

APPROVAL SHEET

Dipole ANTENNA

802.11 b/a Series

2.4/5.x GHz Dual Band Working Frequency

Halogens Free Product

P/N: RFDPA171300SBLB820

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	2017 Dec.	New Release	PIPI
V02	2021 Sep.	增加防異音泡棉	PIPI
V03	2023 Sep.	增加內構圖紙	PIPI

ELECTRICAL CHARACTERISTICS

Item	Specification
Frequency Range	2.4 GHz / 5.x GHz(note-1)
Impedance	50 Ohm Nominal
VSWR	2.0 (Max)
Radiation	Omni-directional
Gain(peak)	2.4 GHz @ 1.85dBi ; 5.x GHz @ 2.32dBi
Polarization	Linear Vertical
Admitted Power	1W

*note-1: Electrical characteristics will depend on customer's final application.

MATERIAL TABLE

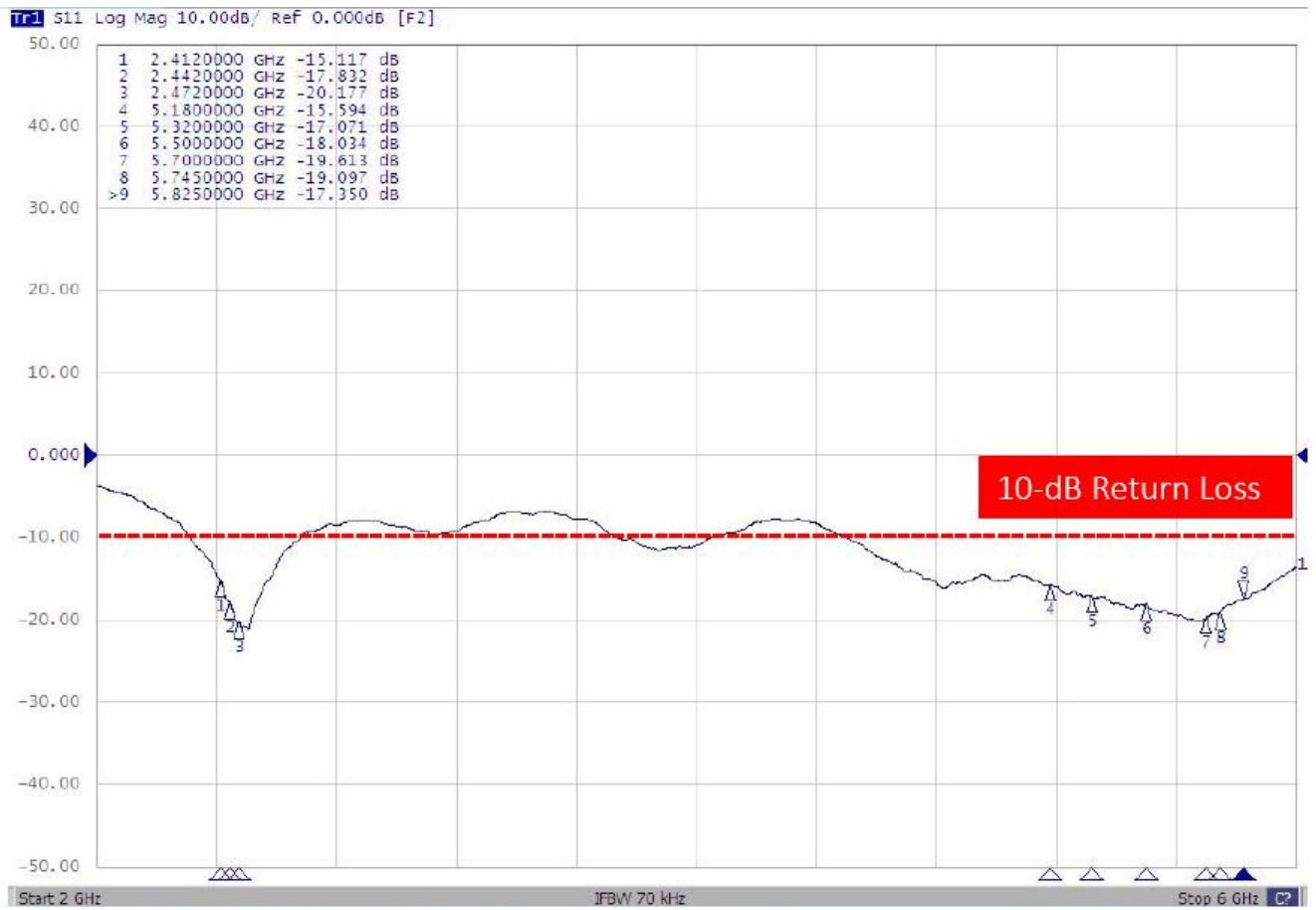
Items	Description
Antenna Cover	ABS (Black)
Antenna Side Cover1	ABS (Gold)
Antenna Side Cover2	ABS (Gold)
Antenna Base	ABS+PC (Black)
Connector	Reverse SMA Plug (Black)
Cable	RG178(Brown)
Rivet	POM(Black)
Up Brass Tube	Brass (Ni)
Down Brass Tube	Brass (Ni)
Heat Shrink Tube	Black
Sponge	Black
Plug	Silicon Rubber (Black)

