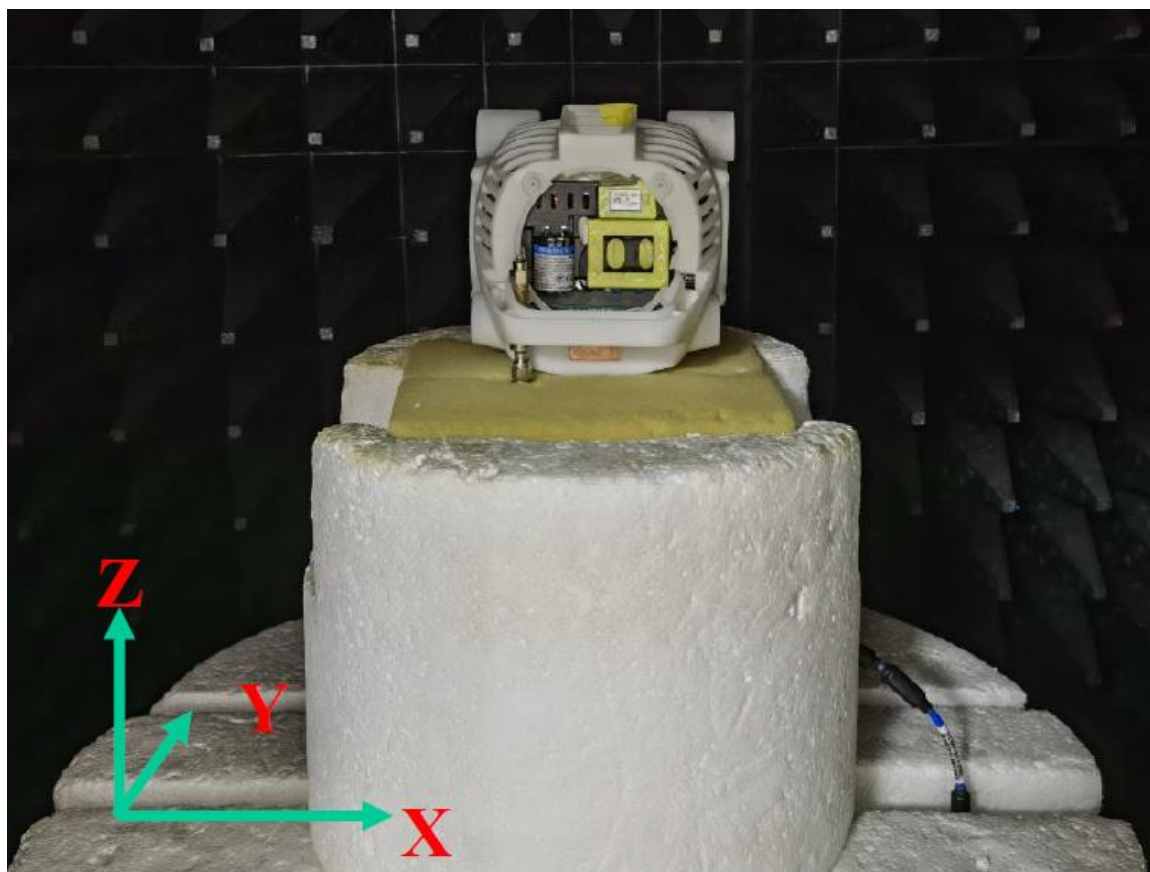
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4. Performance Report :

