



規格承認書

Specification for Approval

客 戶 : 廣 積
Customer
品 名 : RF ANTENNA
Part name
料 號 : ARY196-0047-014-00 (產地: 廣東東莞)
Part No.
客戶料號:
Customer Part No.
Rev.(版本): 03

客戶承認印 CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR
Approval No.		
Model		
Part No.		

CHIEF	SALES	R&D	DESIGN
ROX	Terry	ROX	REASON
Date: 2023/03/02		Date: 2023/03/02	
聯 陞 科 技 股 份 有 限 公 司 WIESON TECHNOLOGIES CO., LTD. 東 莞 聯 國 電 子 有 限 公 司 Wieson Technologies (Dong Guan) Co., LTD. Address : HuanGang Ind. Area, Houjie Town, Dong Guan City, GuangDong Province 523946, China			

表格編號 : 324012 版本: 第四版

1

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4

Customer Drawing

RoHS Compliant

REV	DATE	DESCRIPTION	ECN NO.	NAME
A1	24.07.23	NEW RELEASE		

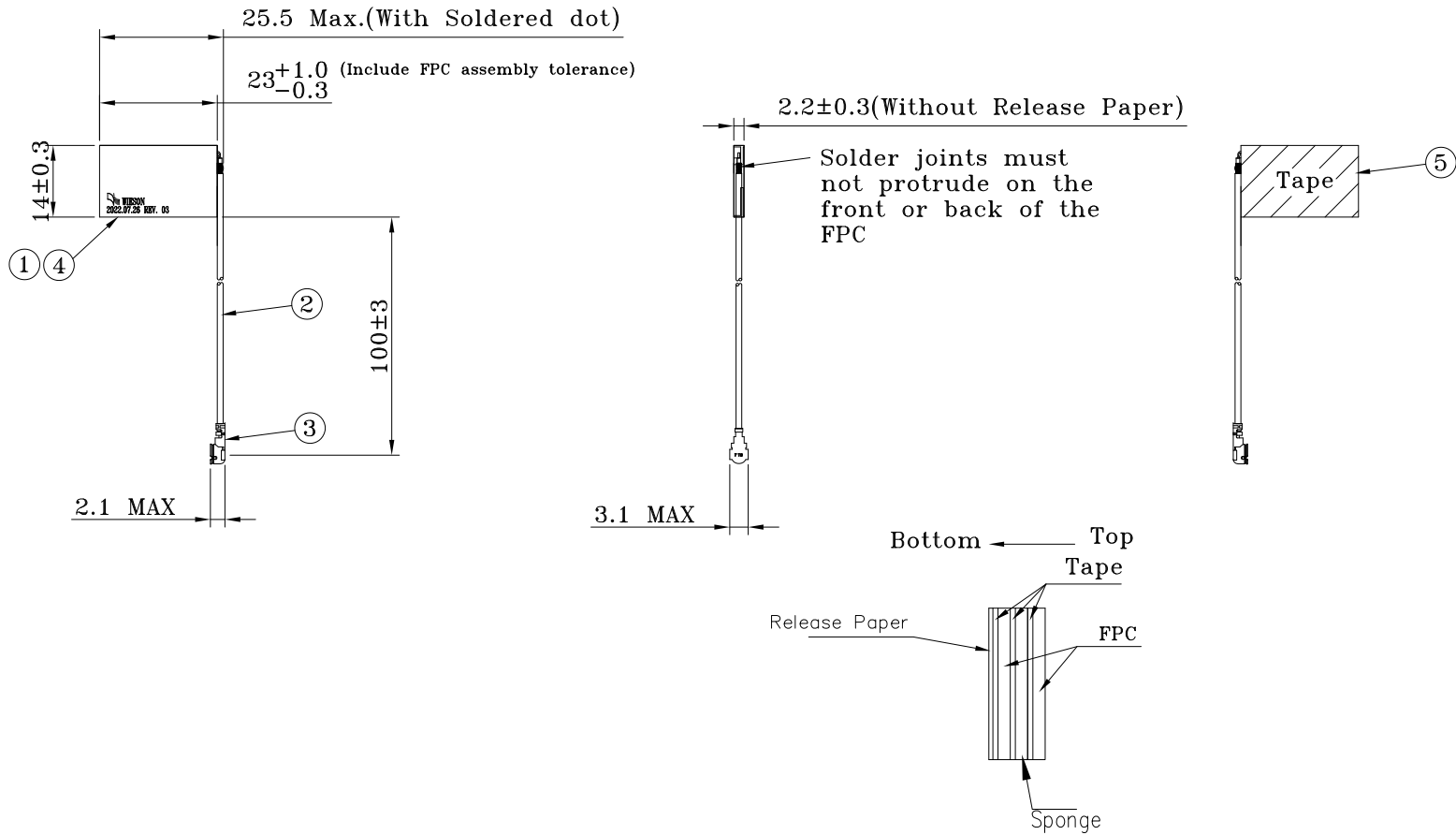
A

B

C

D

E



NOTE:
1.USE ENVIRONMENTAL PROTECT MATERIAL(RoHS Compliant)

CUST NO.:
PART NO.: ARY196-0047-014-00

⑤	Tape	3M9448HK Tape , Size:23 x 14mm	1	TITLE: ANTENNA			
④	Tape+Sponge	3M9448HK , Size:23 x 14 x 2.0mm	1				
③	Connector	MHF I Plug For 1.13mm Cable , Gold Plated	1	DRAWN BY	WEN(WST)	DRAWING NO.	ARY196-0047-014-00
