



ARY196-0346-002-00

Engineer : Ting

Report date : 2022/12/19 REV.02



Antenna manufacturer's address

驊陞科技股份有限公司

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東莞驊國電子有限公司

中國東莞市厚街鎮環崗工業區新保威工業城

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FORTINET®

**FG-3701F, FG-3700F, FG-3201F, FG-3200F
FG-3701F-DC, FG-3700F-DC,
FG-3201F-DC, FG-3200F-DC**

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Revision History

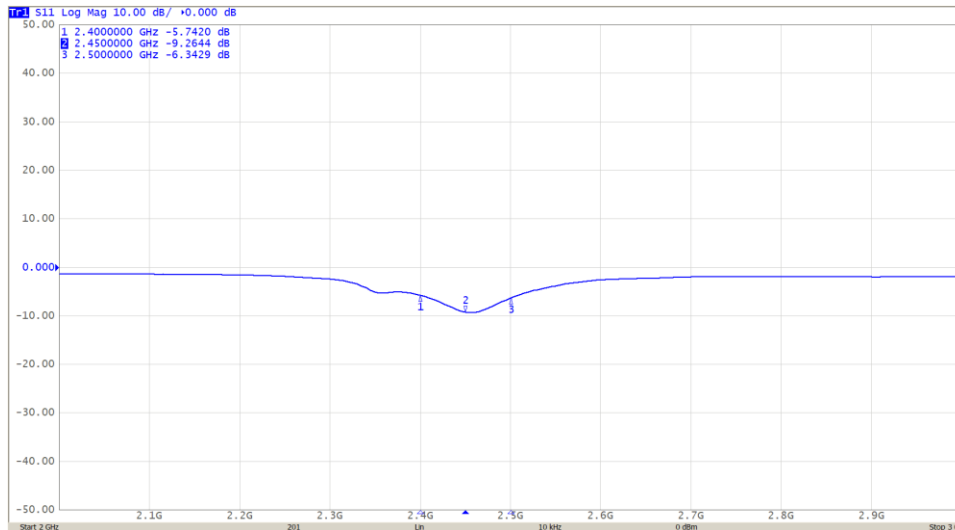
Revision	Date	Engineer	Description
01	2022/09/13	Ting	New Release
02	2022/12/19	Ting	Change Antenna Type

Antenna specification

Item	Specification
Operating Frequency(MHz)	2400-2500
Bandwidth	100MHz (Min.)
Return Loss	5.7dB Typical
Polarization	Linear
Azimuth Bandwidth	Omni-directional
Peak Gain	-0.2dBi (Max)
Impedance	50Ω
Material	FPC
Maximum Power	1W
V.S.W.R	3.1: 1
Radiation	Omni directional
Efficiency	37% (Max)
Connector	MHF I
Cable type	OD: 1.13
Operating Temperature	-10~60°C
Storage temp	-10~70°C

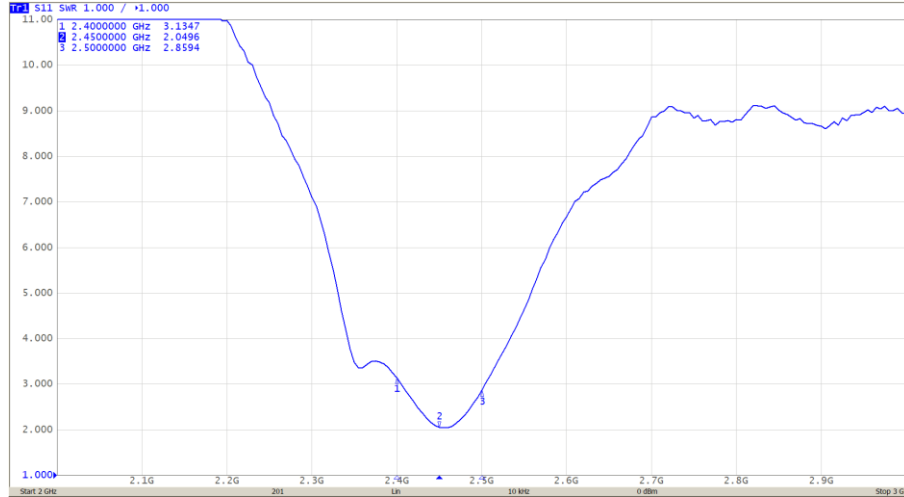
Antenna Measurement Vector Network Analyzer