Test Report

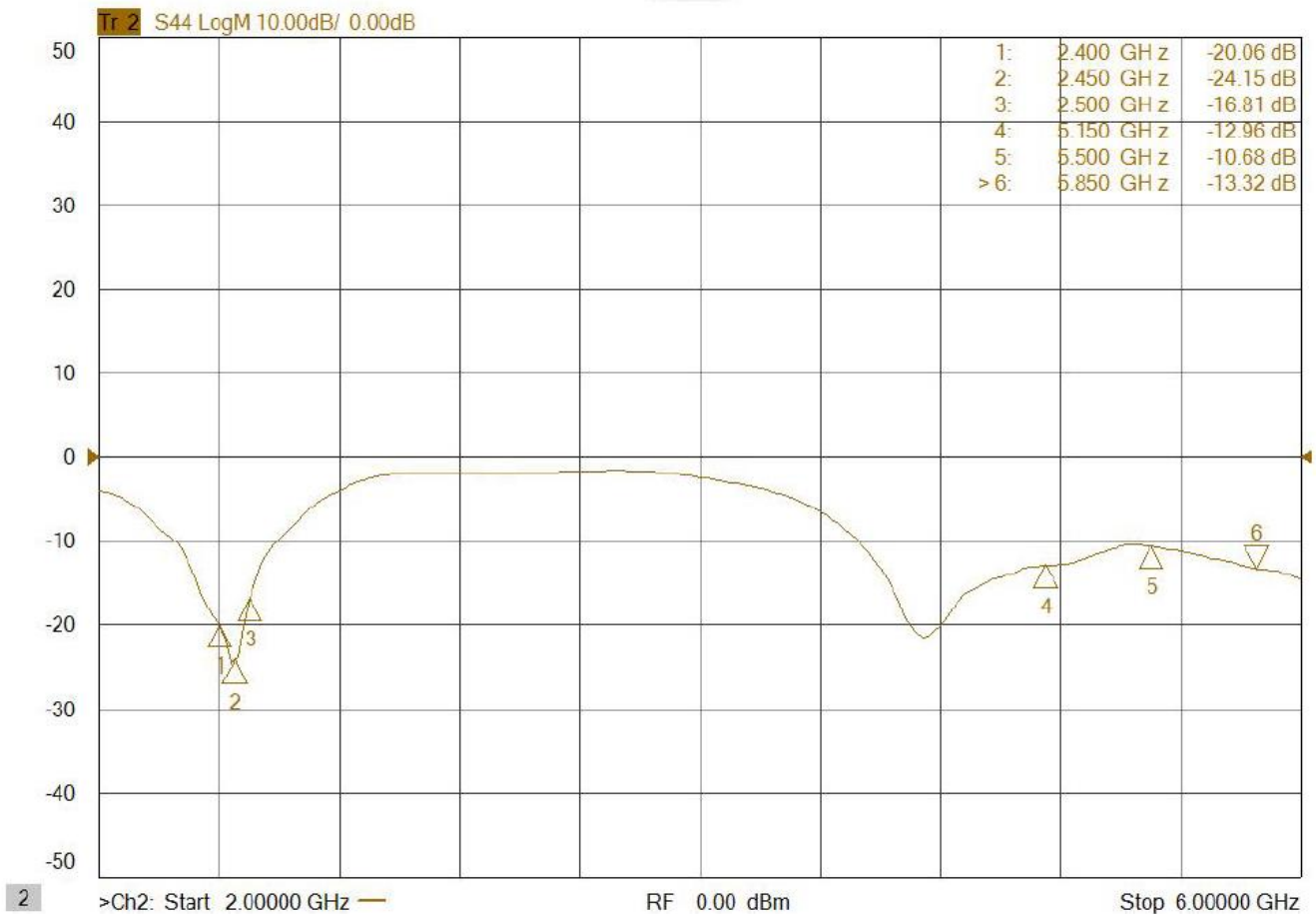
Experimental Setup



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.	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION
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DRAWN BY : 李欣樺	CHECKED BY : 詹惠雯		
DESIGNED BY : 黃瑞郎	APPROVED BY : 陳振榮		
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ELECTRICAL CHARACTERISTICS

