

P/N : RFDPA222200SBLB801

1. Explanation of part number :

RF	DPA	2222	00	S	B	L	B	8	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.: 2222 Length 229,1mm Width 22mm	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 1: 1GHz 3: 3GHz 5: 5GHz 6: 6GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band D: DEC G: GPS band L: 2.4/5.2/5.8 GHz tri-band N: NFC T: LTE band U: UHF W: WCDMA band P: WPC	B: MP T: During Test X: Pile Run	0: None 1: \varnothing 0.81 3: \varnothing 1.13 6: RG316 7: \varnothing 1.37 8: RG178	01~99 series number

2. Electrical Specification :

Item	Specification
Working Frequency Range	2.4 ~ 2.5 / 5.15 ~ 5.85 GHz
Return Loss	-10dB(Max)
VSWR	2 max.
Peak Gain	3.31 dBi@2.4~2.5 GHz 4.84 dBi@5.15~5.85 GHz
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50 Ω
Operation Temperature	-20 $^{\circ}$ C ~ +65 $^{\circ}$ C

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.

No.5, Chunqiu Road, Panyang Industrial Park, Huangdai Town, Xiangcheng Zone, Suzhou City

SCALE : N/A UNIT : mm
 DRAWN BY : SHLEE CHECKED BY : HWCHAN
 DESIGNED BY : JASONLIN APPROVED BY : BRIANCHEN

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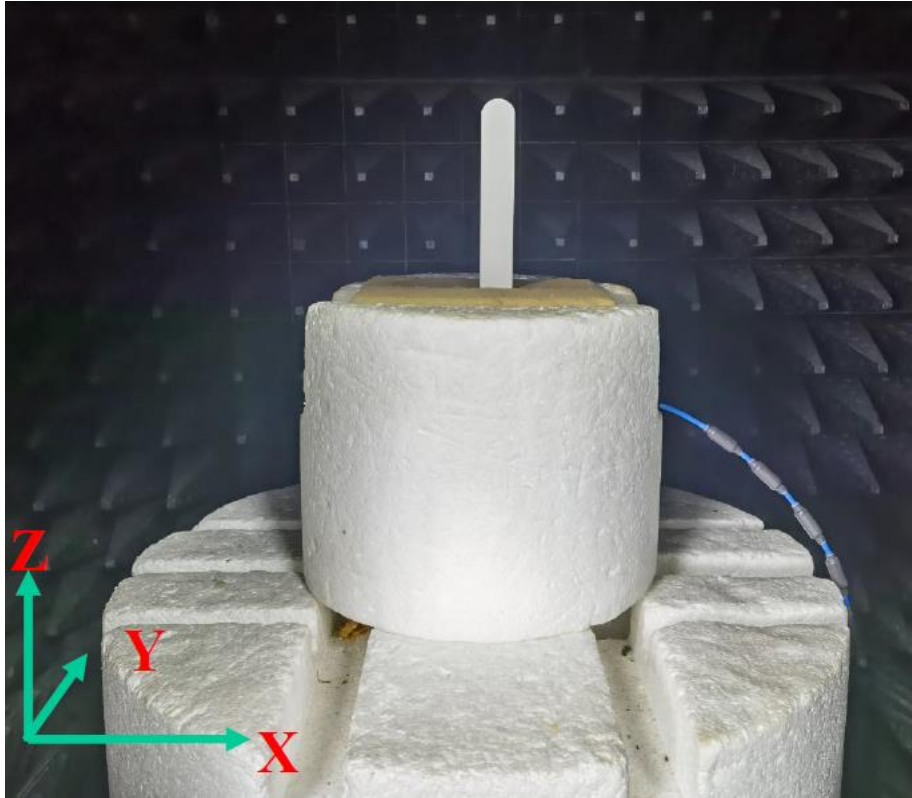
TITLE : RFDPA222200SBLB801


