品名：**RFMTA252009IMAB301**

History List

版本 REV.	修訂者 EDITOR	修訂頁次 PAGE	修訂內容 ITEMS OF CHANGE	申請日期 DATE	生效日期 VALID DATE	ECN 編號 ECN NO.
P0	李欣樺	ALL	Temporary Release	2020/10/14	According to the date of PLM Release	N/A
P1	李欣樺	1	增加Operation Temperature	2020/11/03	According to the date of PLM Release	N/A

品名：RFMTA252009IMAB301

1. Explanation of part number：

RF	MTA	2520	09	I	M	A	B	3	01
Type Code	**Product Code**	**Metal Dimension (Unit: mm)**	**Cable Length (unit: cm)**	**Connector Brand**	**Type of Connector**	**Application**	**Project status**	**Wire Diameter**	**Project**
RF Device	Metal Antenna	Per 2 digits of length, width e.g.:2520 Length 25mm, Width 25mm	2 digits for cable length e.g.: 09 Length 9cm	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 GHz
Return Loss	-10dB(Max)
VSWR	2 max.
Peak Gain	4.26 dBi
Polarization	Linear Vertical
Radiation Pattern	Directional
Impedance	50Ω
Operation Temperature	－55℃ ～ ＋100℃

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.	
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DESIGNED BY： 黃瑞郎	APPROVED BY：陳振榮		
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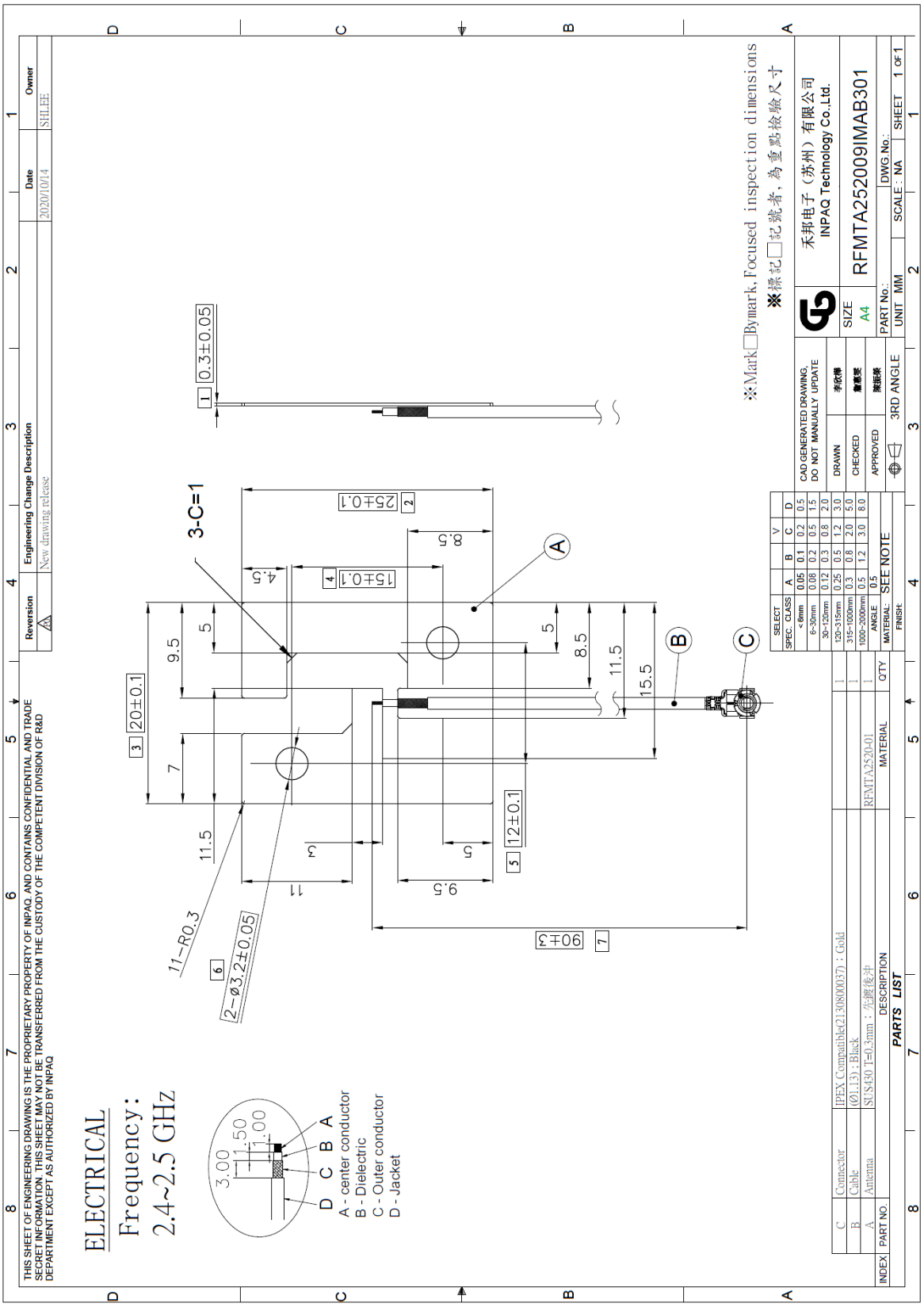
3. Antenna Drawing：



