

品名：RFMTA110700NNLB004

History List

[illegible]

1.Explanation of part number :

RF	MTA	1107	00	N	N	L	B	0	04
Type Code	Product Code	Metal Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
Walsin RF Device	Metal Antenna	Per 2 digits of length, width e.g.:1107 Length 11.35 mm, Width 7.85mm	2 digits for cable length e.g.: 00 None Cable	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 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:∅ 0.81 2:∅ 1.32 3:∅ 1.13 4:Low Loss ∅ 1.13 5:∅ 0.5 6:RG316 7: ∅ 1.37 8:RG178 9:Low Loss ∅ 1.37	01~99 series number

2.Electrical Specification :

Item	Specification
Working Frequency Range	2.4 ~ 2.5 / 5.15 ~ 5.85 GHz (Note-1)
Return Loss	-10dB(Max)
Peak Gain	ANT1:1.20 dBi(@2.4 ~ 2.5 GHz) ANT2:1.76 dBi(@2.4 ~ 2.5 GHz) ANT2:3.55 dBi(@5.15 ~ 5.85 GHz)
VSWR	< 2.0
Polarization	Linear Vertical
Admitted Power	1W
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

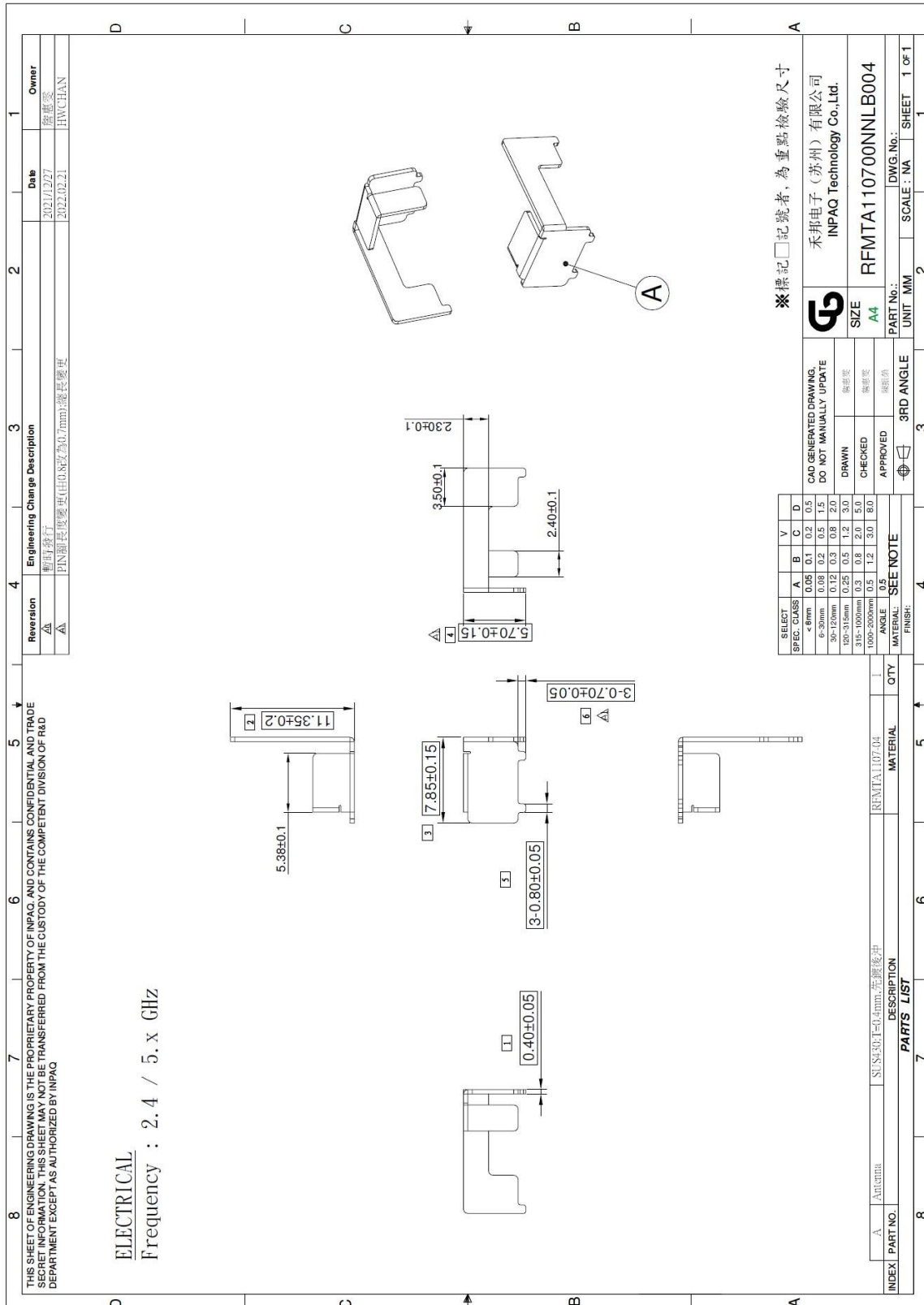
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3. Antenna Drawing : Ant.2 (WIFI)



