

APPROVAL SHEET

Dipole ANTENNA

2.4~2.5 / 5.15~5.85 GHz Working Frequency

Halogens Free Product

P/N: RFDPA141500SBLB807

Customer : _____
Customer 's Part No. : _____
Approval No. : _____
Issue Date : _____

*Contents in this sheet are subject to change without prior notice.

生產工廠：江蘇省無錫市錫山經濟開發區安鎮安泰一路81號
Antai No 1 road 81, AnZheng town, Xishan Economic Development Zone,
Wuxi City, 214105 JiangSu Province, China

Version	Date	Description	Author
V01	2024 Apr.	New Release	PIPI
V02	2024 Apr.	變更線材顏色由棕色改為黑色	PIPI
V03	2024 May.	變更測報	PIPI

Antenna Specification

ELECTRICAL CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4~2.5 / 5.15~5.85 GHz (Note-1)
Gain (Peak)	2.4 GHz @ 1.97 dBi 5 GHz @ 1.94 dBi
Return Loss	-10dB(Max)
VSWR	2 max.
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω
Operation Temperature	-20° C~+65° C

*Note 1. Central Frequency should be defined after customers' application approval.

MATERIAL TABLE

Items	Description
Antenna Cover	ABS ; Black (無噴漆)
Antenna Short Base	PC+PBT ; Black
Connector	Reverse SMA Plug ; Black
Coaxial Cable	RG178 ; Black
Up Brass Tube	Brass
Down Brass Tube	Brass
Heat Shrink Tube	Black
Rivet	POM ; Black
Sponge	Black

ORDERING RULE

RF	DPA	1415	00	S	B	L	B	8	07
Type Code	Product Code	Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
RF Device	DPA:	Per 2 digits of length, width e.g.: 2513 Length 255mm, Width 13.00mm	2 digits for cable length e.g.: 13 Cable Length:130mm	A: N C:MMCX 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:Ø0.81 3:Ø1.13 6:RG316 7:Ø1.37 8:RG178	01~99 series number

