

品名：RFFPA481202IMUB101

History List

[illegible]

品名：RFFPA481202IMUB101

1. Explanation of part number：

RF	FPA	4812	02	I	M	U	B	1	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	900~930 MHz
Return Loss	-6.021 dB(Max)
VSWR	3 max.
Peak Gain	-0.52 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



INPAQ TECHNOLOGY CO., LTD.

SCALE：N/A

UNIT：mm

DRAWN BY：李欣樺

CHECKED BY：詹惠雯

DESIGNED BY：黄瑞郎

APPROVED BY：陳振榮

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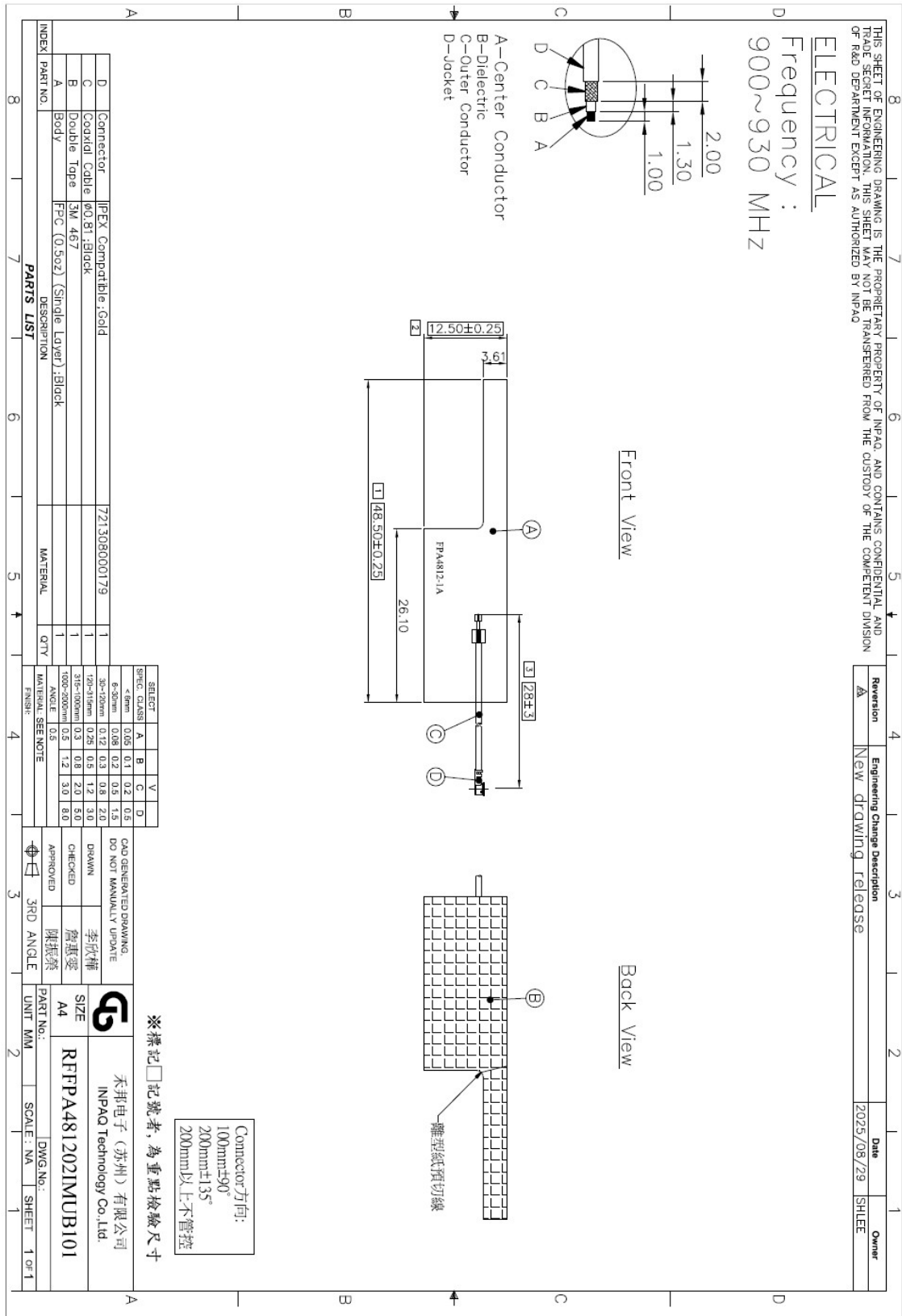
TITLE：RFFPA481202IMUB101

DOCUMENT
NO.