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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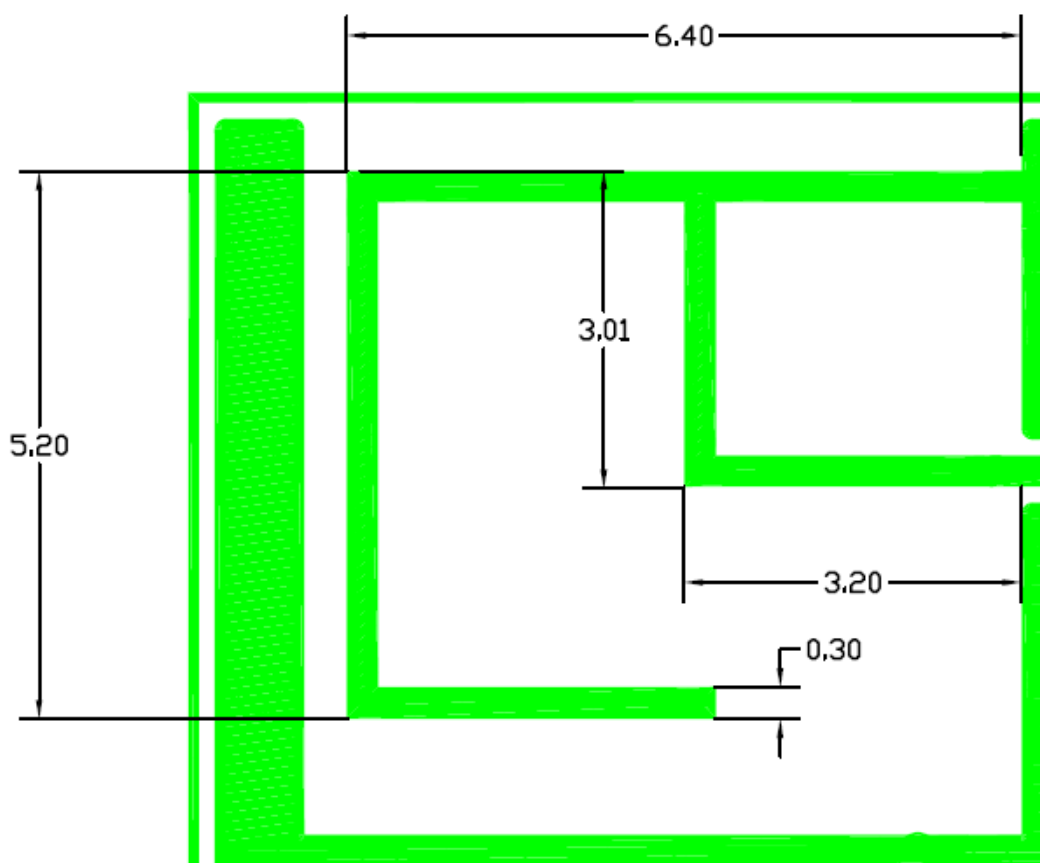
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Ant.1 (Bluetooth)



