

ANTENNA SPECIFICATION

1. Explanation of part number :

RF	FPA	2715	04	E	M	A	B	1	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	FPA Antenna	Per 2 digits of length, width e.g.: 2715 Length 25.6mm, Width 15mm	2 digits for cable length e.g.: 04 Length 4cm	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 R:902~928 MHz N: NFC T: LTE band U:430~470 MHz 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)
VSWR	< 2
Impedance	50 Ohm Nominal
Radiation	Omni-directional
Polarization	Linear Vertical
Operation Temperature	-20° C ~ +65° C

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 : 李欣樺

CHECKED BY : 詹惠雯

DESIGNED BY : 黃瑞郎

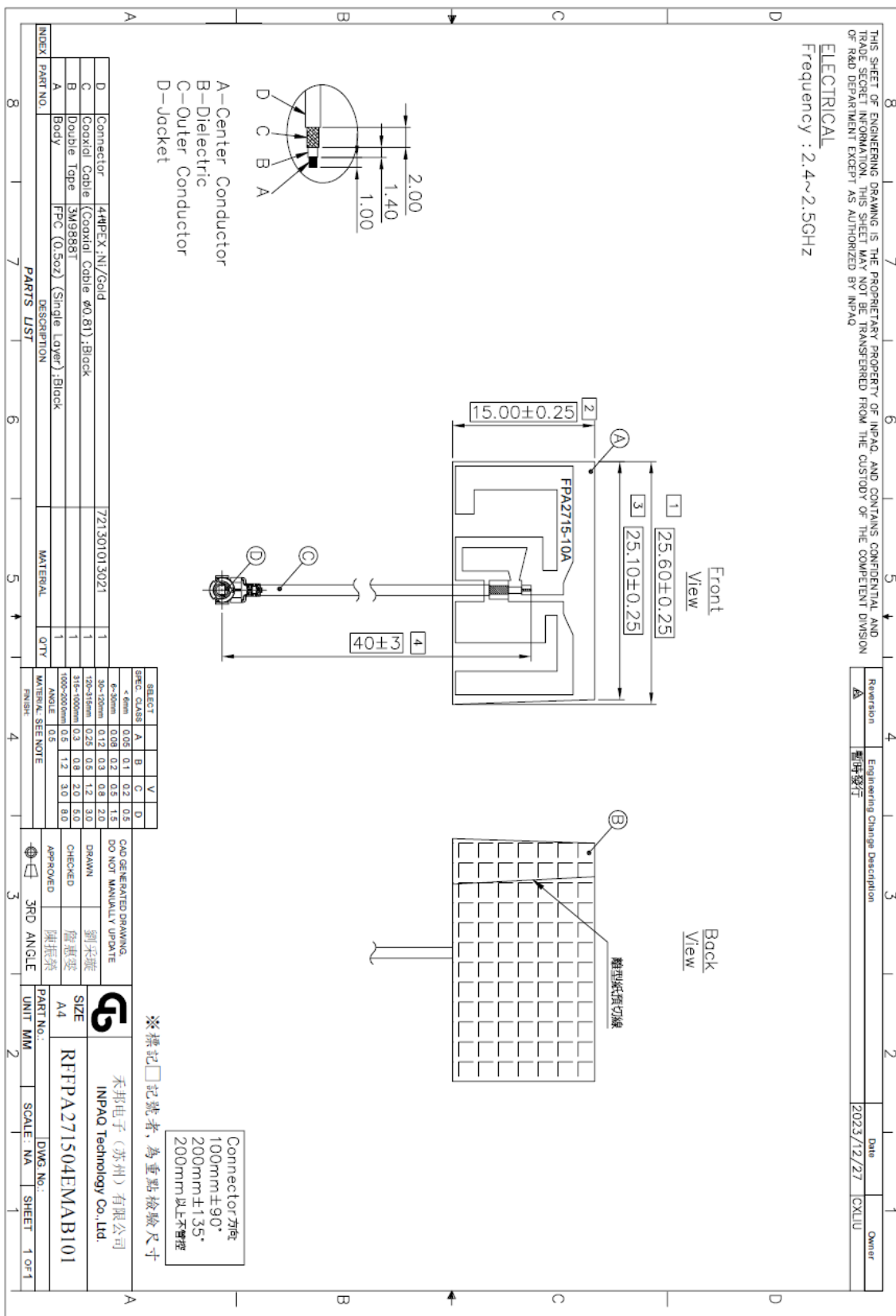
APPROVED BY : 陳振榮

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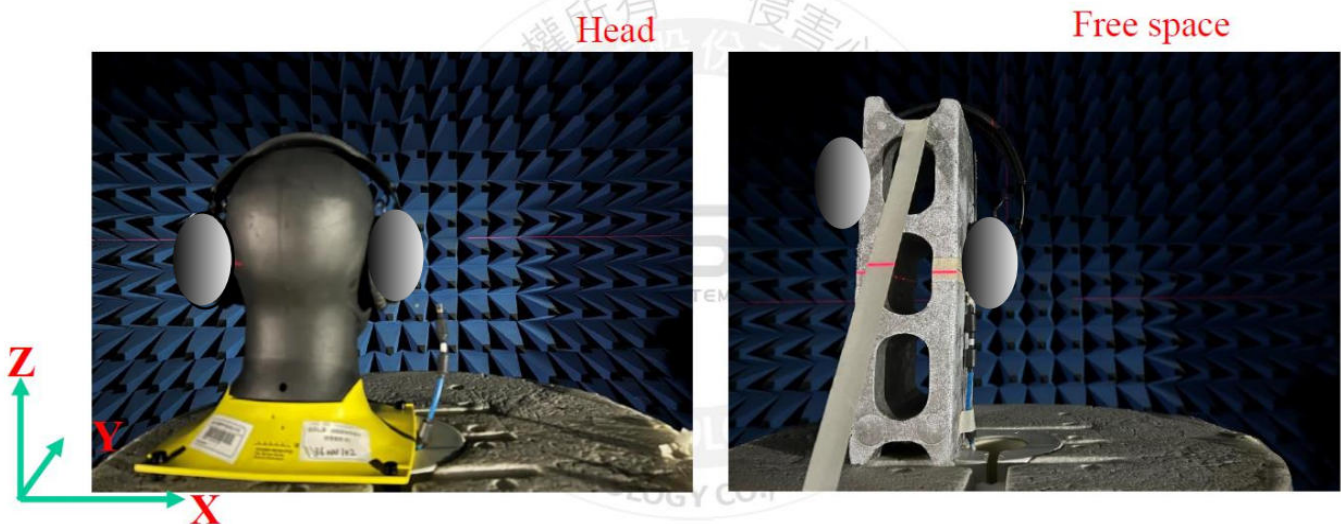
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3. Antenna Drawing :



