

品名：RFPCA702006NNUB301

History List

[illegible]

1.Explanation of part number :

RF	PCA	7020	06	N	N	U	B	3	01
Type Code	Product Code	PCB Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	PCB Antenna	Per 2 digits of length, width e.g.:7020 Length 70.0mm, Width 20.0mm	2 digits for cable length e.g.06 Cable Length: 6.0cm	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 U: UHF(470~860MHz) Lora(433、868、915MHz) Sigfox(歐洲 868MHz ; 美國 915MHz) W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:Ø0.81 2:Ø1.32 3:Ø1.13 4:Low Loss Ø1.13 5:Ø0.5 6:RG316 7: Ø1.37 8:RG178 9:Low Loss Ø1.37	01~99 series number

2.Electrical Specification :

Item	Specification
Working Frequency Range	868 / 915 MHz
Return Loss	-10 dB
Peak Gain	2.99 dBi(@863 ~ 873 MHz) 2.95 dBi(@910 ~ 920 MHz)
VSWR	2 max.
Polarization	Linear Vertical
Radiation Pattern	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 : 詹惠雯

CHECKED BY : 詹惠雯

DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

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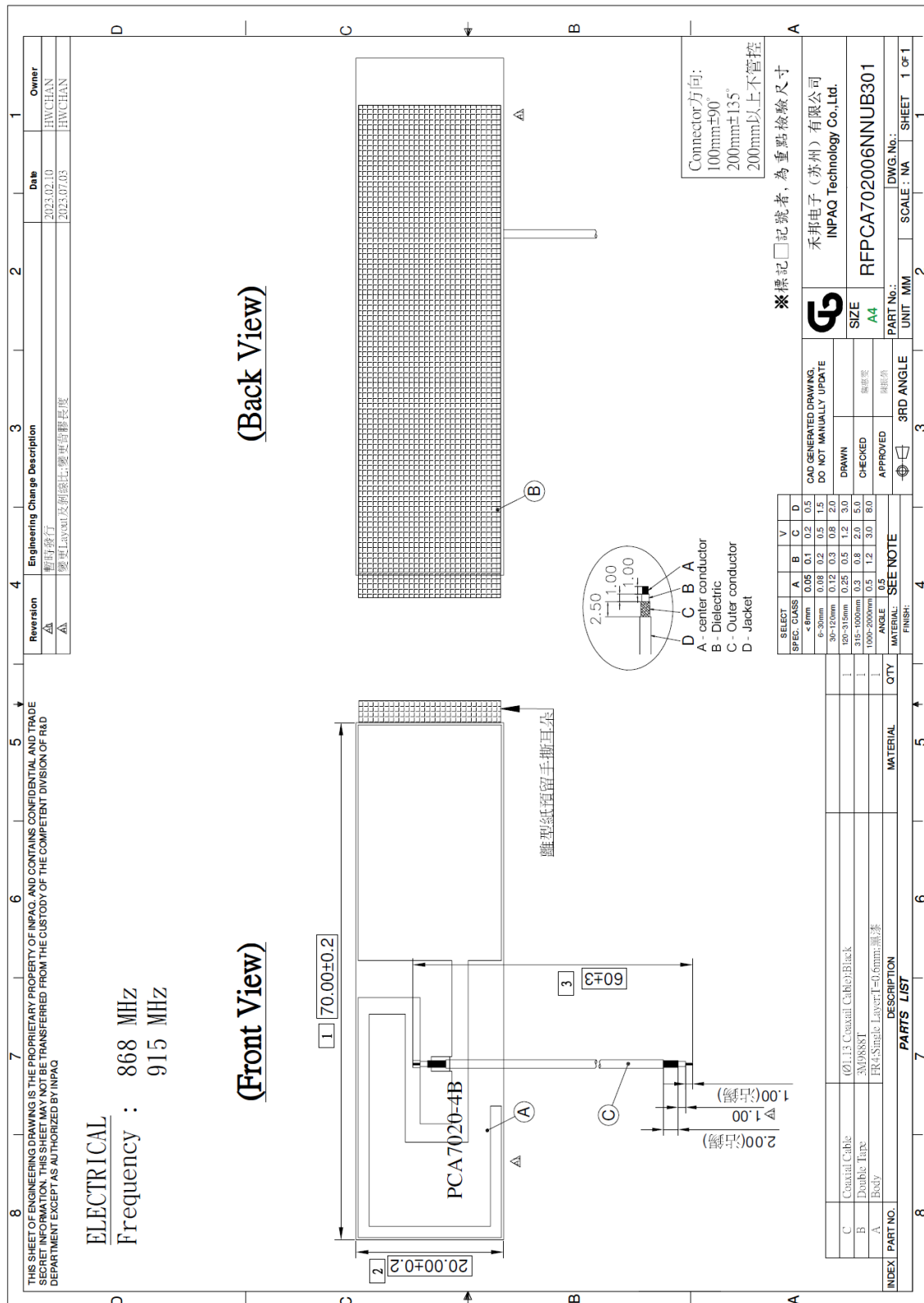
TITLE : RFPCA702006NNUB301