ELECTRICAL CHARACTERISTICS

S-Parameter

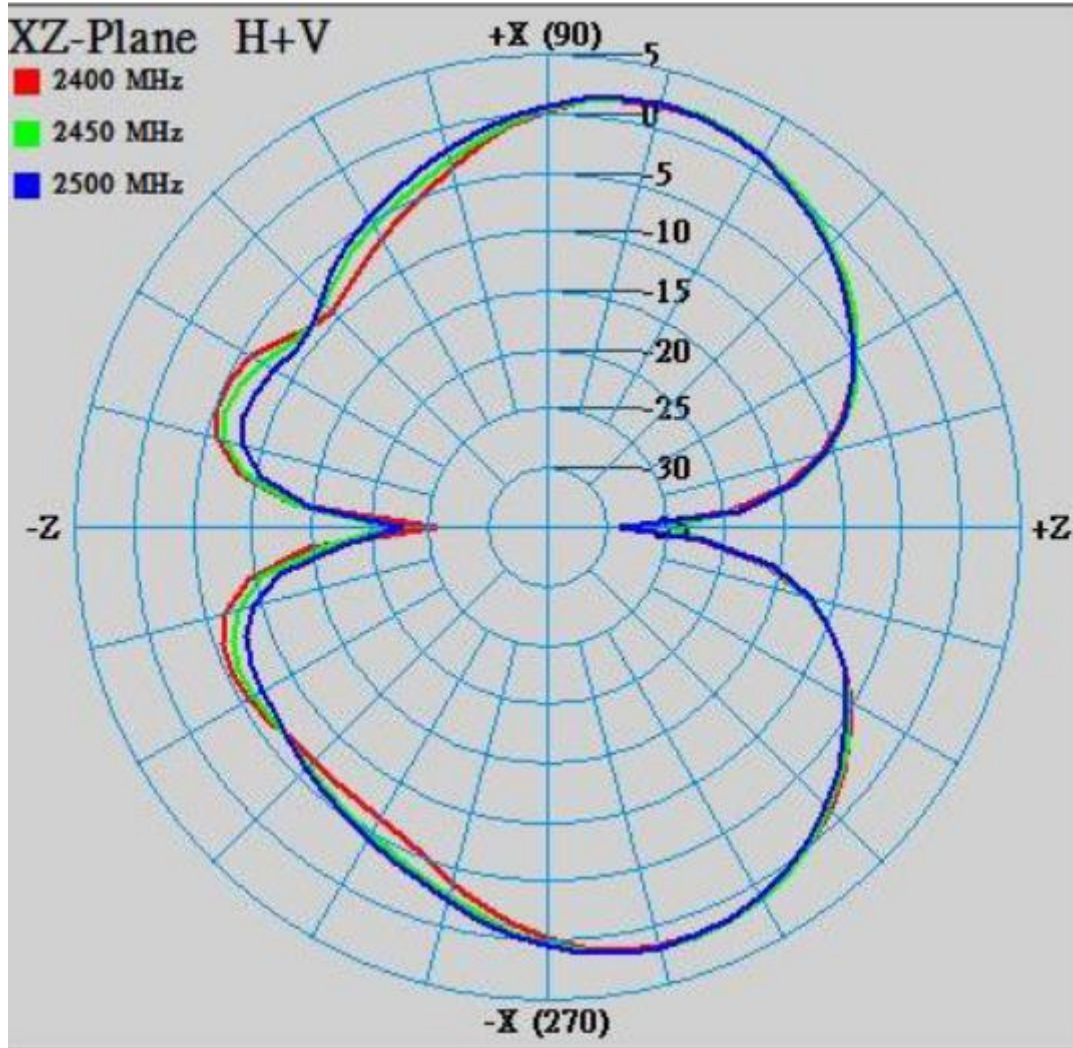


RADIATION PATTERN

2400~2500 MHz

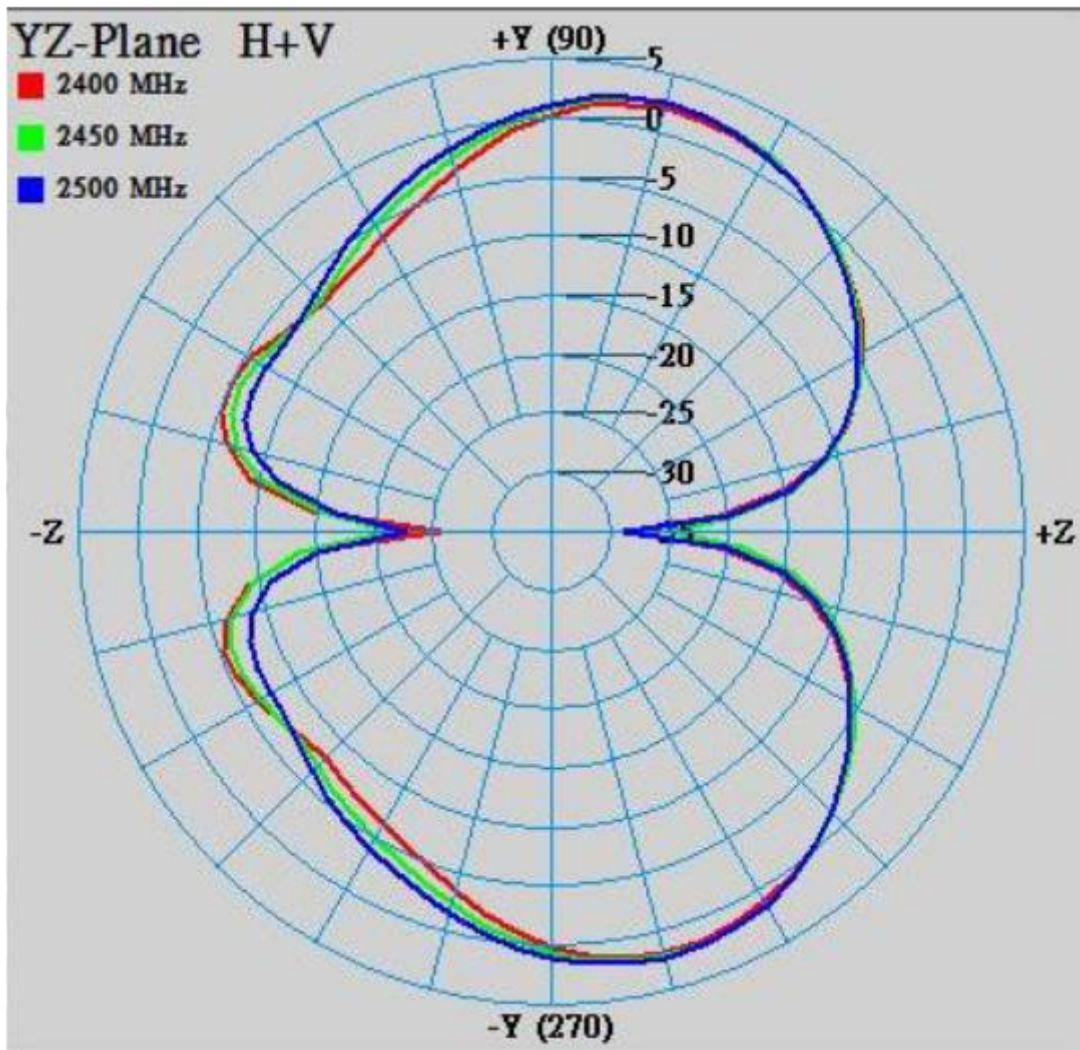