4. Performance Report :

■ Experimental Setup

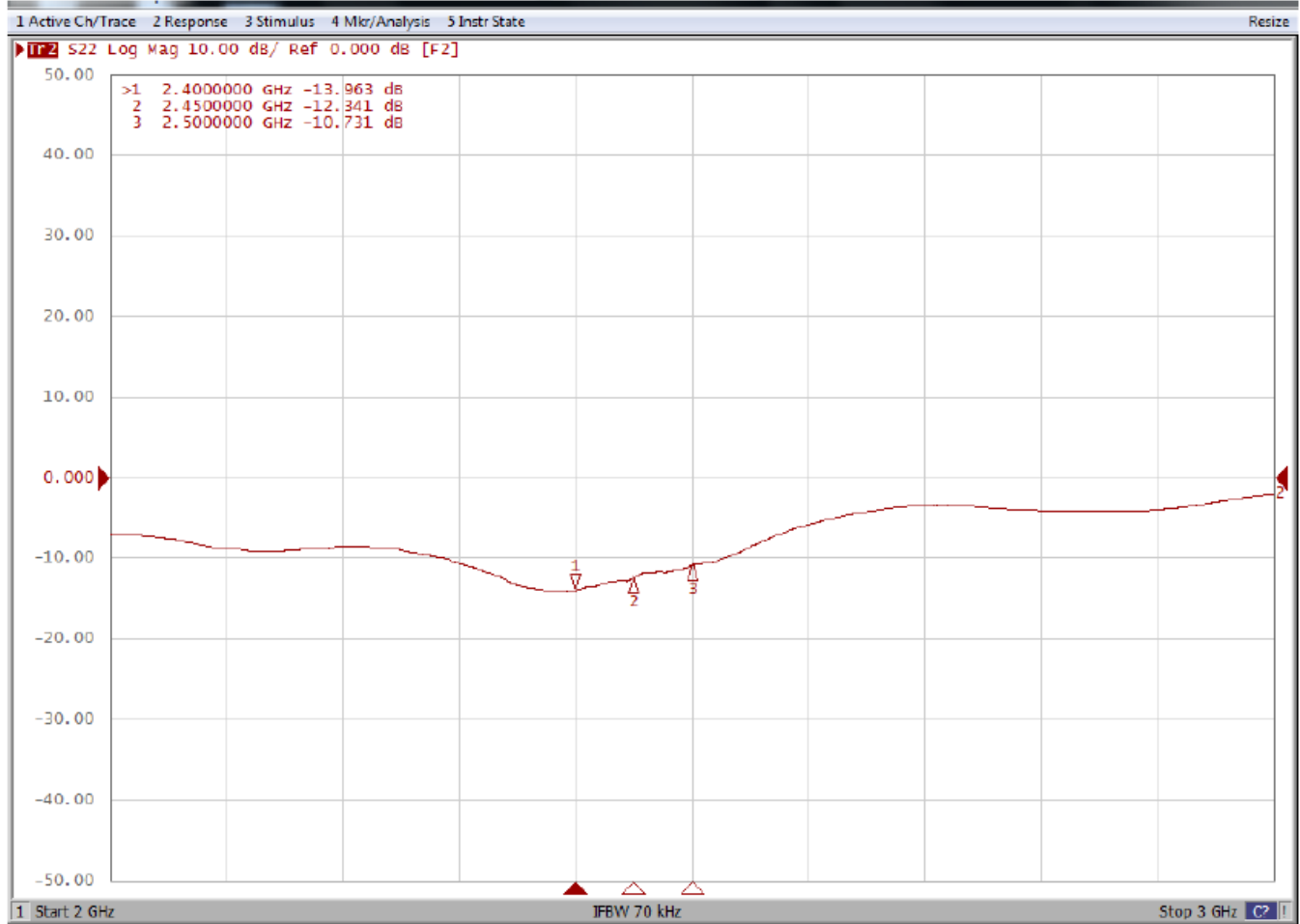


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ELECTRICAL CHARACTERISTICS