②	Cable	1.13mm Low Loss Coaxial Cable , FEP Black Jacket	1	CHECKED BY		DRAWING SIZE	A4
①	FPC	FPC , FPC Size: 48 x 14mm	1	APPROVED BY		UNIT	mm
NO.	ITEM	DESCRIPTION	QTY	SORTING NO.	WSC	PAGE	1 OF 1

 WIESON TECHNOLOGIES CO., LTD.	SPECIFICATION LIST	TYPE OF PRODUCT
		RF ANTENNA

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WIESON

				Approvals	
Rev	Date	Description	Edited by	Prepared :	REASON
01	23.03.02	ISSUE	REASON	Checked :	JOSN
02	24.07.29	MODIFY TEST REPORT		Approved :	ROX
03	24.08.05	UPDATE TEST REPORT		Issued No :	03
				Sheet :	1 OF 117

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WIESON TECHNOLOGIES CO., LTD.



WIESON TECHNOLOGIES CO.,LTD

BILL OF MATERIAL

Cust.		廣積	TITLE	RF ANTENNA				
Cust.P/N			WIESON P/N	ARY196-0047-014-00				
NO.	DESCRIPTION		SUPPLIER	SUPPLIER PART NO.	UL NO.	AVL	QUANTITY	REMARK
1	FPC , FPC Size: 48 x 14mm		/	FPC	/		1PCS	
2	1.13mm Low Loss Coaxial Cable , FEP Black Jacket		/	CABLE	/		MM	
3	MHF I Plug For 1.13mm Cable , Gold Plated		/	Connector	/		1PCS	
4	3M9448HK , Size:23 x 14 x 2.0mm		/	Tape+Sponge			1PCS	
5	3M9448HK Tape , Size:23 x 14mm(FPC)			TAPE			1PCS	
6								
7								
8								