ENS070039840-000803728893

SPEC REV.
A0

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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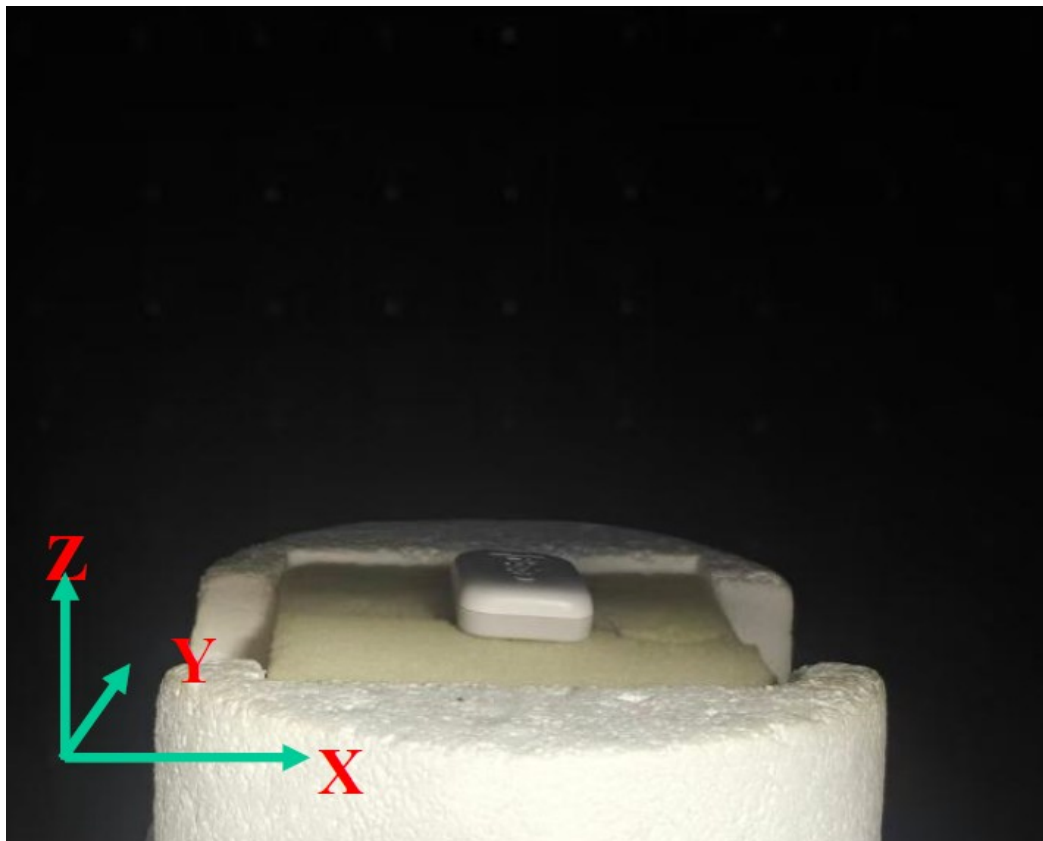
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4. Performance Report :