Free space

Return Loss



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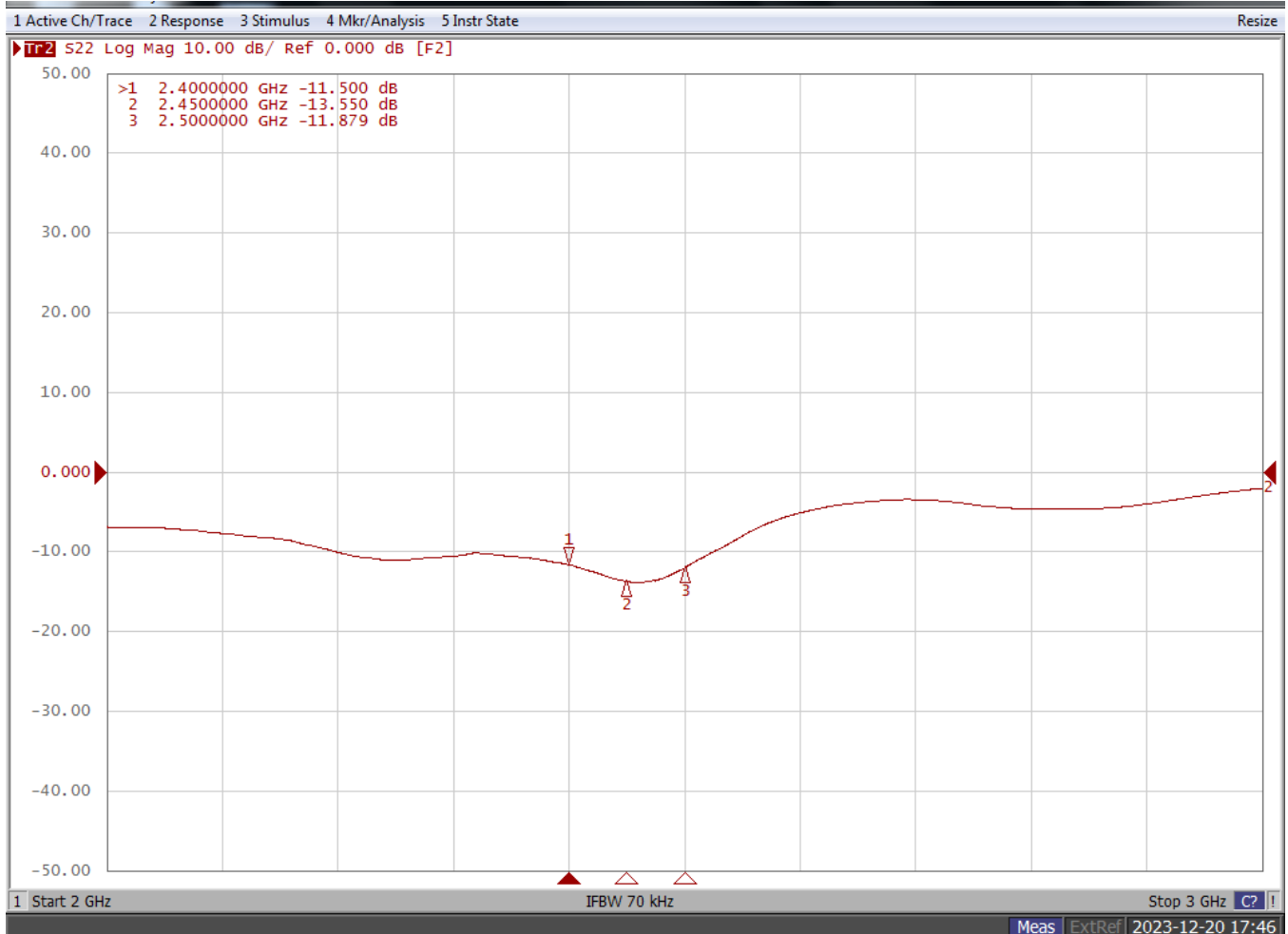
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Head