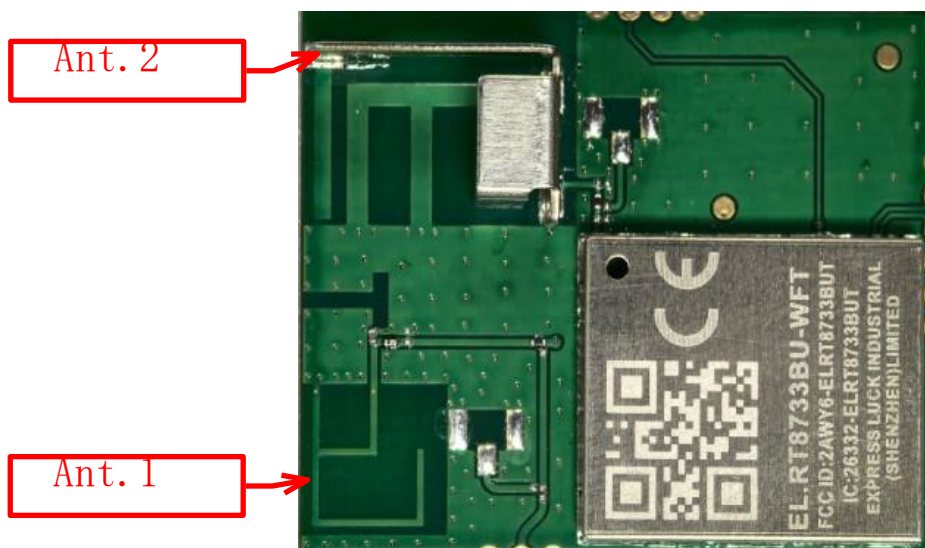
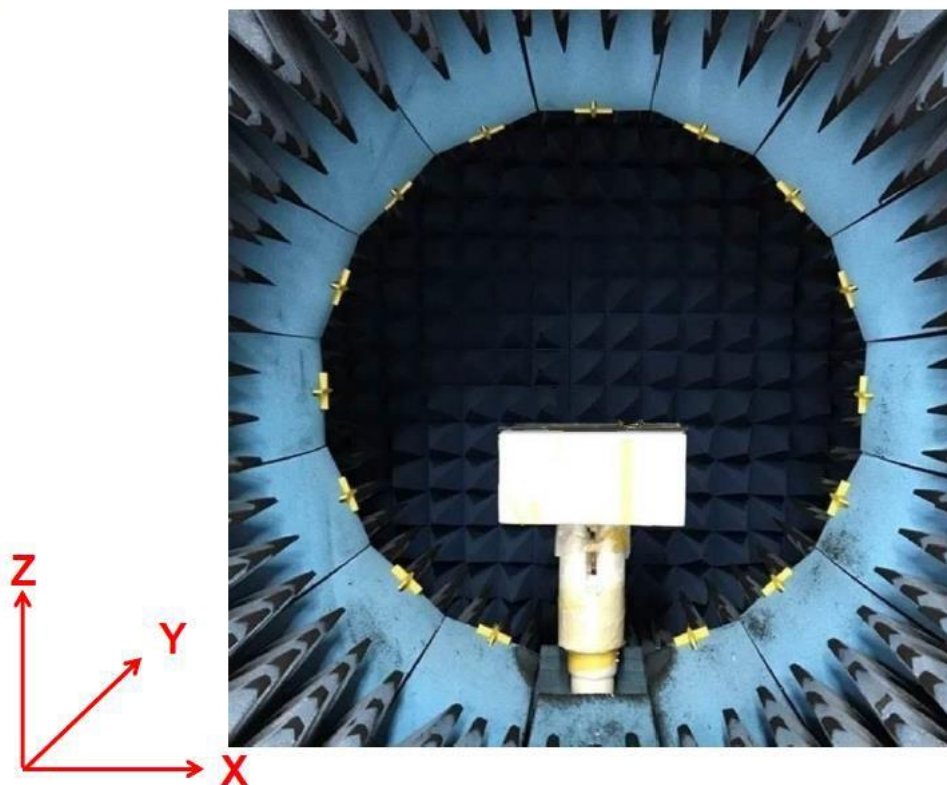
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SCALE : N/A	UNIT : mm		
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DESIGNED BY : 黃瑞郎	APPROVED BY : 陳振榮		
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4. Performance Report :

Test Report

■ Experimental Setup

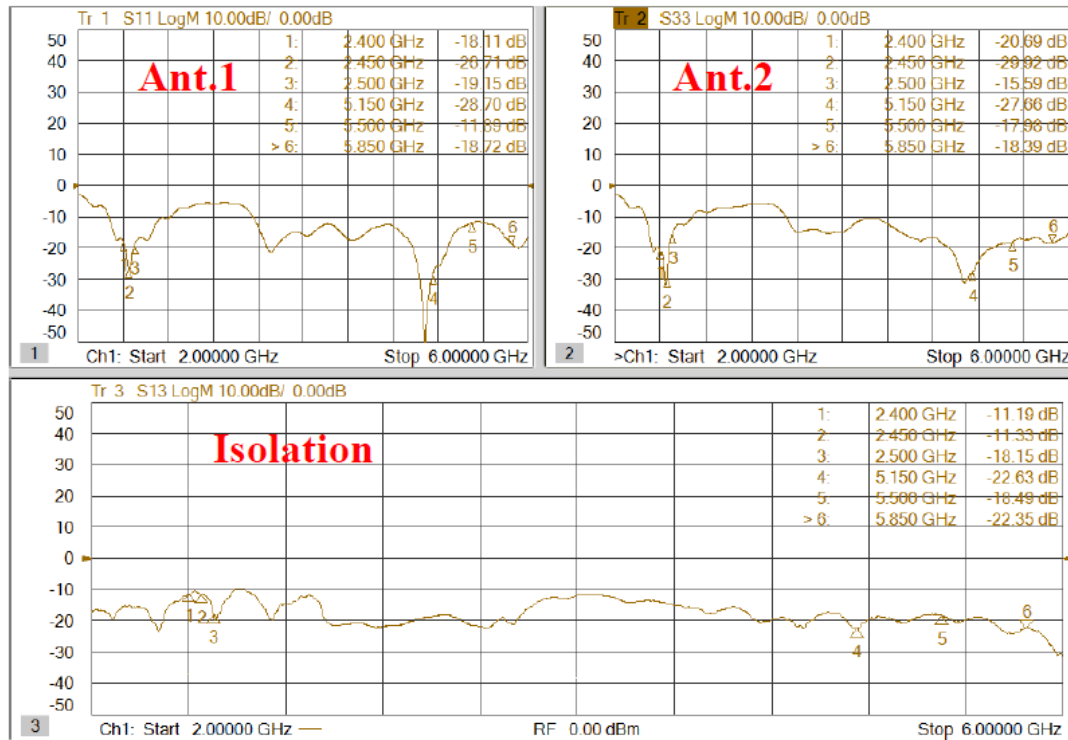
Experimental Setup



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E : N/A	UNIT : mm	
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ELECTRICAL CHARACTERISTICS