APPROVED BY: ROX

CHECKD BY: FOUNTAIN

DESIGNED BY: REASON



廣積 FG-200G

Engineer : Ting

Report date : 2024/08/05 REV.01



Revision History

Revision	Date	Engineer	Description
01	2024/08/05	Ting	New Release

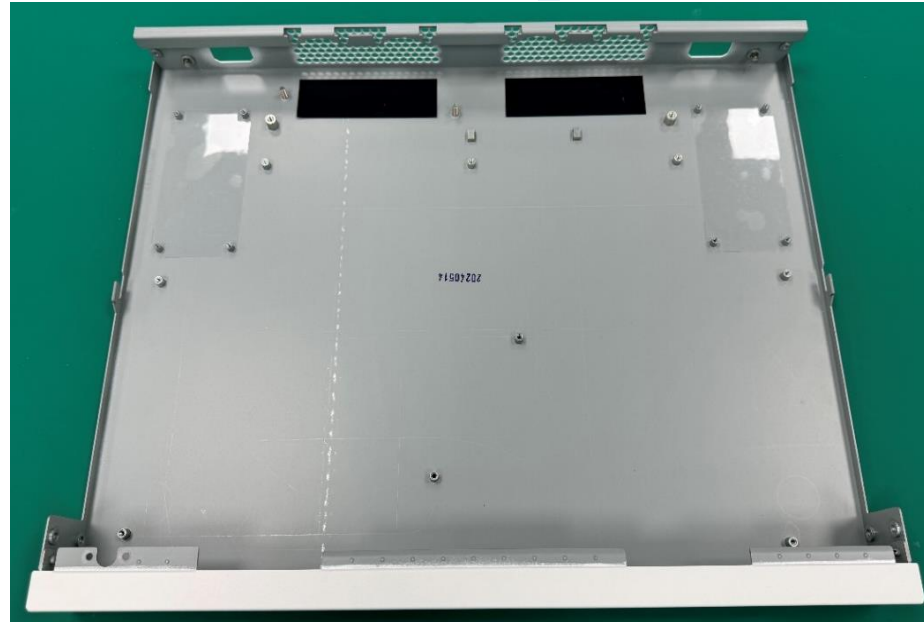
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- ◆ **The antenna Vector network analyzer measurement**
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 - **Antenna VSWR measurement**
- ◆ **The antenna anechoic chamber measurement**
 - **Antenna Gain Value**
 - **Antenna Pattern**

Antenna specification

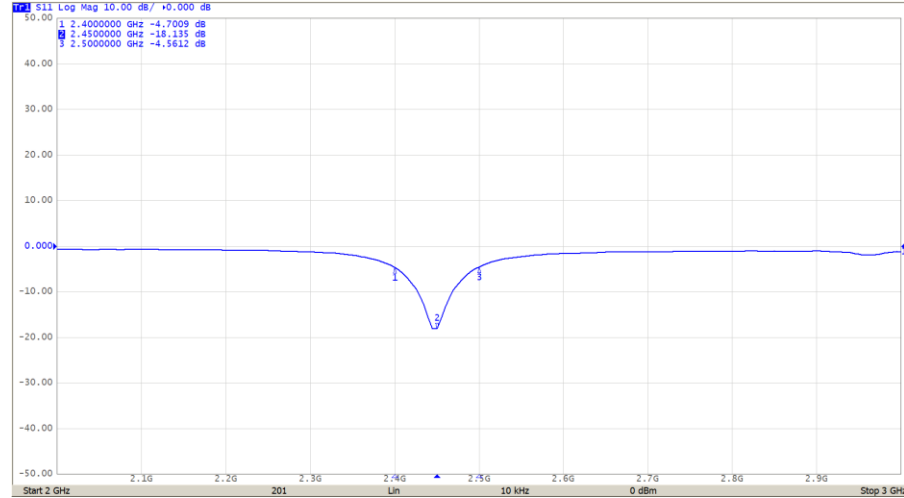
Item	Specification
Operating Frequency(MHz)	2400-2500
Bandwidth	100MHz (Min.)
Return Loss	4.5dB (Min.)
Polarization	Linear
Azimuth Bandwidth	Omni-directional
Peak Gain	0.93dBi (Max)
Impedance	50Ω
Material	FPC
Maximum Power	1W
V.S.W.R	3.8 : 1
Radiation	Omni directional
Efficiency	36%(MAX)
Connector	MHF I
Cable type	OD: 1.13 LL
Operating Temperature	-55~125°C
Storage temp	5~40°C

