

APPROVAL SHEET

Dipole ANTENNA

2.4~2.5 GHz Working Frequency

Halogens Free Product

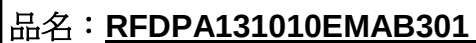
P/N: RFDPA131010EMAB301

Customer :

Customer 's Part No. :

Approval No. :

Issue Date :



History List

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品名：RFDPA131010EMAB301

1. Explanation of part number：

RF	DPA	1310	10	E	M	A	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	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 1310 Length 135.7mm, Width φ 10.0mm	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 5: 5 GHz 6: 6GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.x GHz tri-band N: NFC T:LTE band W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:φ0.81 3:φ1.13 6:RG316 7:φ1.37 8:RG178	01~99 series number

2. Electrical Specification：

Item	Specification
Working Frequency Range	2.4~2.5 GHz
Gain	3.31 dBi
Return Loss	-10dB(Max)
VSWR	2 max.
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：邱瑩鈺

CHECKED BY：詹惠雯

DESIGNED BY：黃瑞郎

APPROVED BY：陳振榮

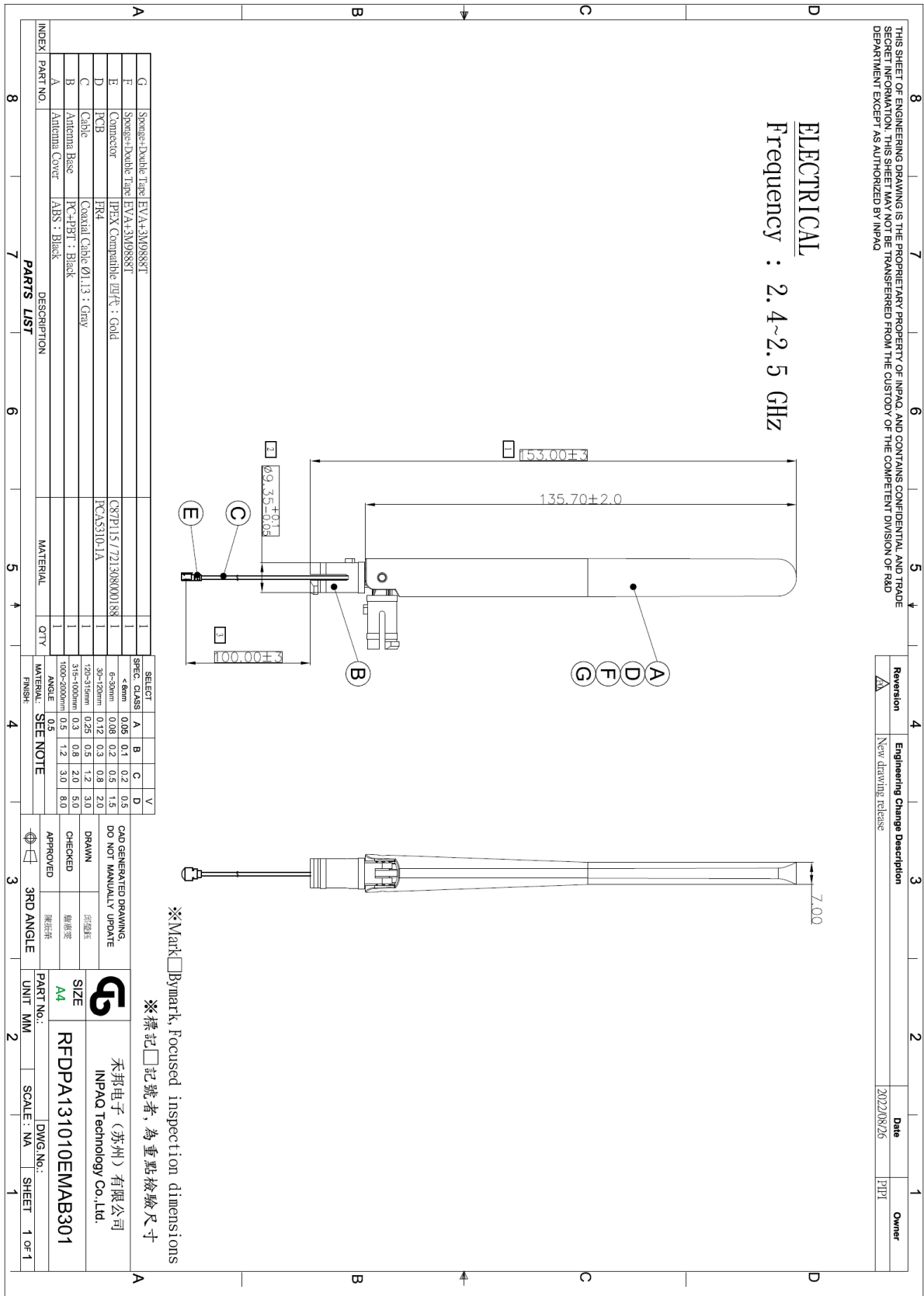
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3. Drawing :