Return Loss & Isolation



UNLESS OTHER SPECIFIED TOLERANCES ON :

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UNIT : mm

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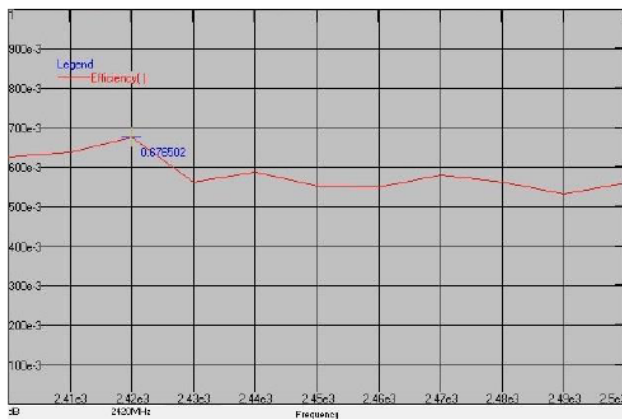
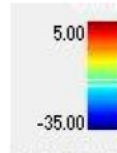
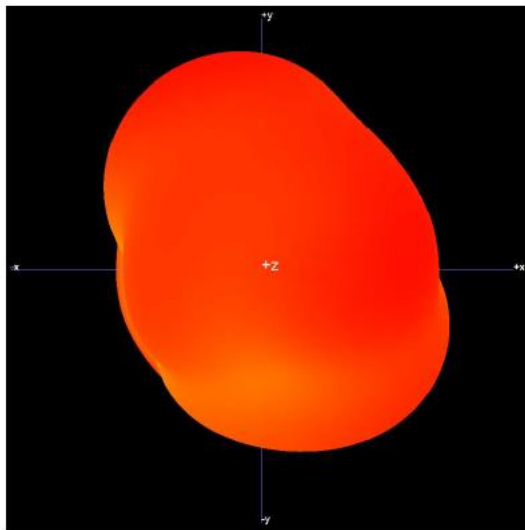
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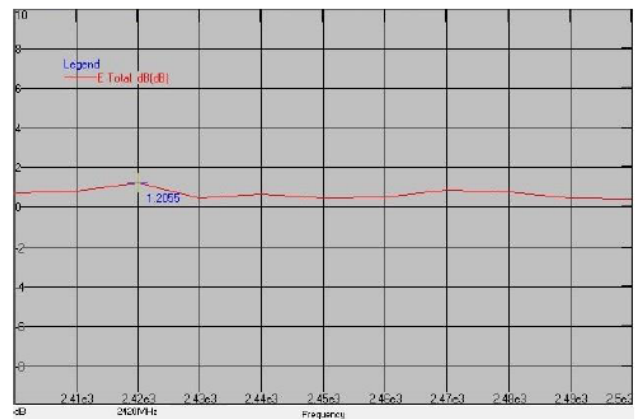
Antenna Efficiency and Peak Gain

Ant.1_2G

2450 MHz



Maximum Efficiency at 2420 MHz : 67.65 %



Maximum Peak Gain at 2420 MHz : 1.20 dBi

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

SCALE : N/A

UNIT : mm

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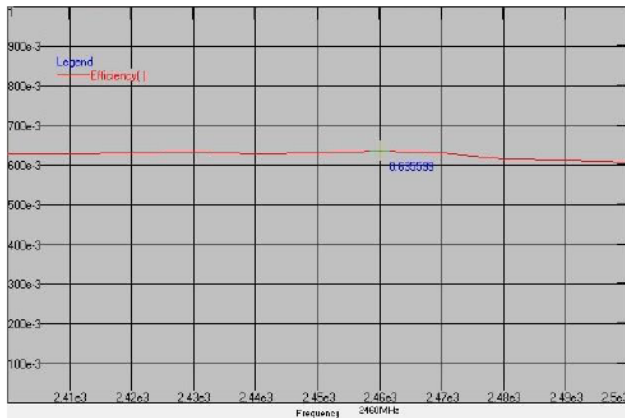
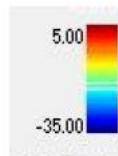
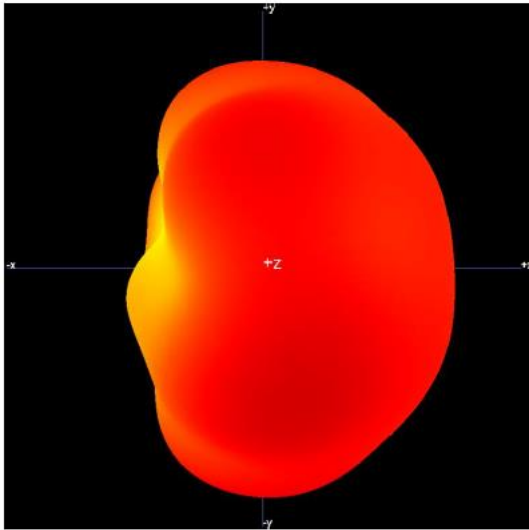
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Ant.2_2G