S-parameter



Frequency (MHz)	2400	2450	2500
S11(dB)	-5.7	-9.2	-6.3

VSWR



Frequency (MHz)	2400	2450	2500
	3.1	2	2.8

The antenna anechoic chamber measurement

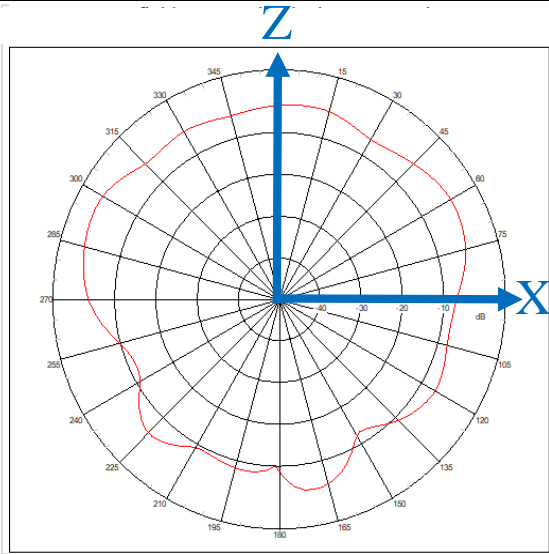
3D Gain Total

Frequency(GHz)	Gain(dBi)	3D-avg Gain(dBi)	Efficiency(%)	Peak Gain W/O Cable Loss(dBi)	Cable Loss(dB)
2.4	-0.45	-5.38	29	0.3	0.75
2.41	-0.27	-5.08	31	0.49	0.76
2.42	-0.36	-4.99	32	0.43	0.79
2.43	-0.2	-4.71	34	0.59	0.79
2.44	-0.26	-4.55	35	0.54	0.8
2.45	-0.37	-4.34	37	0.44	0.81
2.46	-0.44	-4.28	37	0.35	0.79
2.47	-0.45	-4.37	37	0.34	0.79
2.48	-0.91	-4.84	33	-0.11	0.8
2.49	-1.28	-5.22	30	-0.51	0.77
2.5	-1.55	-5.56	28	-0.82	0.73