Test Report

■ Experimental Setup



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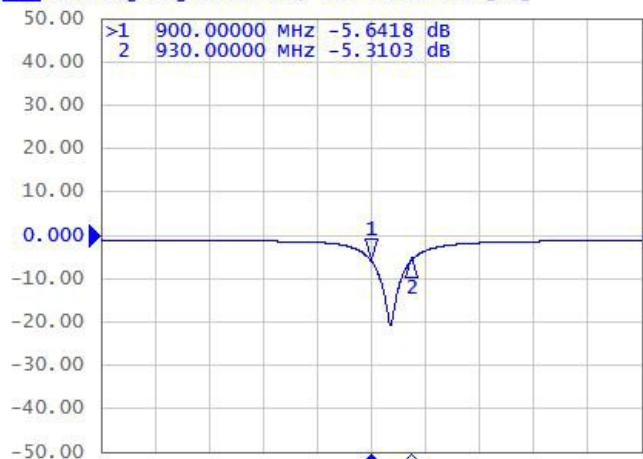
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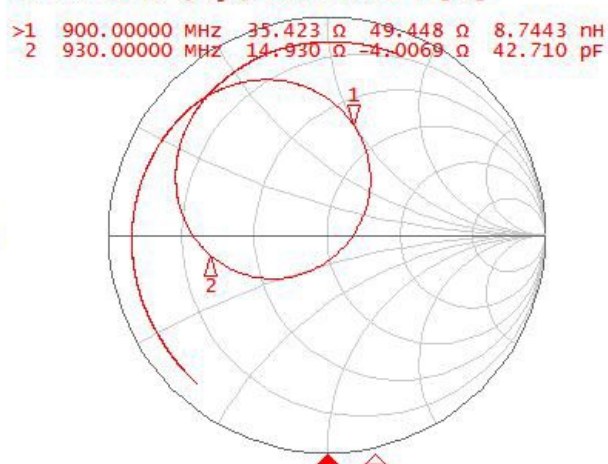
ELECTRICAL CHARACTERISTICS

S-Parameter

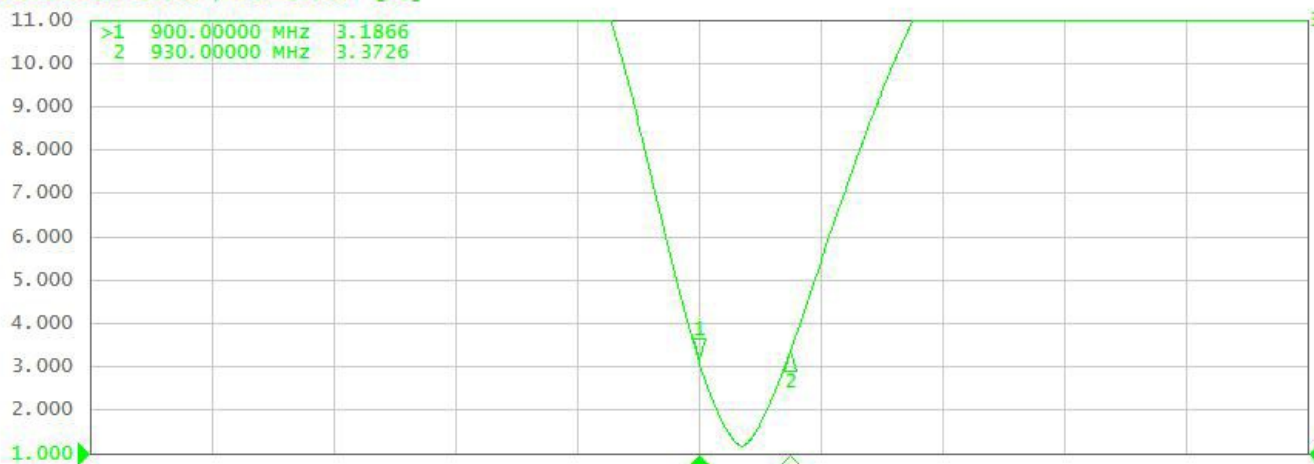
Tr1 S22 Log Mag 10.00 dB/ Ref 0.000 dB [F1]



Tr2 S22 Smith (R+jX) Scale 1.000 U [F1]



Tr3 S22 SWR 1.000 / Ref 1.000 [F1]



