APPROVAL SHEET

Dipole ANTENNA

2.4~2.5/5.15~5.85GHz Working Frequency

Halogens Free Product

P/N: RFDPA161500SBLB813

Customer：	建漢
Customer ‘s Part No.：	2365-23100006R
Production：	
Address：	NO.11, KE-YI ST., CHUNAN TOWN, MIAOLI COUNTY 350402, TAIWAN, R.O.C.

Part Number：RFDPA161500SBLB813

History List

REV.	EDITOR	PAGE	ITEMS OF CHANGE	DATE	VALID DATE	ECN NO.
P0	CXLIU	ALL	Temporary Release	2025/03/25	According to the date of PLM Release	N/A
P1	CXLIU	ALL	刪除Gain table	2025/12/17	According to the date of PLM Release	N/A

品名：RFDPA161500SBLB813

1. Explanation of part number：

RF	DPA	1615	00	S	B	L	B	8	13
Type Code	**Product Code**	**Dipole Dimension (Unit: mm)**	**Cable Length (unit: cm)**	**Connector Brand**	**Type of Connector**	**Application**	**Project status**	**Wire Diameter**	**Project**
Walsin RF Device	DPA: Dipole Antenna	Per 2 digits of length, width e.g.: 1615 Length 196.55mm, Width ϕ 13.0mm	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: 2.4/5.2/5.8 GHz tri-band **N: NFC** **T:LTE band** **W: WCDMA band**	B: MP **T:During Test** X: Pile Run	0:None 1:∅0.81 3:∅1.13 6:RG316 7:∅1.37 8:RG178	01~99 series number

2. Electrical Specification：

Item	Specification
Working Frequency Range	2.4~2.5/5.15~5.85GHz
Peak Gain	2.4 ~ 2.5 GHz：5.20 dBi 5.15 ~ 5.85GHz：7.18 dBi
Return Loss	-10dB(Max)
VSWR	2 max.
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω
Operation Temperature	－20℃ ～ ＋65℃

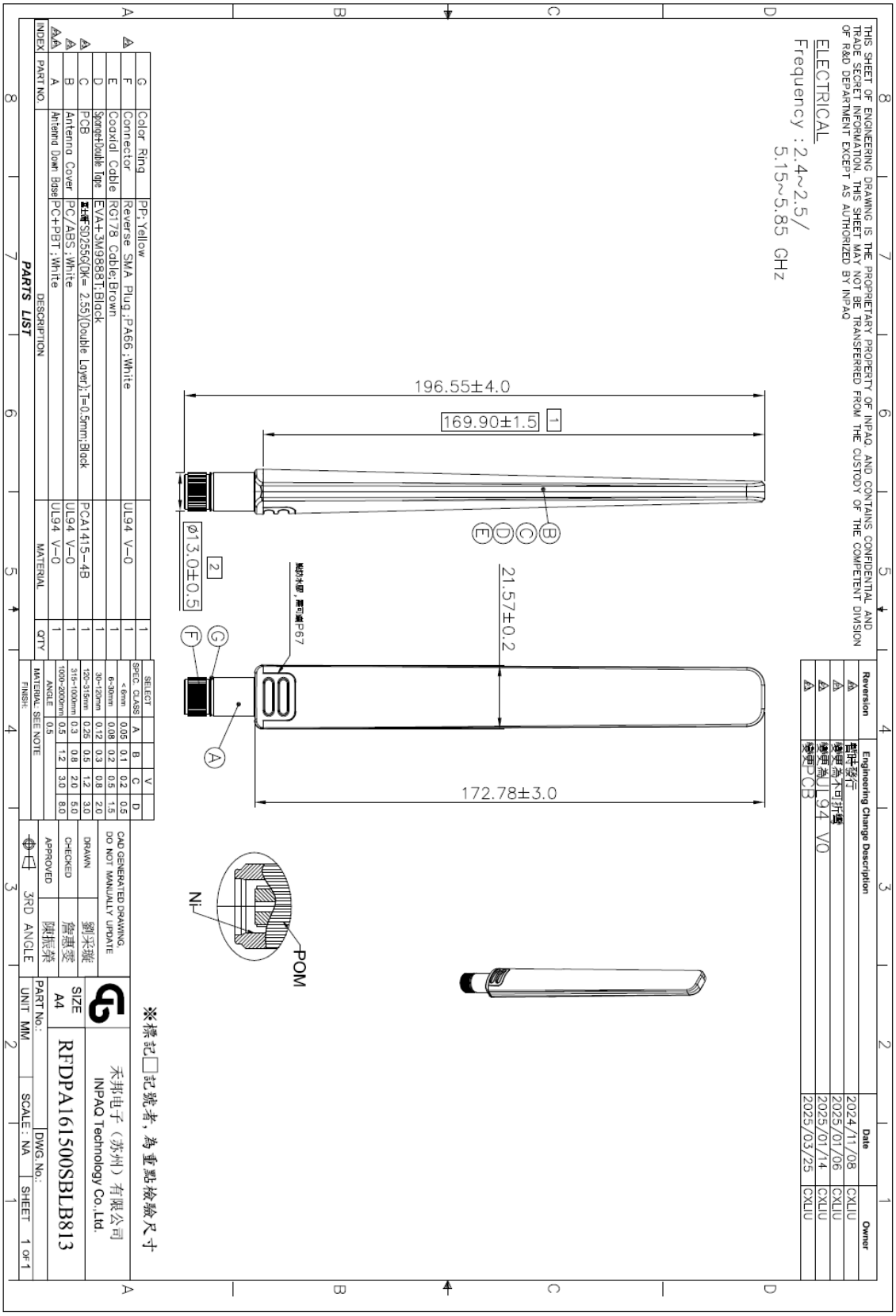
UNLESS OTHER SPECIFIED TOLERANCES ON：
X＝N/A X.X＝N/A X.XX＝N/A
ANGLES＝N/A HOLEDIA＝N/A

