

[illegible]

Product name : RFFPA301305IMAB301

Customer : Formovie

Customer part number : E22030000156

Factory address : 81 Antai 1st Road, Xishan District,

Wuxi City, Jiangsu Province

1. Explanation of part number :

RF	FPA	3013	05	I	M	A	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
RF Device	FPC Antenna	Per 2 digits of length, width e.g.: 3013 Length 30mm, Width 13mm	2 digits for cable length e.g.: 05 Length 5.5cm	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 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 GHz
Return Loss	-10 dB(Max)
Gain(peak)	2.11 dBi
VSWR	< 2.0
Impedance	50 Ohm Nominal
Radiation	Omni-directional
Polarization	Linear Vertical
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 : SHLEE

CHECKED BY : HWCHAN

DESIGNED BY : Lang Huang

APPROVED BY : Brian Chen

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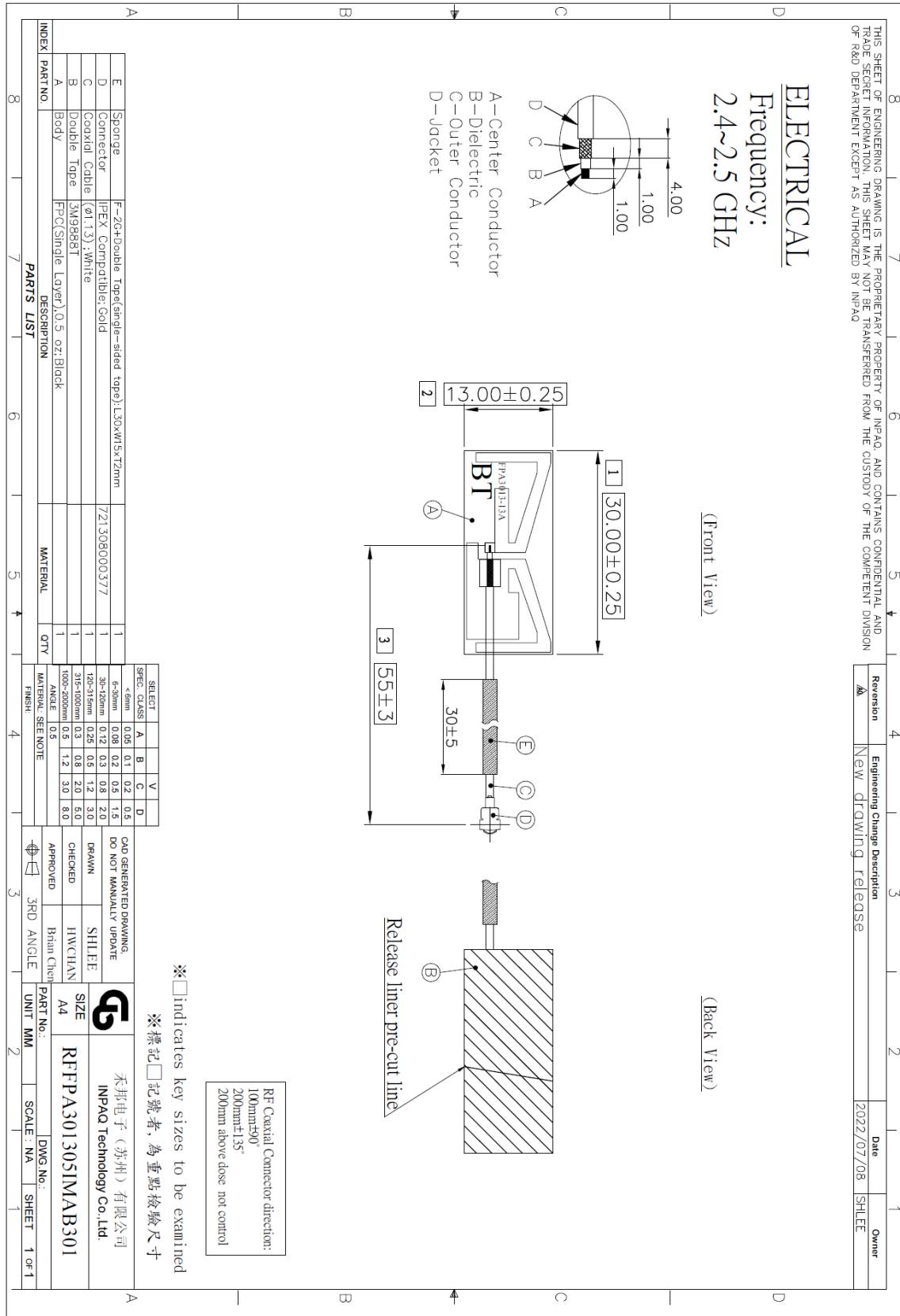
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3. Antenna Drawing :