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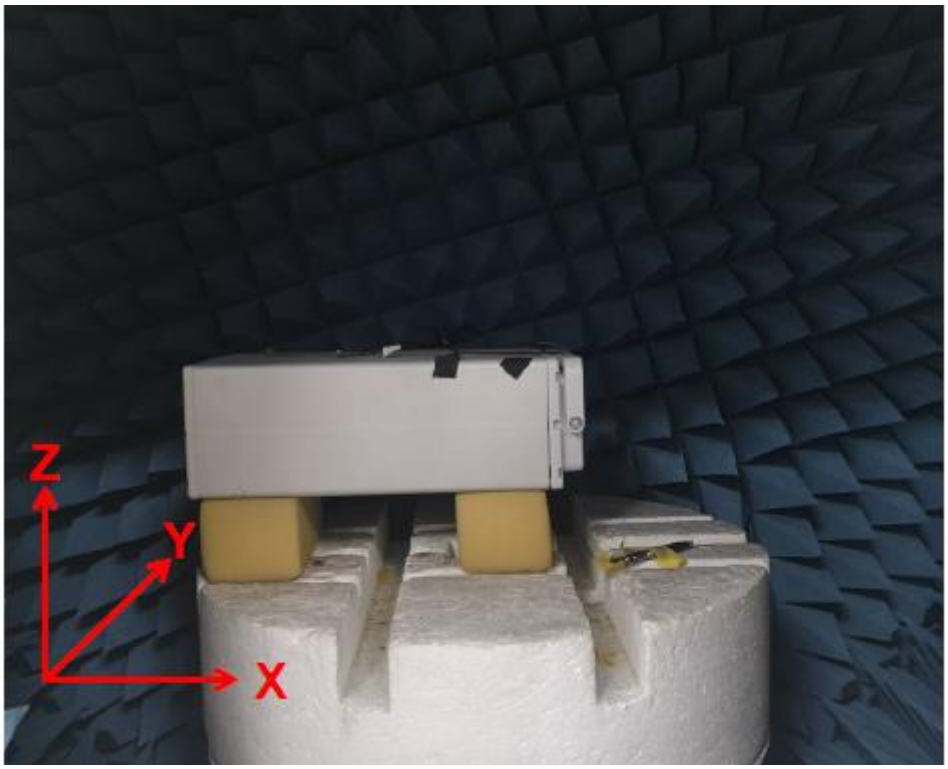
4. Performance Report：