DOCUMENT NO. SPEC REV. P0

4. Performance Report :

Test Report

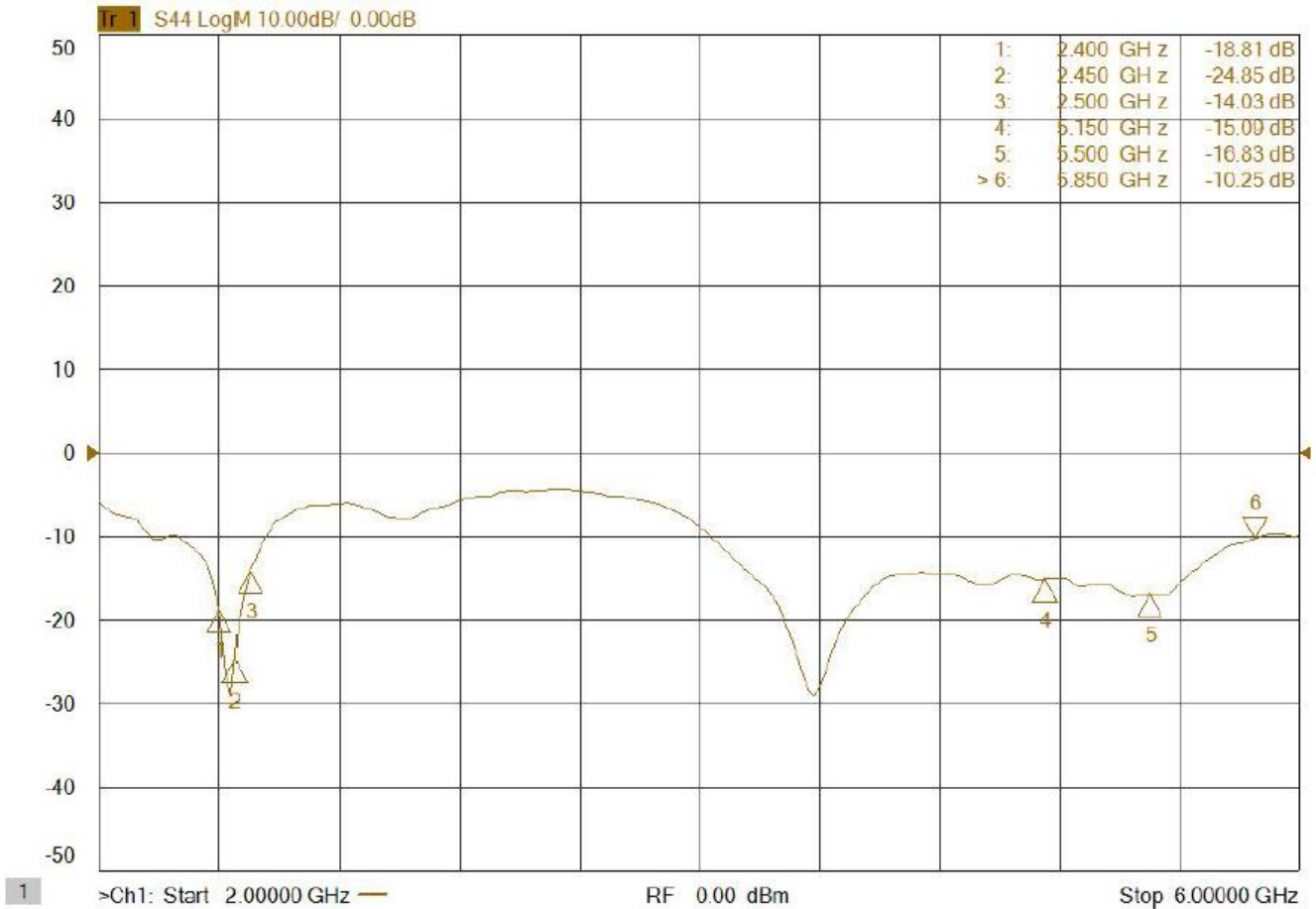
Experimental Setup




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. No.5, Chunqiu Road, Panyang Industrial Park, Huangdai Town, Xiangcheng Zone, Suzhou City	
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ELECTRICAL CHARACTERISTICS

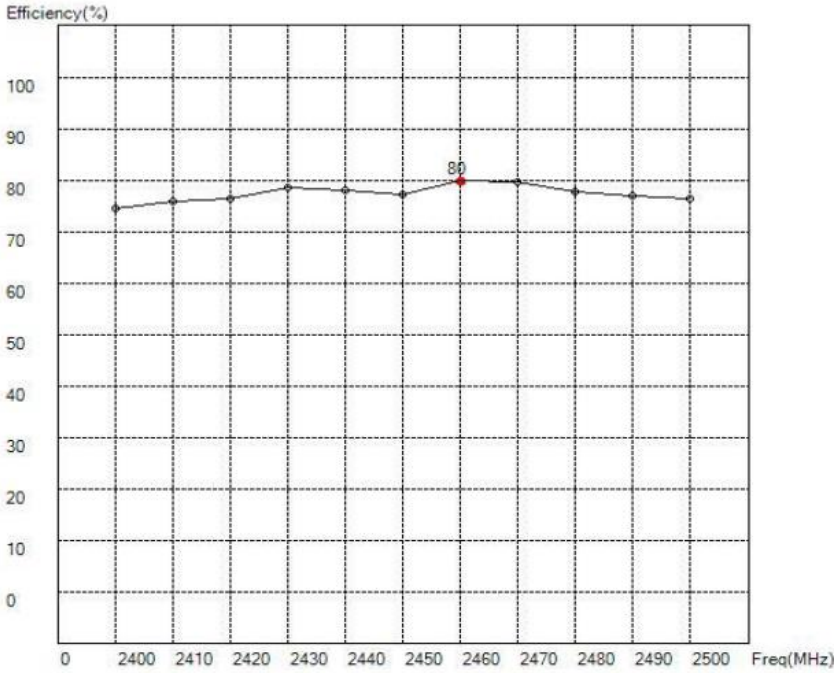
S-Parameter



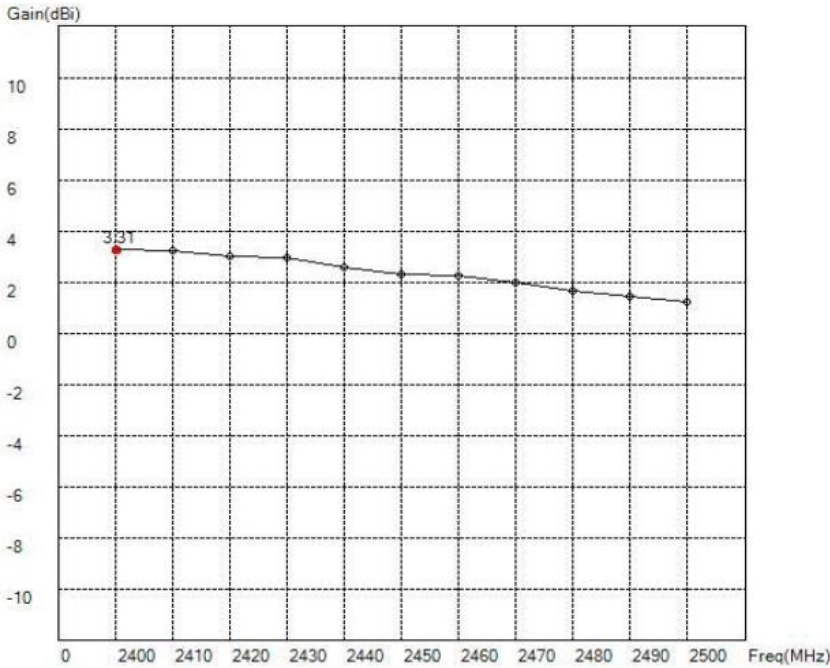
UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A X.X=N/A X.XX=N/A ANGLES=N/A HOLEDIA=N/A		 INPAQ TECHNOLOGY CO., LTD. No.5, Chunqiu Road, Panyang Industrial Park, Huangdai Town, Xiangcheng Zone, Suzhou City	
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Antenna Efficiency and Peak Gain