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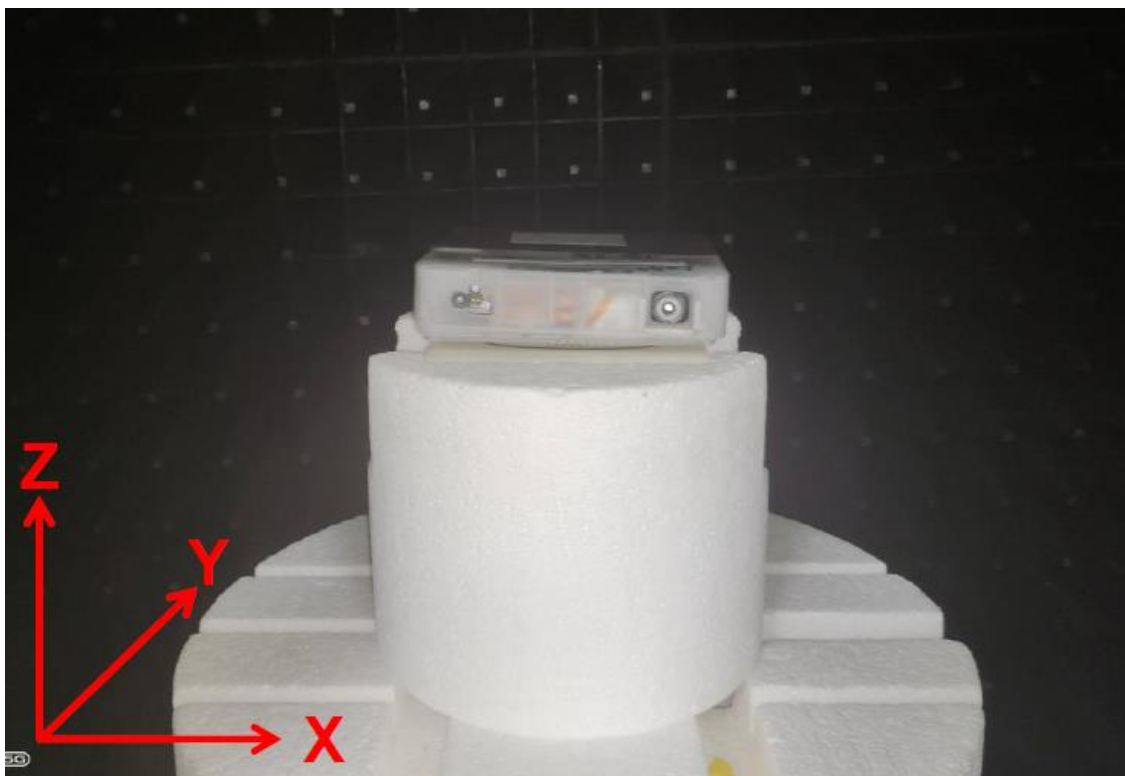
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4. Performance Report :