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ANGLES = N/A HOLEDIA = N/A



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SCALE : N/A

UNIT : mm

DRAWN BY : 邱發鈺

CHECKED BY : 詹惠愛

DESIGNED BY : 黃瑞郎

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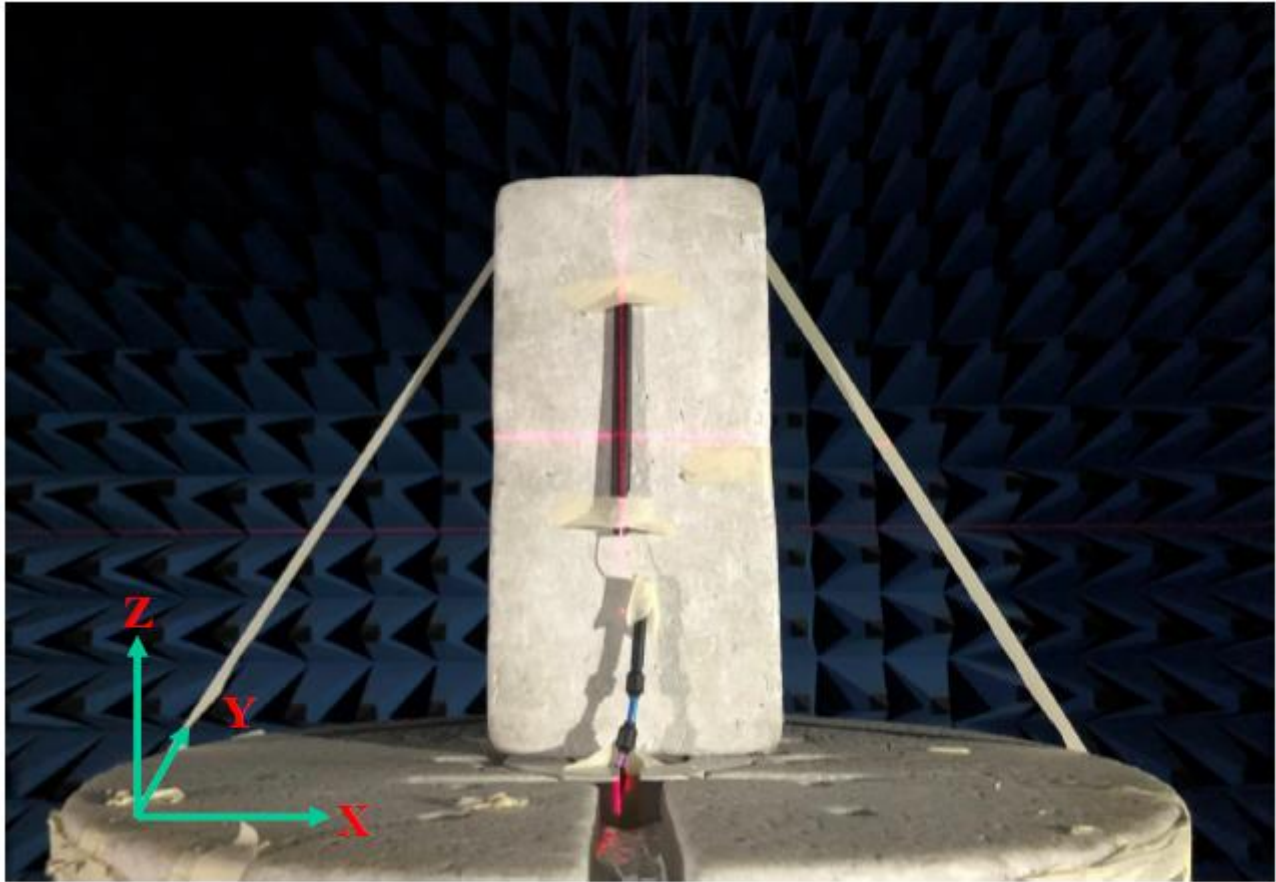
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4. Performance Report :