2450 MHz



Maximum Efficiency at 2460 MHz : 63.55 %



Maximum Peak Gain at 2440 MHz : 1.76 dBi

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

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DESIGNED BY : 黃瑞郎

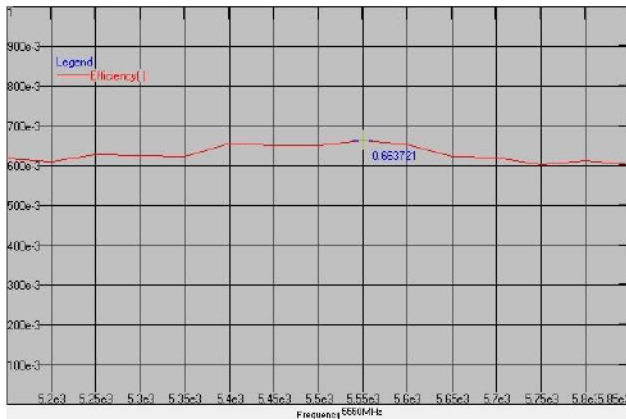
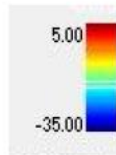
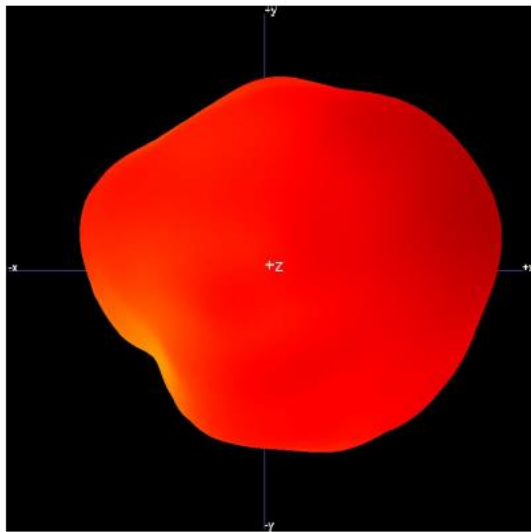
APPROVED BY : 陳振榮

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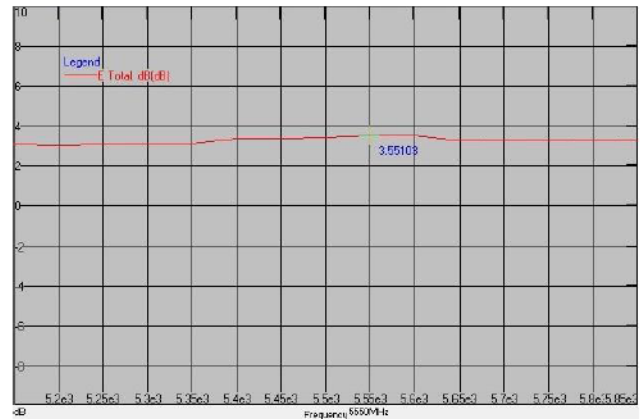
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Ant.2_5G**5500 MHz**

Maximum Efficiency at 5550 MHz : 66.37 %



Maximum Peak Gain at 5550 MHz : 3.55 dBi

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

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CHECKED BY : 詹惠雯

DESIGNED BY : 黃瑞郎

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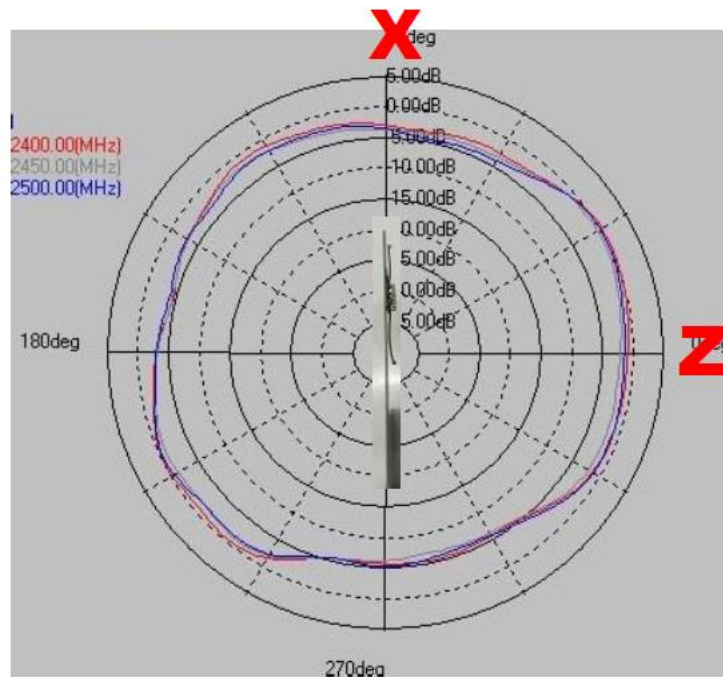
RADIATION PATTERN