Antenna photo



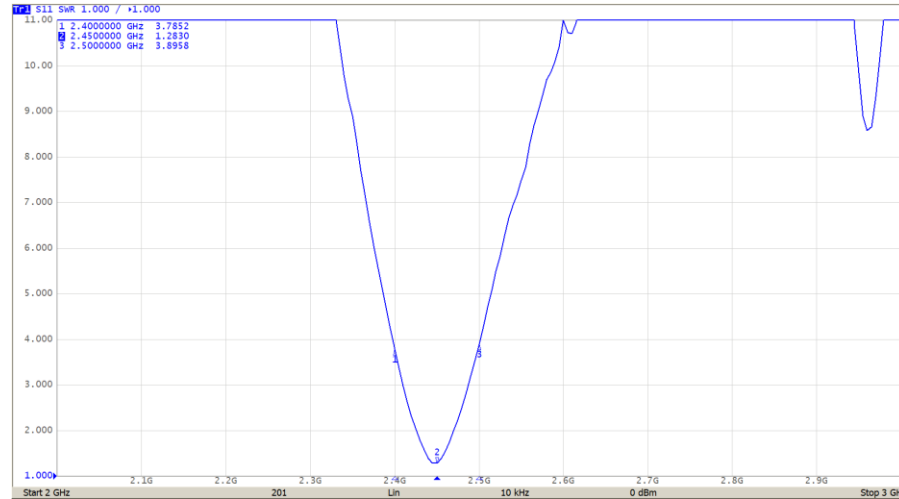
Antenna Measurement Vector Network Analyzer

S-parameter



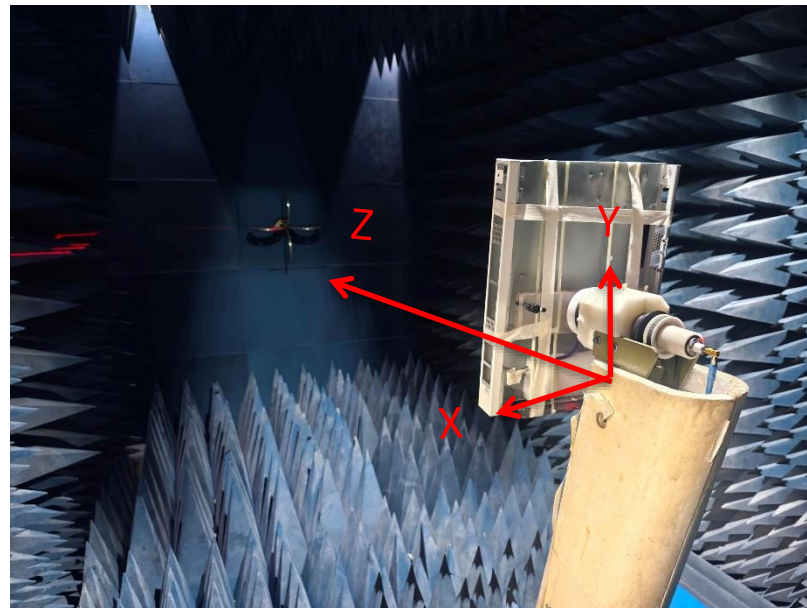
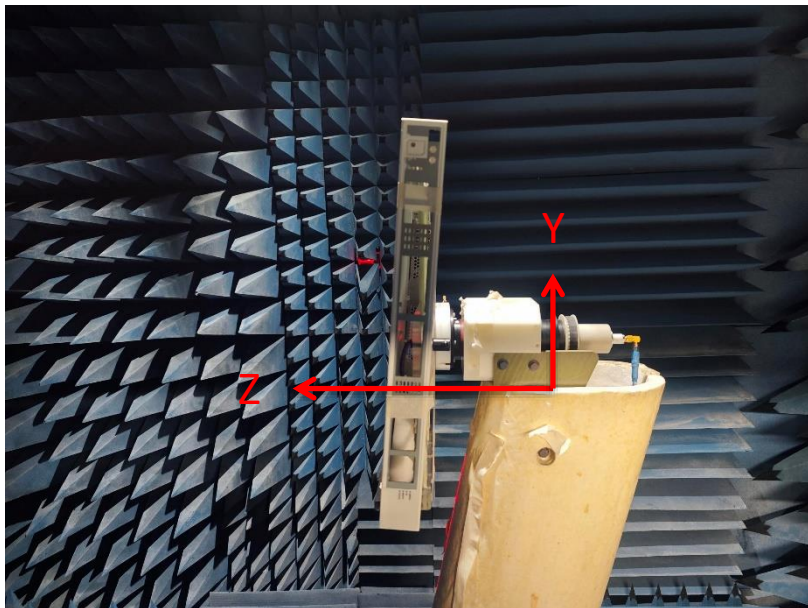
Frequency (MHz)	2400	2450	2500
S11(dB)	-4.7	-18.1	-4.5