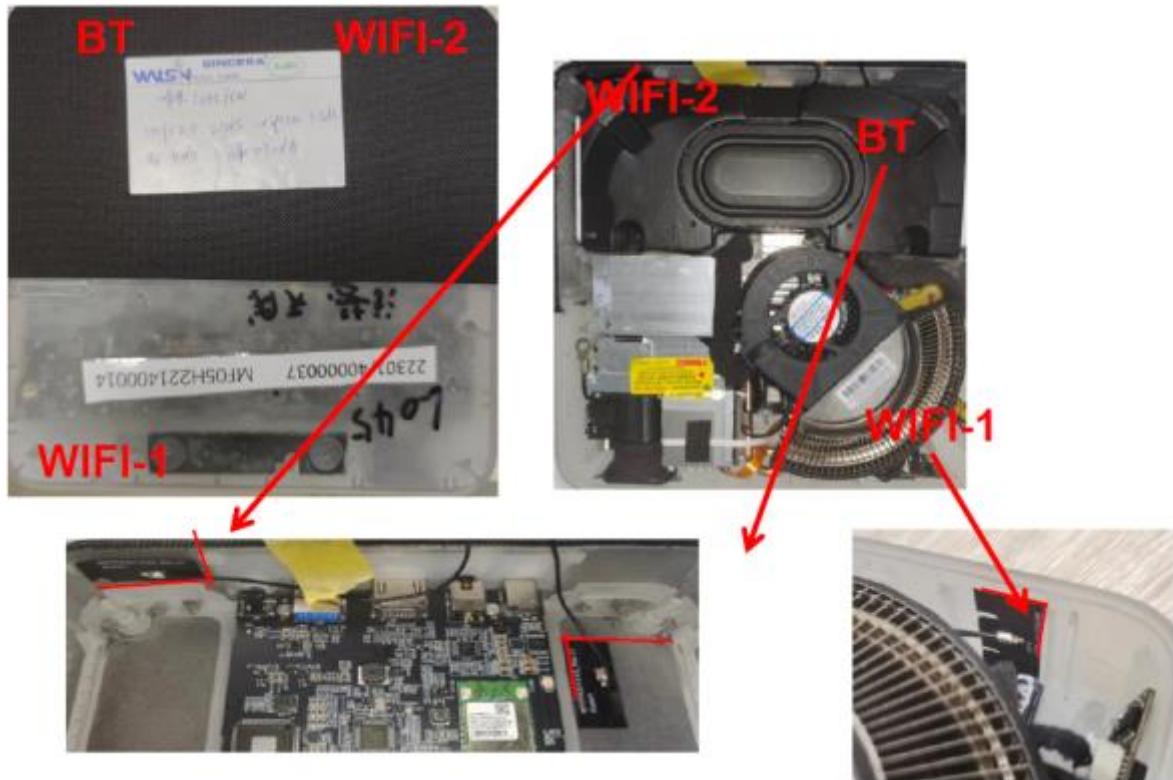
Test Report

Experimental Setup



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■ Antenna Solution Detail



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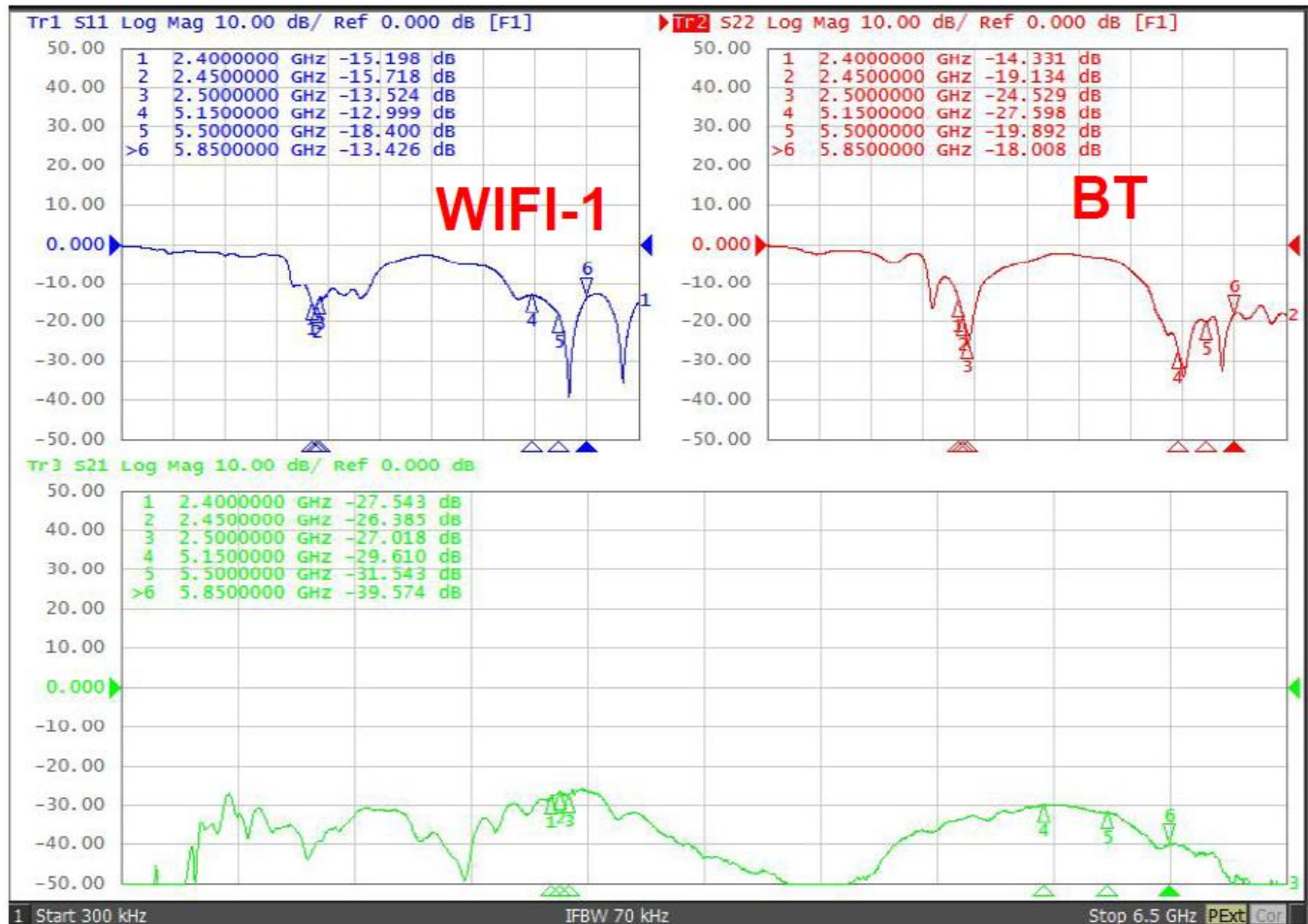
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ELECTRICAL CHARACTERISTICS