Test Report

■ Experimental Setup



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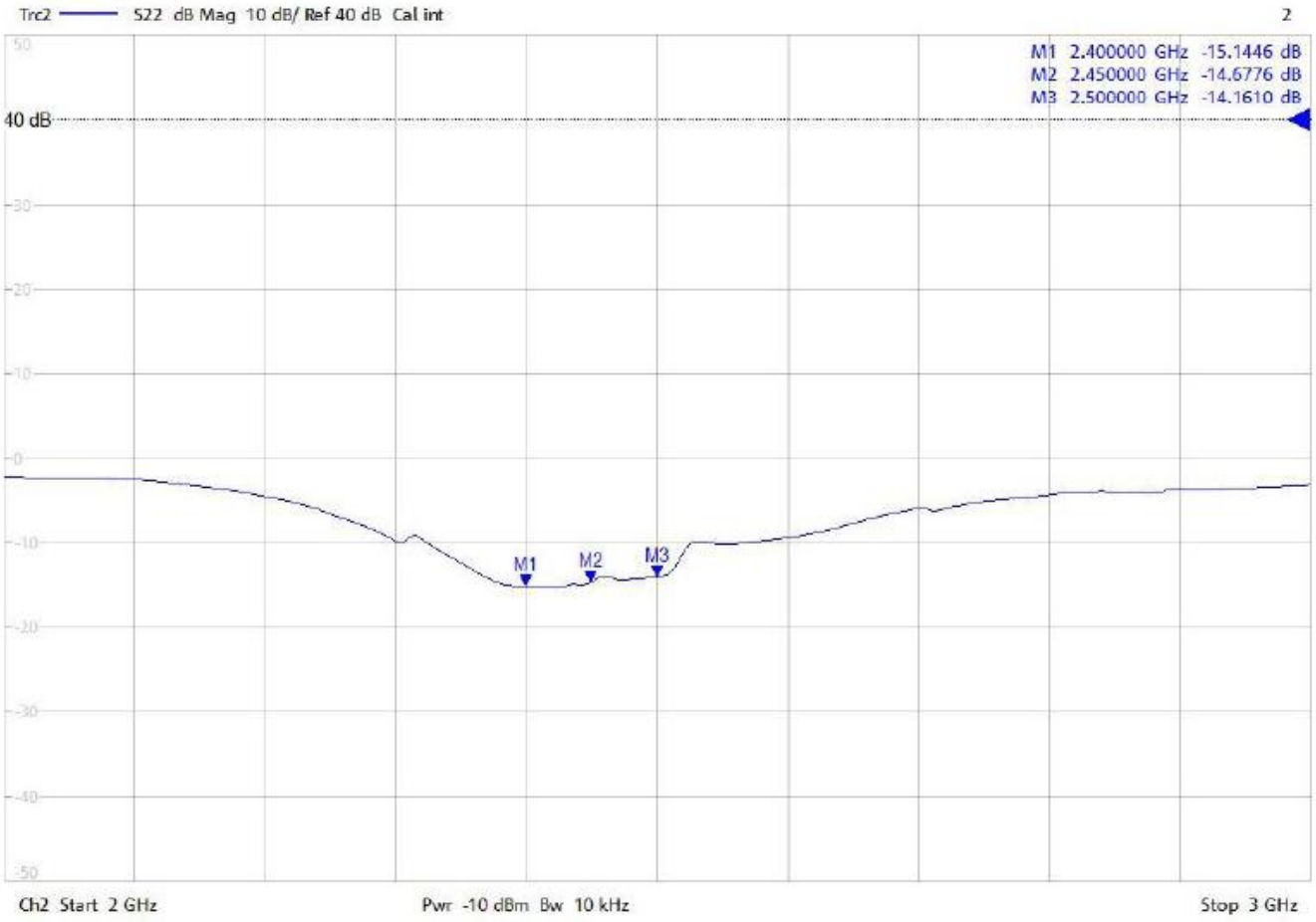
ELECTRICAL CHARACTERISTICS