VSWR



Frequency (MHz)	2400	2450	2500
VSWR	3.7	1.2	3.8

Chamber Measurement Photo



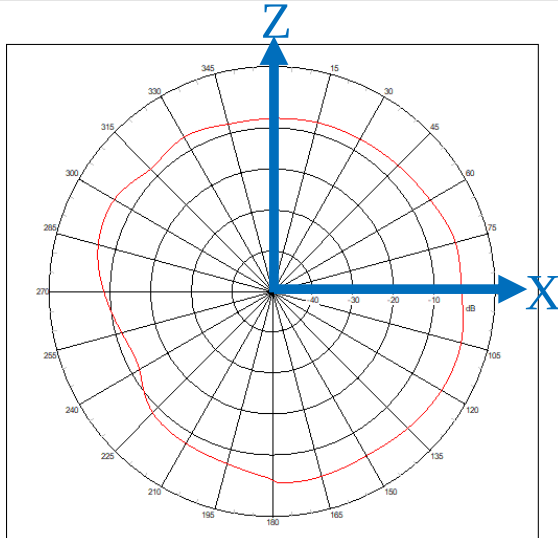
3D Gain Total

Frequency (GHz)	Peak Gain (dBi)	3D-AVG Gain (dBi)	3D Radiation Efficiency (%)
2.4	-1.14	-6.52	22
2.41	-0.35	-5.7	27
2.42	0.04	-5.24	30
2.43	0.32	-4.98	32
2.44	0.68	-4.67	34
2.45	0.93	-4.41	36
2.46	0.37	-4.99	32
2.47	-0.11	-5.49	28
2.48	-0.7	-6.09	25
2.49	-1.16	-6.56	22
2.5	-1.68	-7.06	20