2G



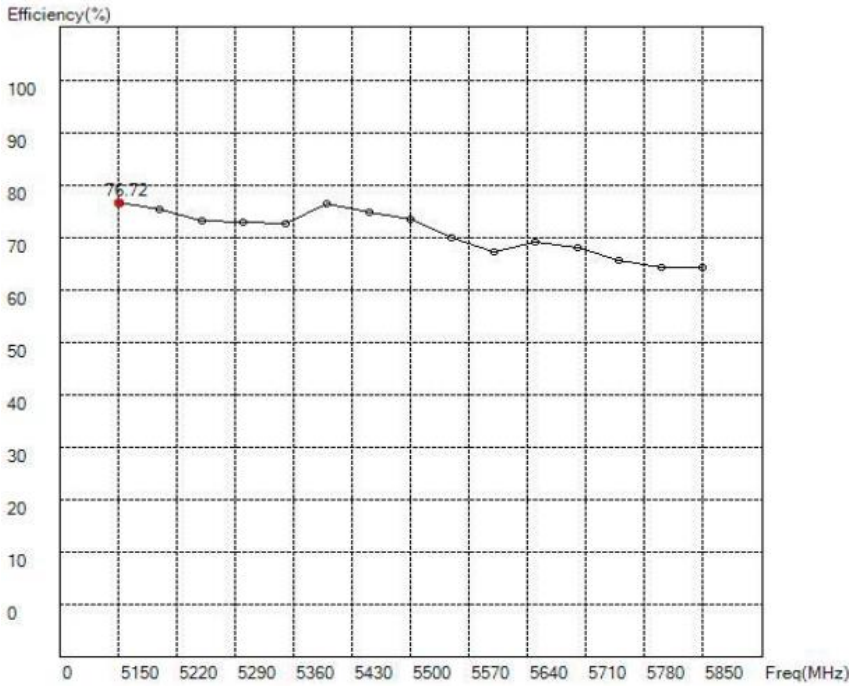
Maximum Efficiency at 2460 MHz : 80 %



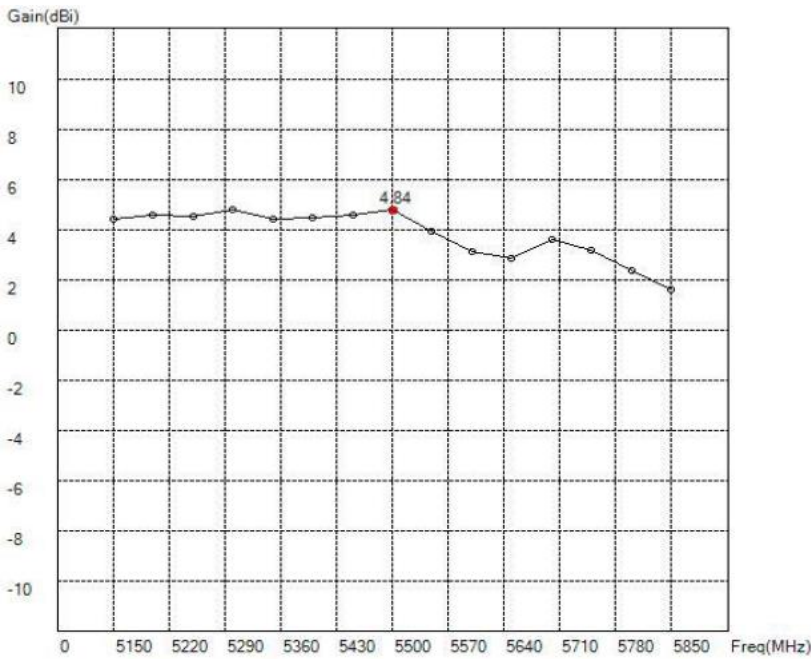
Maximum Peak Gain at 2400MHz : 3.31dBi

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. No.5, Chunqiu Road, Panyang Industrial Park, Huangdai Town, Xiangcheng Zone, Suzhou City	
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5G