Phi=0.00deg

Gain . dB



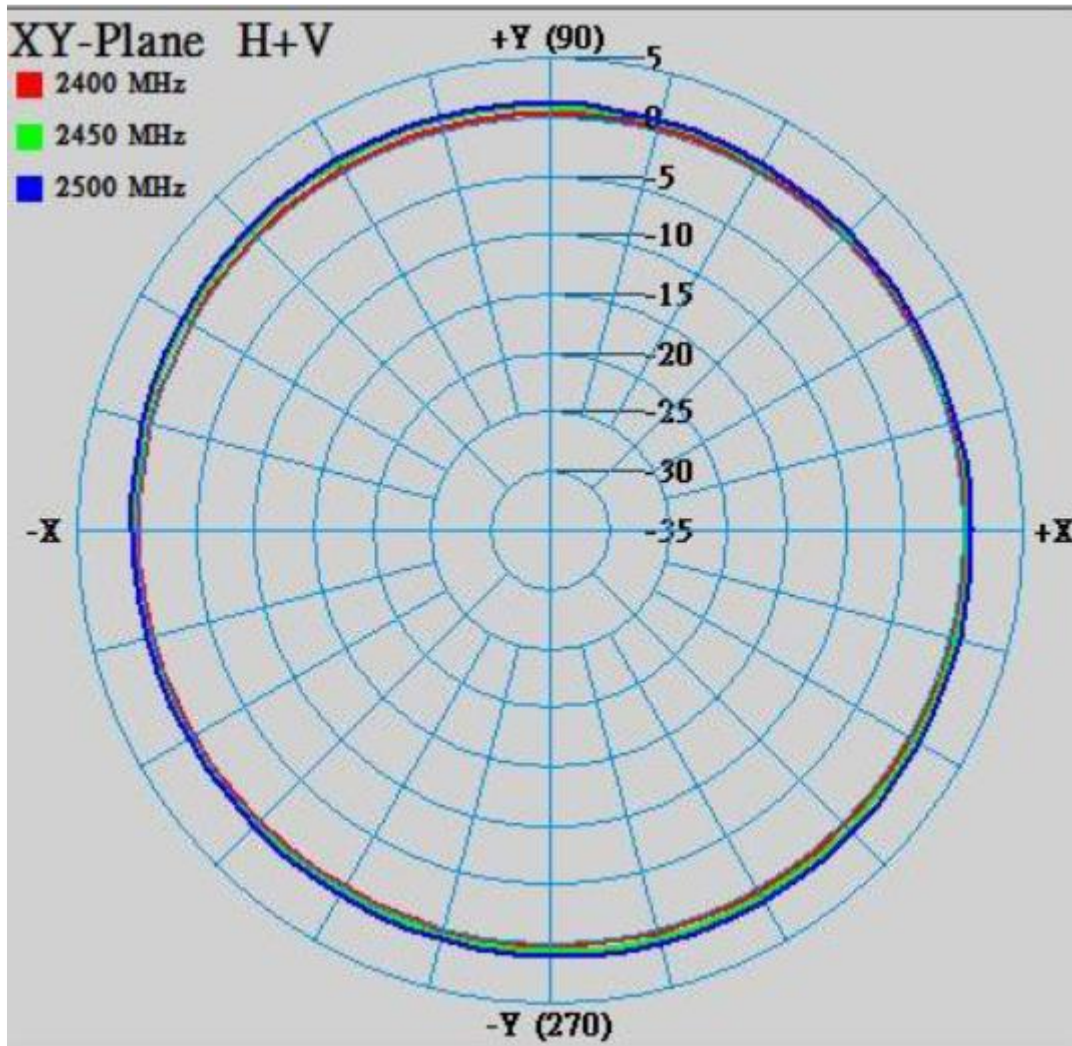
Phi=90.00deg

Gain . dB



Theta=90.00deg

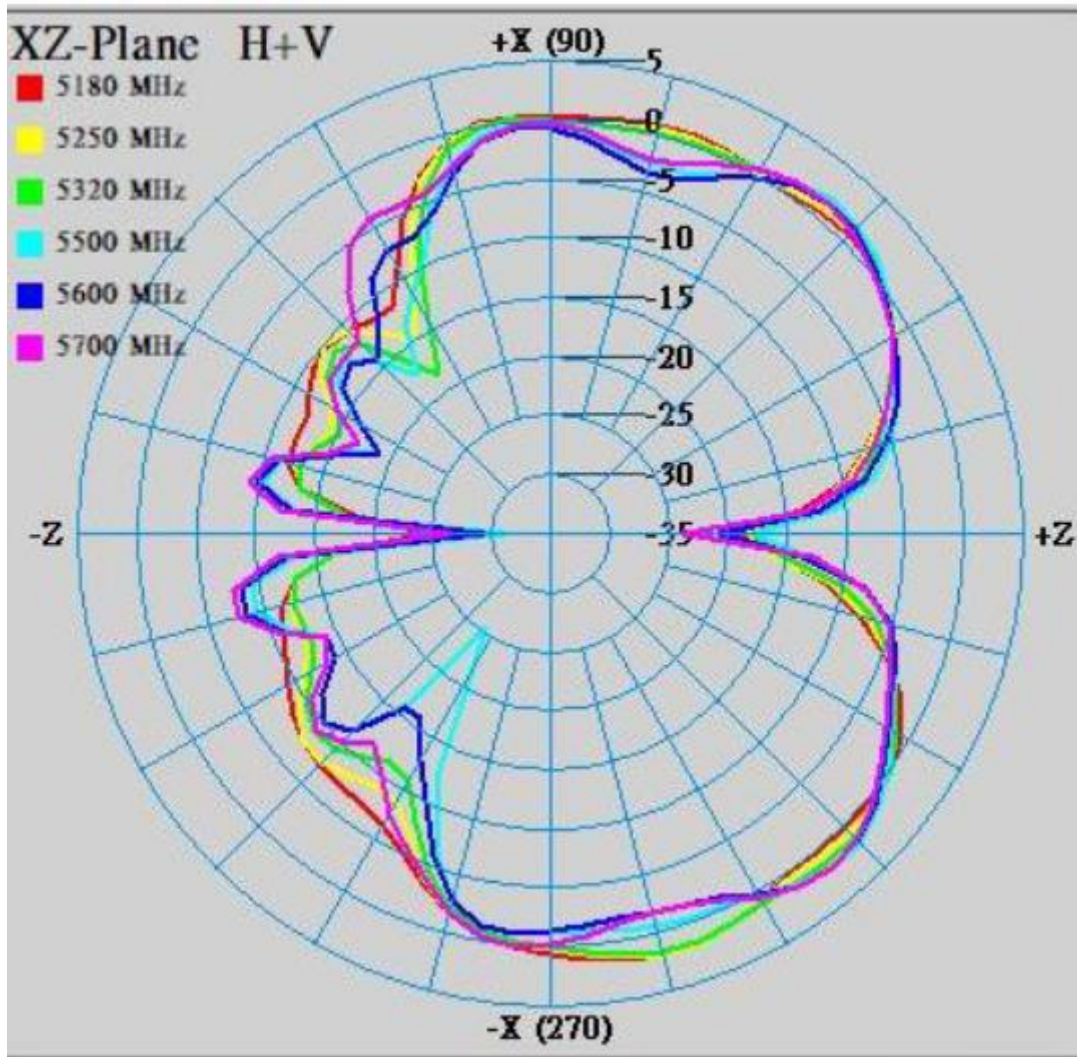
Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	1.81	-3.01	1.70	-3.10	0.19	-0.42
2450	1.92	-2.84	1.81	-2.93	0.35	-0.03
2500	1.97	-2.83	1.79	-2.94	0.78	0.34