INPAQ TECHNOLOGY CO., LTD.

SCALE：N/A | UNIT：mm
DRAWN BY：劉采璇 | CHECKED BY：詹惠雯
DESIGNED BY：吳金煌 | APPROVED BY：陳振榮

TITLE：RFDPA161500SBLB813 | DOCUMENT NO. | SPEC REV. P1

3. Antenna Drawing：



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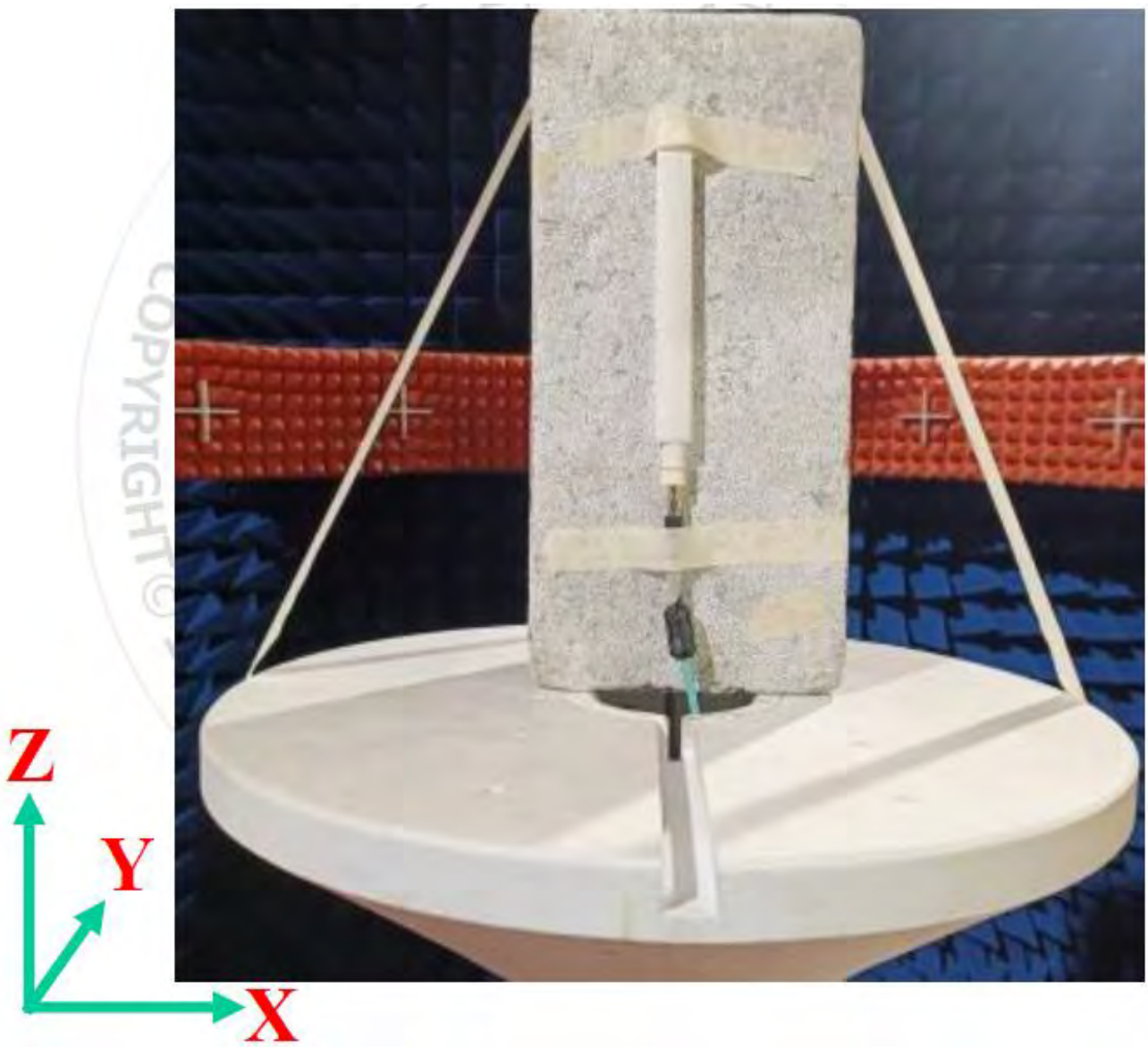
4. Performance Report：