S-Parameter



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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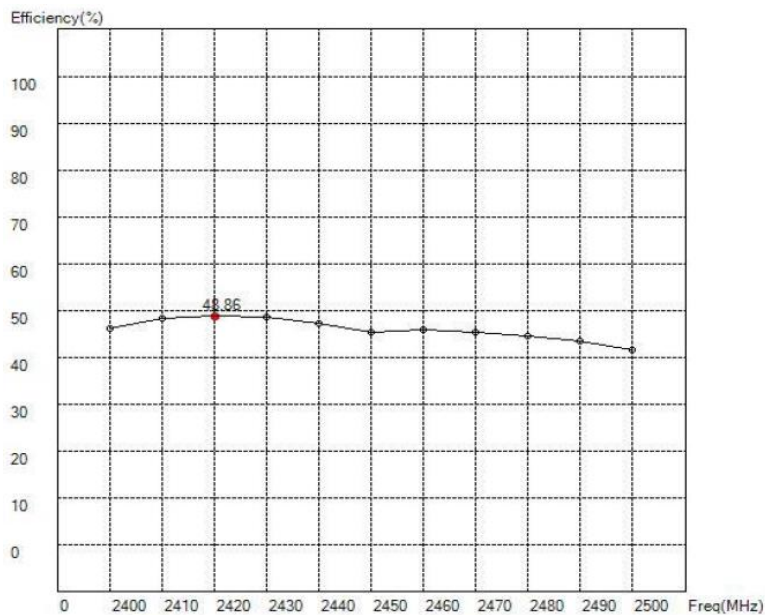
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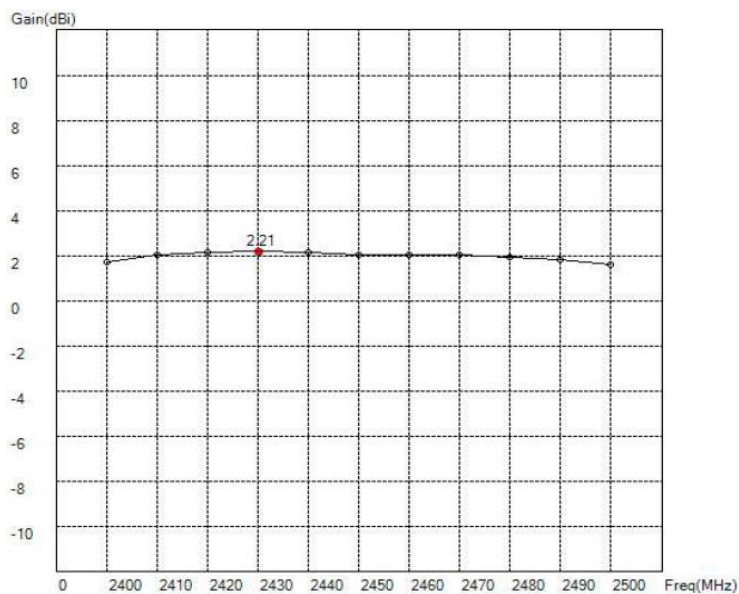
SPEC REV.
P0

Antenna Efficiency and Peak Gain

2G



Maximum Efficiency at 2420 MHz : 48.86 %



Maximum Peak Gain at 2430MHz : 2.21dBi

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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UNIT : mm