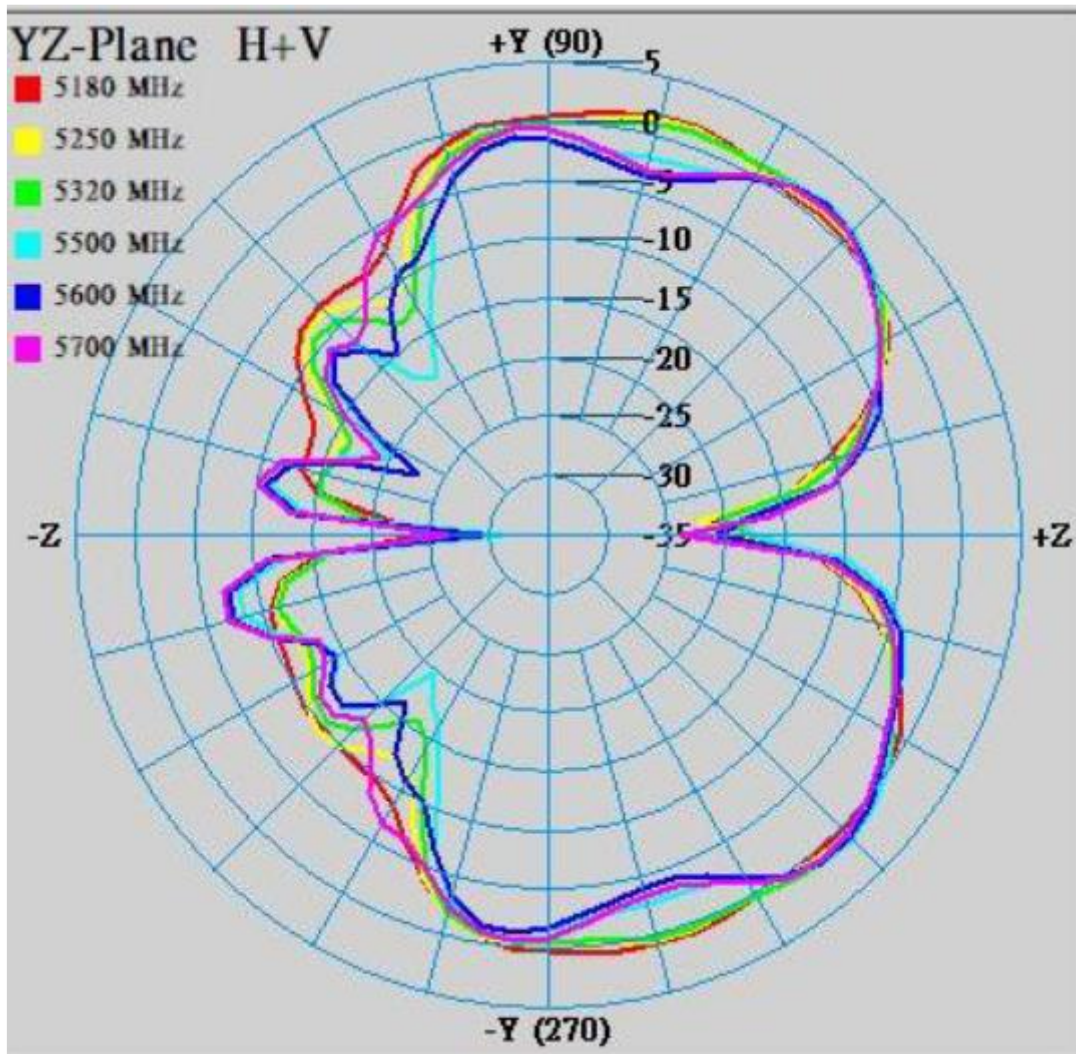
5180~5700 MHz
Phi=0.00deg

Gain . dB



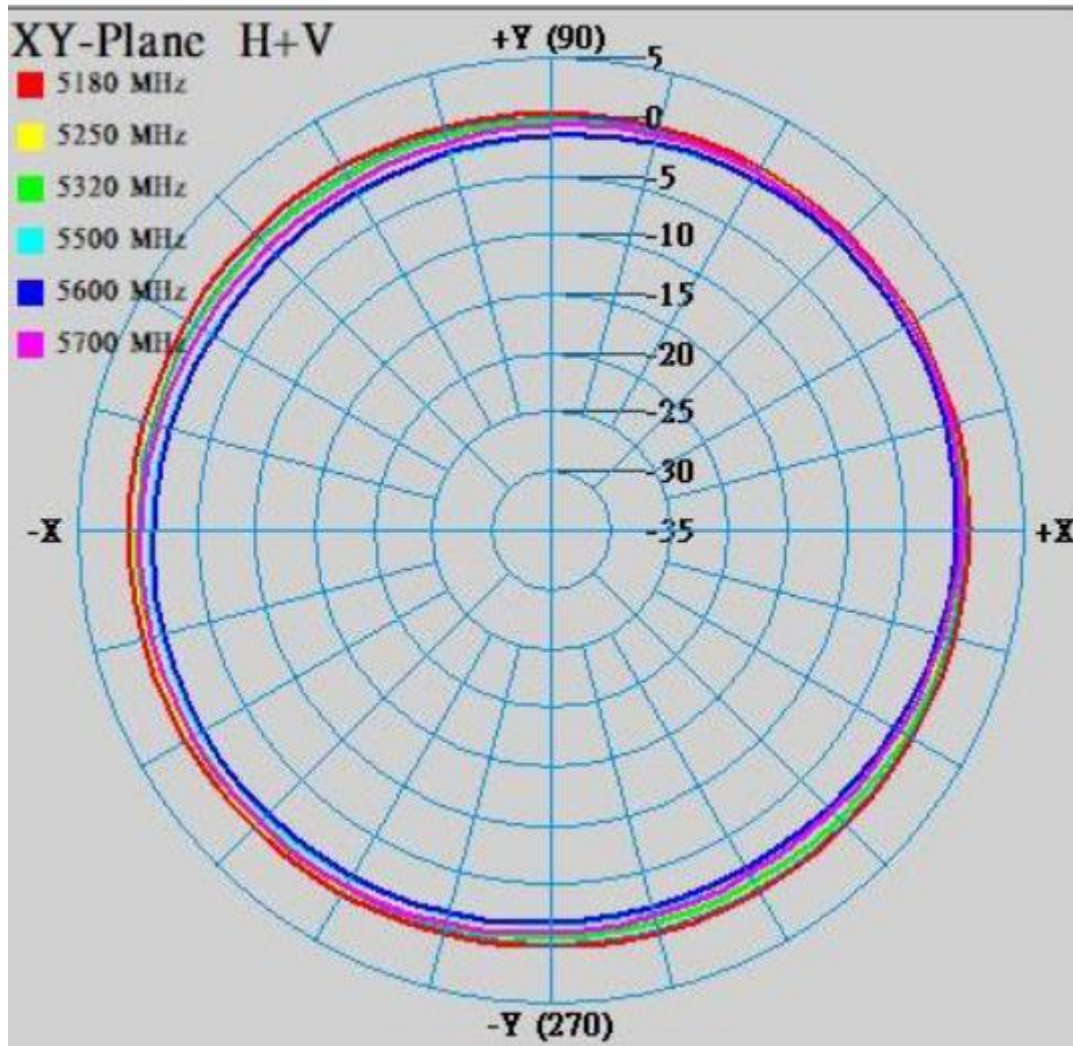
Phi=90.00deg

Gain . dB



Theta=90.00deg

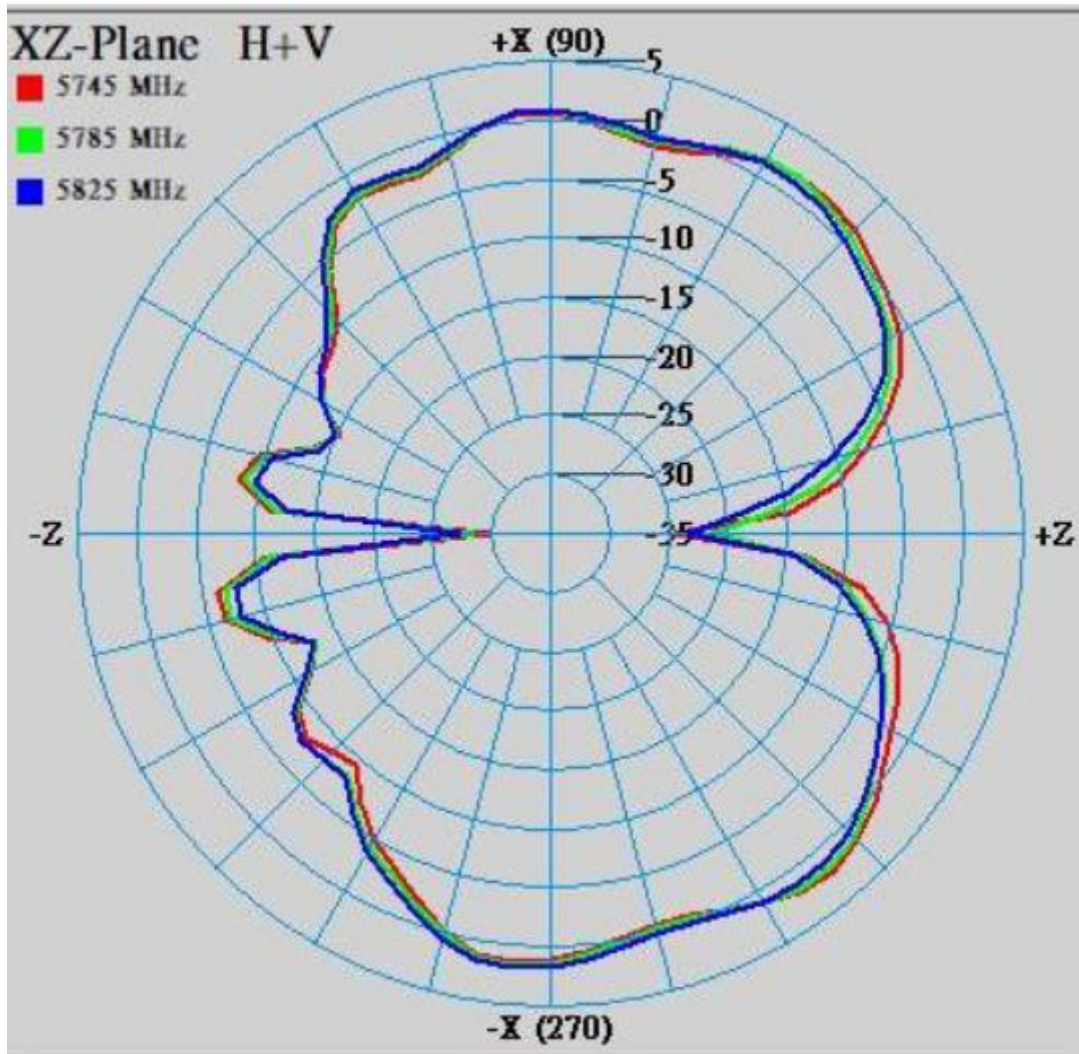
Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5180	1.86	-2.38	1.65	-2.51	0.72	0.42
5250	1.88	-2.51	1.36	-2.79	0.26	-0.13
5320	1.73	-2.52	1.30	-2.78	0.14	-0.23
5500	1.94	-3.12	1.50	-3.70	-0.36	-1.23
5600	1.83	-3.35	1.17	-3.95	-0.40	-1.30
5700	1.75	-2.95	0.94	-3.58	0.13	-0.55