Maximum Efficiency at 5150 MHz : 76.72 %



Maximum Peak Gain at 5500MHz : 4.84dBi

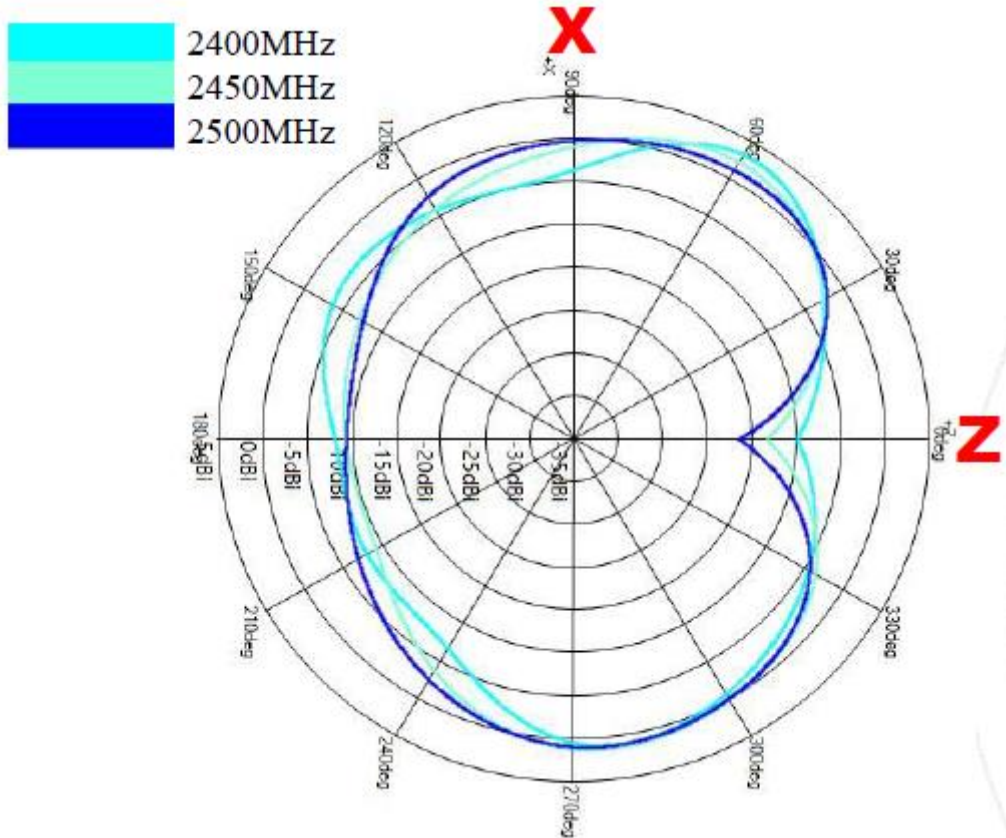
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RADIATION PATTERN

2G

X-Z Plane
Phi=0.00deg

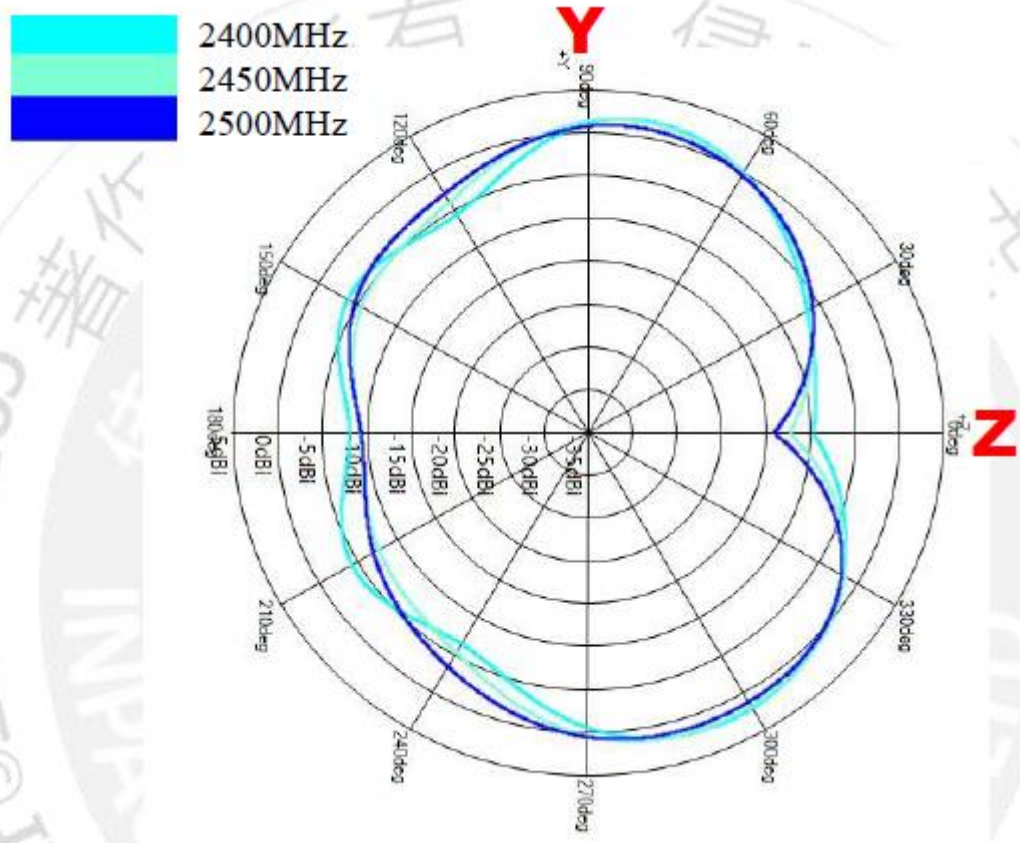
Gain . dB




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ANGLES = N/A		THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
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Y-Z Plane
Phi=90.00deg