DOCUMENT NO.

ENS070029070-000803720763

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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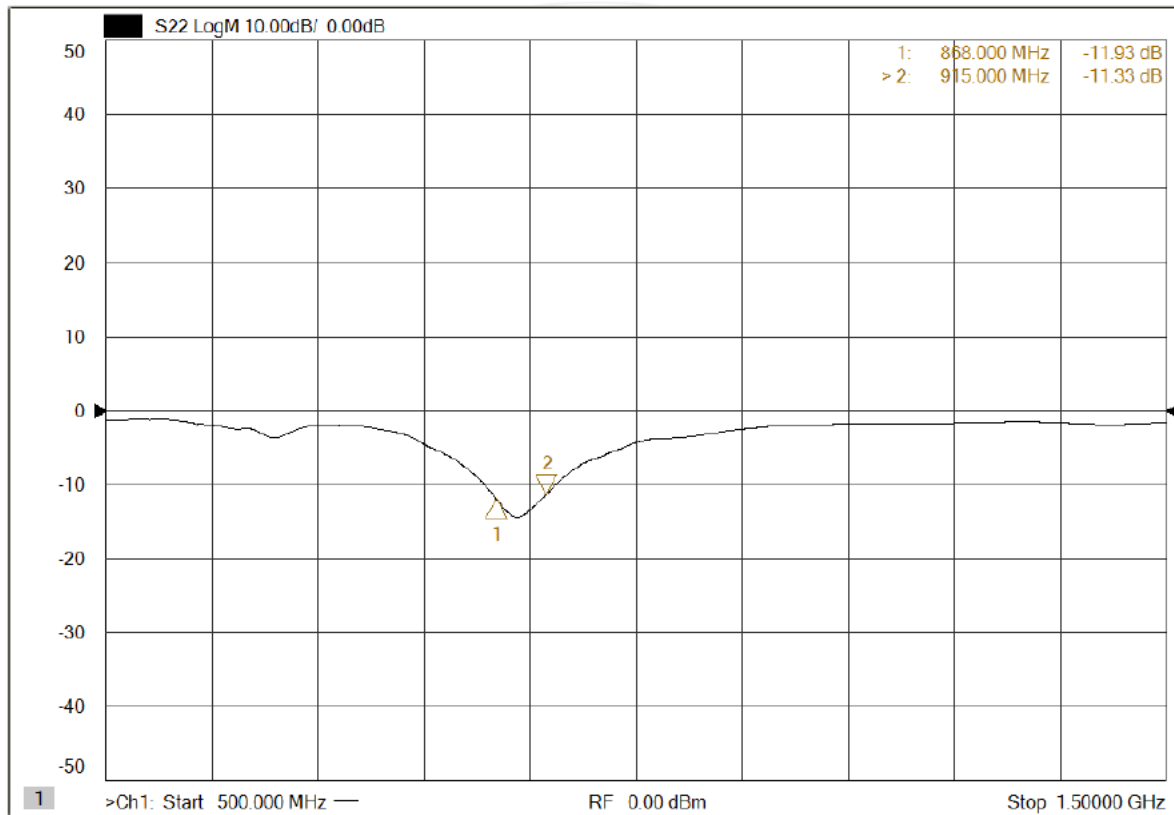
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ELECTRICAL CHARACTERISTICS