Test Report

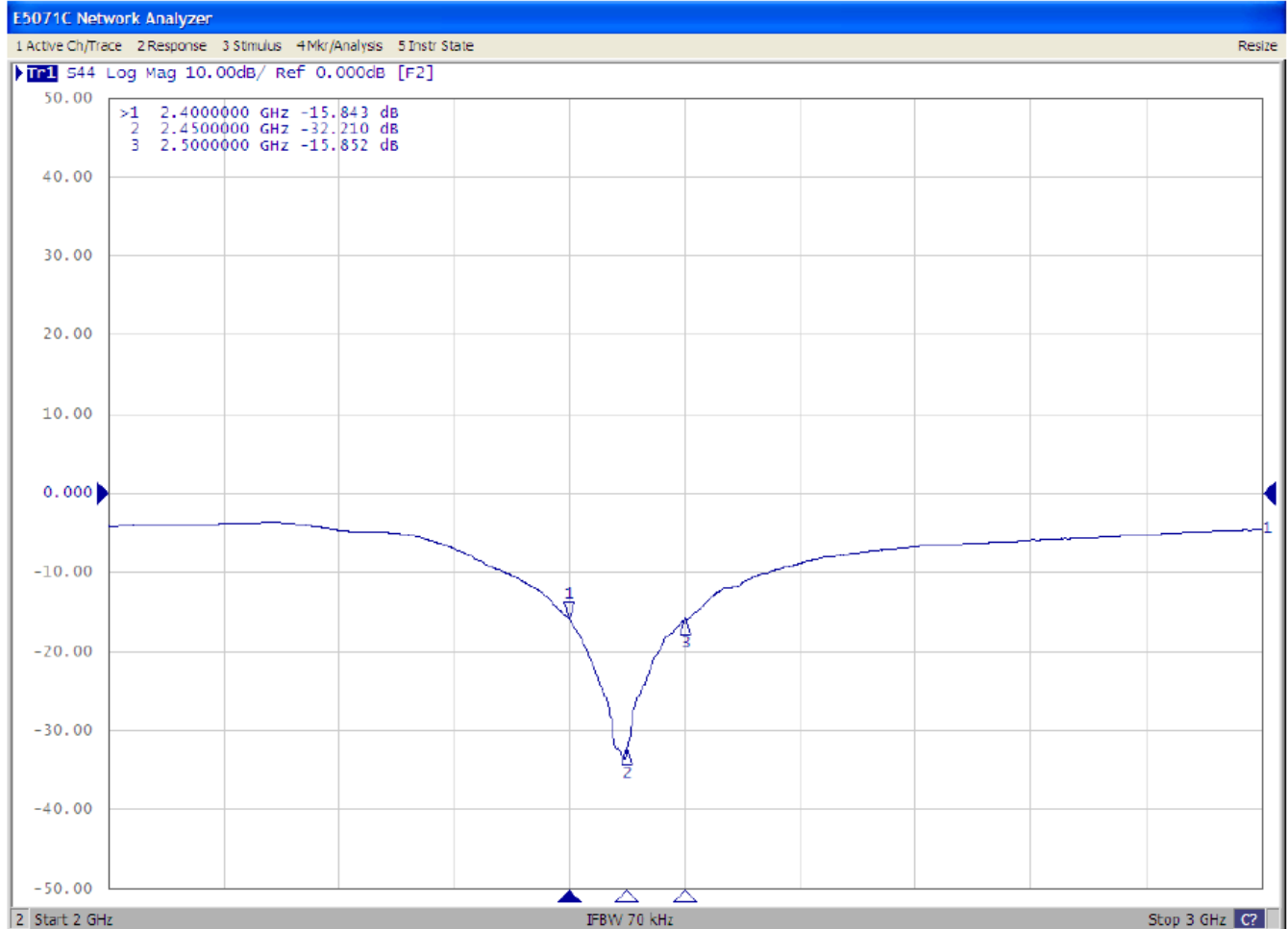
■ Experimental Setup



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SCALE : N/A	UNIT : mm				
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ELECTRICAL CHARACTERISTICS

S-Parameter



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UNIT : mm

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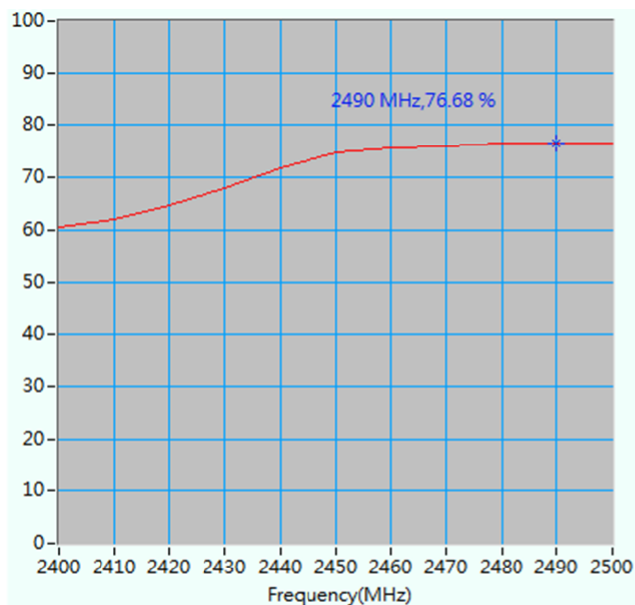