ORDERING RULE

RF	DPA	1713	00	S	B	L	B	8	20
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.: 1510 Length 150.8mm, Width 10mm	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 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: Durin g Test X: Pile Run	0: None 1: Ø0.81 3: Ø1.13 6: RG316 7: Ø1.37 8: RG178	01~99 series number

Peak Gain Table

2412~2472MHz Gain	1.85 dBi
5180~5320MHz Gain	2.24 dBi
5500~5700MHz Gain	2.32 dBi
5745~5825MHz Gain	1.86 dBi

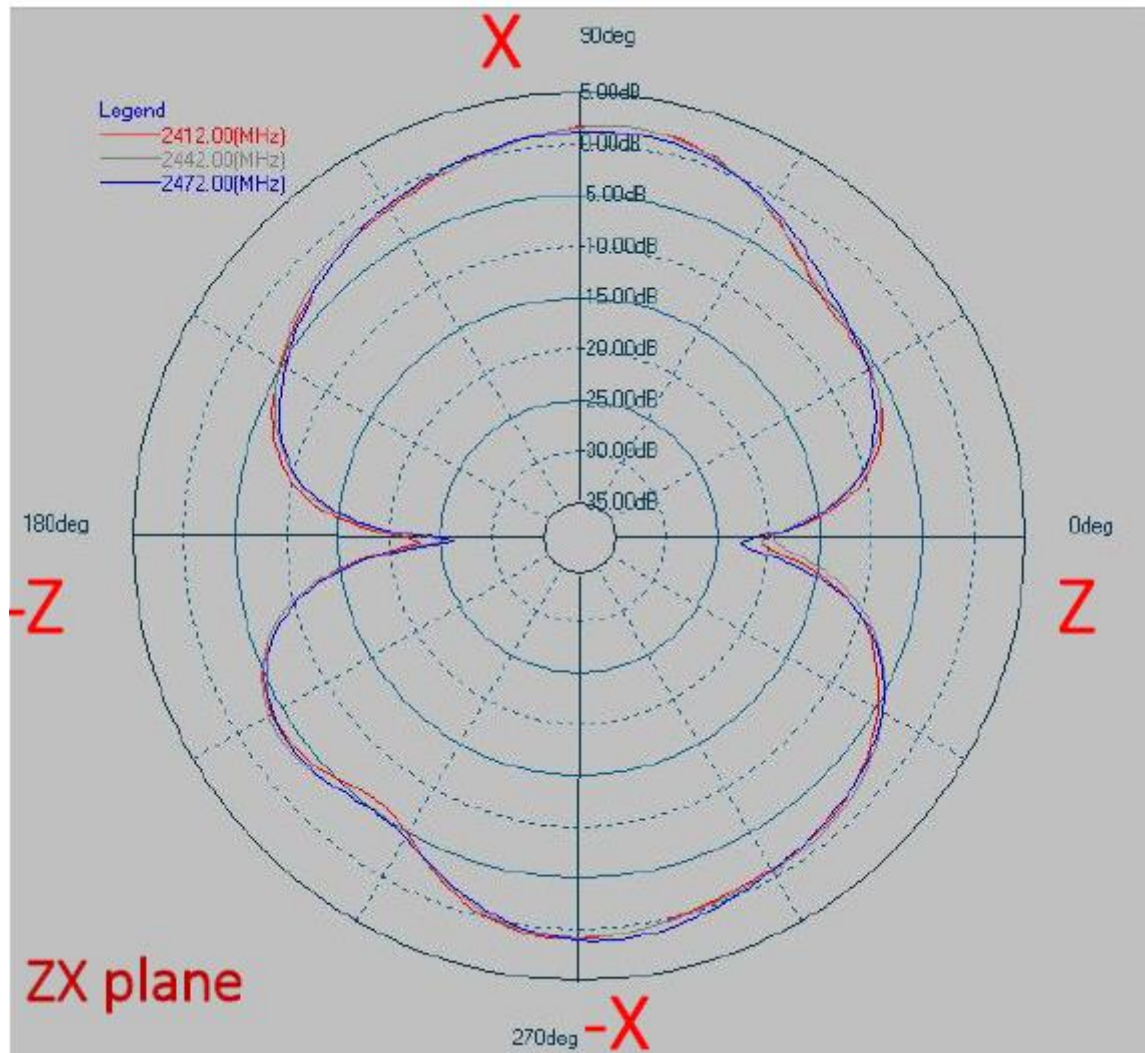
ELECTRICAL CHARACTERISTICS**Return Loss**