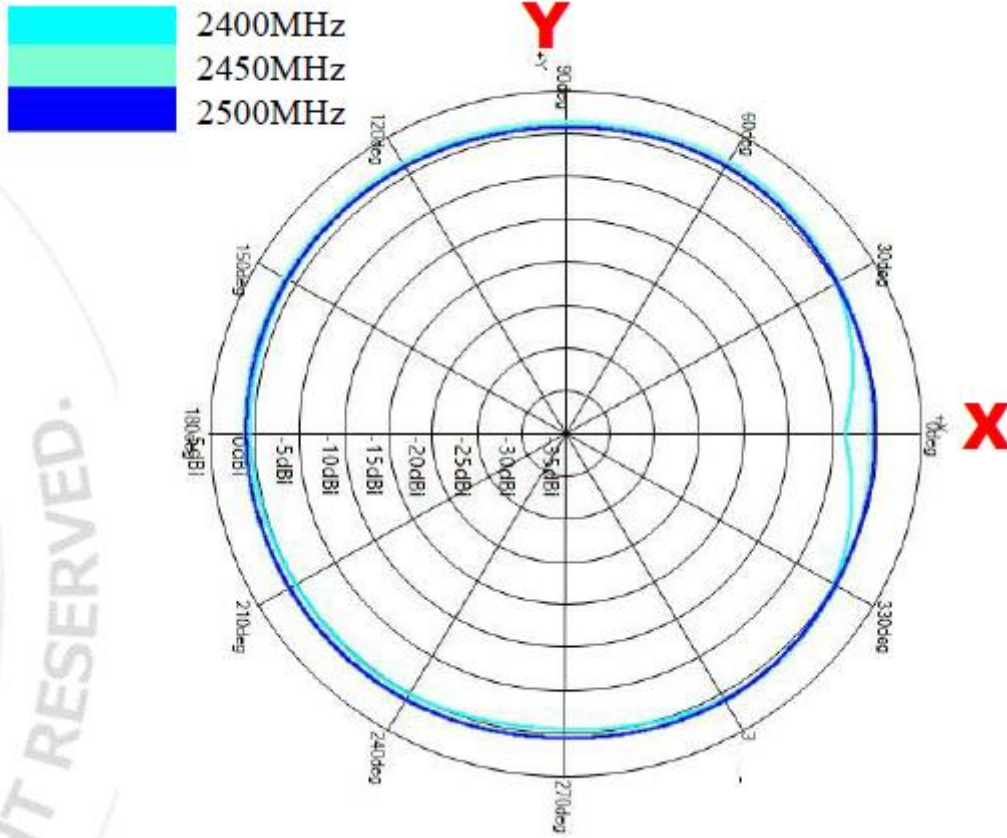
Gain . dB



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. No.5, Chunqiu Road, Panyang Industrial Park, Huangdai Town, Xiangcheng Zone, Suzhou City
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		SPEC REV. P0

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	3.31	-2.33	2.03	-2.12	1.66	0.34
2450	2.34	-2.04	1.77	-2.02	1.61	0.91
2500	1.23	-2.02	1.20	-2.13	1.15	0.70

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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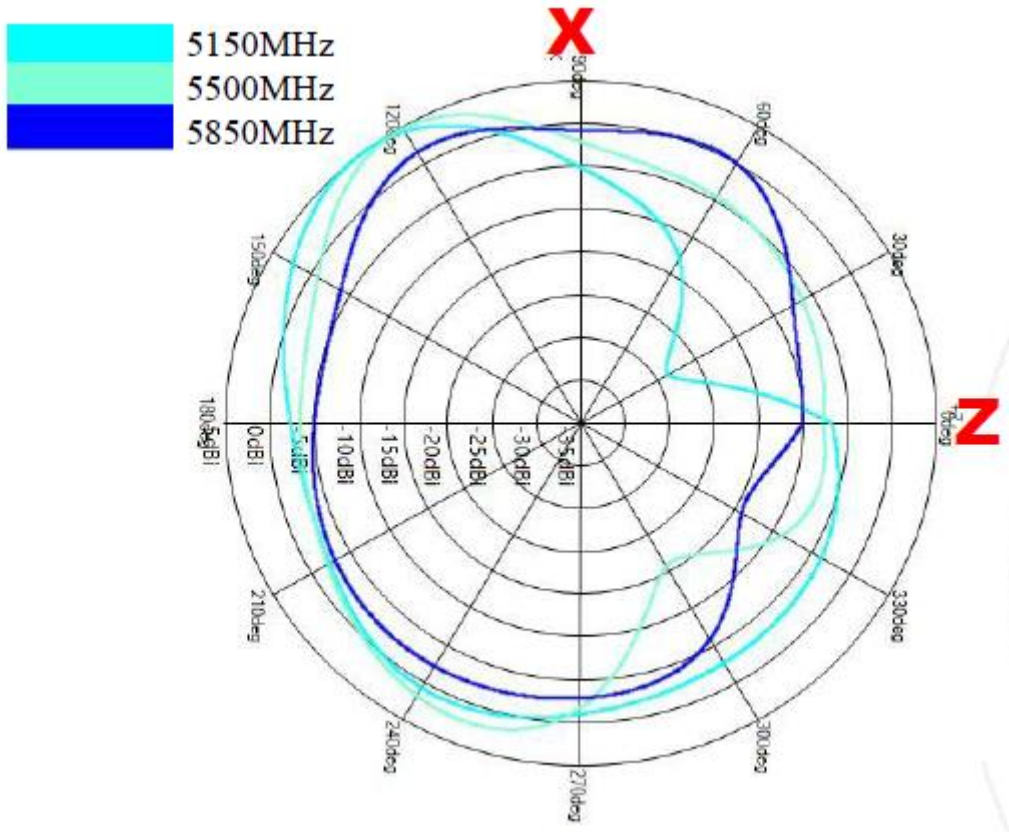
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DOCUMENT NO.	SPEC REV.