Return Loss & Isolation

BT



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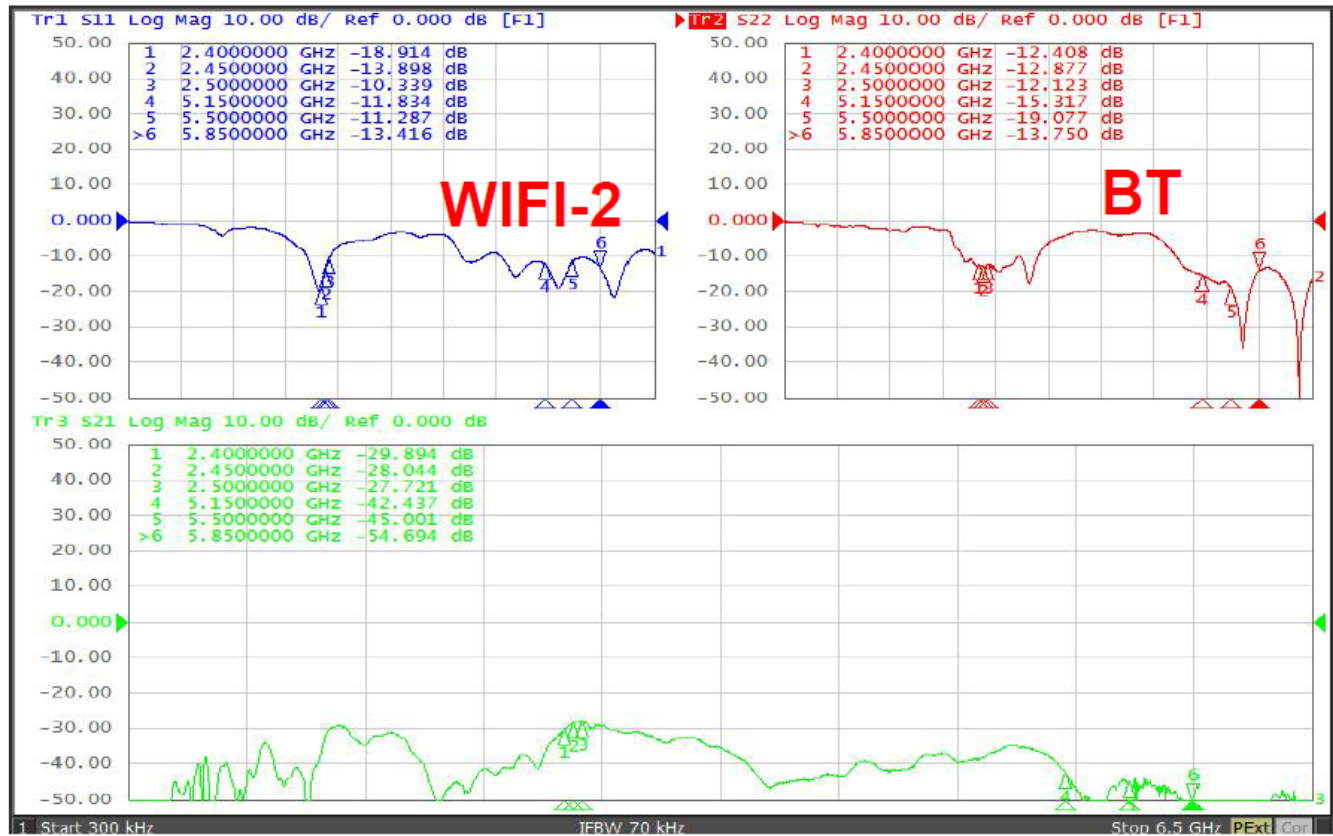
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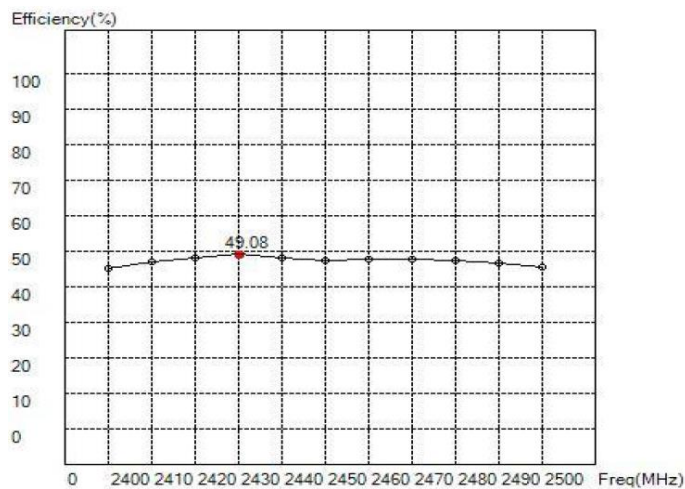