RADIATION PATTERN

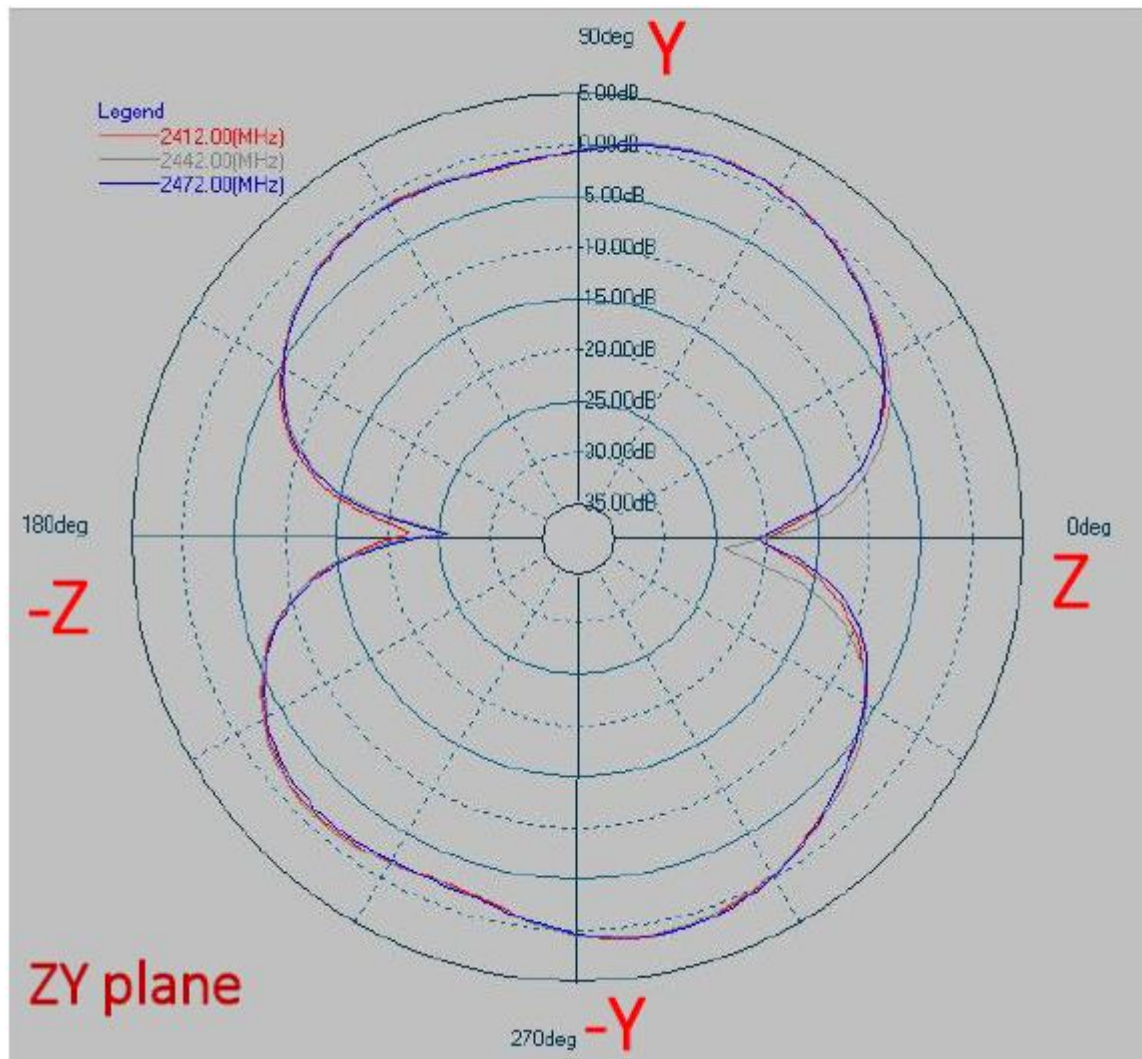
2400~2500 MHz

Phi=0.00deg

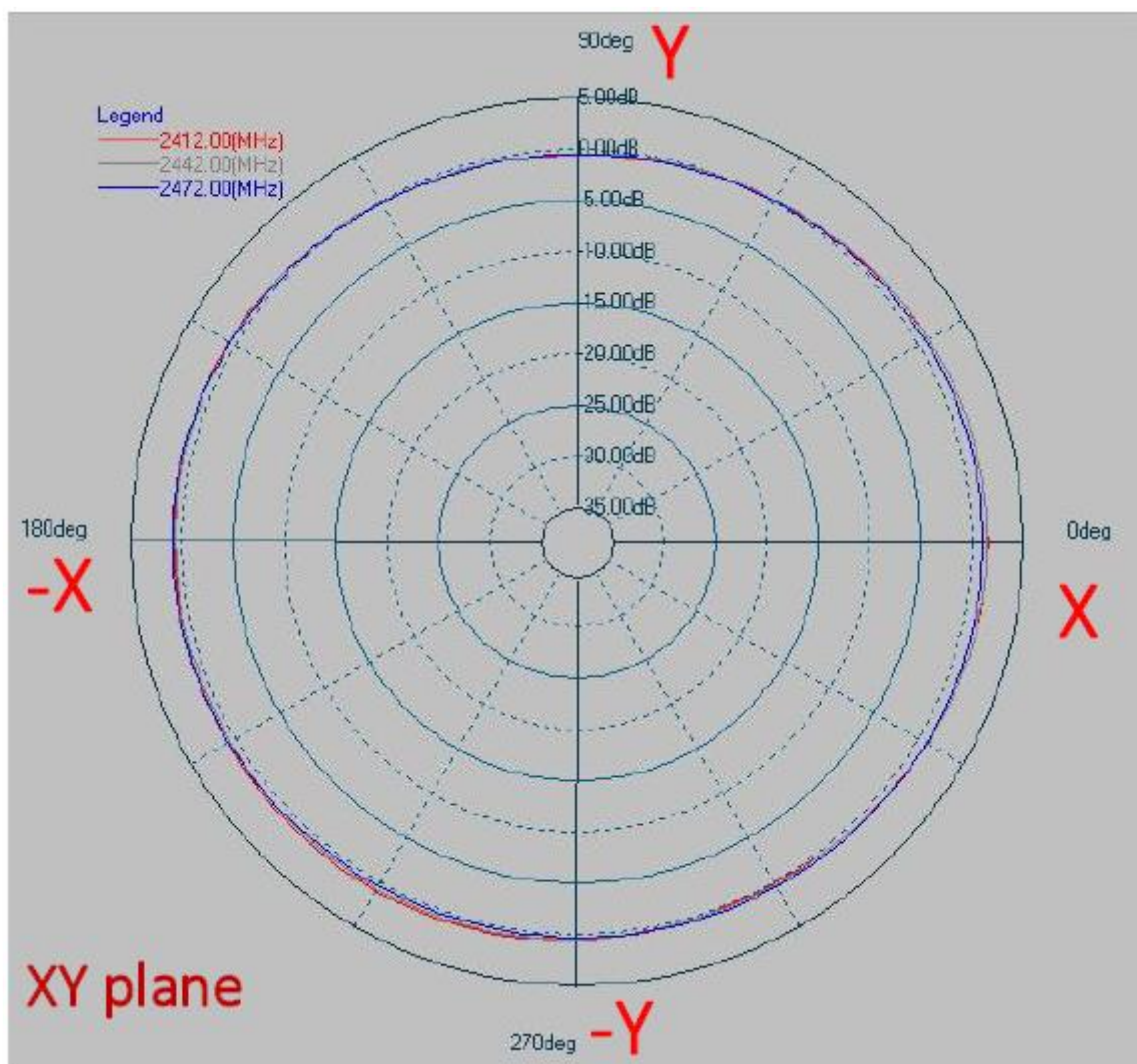