Test Report

■Experimental Setup



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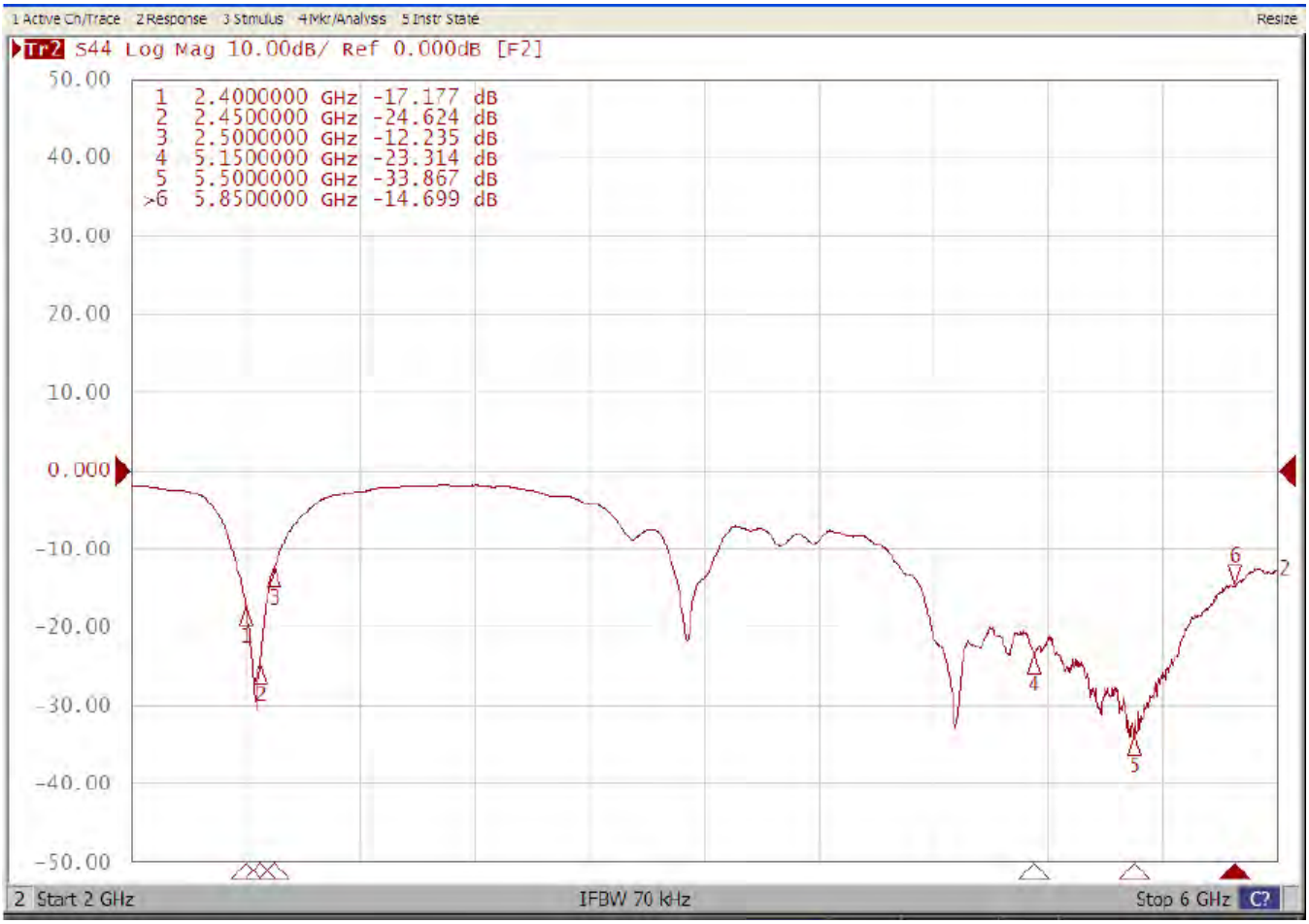
Electrical Characteristics