Ant.1
2400 ~ 2500MHz

X-Z Plane

Phi=0.00deg

Gain . dB



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

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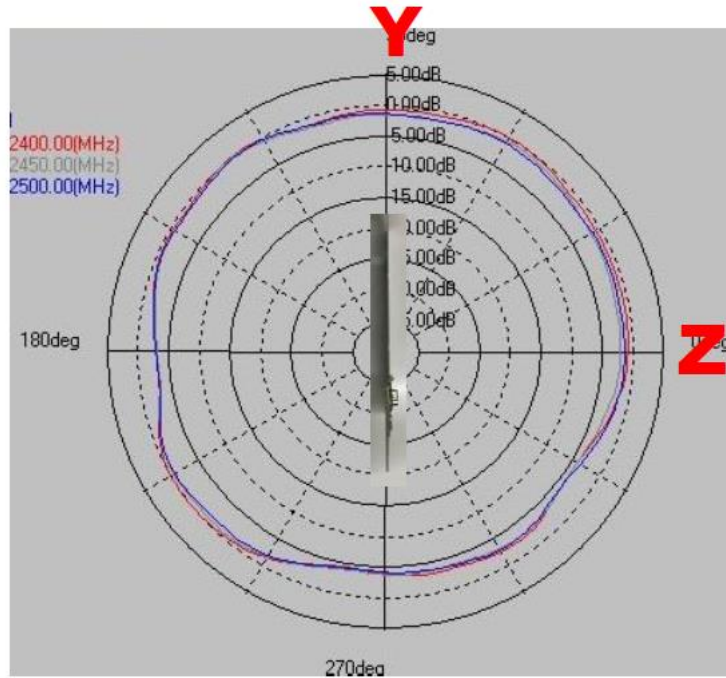
DOCUMENT
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SPEC REV.
A0

Y-Z Plane

Phi=90.00deg

Gain . dB



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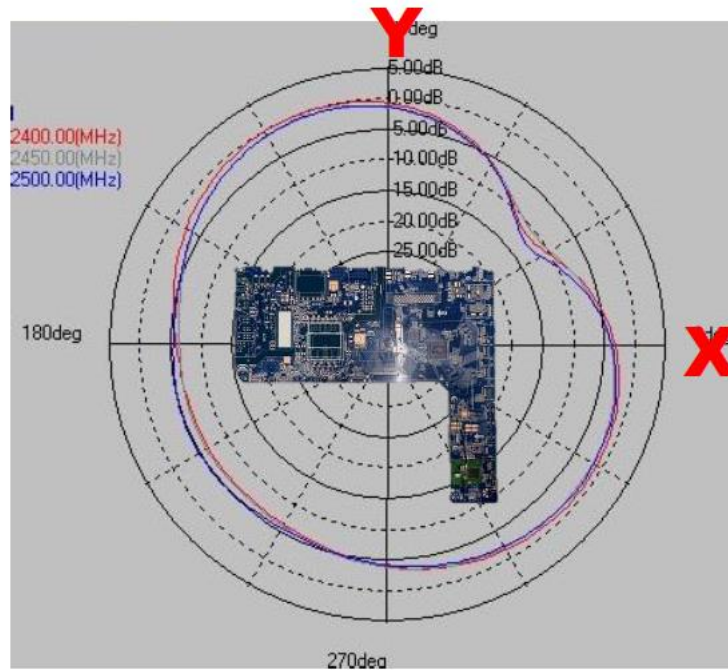
DOCUMENT
NO.

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A0

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	0.42	-2.19	0.17	-1.44	-0.13	-3.25
2450	0.39	-2.67	-0.10	-1.95	-0.92	-3.80
2500	0.11	-2.59	-0.19	-1.90	-0.84	-3.67