Return Loss



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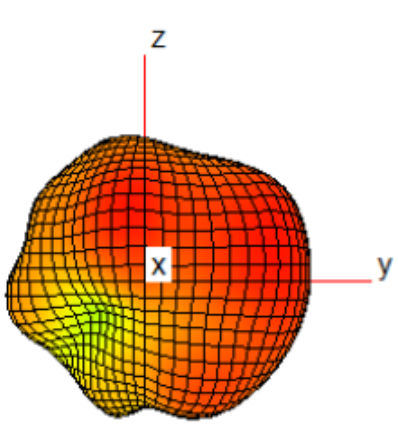
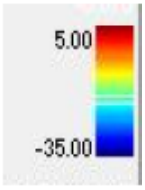
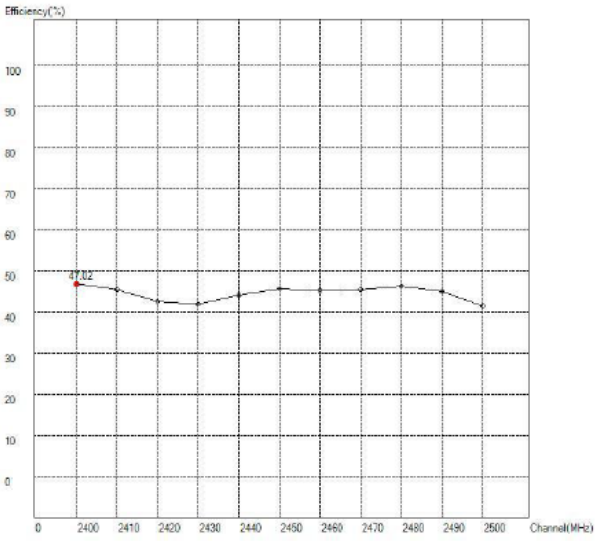
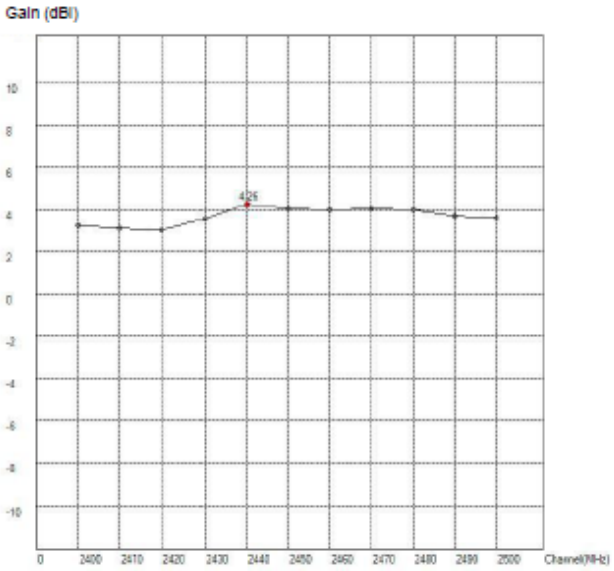
Antenna Efficiency and Peak Gain