Return Loss



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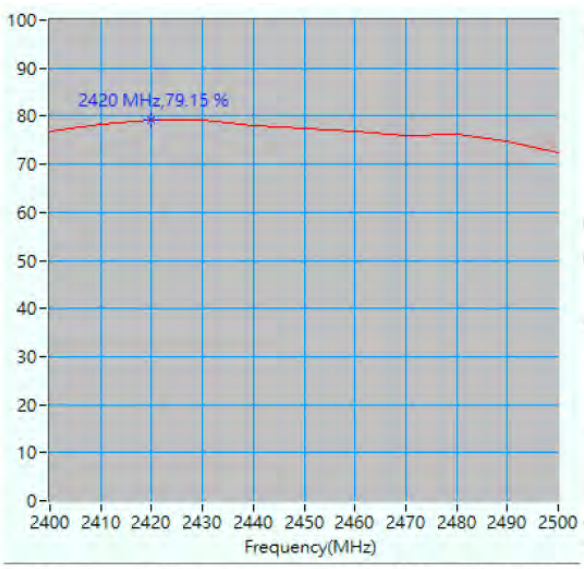
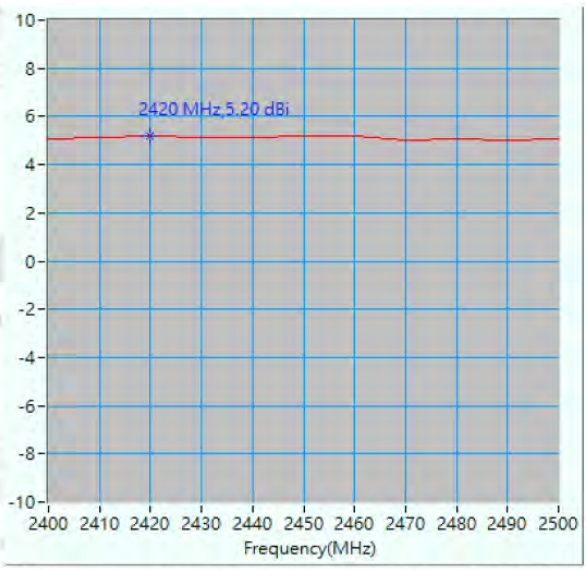
Antenna Efficiency & Peak Gain