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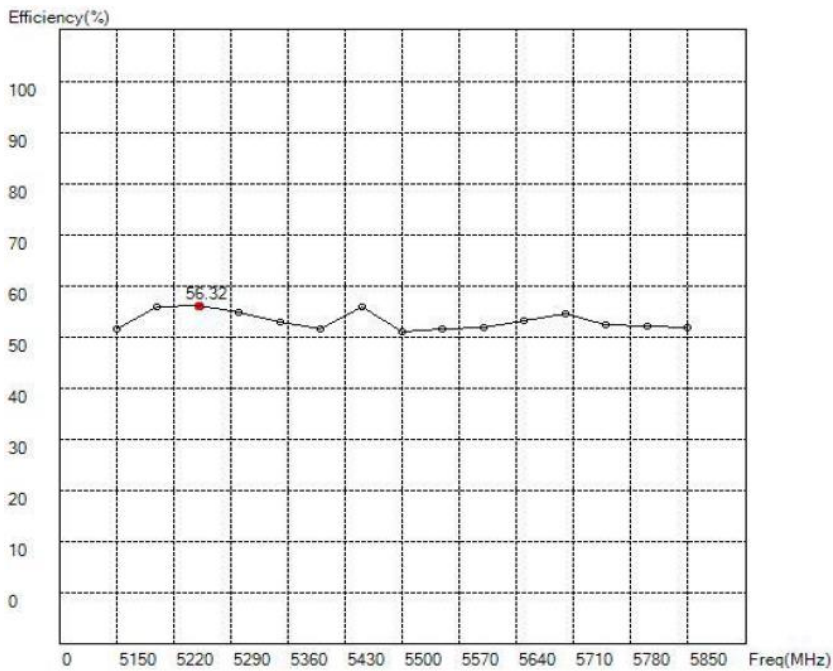
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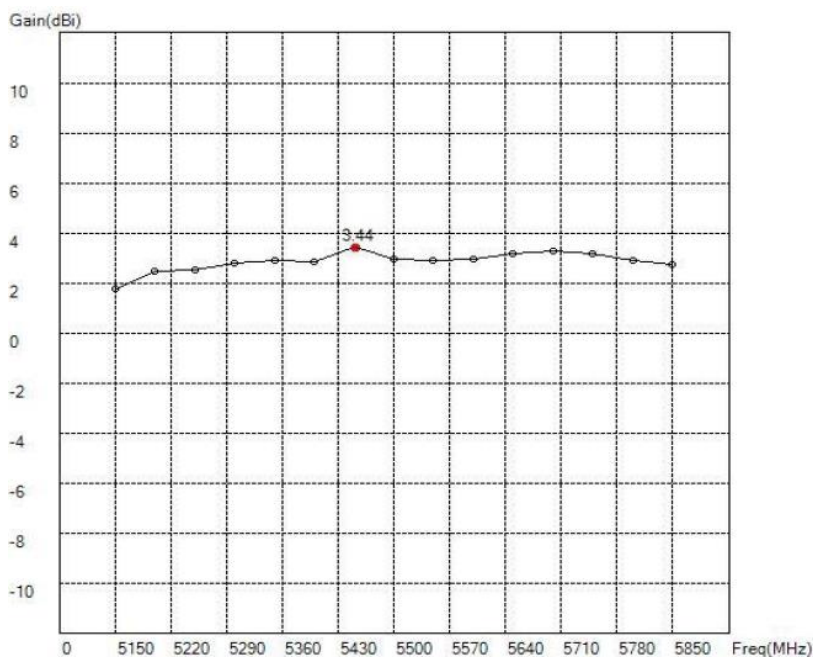
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5G

Maximum Efficiency at 5250 MHz : 56.32 %



Maximum Peak Gain at 5450MHz : 3.44dBi

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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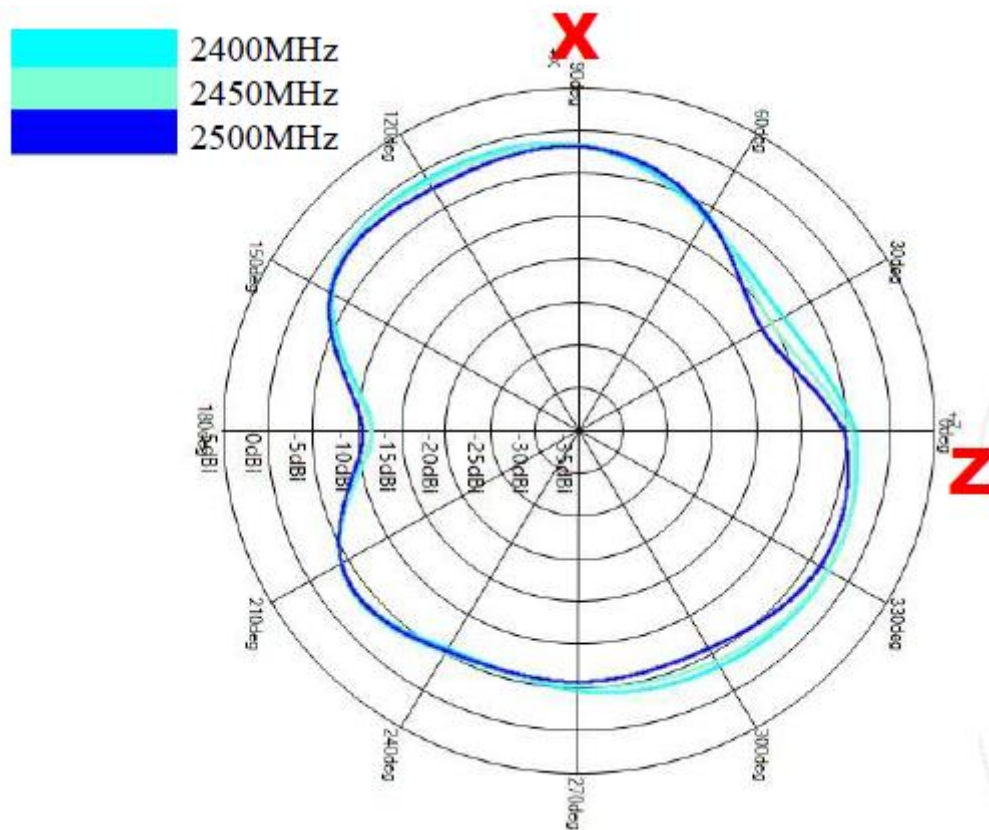
RADIATION PATTERN