2450 MHz









Maximum Efficiency at 2400MHz :47.02 %

Maximum Peak Gain at 2440 MHz : 4.26 dBi

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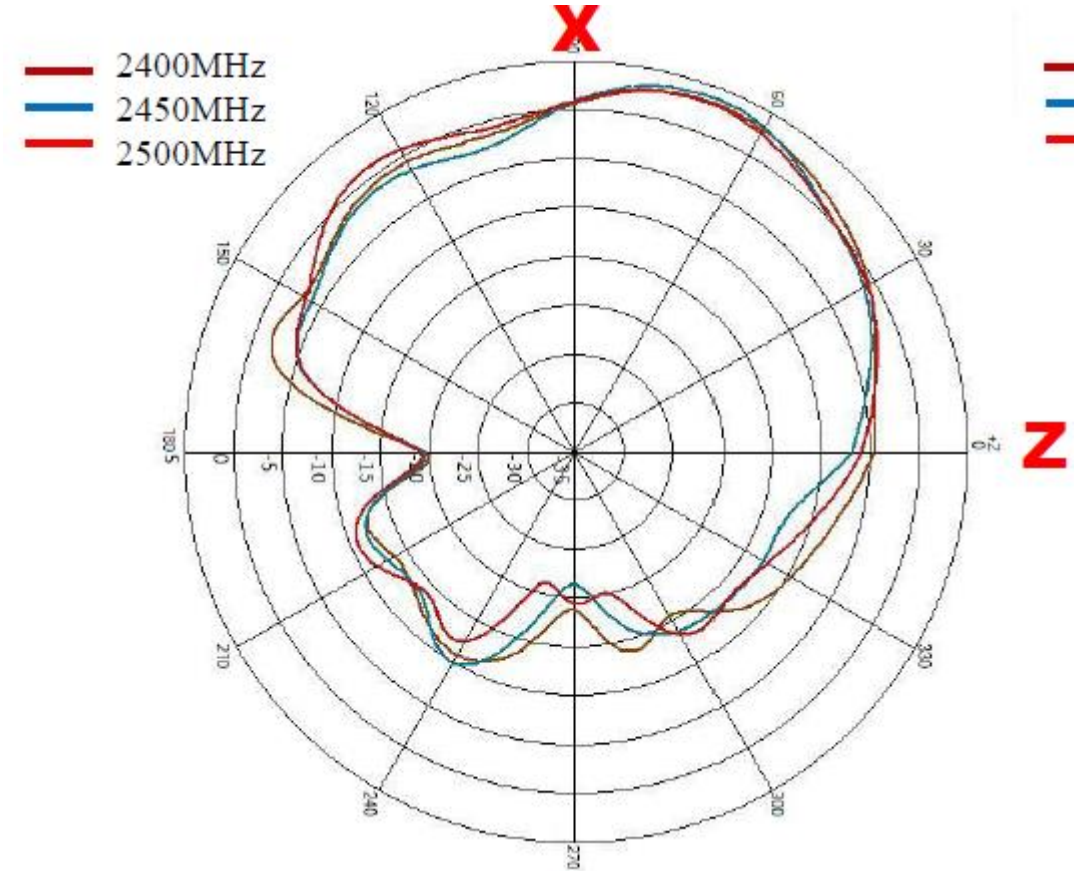
RADIATION PATTERN

2400~2500 MHz

X-Z Plane

Phi=0.00deg

Gain . dB



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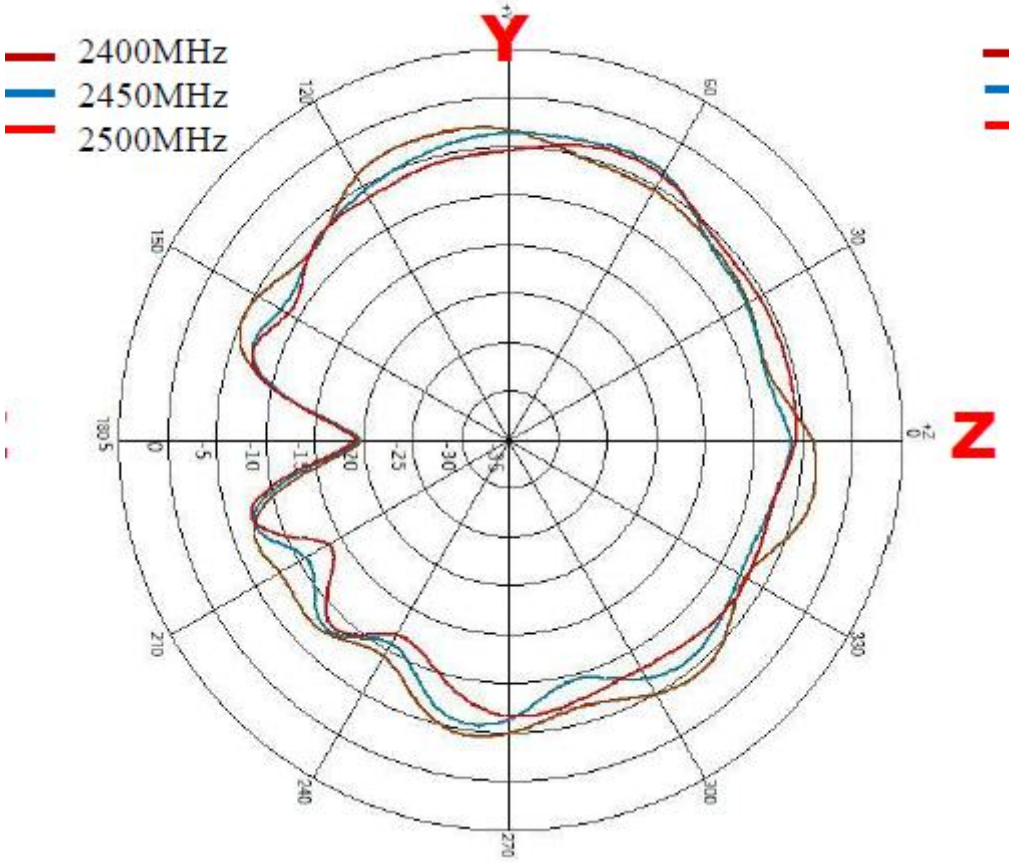
Y-Z Plane