2G

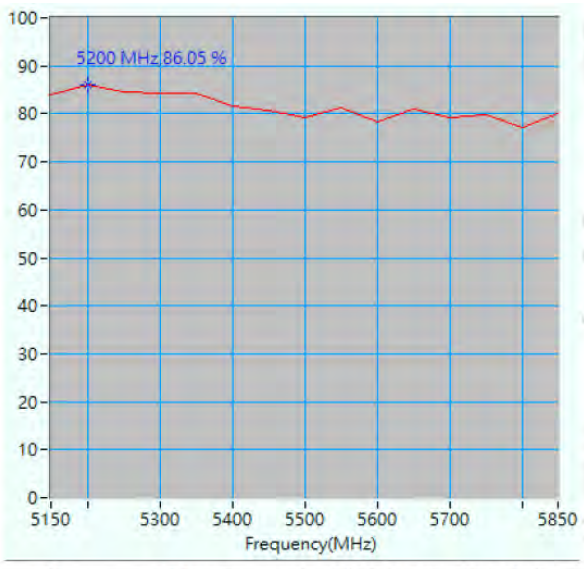


Maximum Efficiency at 2420 MHz : 79.15 %

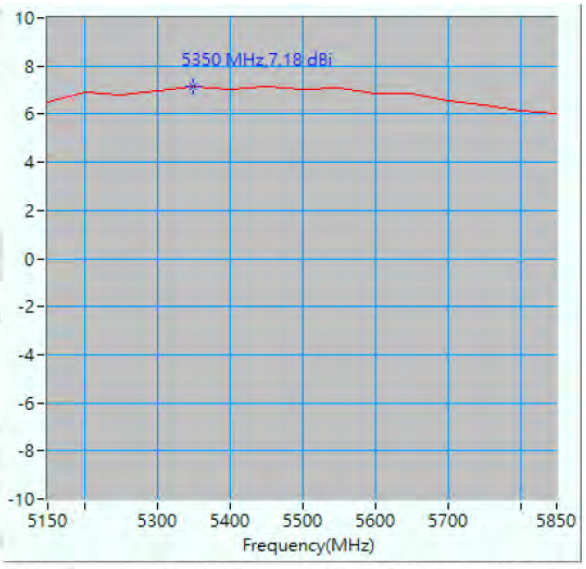


Maximum Peak Gain at 2420 MHz : 5.20 dBi

5G



Maximum Efficiency at 5200 MHz : 86.05 %



Maximum Peak Gain at 5350 MHz : 7.18 dBi

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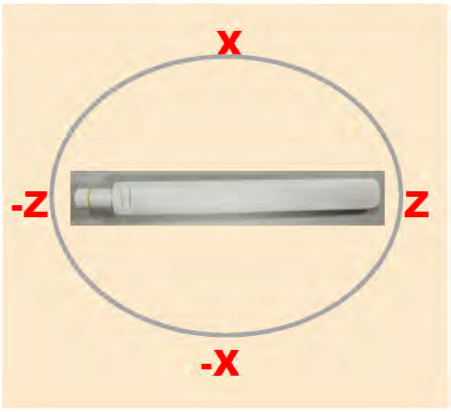
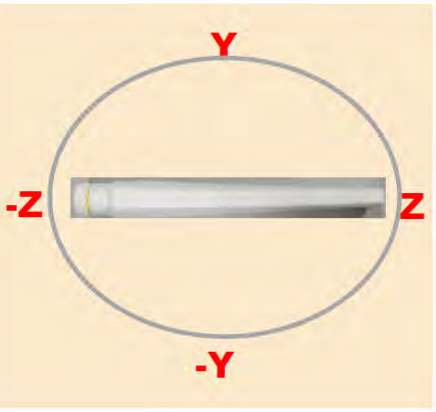
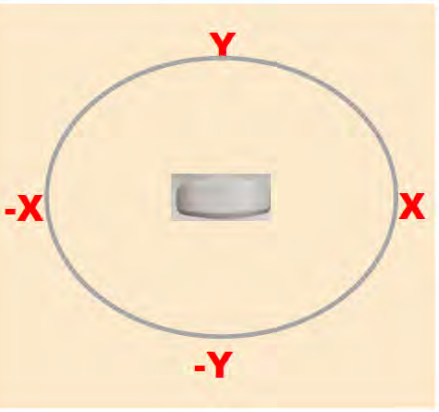
3 Views of Antenna