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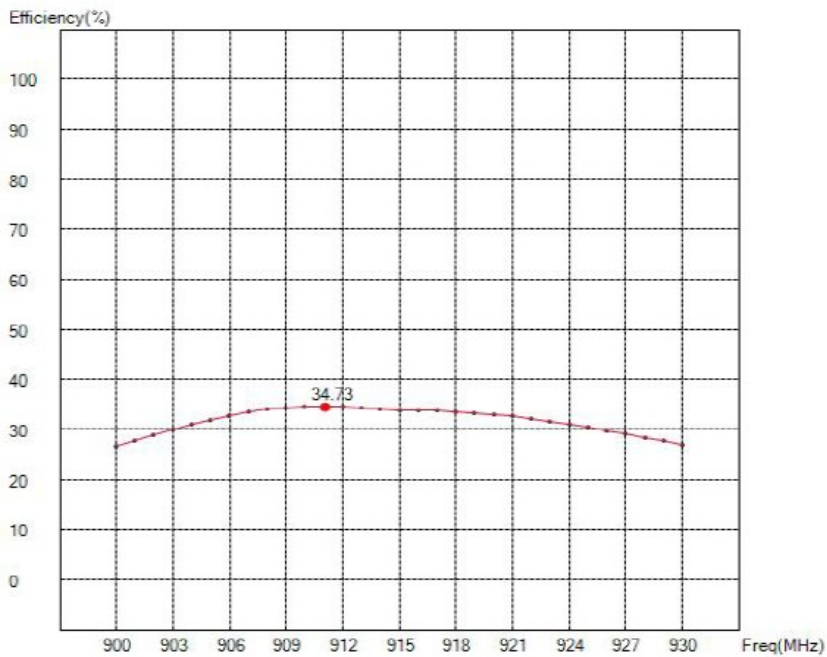
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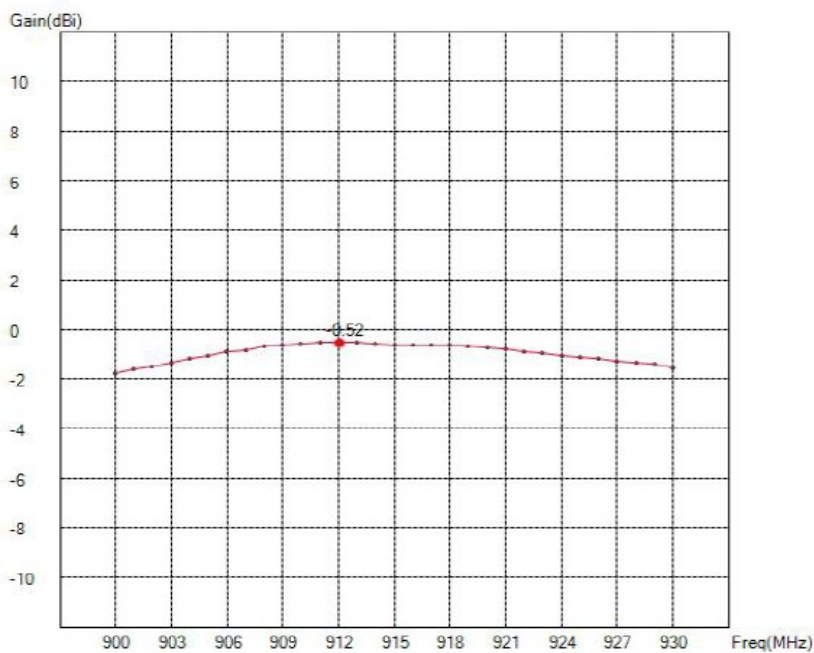
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■ Antenna Efficiency and Peak Gain