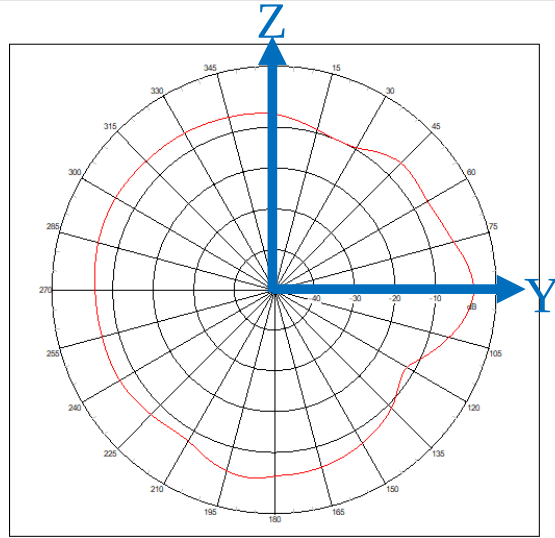
Antenna Pattern

2400MHz

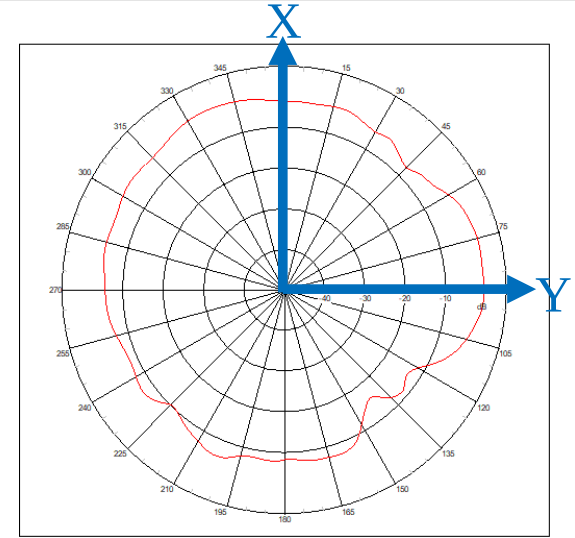
XZ-plane



YZ-plane



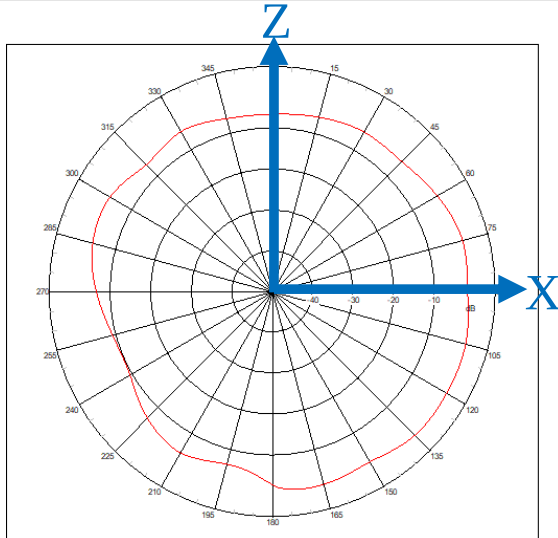
XY-plane



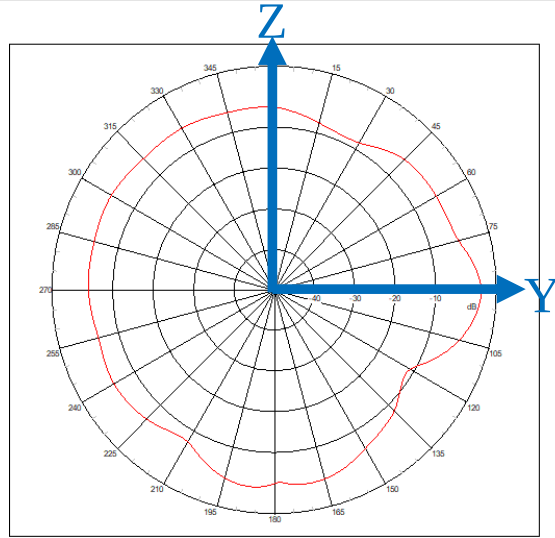
Antenna Pattern

2450MHz

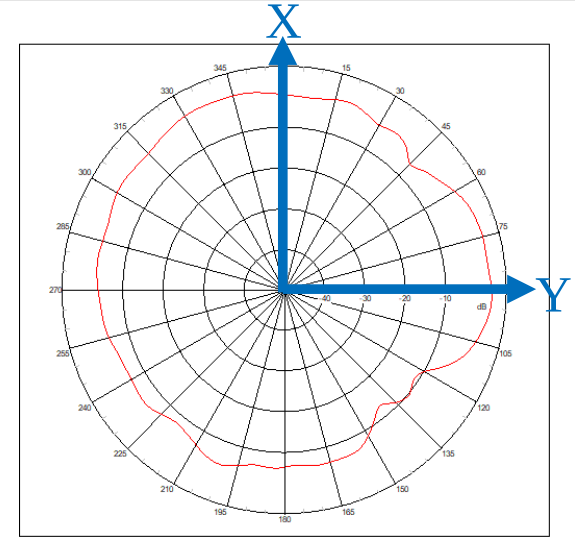
XZ-plane



YZ-plane