Phi=90.00deg

Gain . dB



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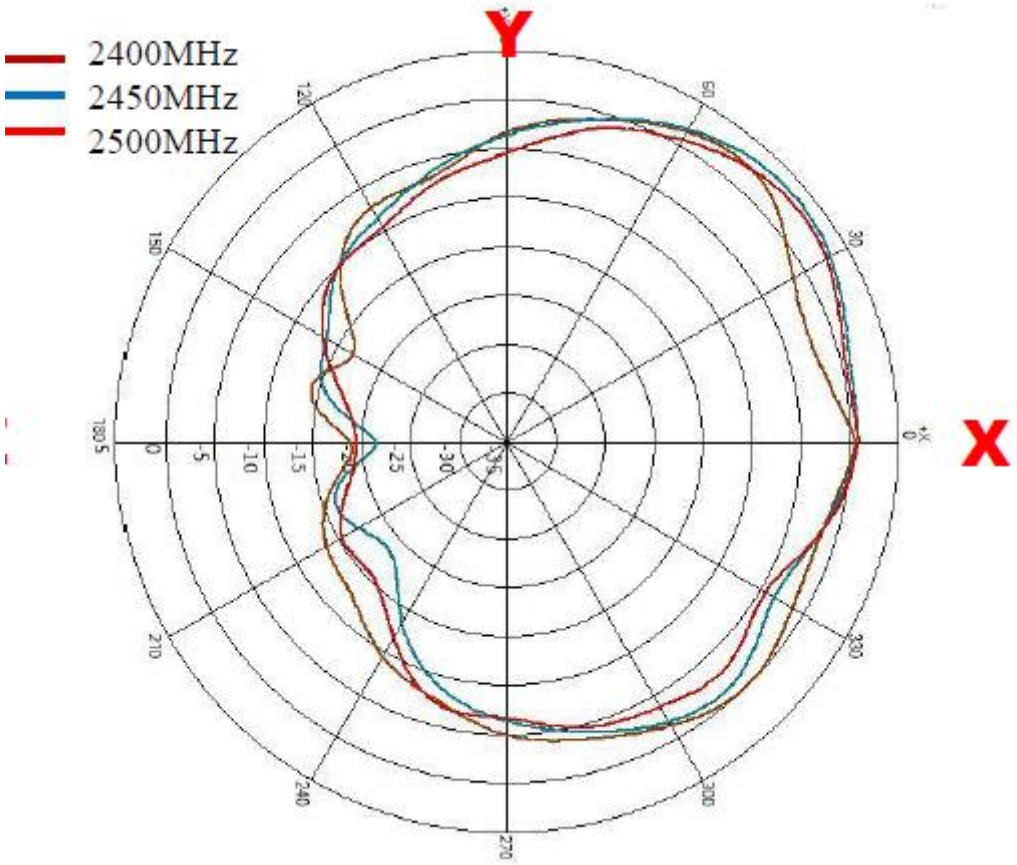
X-Y Plane

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	3.27	-2.68	-2.71	-5.45	2.34	-2.96
2450	3.76	-3.09	-3.18	-6.39	3.75	-2.34
2500	3.22	-2.76	-3.59	-6.61	2.93	-3.03

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