900~930 MHz



Maximum Efficiency at 911MHz : 34.73%



Maximum Peak Gain at 912MHz : -0.52dBi

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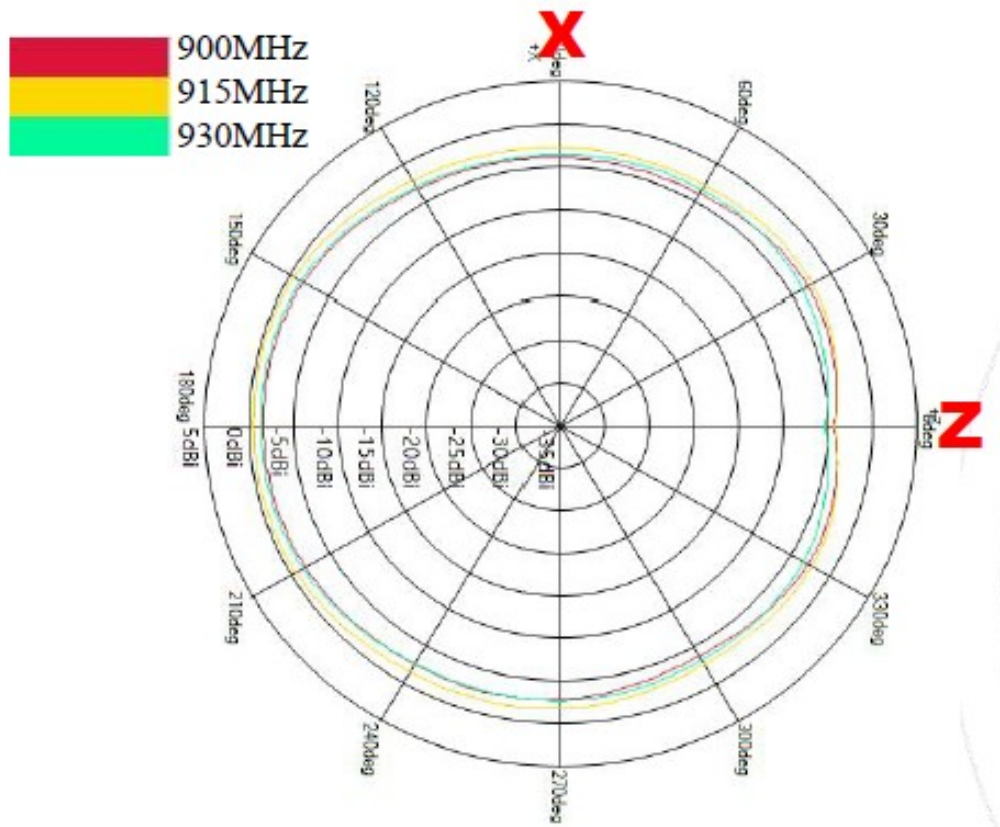
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RADIATION PATTERN

X-Z Plane
Phi=0.00deg

Gain . dBi



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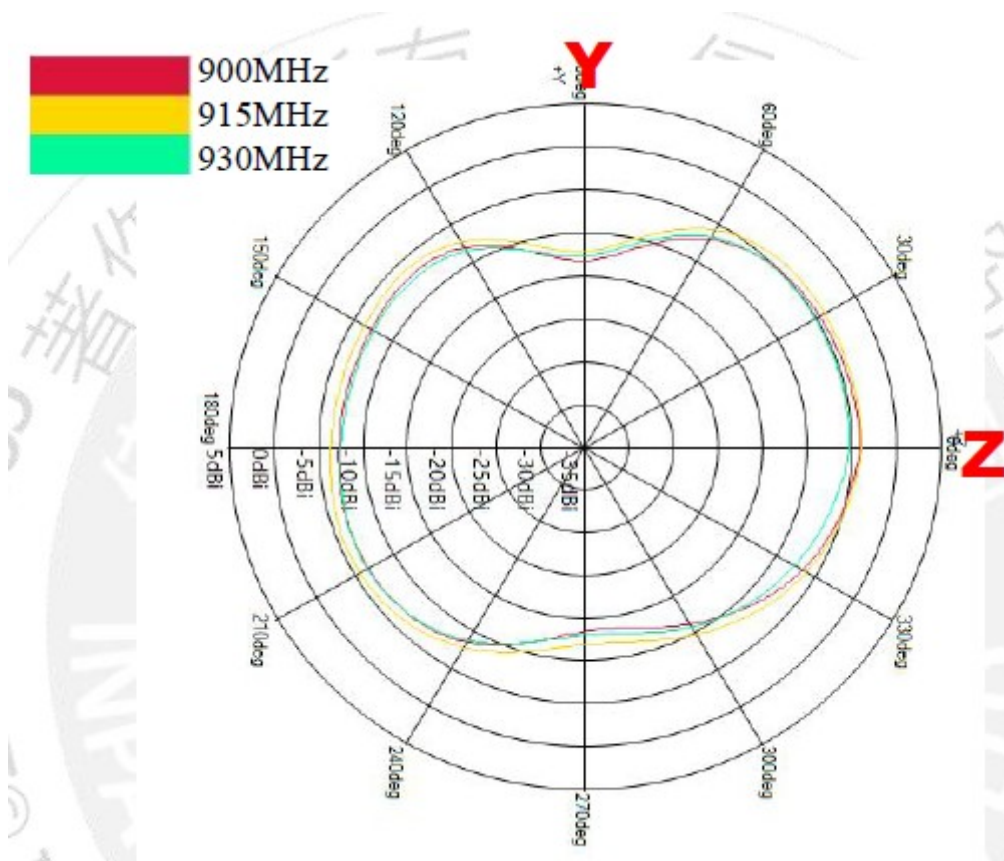
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Y-Z Plane
Phi=90.00deg