2G

X-Z Plane

Phi=0.00deg

Gain . dB



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



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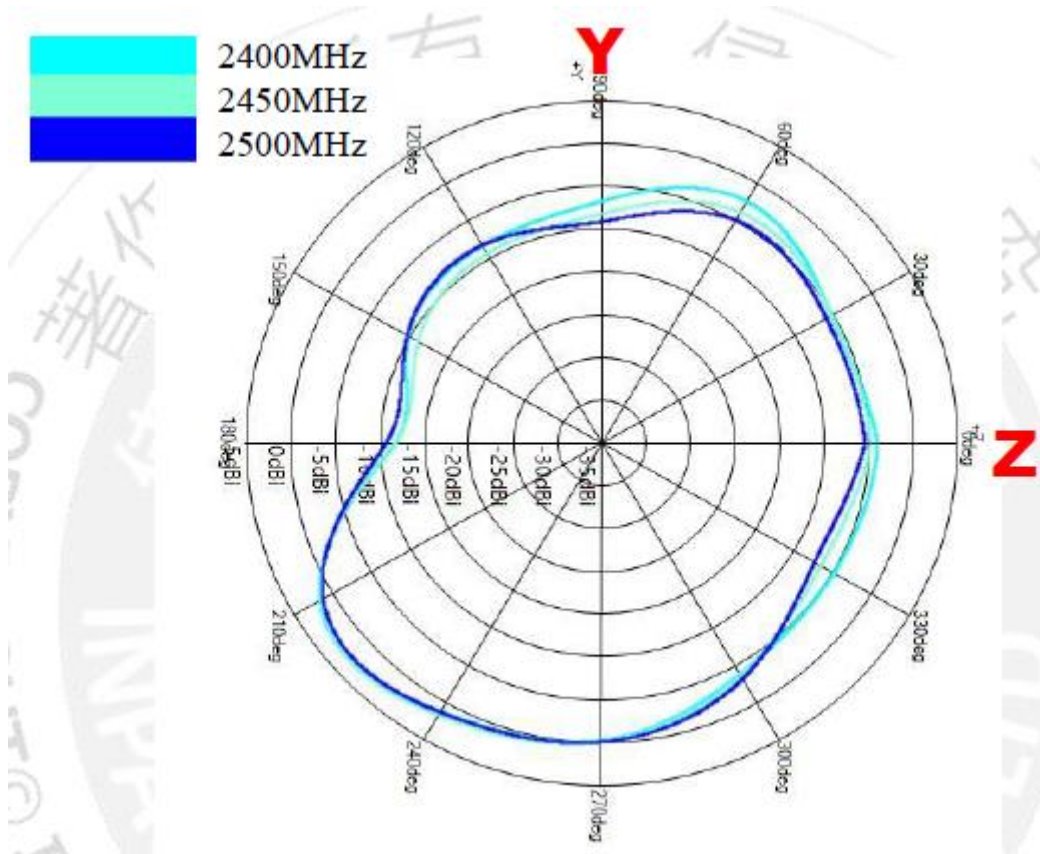
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DOCUMENT
NO.