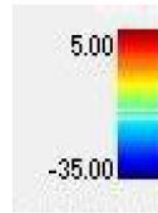
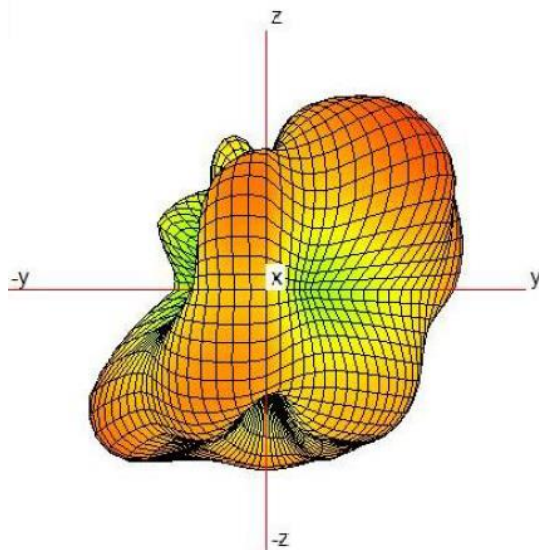
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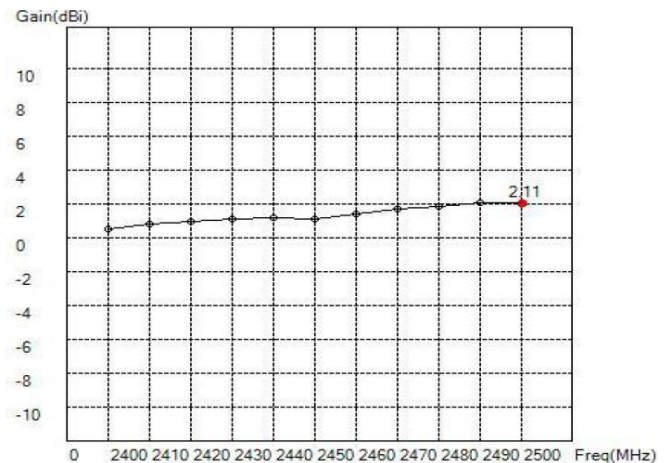
Antenna Efficiency & Peak Gain