Gain . dBi



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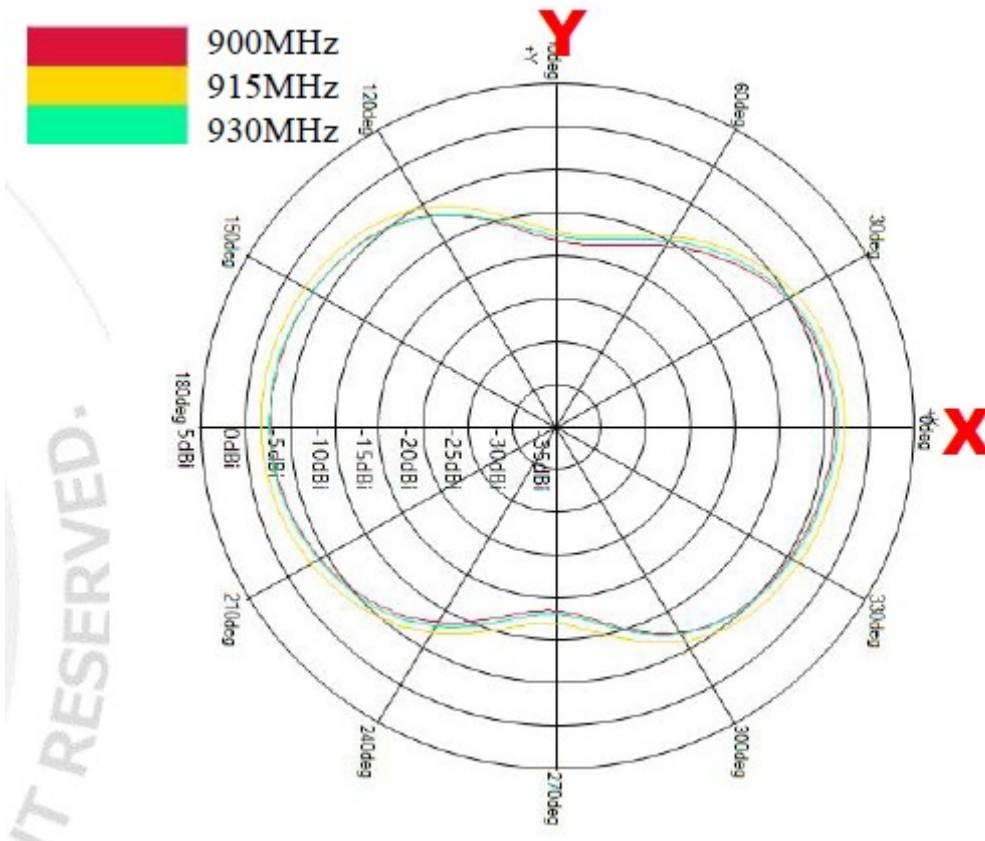
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X-Y Plane

Theta=90.00deg

Gain . dBi



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
900	-1.80	-3.26	-4.00	-6.91	-2.97	-5.87
915	-0.63	-2.39	-3.76	-6.27	-1.89	-4.73
930	-1.53	-3.33	-4.97	-7.45	-2.86	-5.66

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