868MHz

Return Loss



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SCALE : N/A

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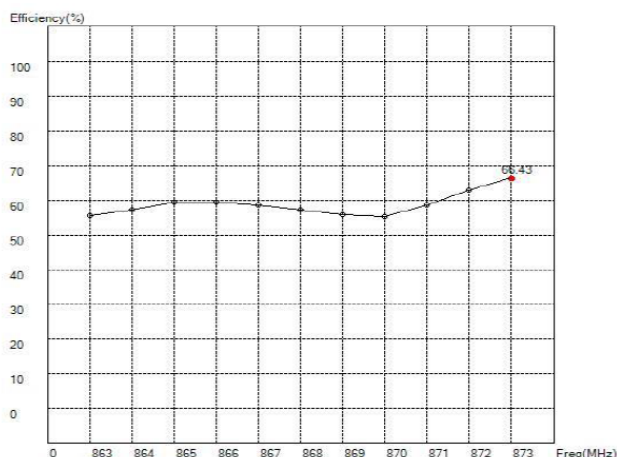
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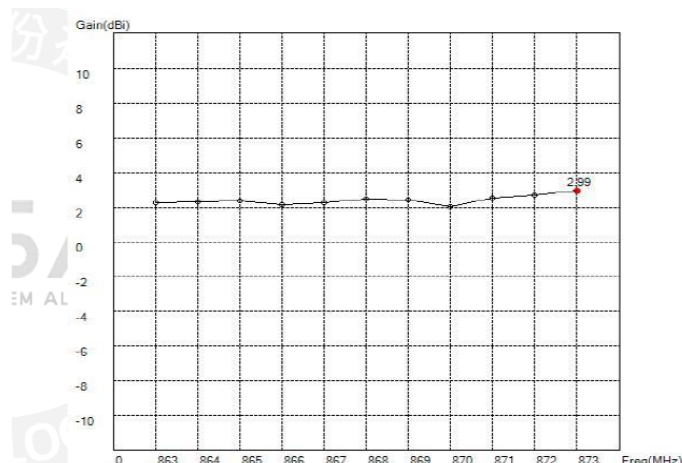
SPEC REV.
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Antenna Efficiency & Peak Gain