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

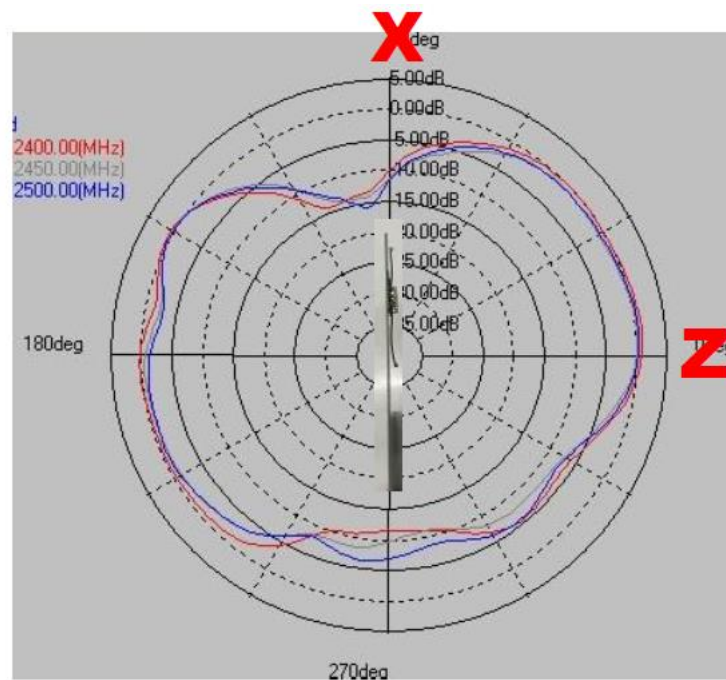
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Ant.2**2400 ~ 2500MHz****X-Z Plane****Phi=0.00deg****Gain . dB**

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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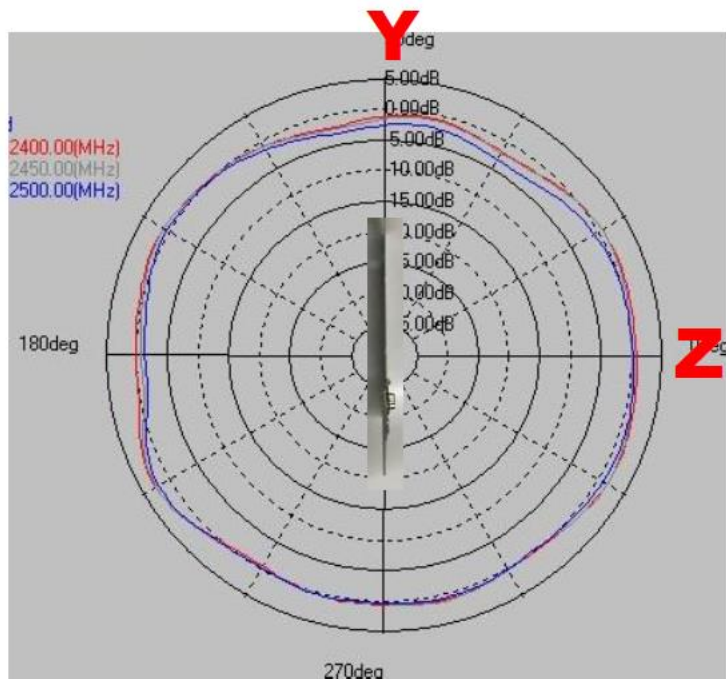
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Y-Z Plane

Phi=90.00deg

Gain . dB



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



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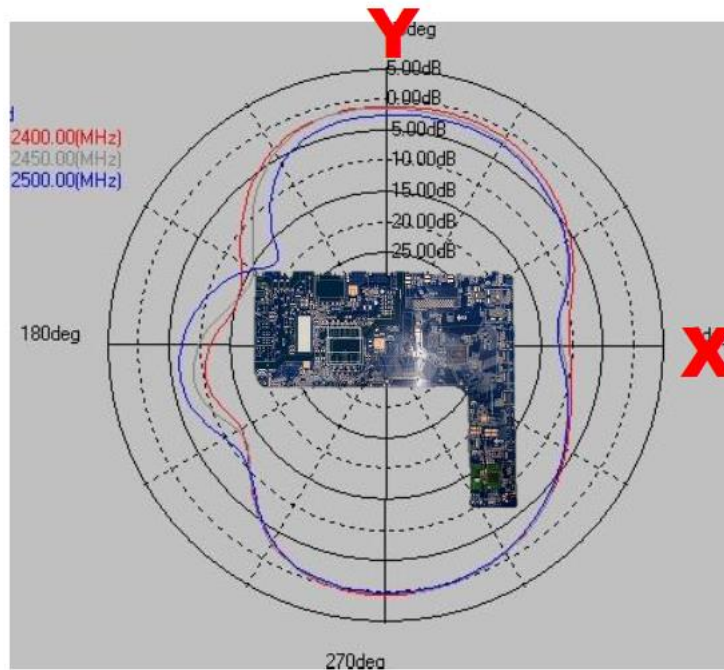
DOCUMENT
NO.