SPEC REV.
P0

Y-Z Plane
Phi=90.00deg

Gain . dB



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ANGLES = N/A HOLEDIA = N/A



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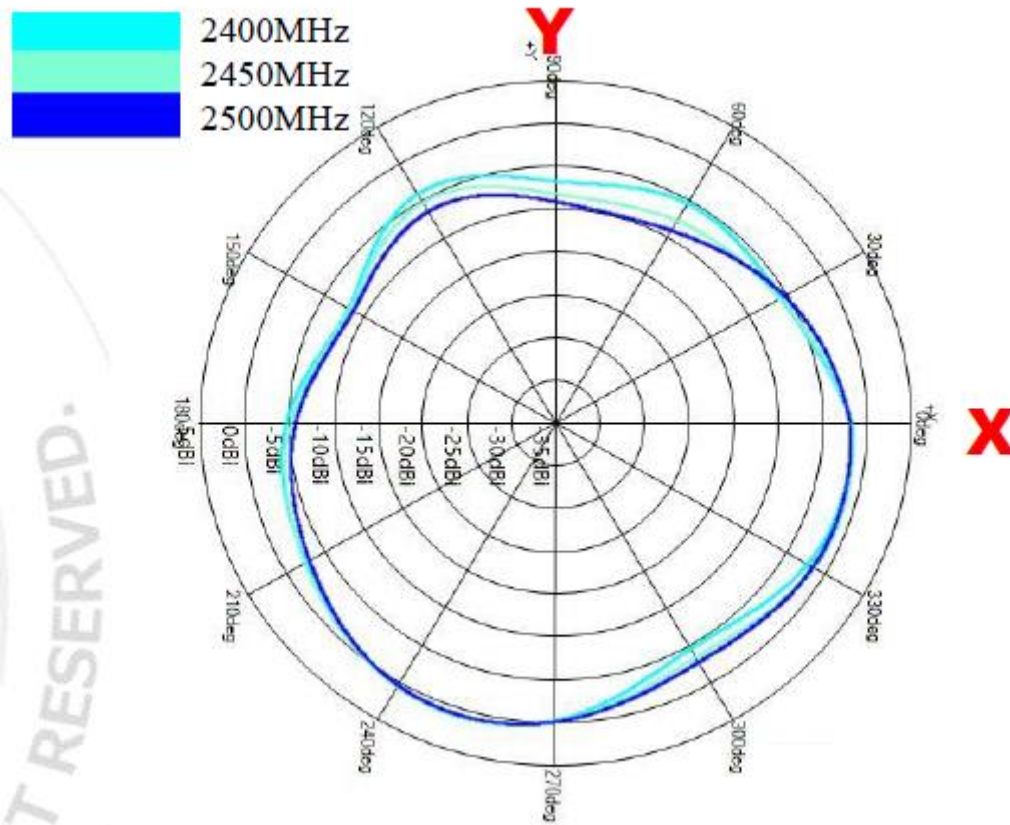
DOCUMENT
NO.

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P0

X-Y Plane

Theta=90.00deg

Gain . dB



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	-1.02	-3.69	1.52	-2.30	0.36	-3.11
2450	-1.49	-3.93	1.61	-2.56	0.43	-3.12
2500	-1.78	-4.57	2.21	-2.86	0.31	-3.30

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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UNIT : mm