Gain . dB



Phi=90.00deg
Gain . Db

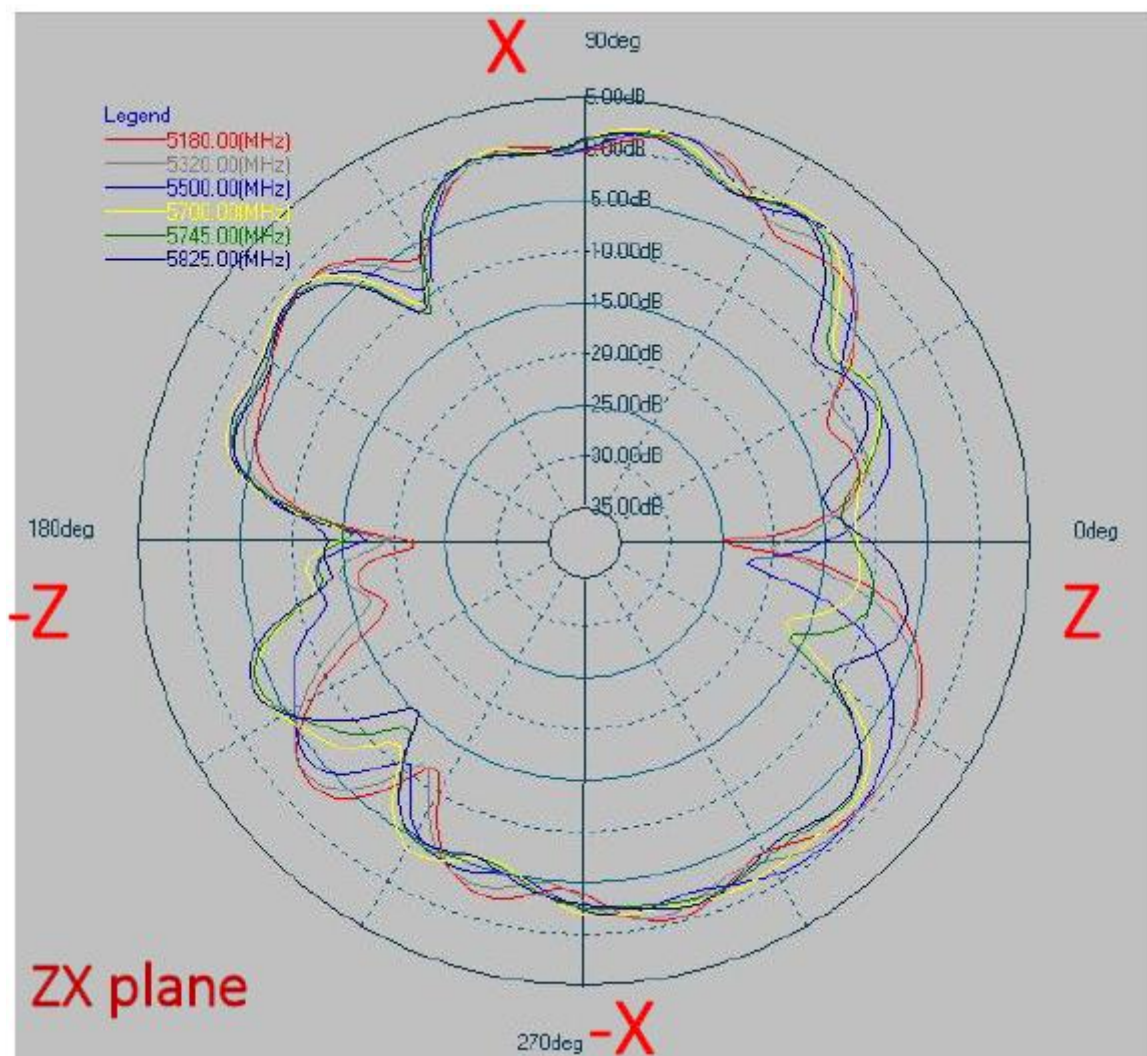


Theta=90.00deg