5G

**X-Z Plane
Phi=0.00deg**

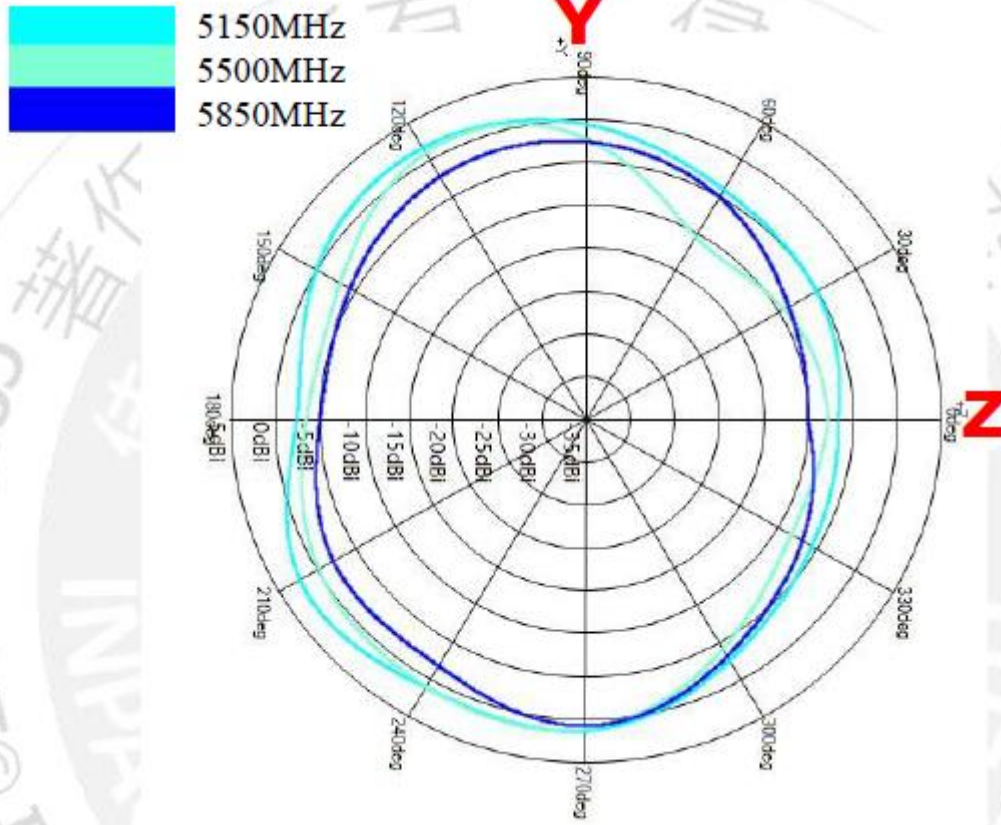
Gain . dB




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. No.5, Chunqiu Road, Panyang Industrial Park, Huangdai Town, Xiangcheng Zone, Suzhou City
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Y-Z Plane
Phi=90.00deg

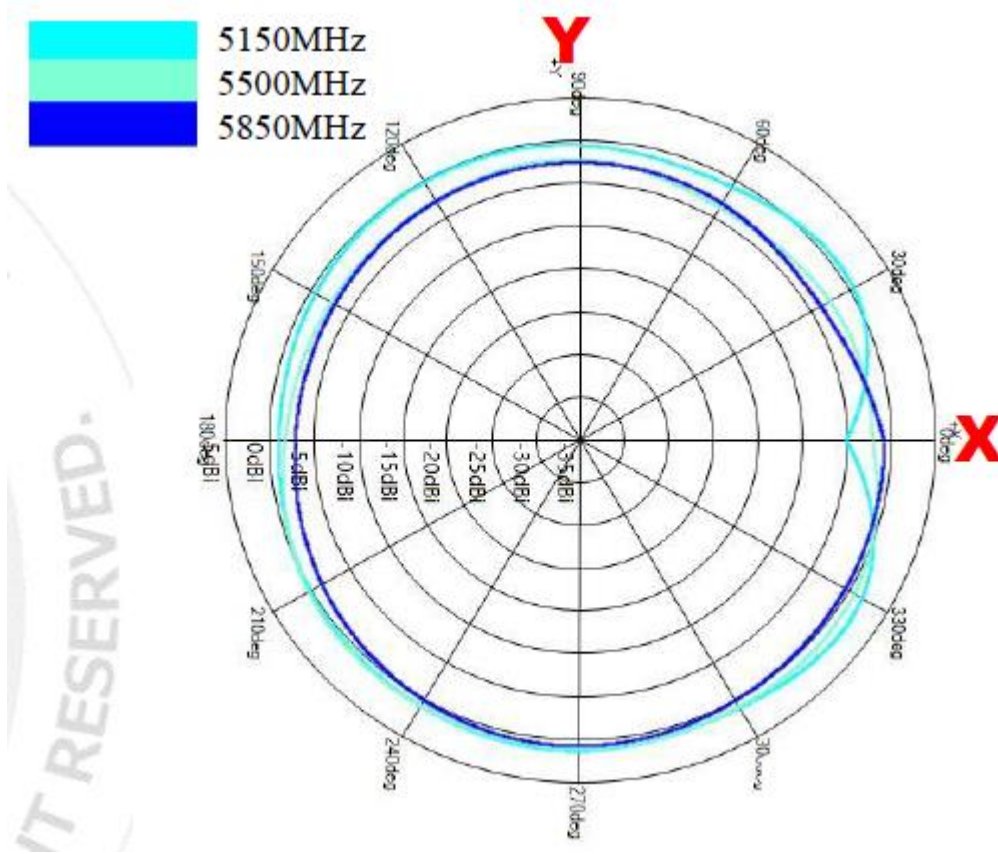
Gain . dB



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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]
5150	4.44	-1.93	2.18	-1.07	1.72	0.04
5500	4.84	-1.65	1.05	-2.35	1.02	-0.82
5850	1.64	-2.93	0.68	-3.48	0.68	-1.41