2400~2500 MHz

2450 MHz



Maximum Efficiency at 2430MHz : 49.08%



Maximum Peak Gain at 2500 MHz : 2.11dBi

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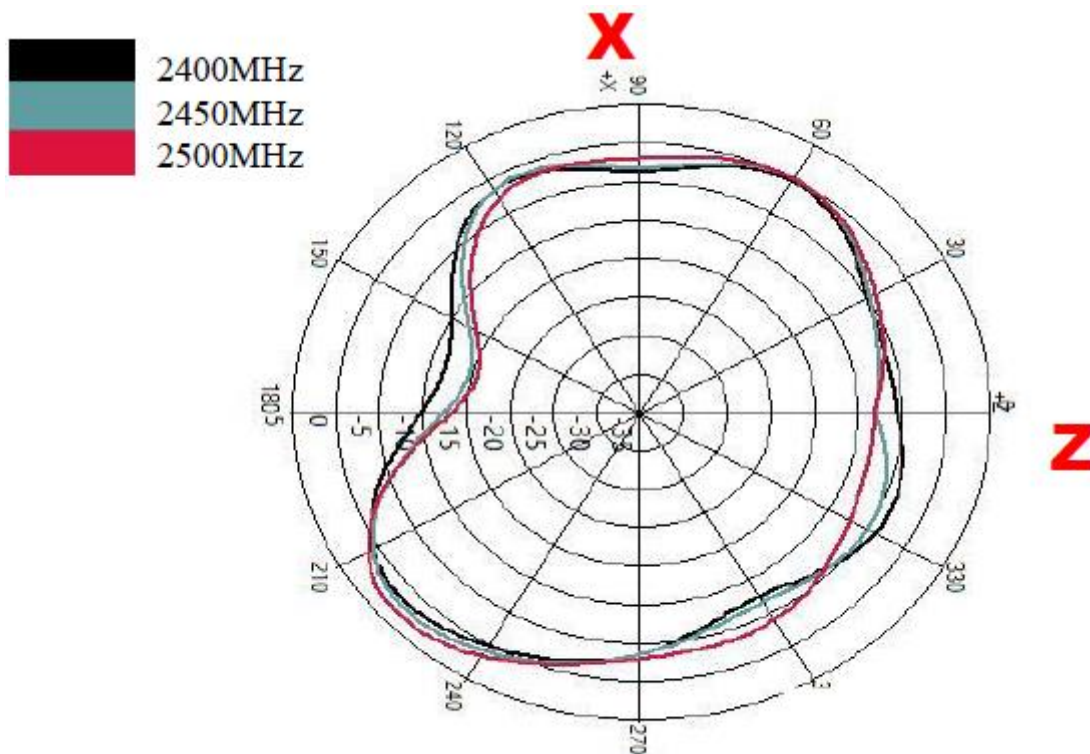
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RADIATION PATTERN