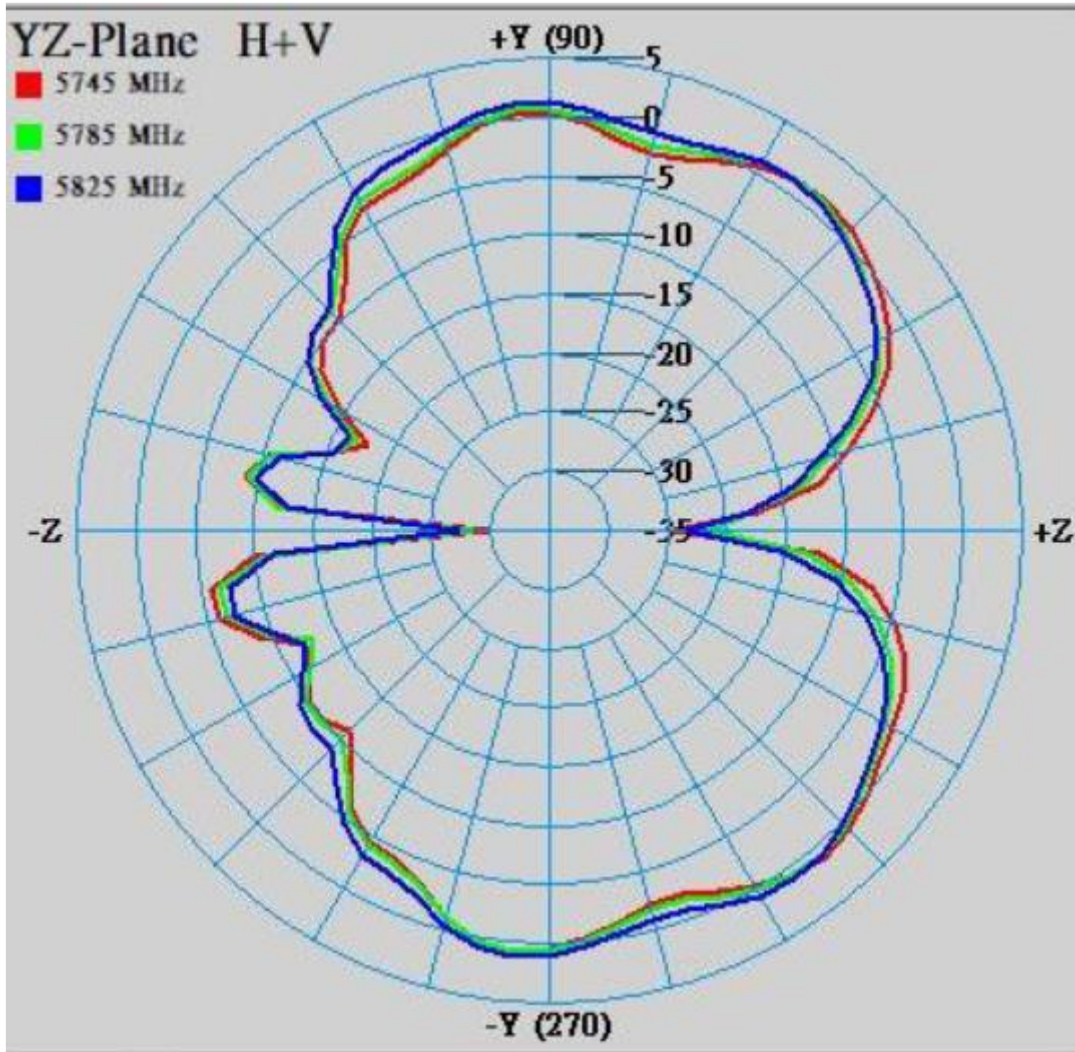
5745~5825 MHz
Phi=0.00deg

Gain . dB



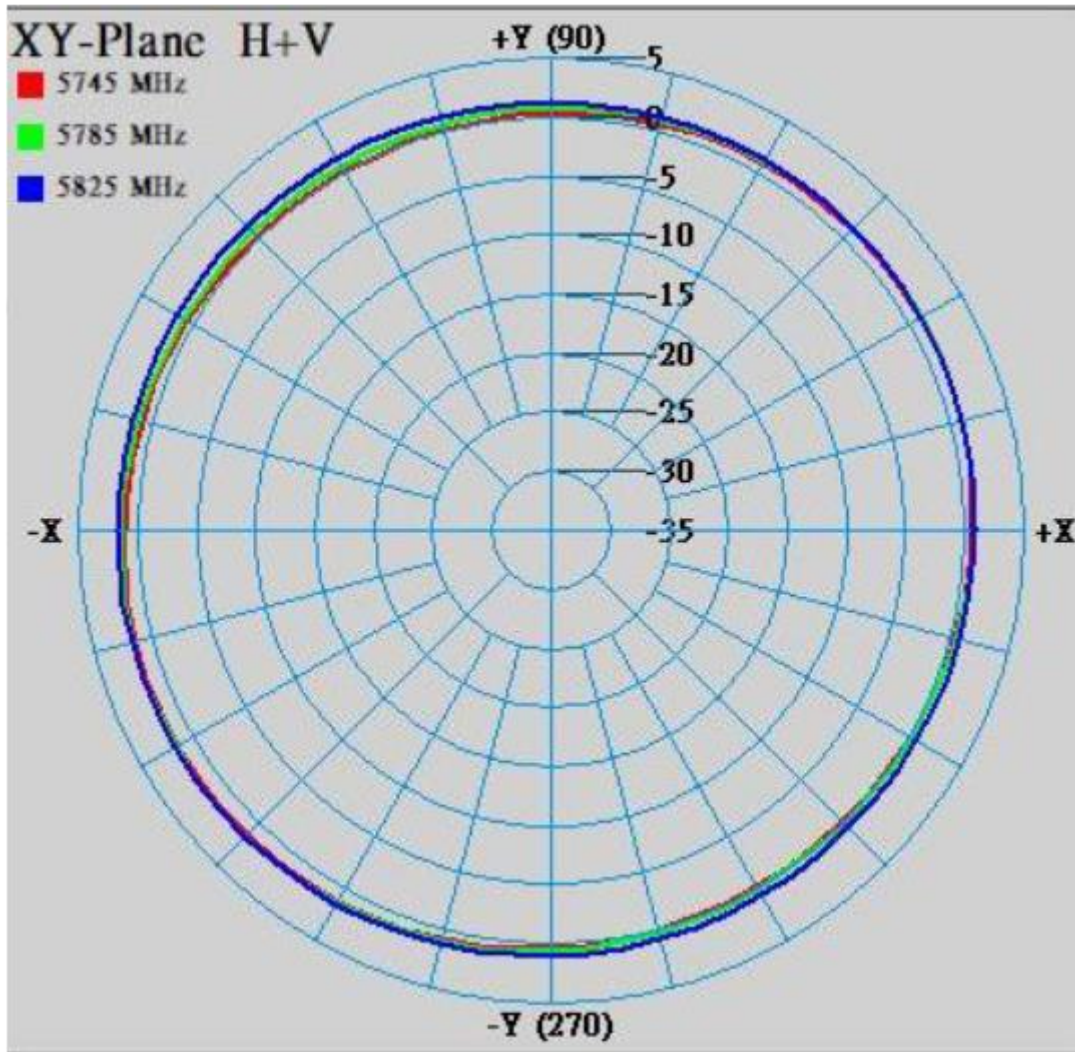
Phi=90.00deg

Gain . dB



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]
5745	1.78	-2.10	1.00	-2.75	1.48	0.65
5785	1.52	-2.18	0.92	-2.76	1.65	0.89
5825	1.69	-2.22	1.18	-2.41	1.73	1.20