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 ANGLES = N/A HOLEDIA = N/A



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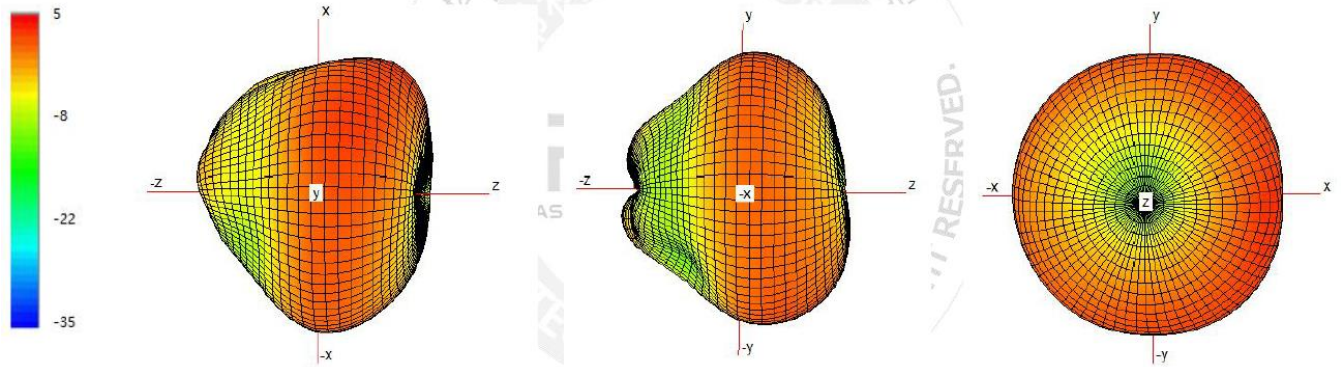
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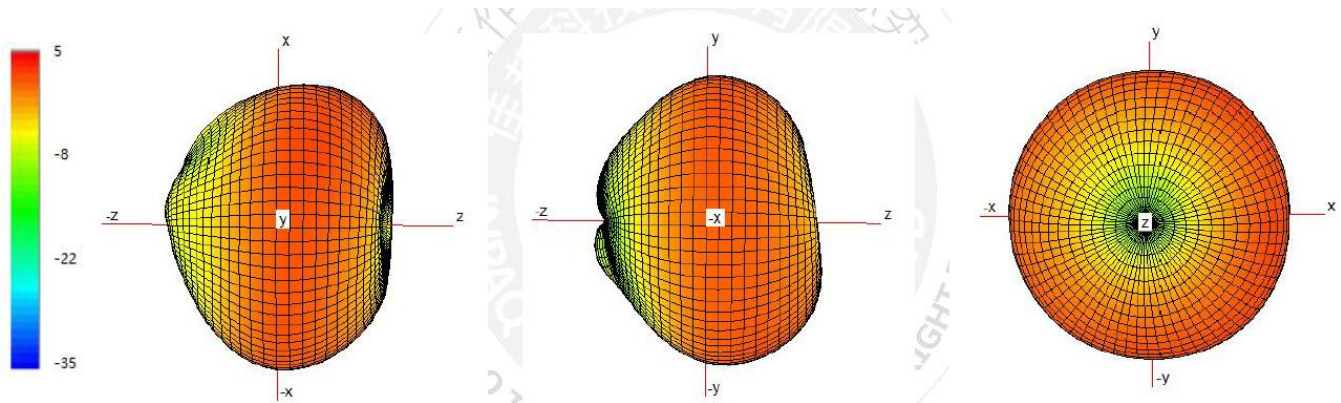
DOCUMENT NO. SPEC REV. P0