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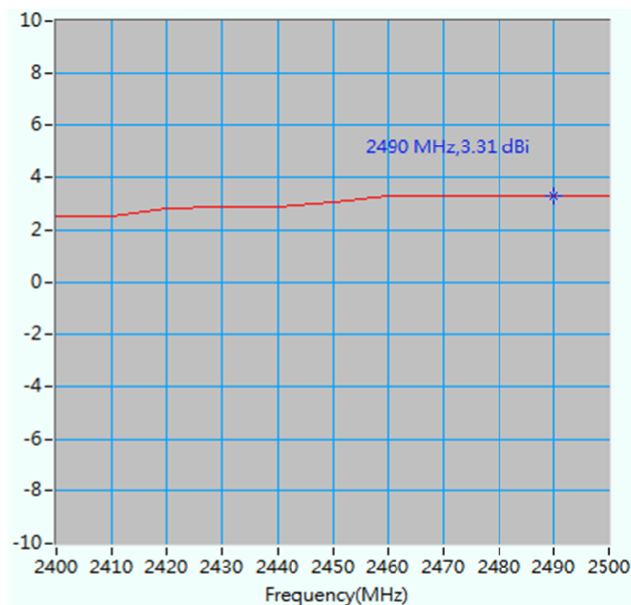
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Antenna Efficiency and Peak Gain



Maximum Efficiency at 2490 MHz : 76.68 %



Maximum Peak Gain at 2490 MHz : 3.31 dBi

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 ANGLES = N/A HOLEDIA = N/A



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Frequency (MHz)	Efficiency (%)	Peak gain (dBi)
2400	60.42	2.50
2450	74.86	3.07
2500	76.55	3.30