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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	1.03	-2.47	1.63	0.31	0.36	-3.85
2450	0.30	-3.23	1.58	0.13	0.18	-4.12
2500	0.50	-3.08	1.10	-0.36	0.01	-4.47

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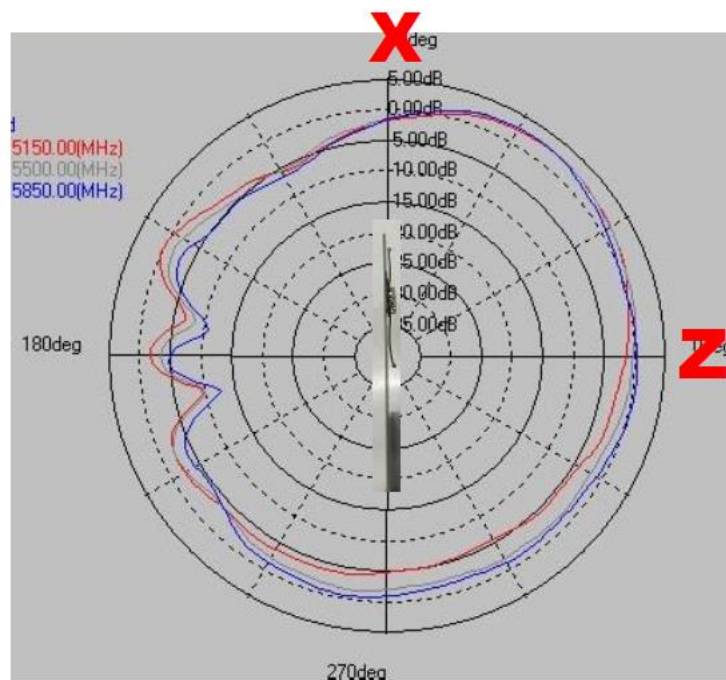
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Ant.2**5150 ~ 5850MHz****X-Z Plane****Phi=0.00deg****Gain . dB**

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**

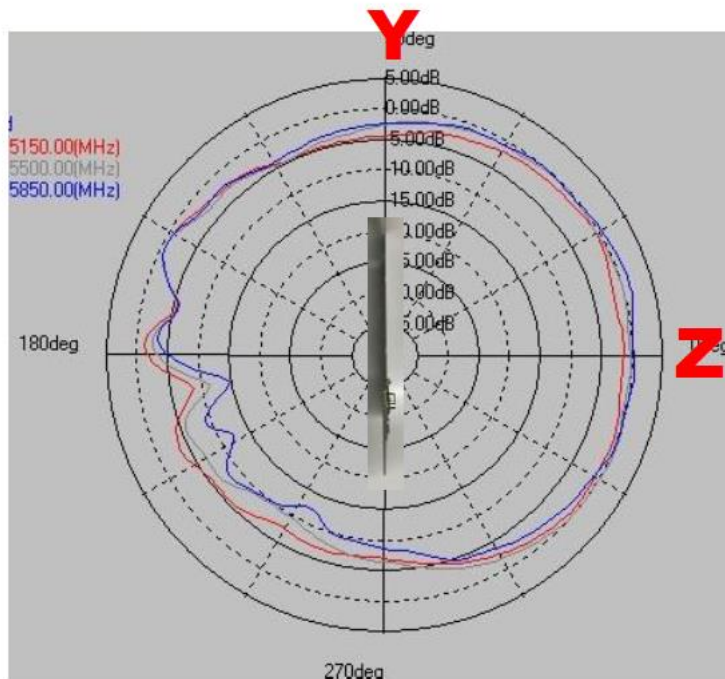
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Y-Z Plane

Phi=90.00deg

Gain . dB



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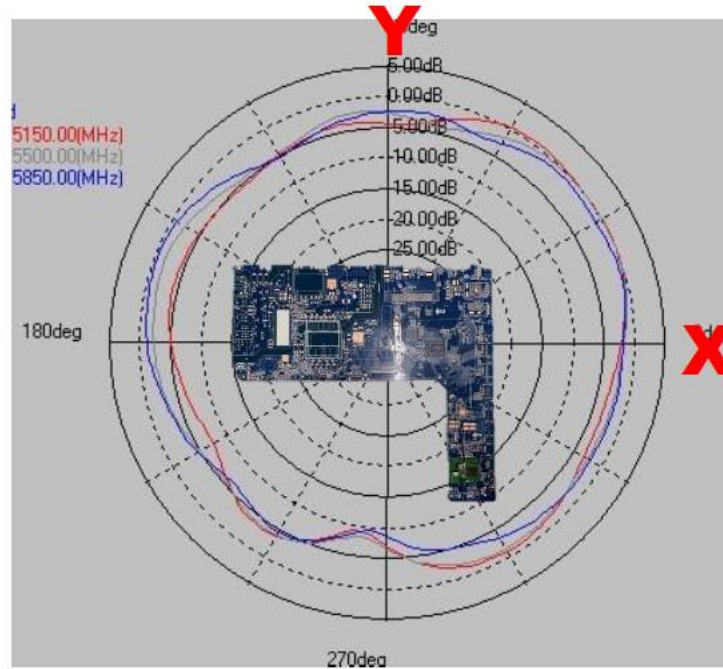
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X-Y Plane

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]
5150	2.54	-1.91	0.47	-2.95	0.36	-3.06
5500	2.67	-1.34	0.44	-2.51	0.08	-2.64
5850	2.59	-1.38	1.27	-2.67	0.33	-2.79

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ANGLES = N/A HOLEDIA = N/A



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