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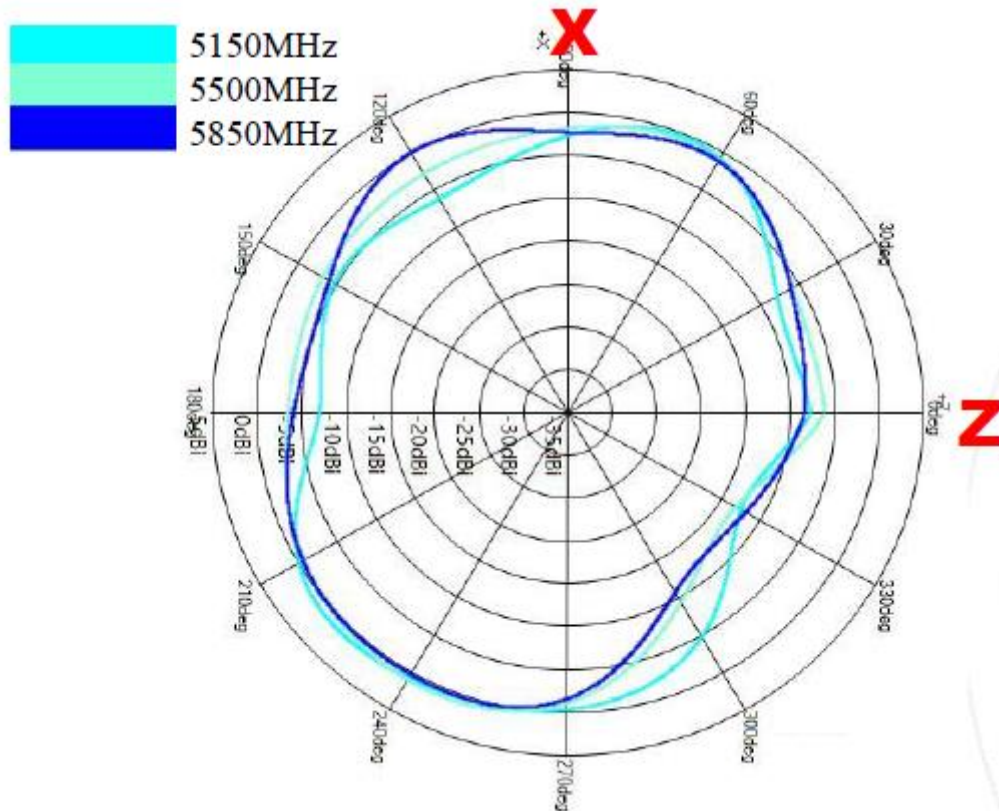
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5G**X-Z Plane****Phi=0.00deg****Gain . dB**

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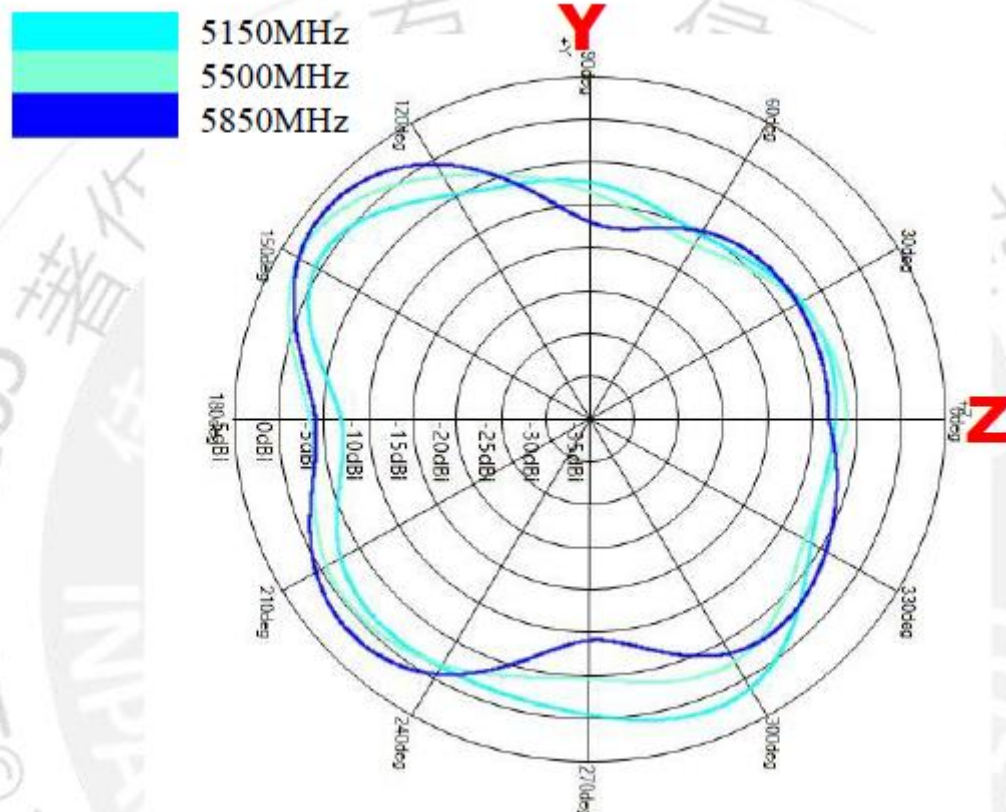
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Y-Z Plane
Phi=90.00deg