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



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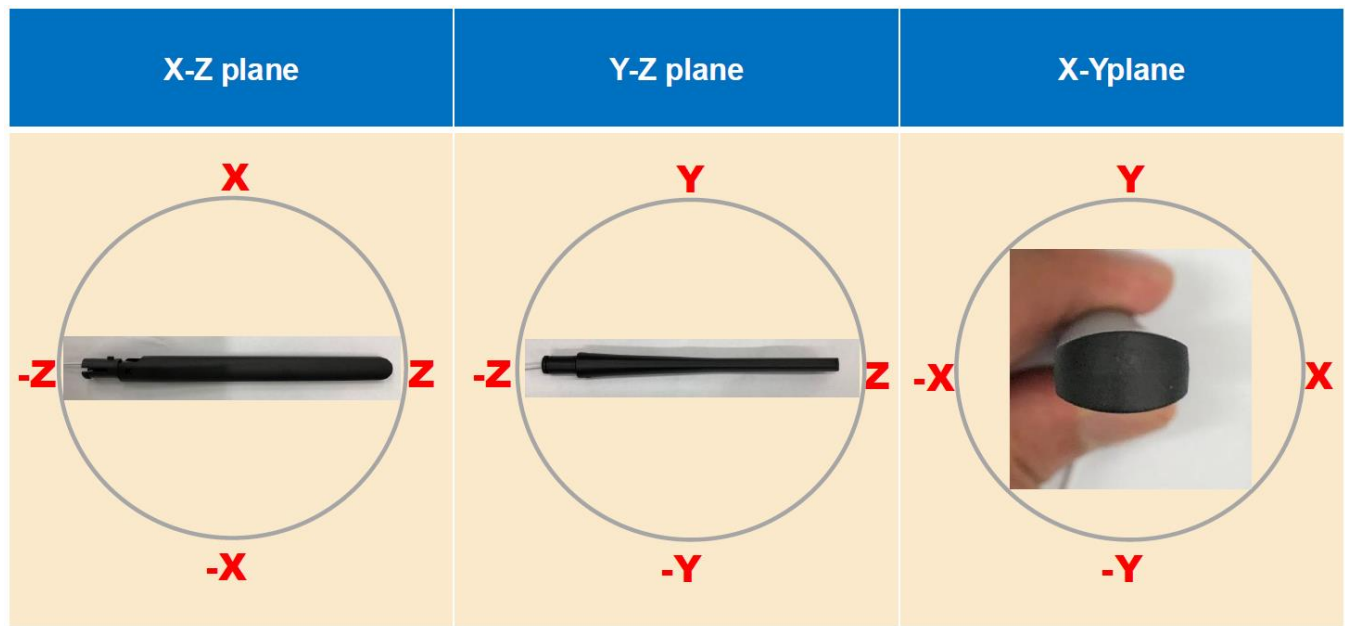
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■ 3 Views of antenna