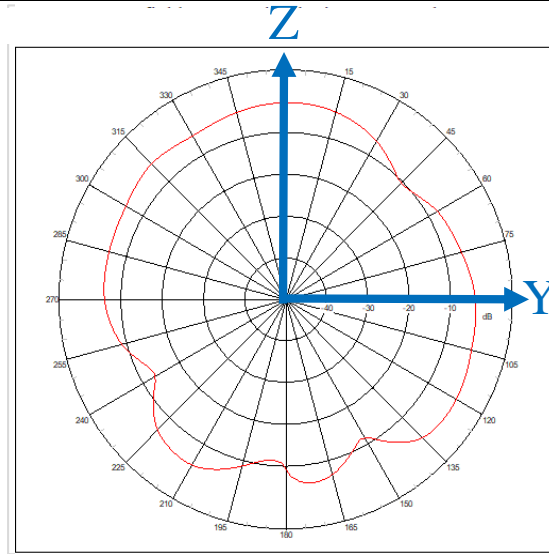
2D Pattern

Frequency: 2400 MHz

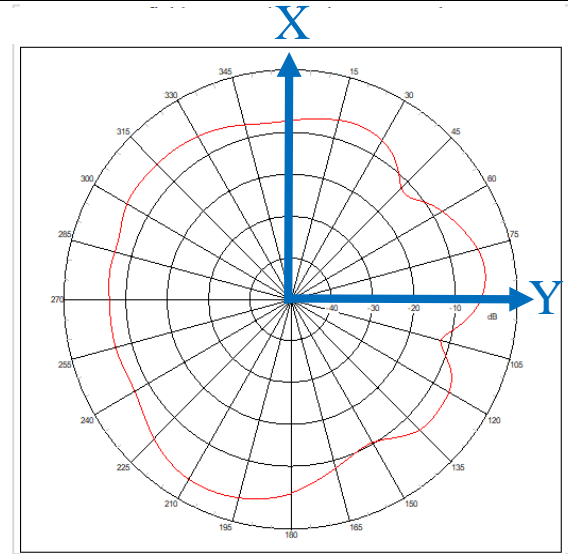
XZ-plane



YZ-plane



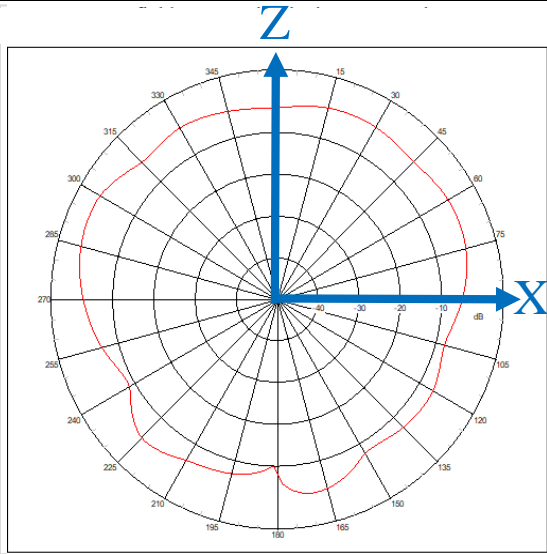
XY-plane



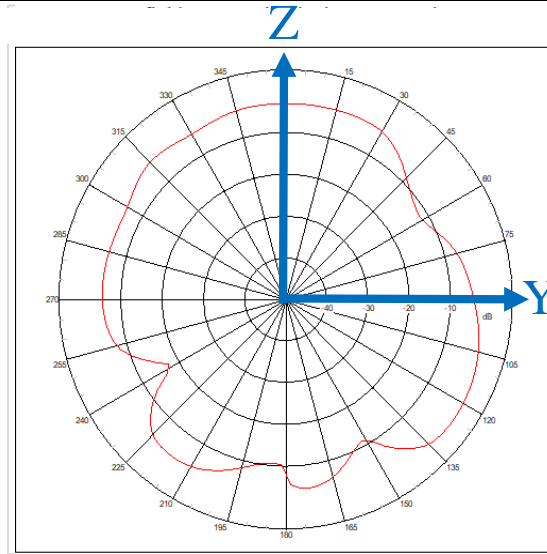
2D Pattern

Frequency: 2450 MHz

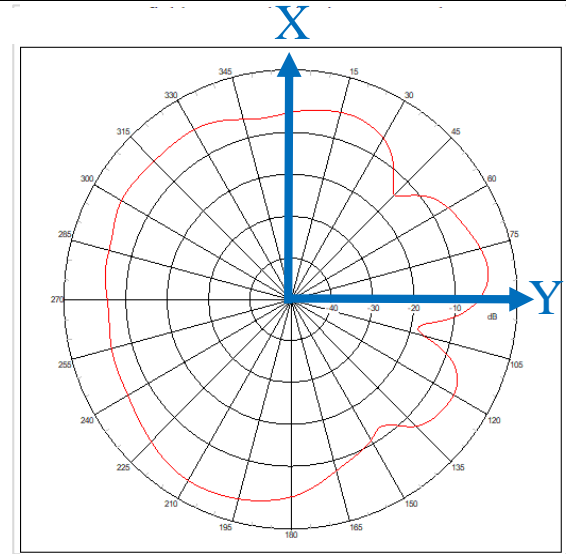
XZ-plane



YZ-plane



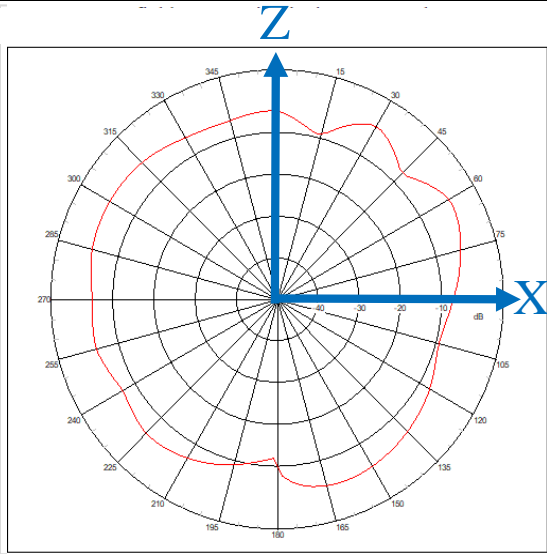
XY-plane



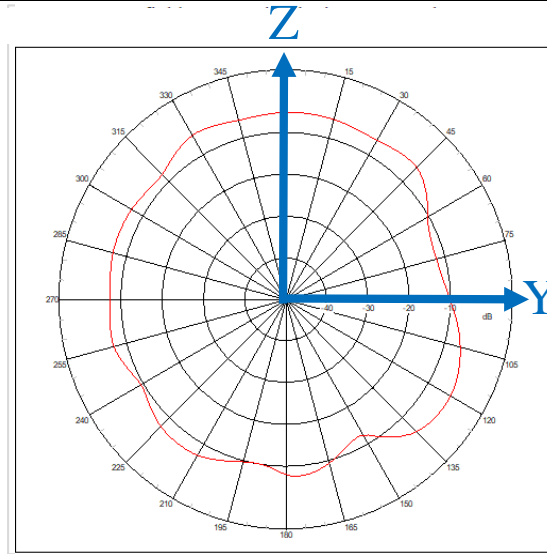
2D Pattern

Frequency: 2500 MHz

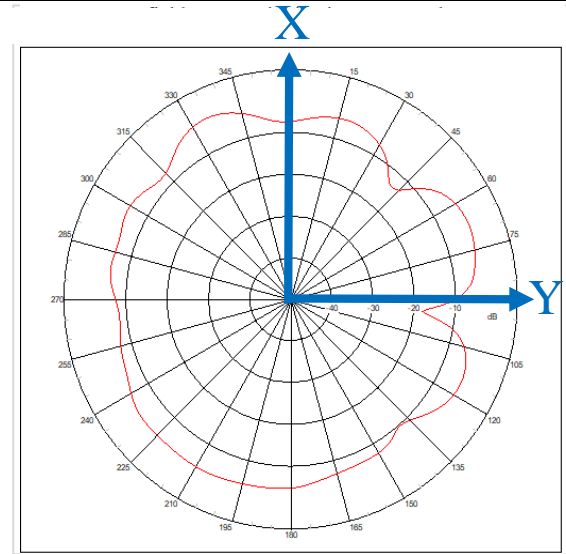
XZ-plane



YZ-plane



XY-plane





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