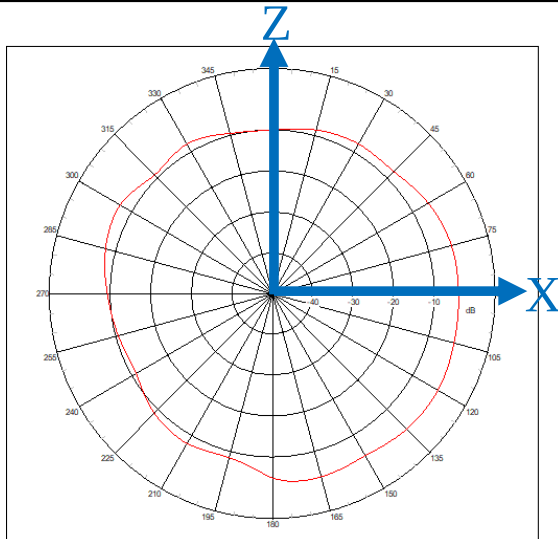
XY-plane



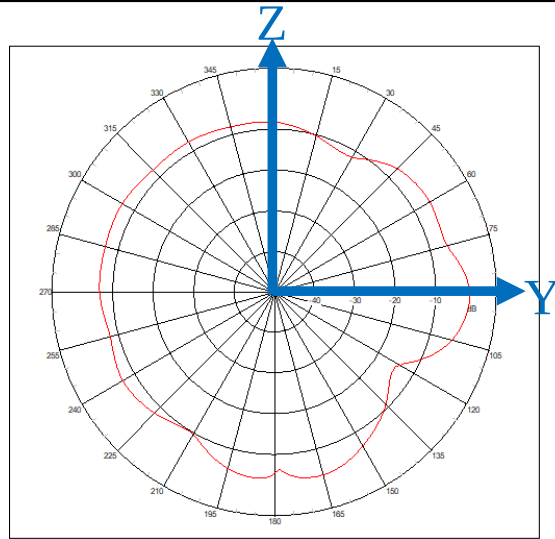
Antenna Pattern

2500MHz

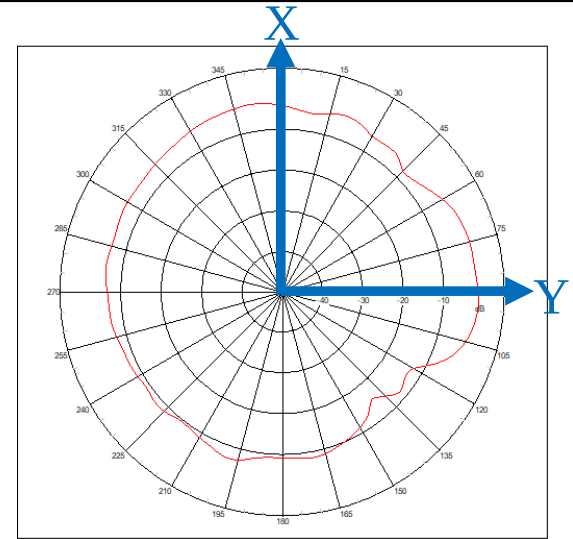
XZ-plane



YZ-plane



XY-plane





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MAKING THE PERFECT CONNECTION

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