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



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SCALE : N/A

UNIT : mm

DRAWN BY : 邱瑩鈺

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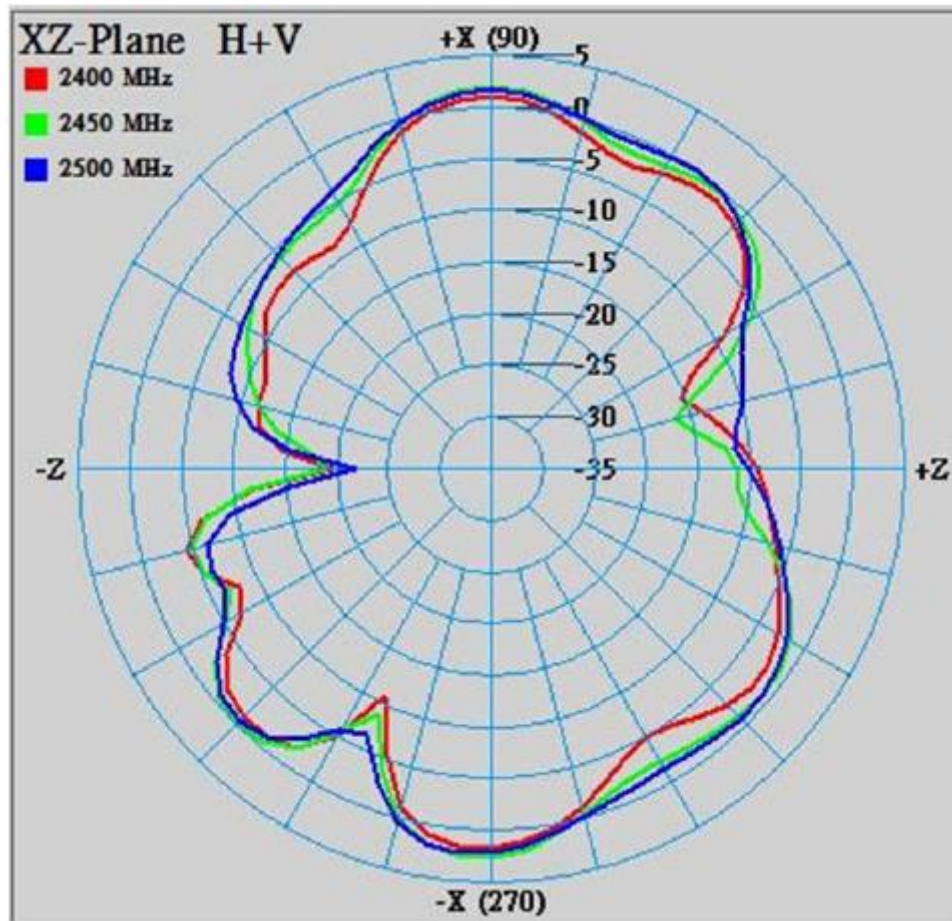
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RADIATION PATTERN

X-Z Plane

Phi=0.00deg

Gain . dB



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ANGLES = N/A HOLEDIA = N/A



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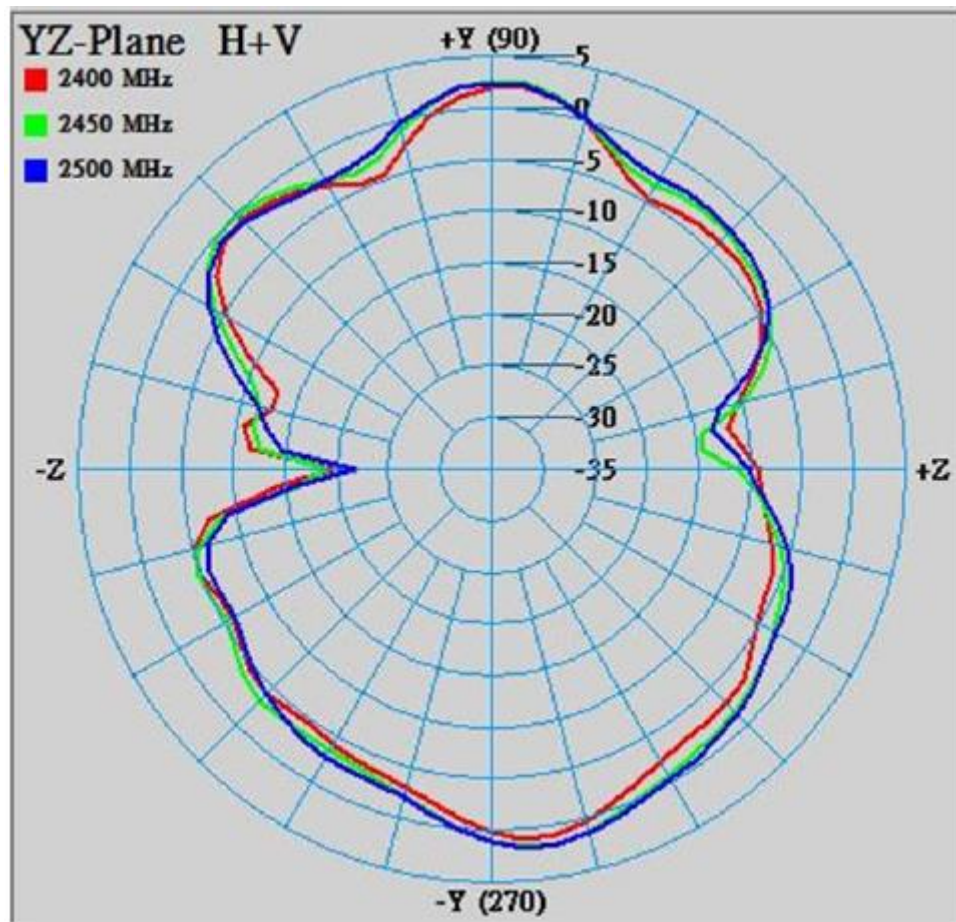
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SPEC REV.
P0