X-Z plane	Y-Z plane	X-Y plane
		

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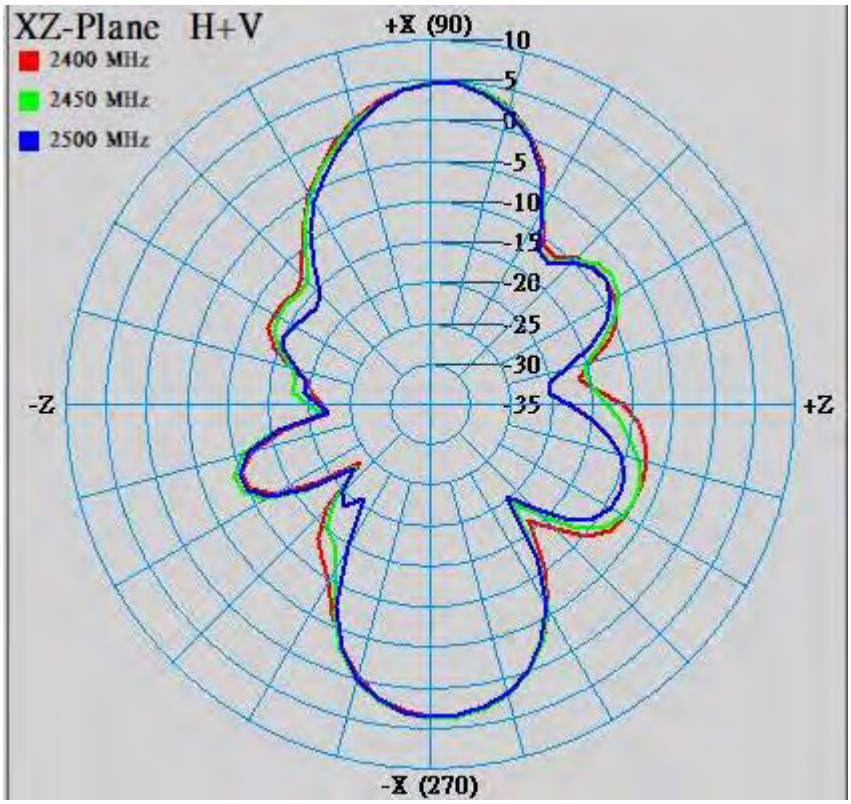
Radiation Pattern

2G

X-Z Plane

Phi=0.00deg

Gain . dB



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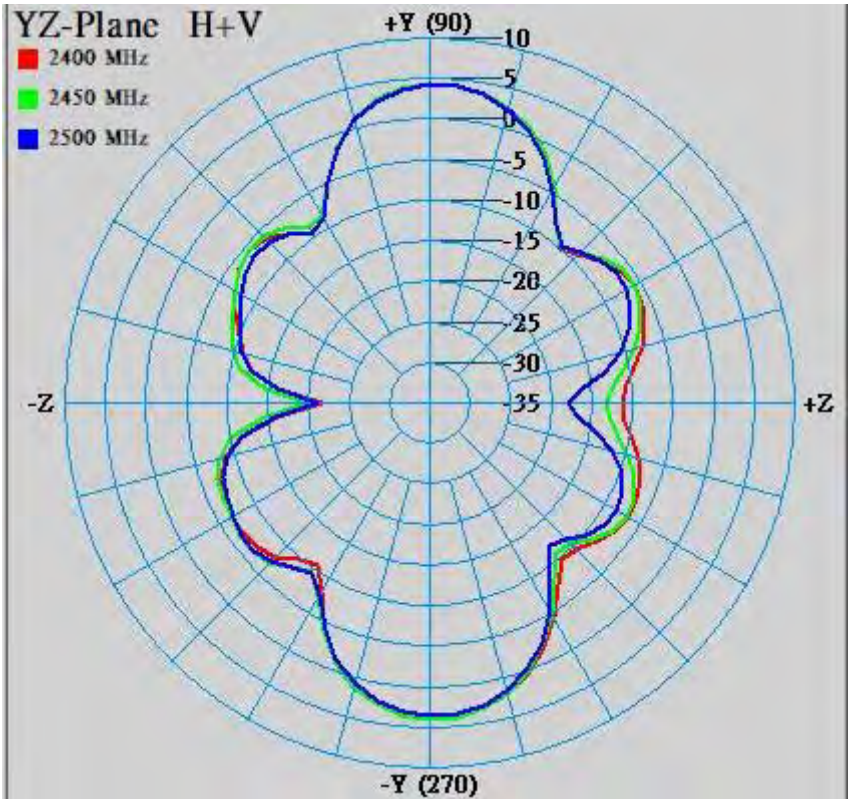
Y-Z Plane