868MHz

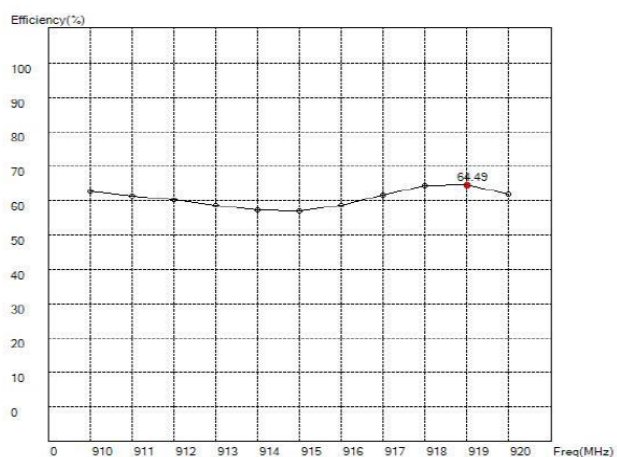


Maximum Efficiency at 873 MHz : 66.43 %

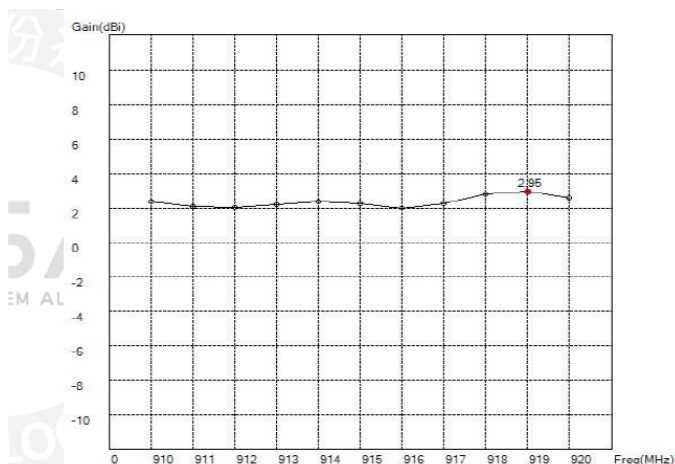


Maximum Peak Gain at 873 MHz : 2.99 dBi

915MHz



Maximum Efficiency at 919 MHz : 64.49 %



Maximum Peak Gain at 919 MHz : 2.95 dBi

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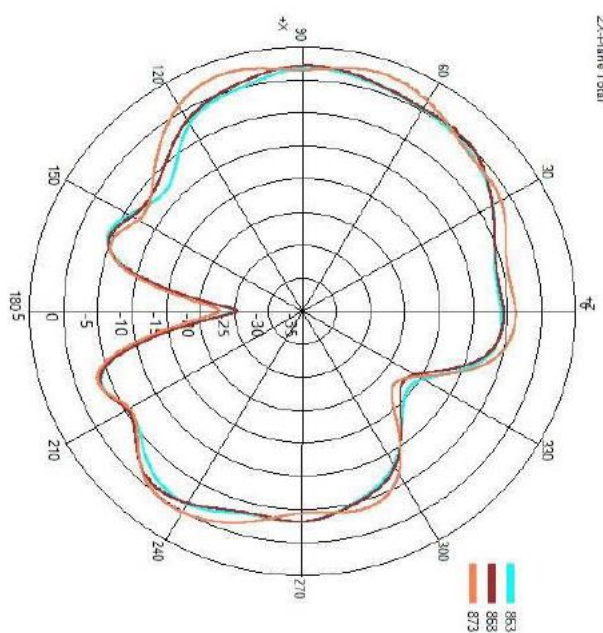
RADIATION PATTERN

863-873MHz

X-Z Plane

Phi=0.00deg

Gain . dB



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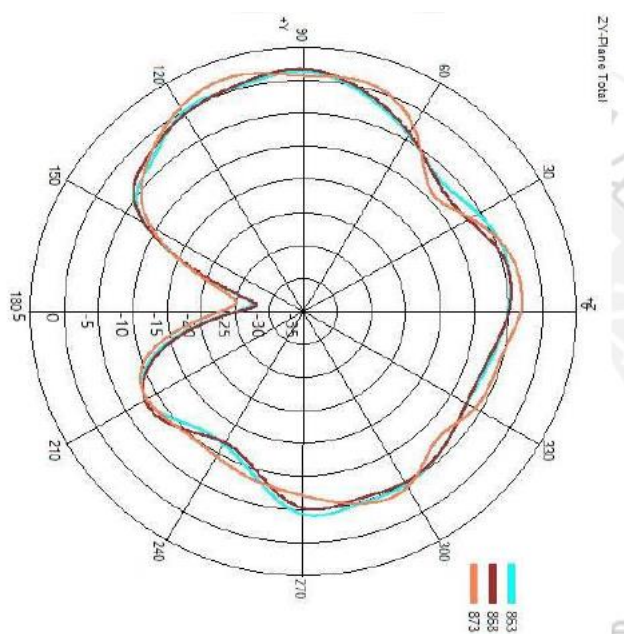
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SPEC REV.
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Y-Z Plane

Phi=90.00deg

Gain . dB



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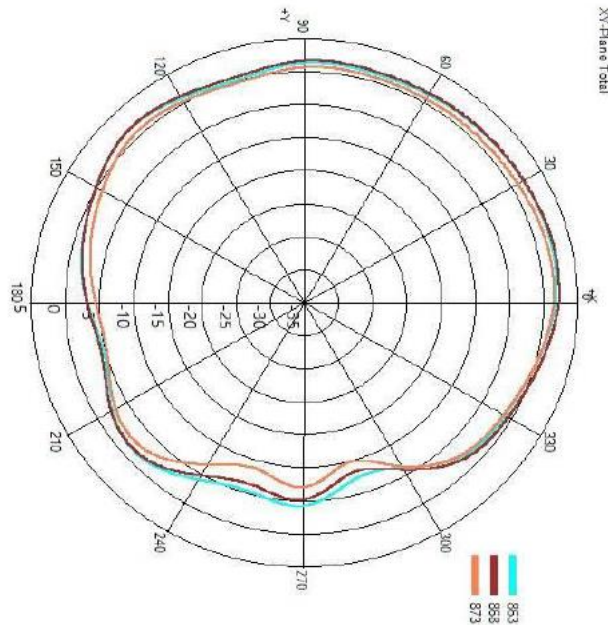
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SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
863	1.81	-3.08	1.40	-4.26	2.24	-0.39
868	2.25	-2.74	1.73	-4.25	2.48	-0.20
873	2.82	-1.82	2.03	-3.64	1.59	-1.16