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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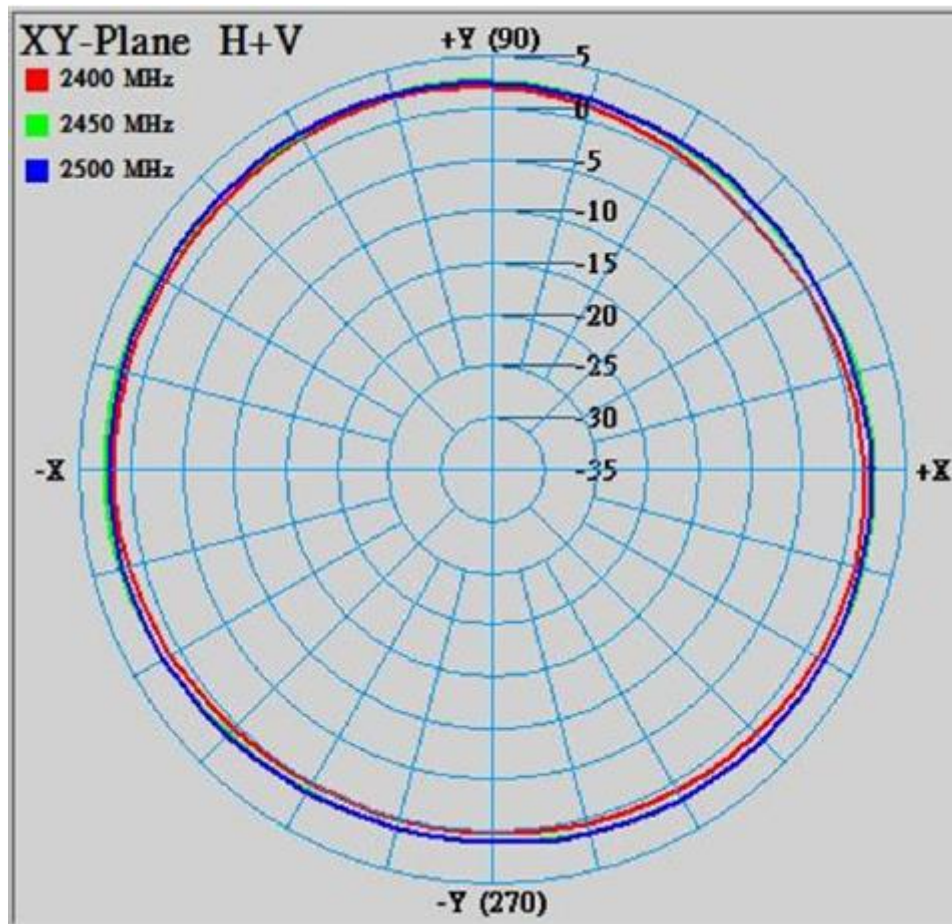
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X-Y Plane

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	1.72	-3.35	2.14	-3.16	2.23	1.06
2450	2.62	-2.36	2.59	-2.34	2.66	1.84
2500	2.33	-2.26	2.37	-2.27	2.59	1.79

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