Gain . dB

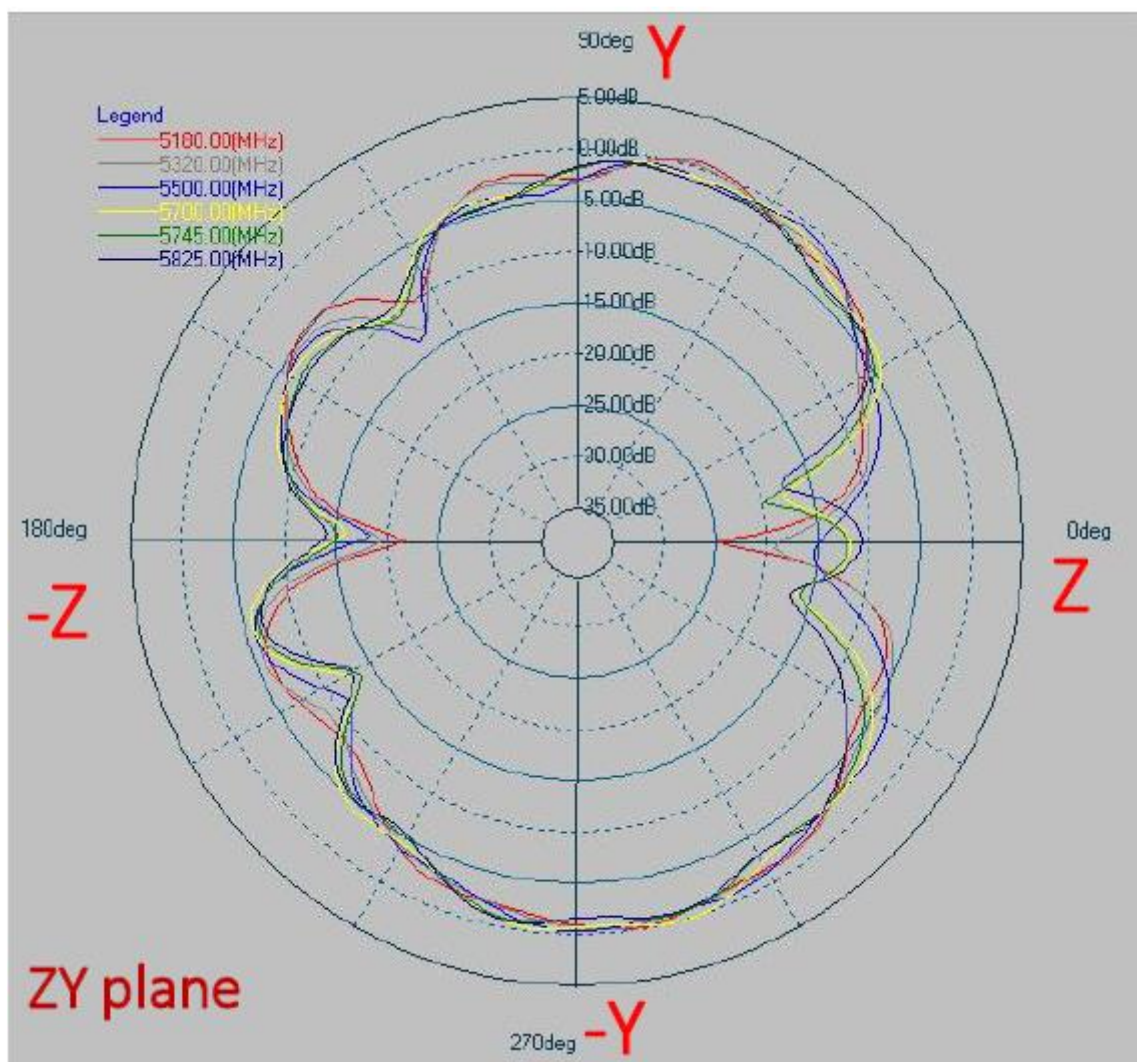


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2412	1.85	-2.66	1.15	-2.43	1.57	0.57
2442	1.80	-2.56	1.08	-2.39	1.53	0.52
2472	1.20	-2.65	1.03	-2.51	1.10	0.42