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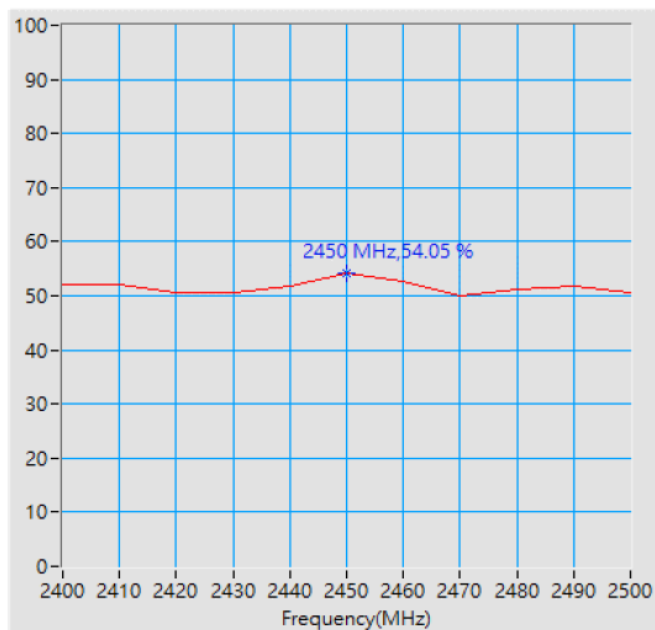
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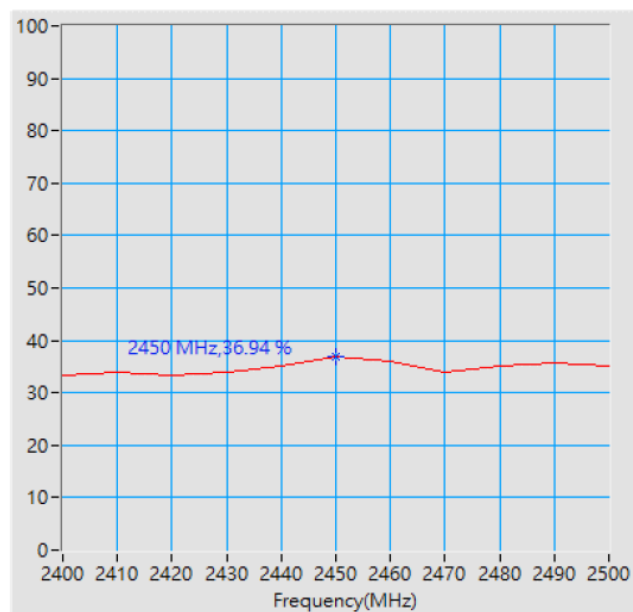
Antenna Efficiency and Peak Gain

Free space



Maximum Efficiency at 2450 MHz : 54.05 %

Head



Maximum Efficiency at 2450 MHz : 36.94 %

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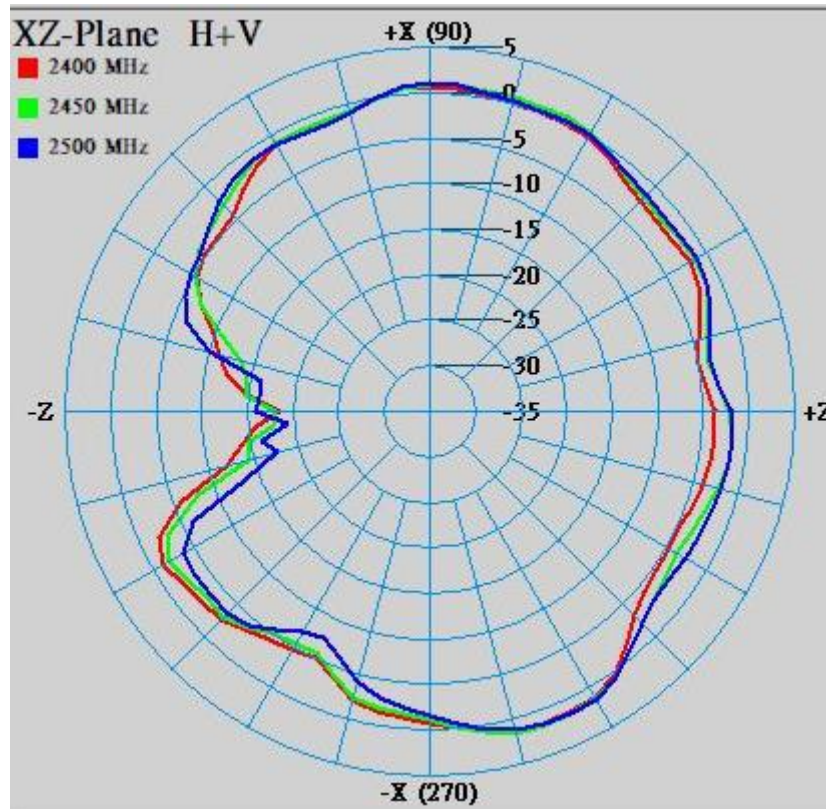
Radiation Patterns