Phi=90.00deg

Gain . dB



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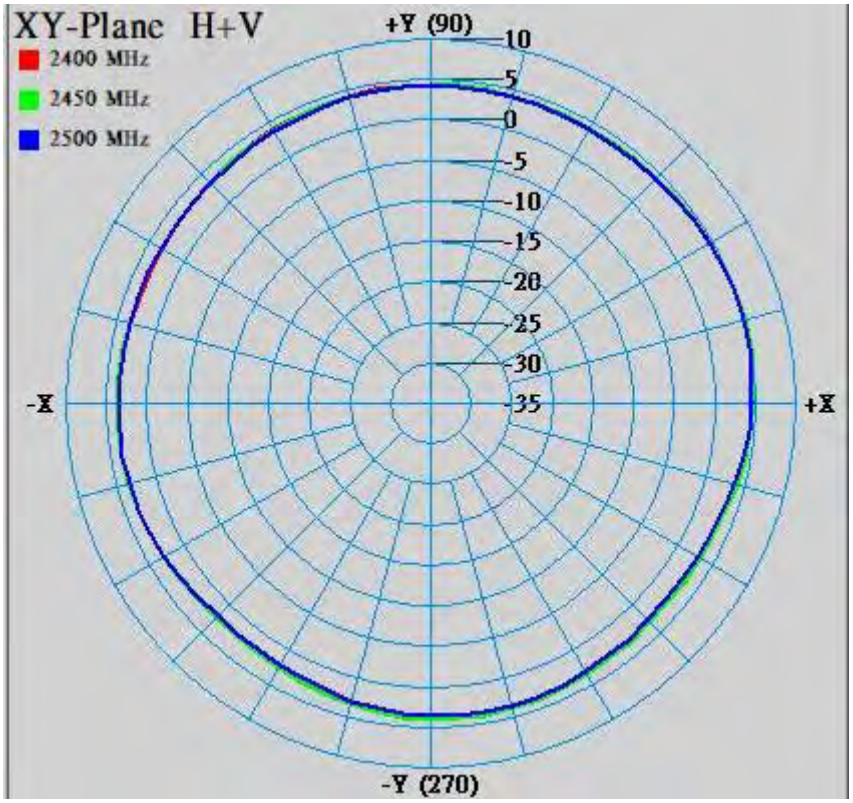
X-Y Plane

Theta=90.00deg

Gain . dB



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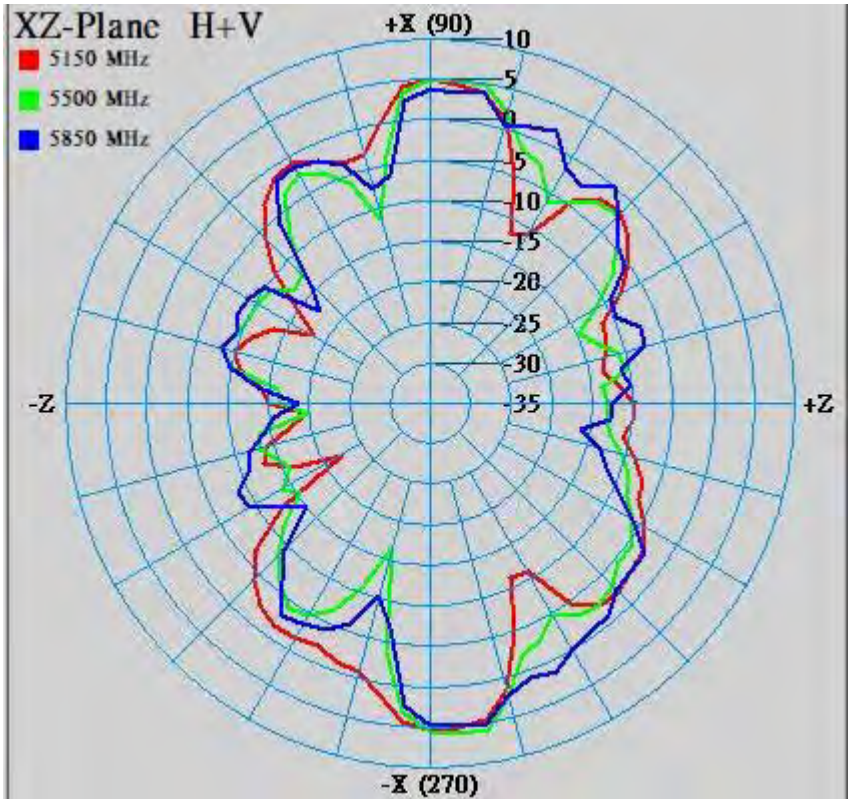
5G