3D Radiation Patterns

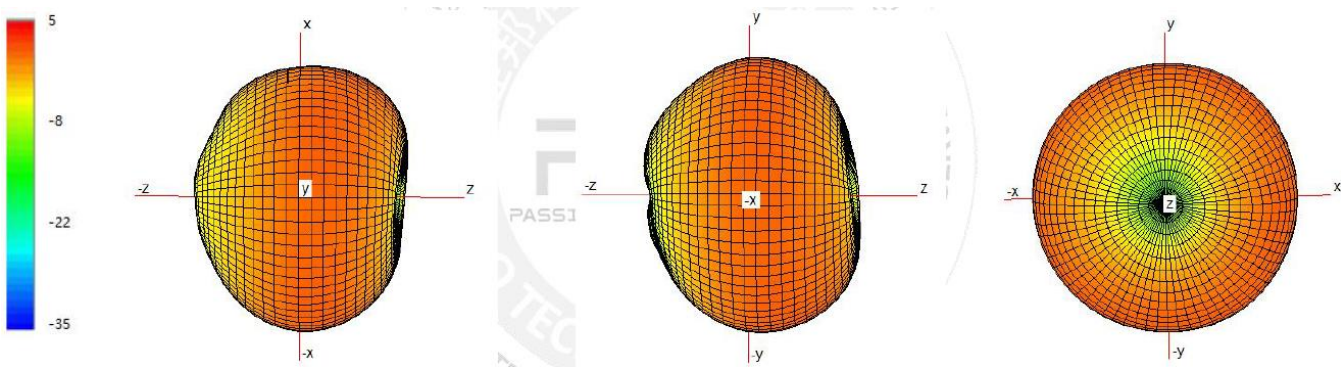
2400MHz




2450MHz

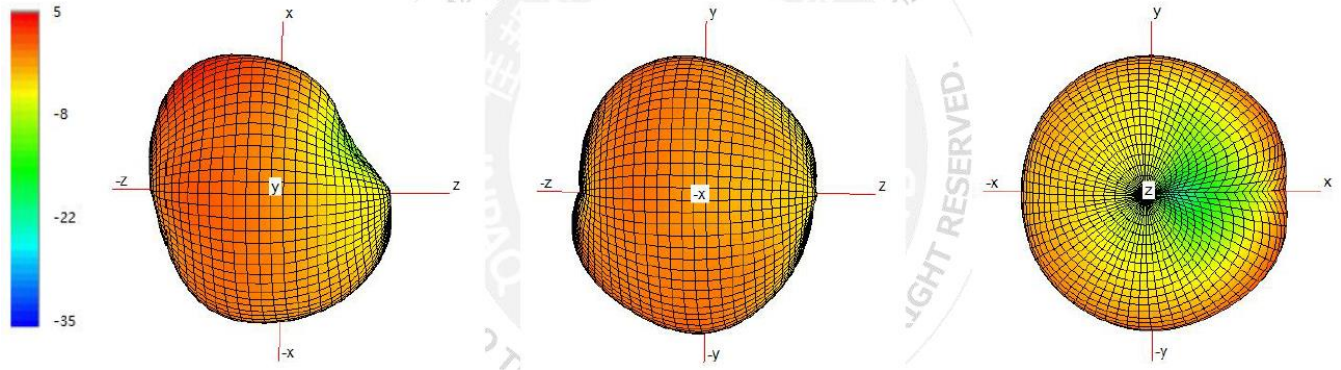


2500MHz

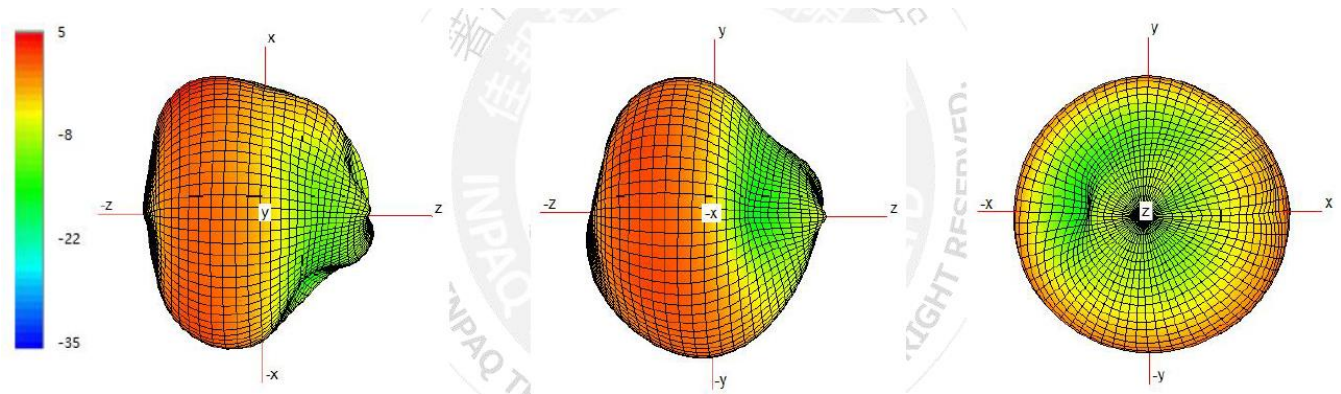


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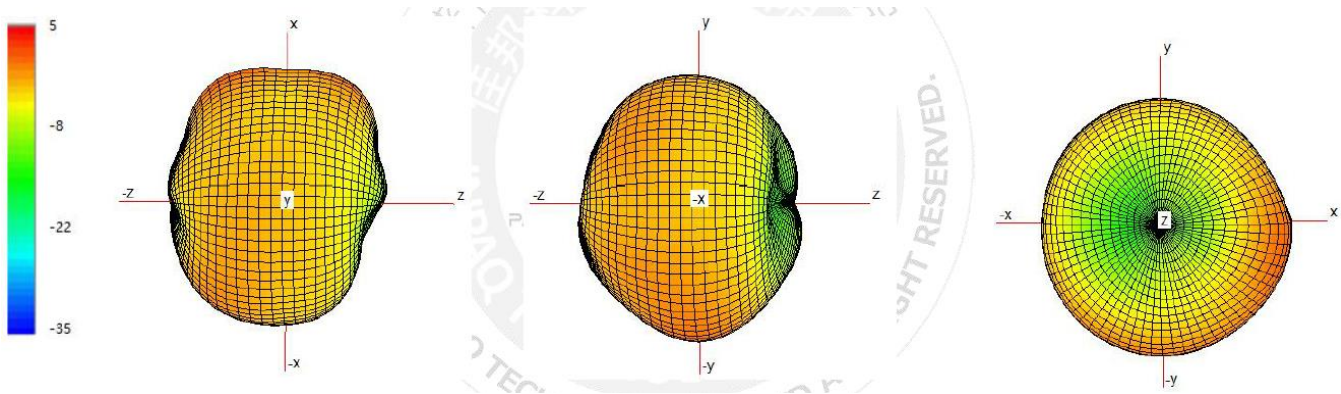
5150MHz




5500MHz



5850MHz



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HOLEDIA=N/A		
SCALE : N/A	UNIT : mm	DOCUMENT NO.
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