Free space

X-Z Plane

Phi=0.00deg

Gain . dB



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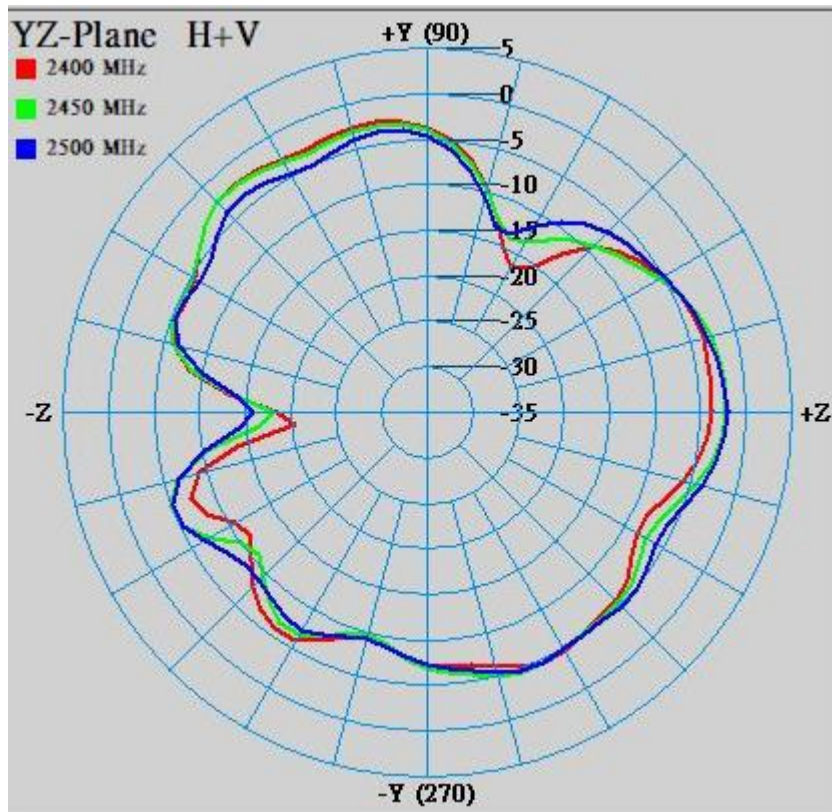
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Y-Z Plane

Phi=90.00deg

Gain . dB



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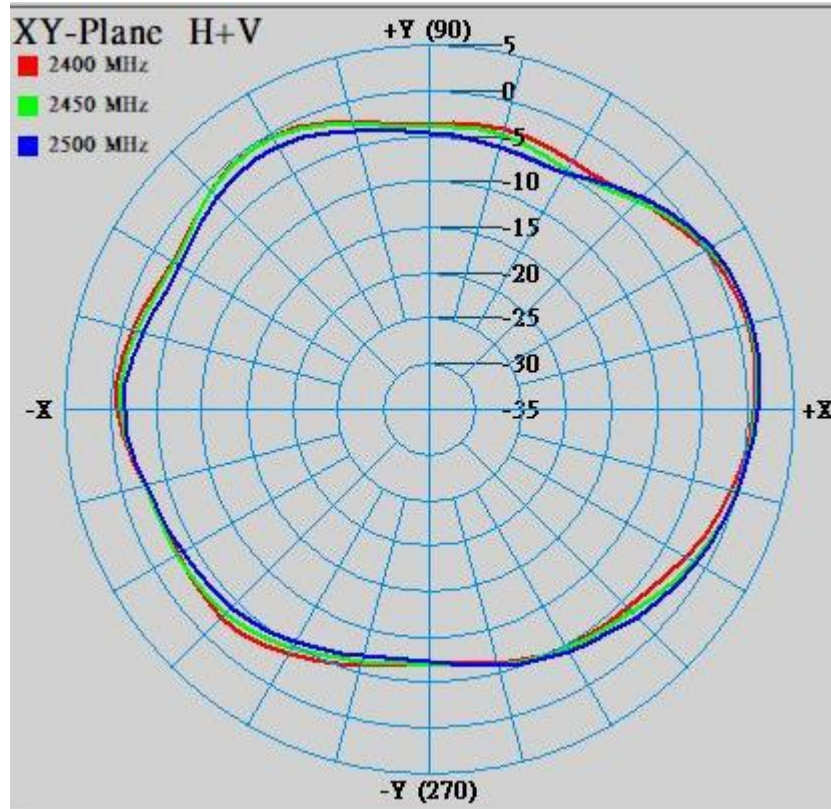
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X-Y Plane