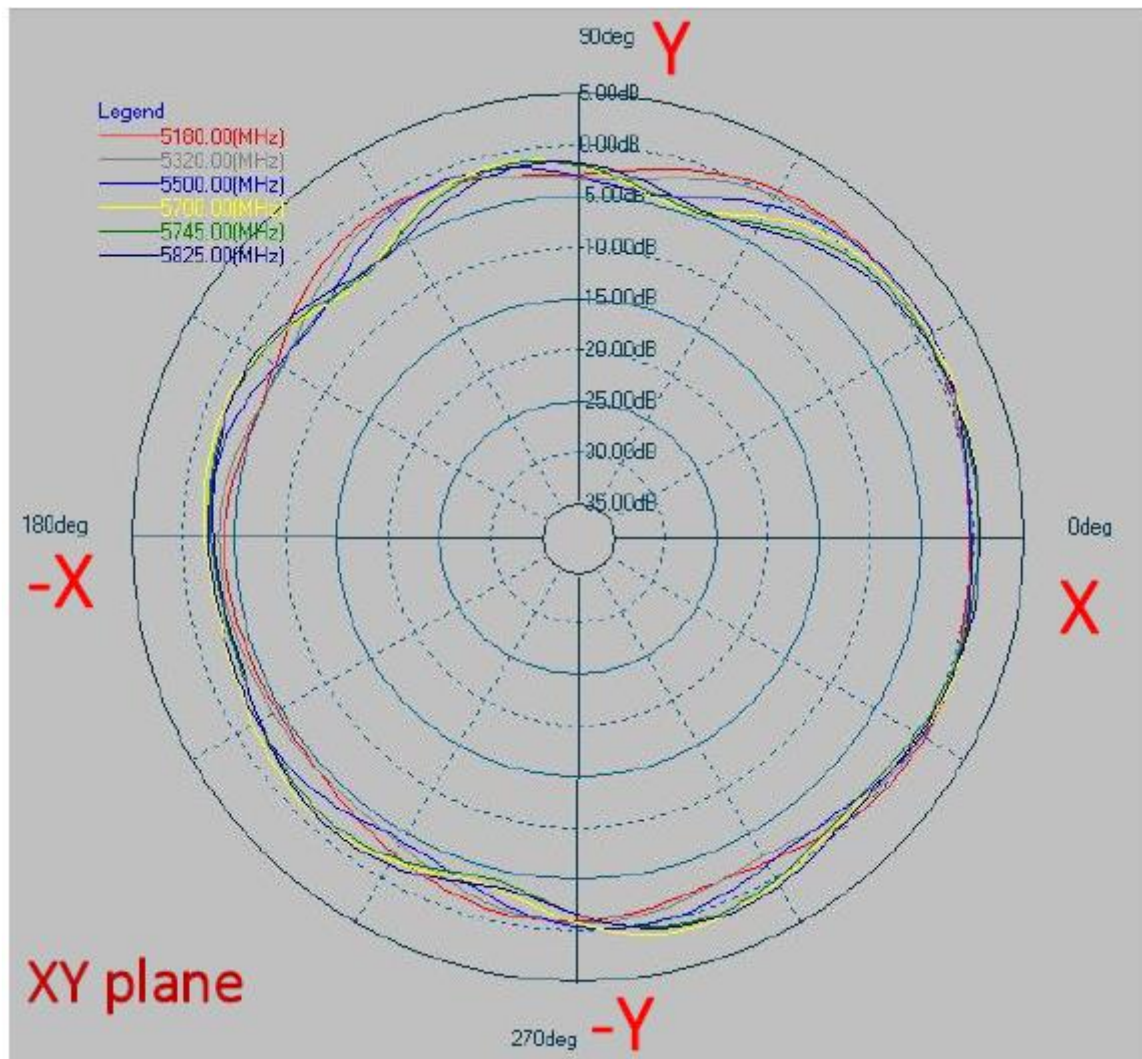
5150~5850 MHz

Phi=0.00deg
Gain . dB

Phi=90.00deg
Gain . dB



Theta=90.00deg
Gain . dB



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5180	2.12	-3.26	0.48	-4.15	1.16	-1.37
5320	2.24	-3.16	0.10	-4.17	1.06	-1.57
5500	2.32	-3.11	-0.46	-4.17	1.42	-1.38
5700	2.29	-3.11	-0.06	-4.14	1.28	-1.01
5745	1.86	-3.67	-0.82	-4.75	0.77	-1.44
5825	1.74	-3.69	-0.86	-4.79	1.08	-1.30