2400~2500 MHz

Phi=0.00deg

Gain . dB



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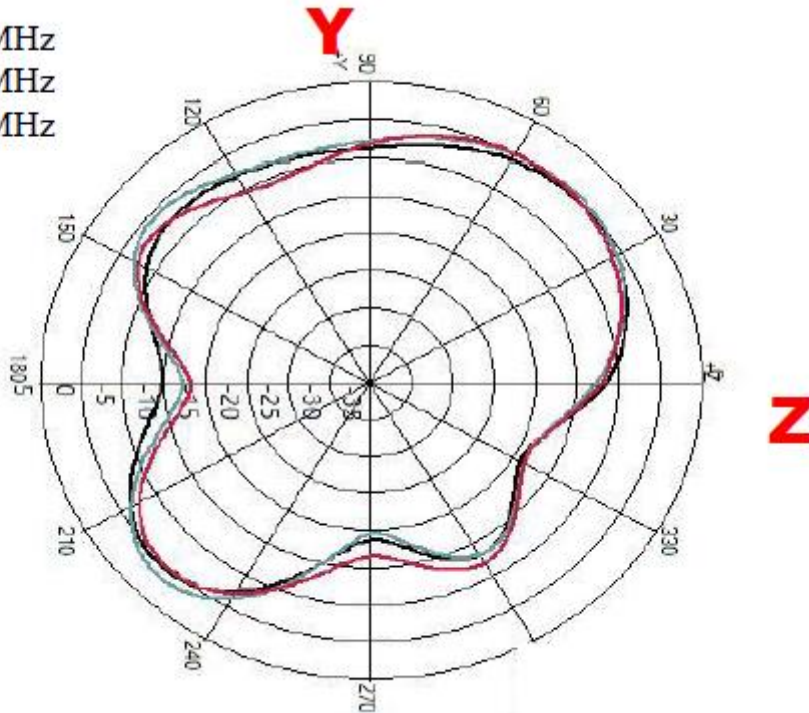
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Phi=90.00deg

Gain . dB



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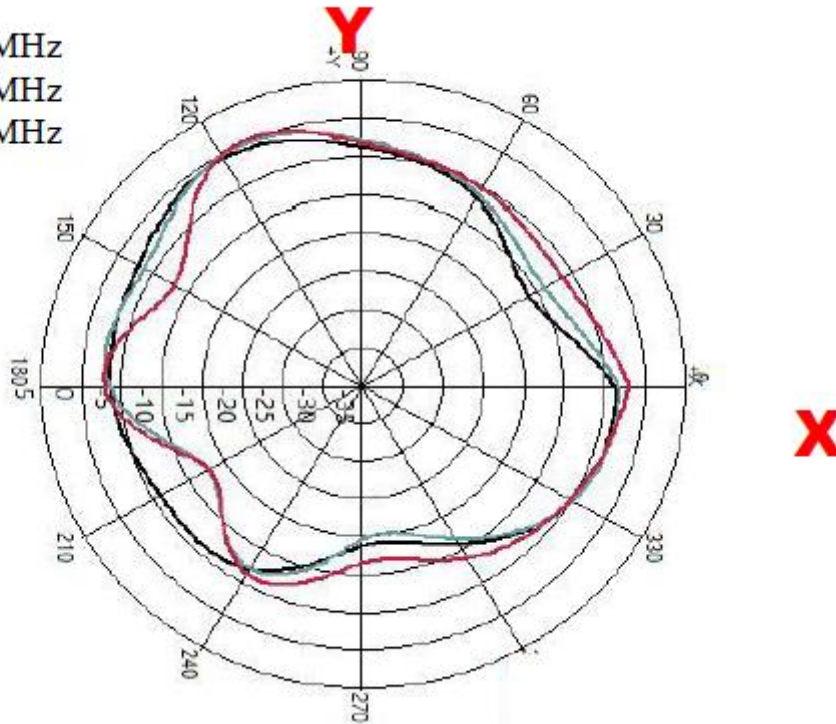
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Theta=90.00deg

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	0.28	-2.89	-0.44	-3.72	-0.54	-4.91
2450	0.63	-2.87	0.22	-3.27	-0.11	-4.89
2500	1.36	-2.52	0.33	-3.81	-0.09	-4.67

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