Theta=90.00deg

Gain . dB



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	1.51	-2.28	-2.20	-5.93	1.12	-2.20
2450	1.74	-1.94	-2.19	-5.59	1.49	-2.17
2500	1.65	-2.04	-2.14	-5.80	1.62	-2.38

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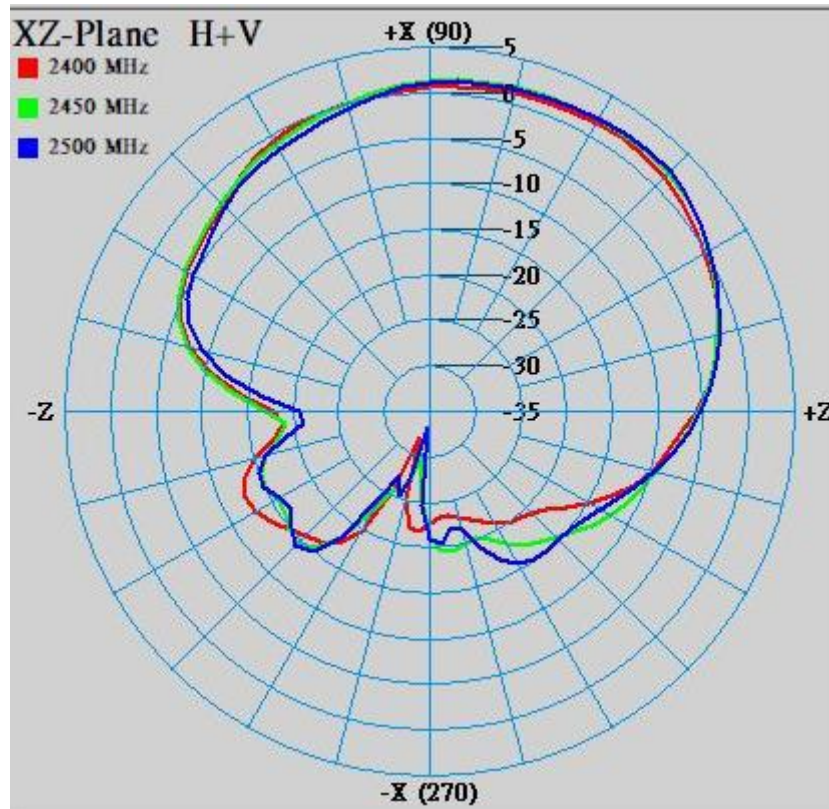
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Head