X-Z Plane

Phi=0.00deg

Gain . dB



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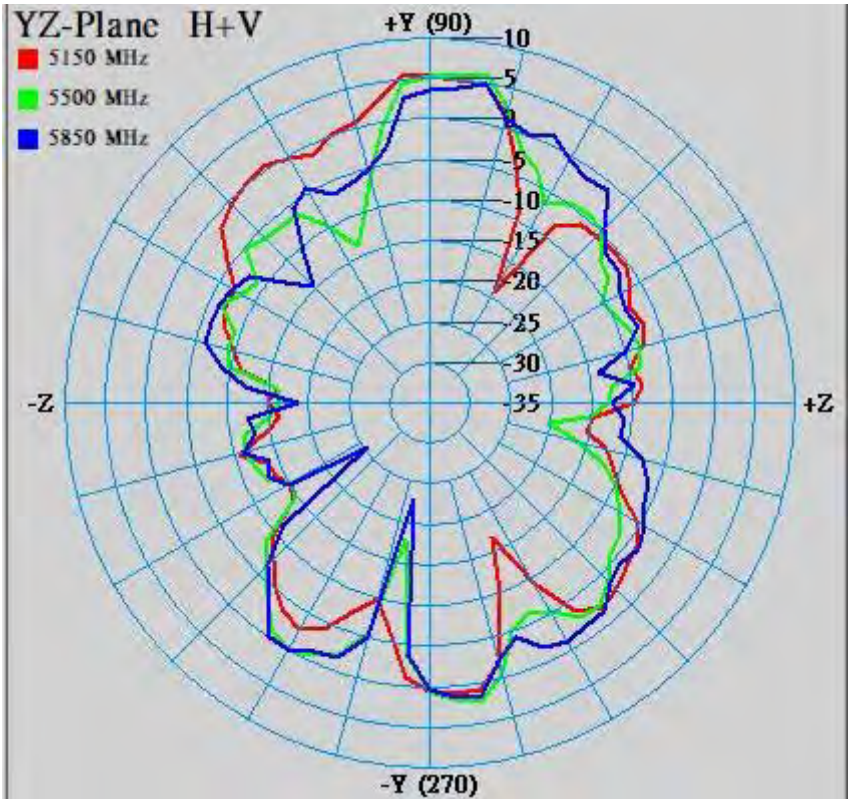
Y-Z Plane

Phi=90.00deg

Gain . dB



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X-Y Plane

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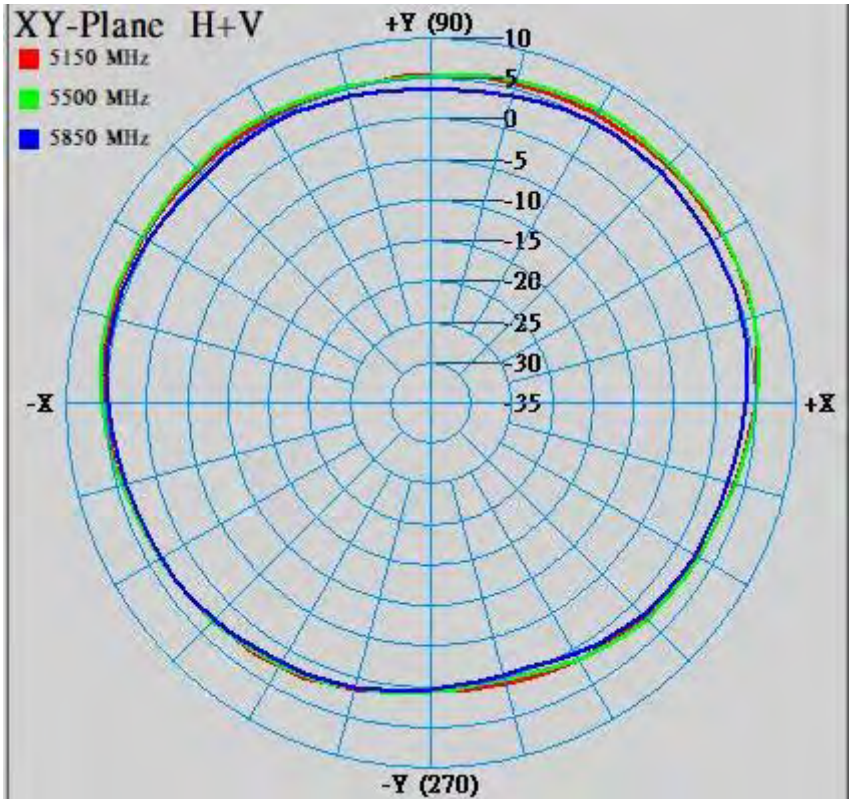

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