Gain . dB



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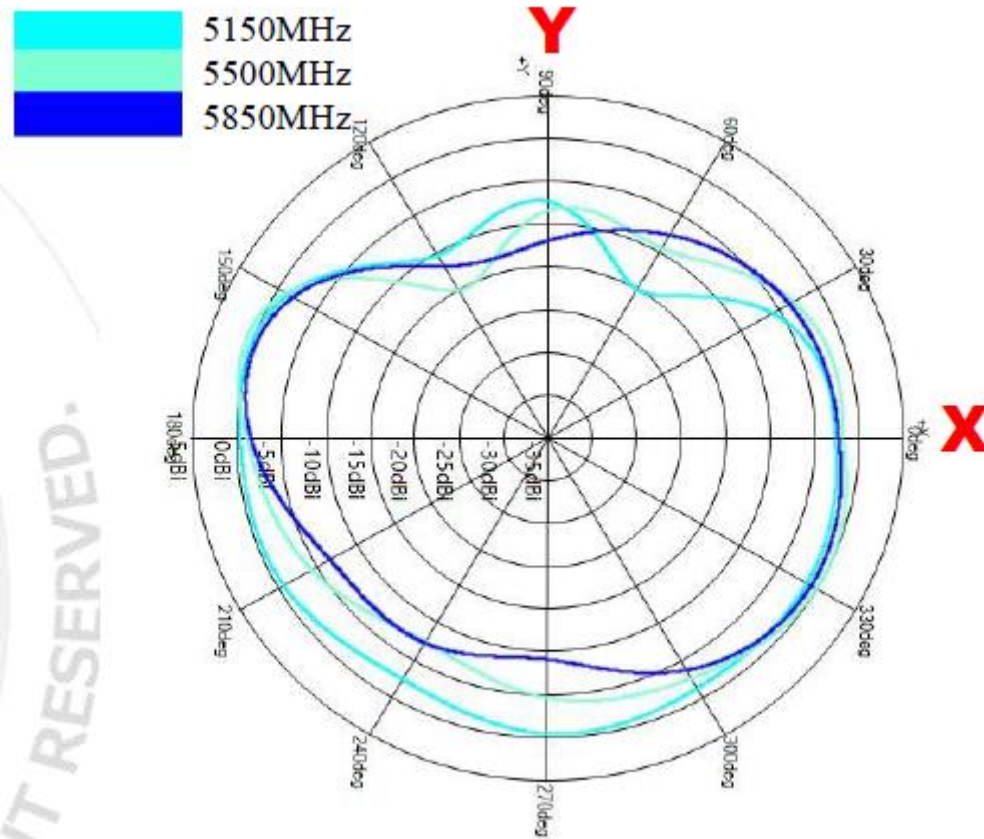
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P0

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]
5150	0.68	-2.93	1.21	-3.55	-0.42	-2.63
5500	0.92	-2.81	2.78	-4.30	-0.01	-3.44
5850	0.20	-2.85	2.76	-3.92	-0.73	-4.31

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ANGLES = N/A HOLEDIA = N/A



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SCALE : N/A

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