X-Z Plane

Phi=0.00deg

Gain . dB



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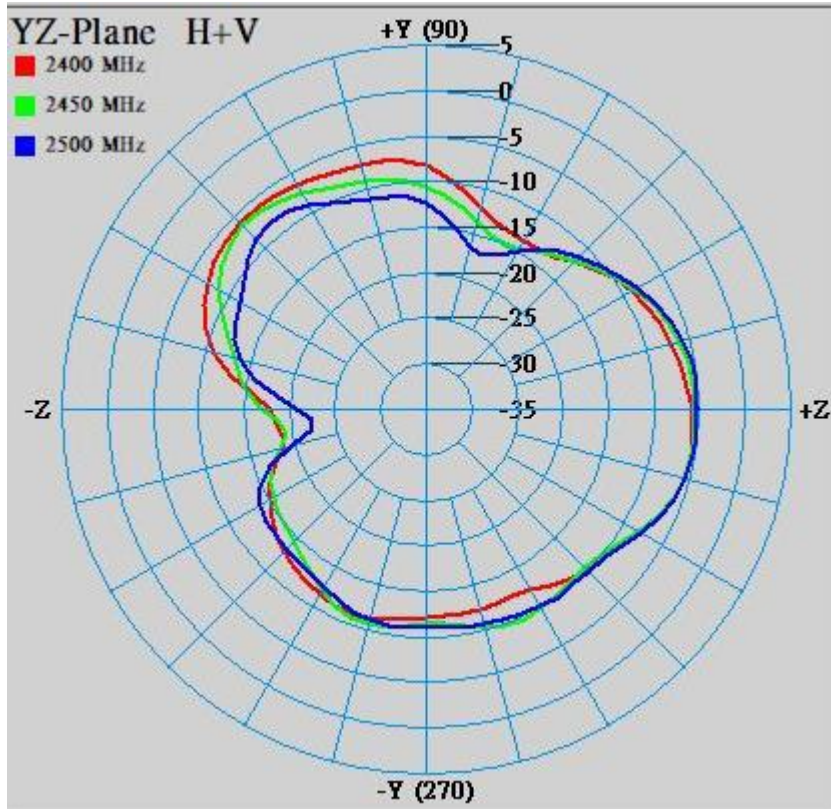
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Y-Z Plane

Phi=90.00deg

Gain . dB



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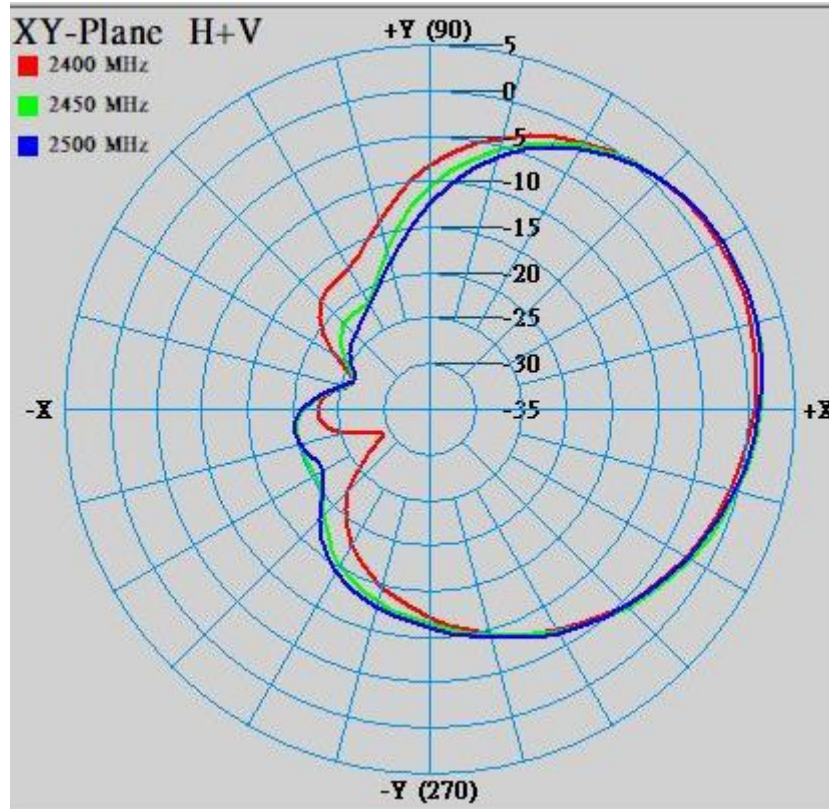
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X-Y Plane

Theta=90.00deg

Gain . dB



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	1.63	-3.68	-5.51	-9.34	1.67	-4.40
2450	2.16	-3.28	-5.47	-9.63	2.22	-4.07
2500	2.33	-3.49	-5.23	-10.01	2.17	-4.23

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