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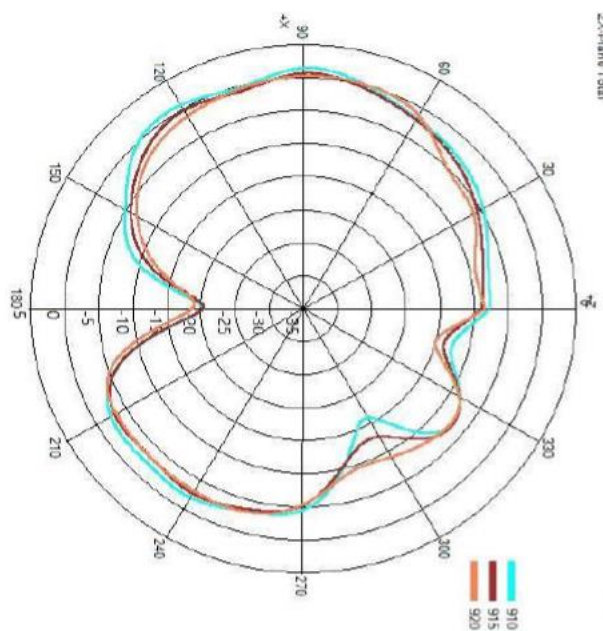
SPEC REV.
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910-920MHz

X-Z Plane

Phi=0.00deg

Gain . dB



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ANGLES = N/A HOLEDIA = N/A



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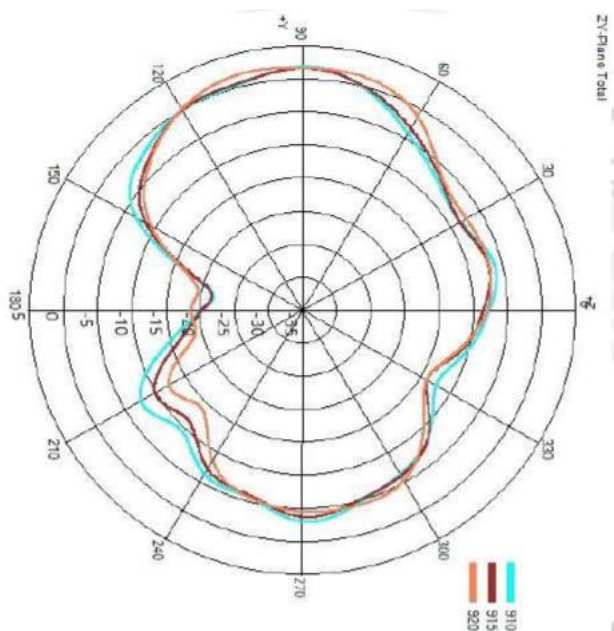
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SPEC REV.
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Y-Z Plane

Phi=90.00deg

Gain . dB



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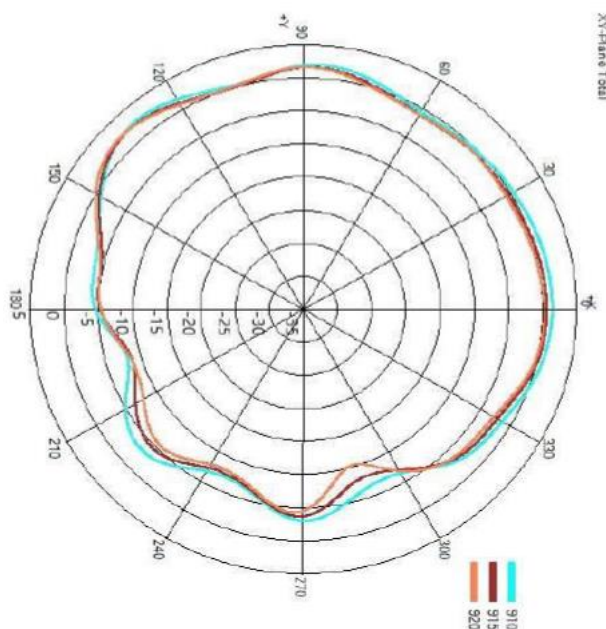
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SPEC REV.
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X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
910	1.45	-3.30	1.93	-4.24	2.37	-0.94
915	0.70	-4.01	1.64	-4.49	2.26	-1.51
920	0.28	-4.12	1.91	-4.01	2.35	-1.68

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