

Shenzhen ZTX Communication Technology Co., Ltd.

Component Approval Document	
Supplier Information	Supplier Full Name: Shenzhen ZTX Communication Technology Co., Ltd. Contact Person: Liu Zhenzhen Address: No. 34 Shilong Avenue, Shiyan Town, Bao'an District, Shenzhen (Tengda Industrial Park) Phone: 13823731365 Email: liuzhenzhen@chinaztx.com
Product Description	Project Name: CXL All-in-One Unit Specification Model: CXL All-in-One Unit_ANT2 Antenna Assembly Product Name: ANT2 Antenna Assembly Document Version: A0 Material Code: 2.00002004 Submission Date: 2025.10.24
Approval Documents	☐ QC Engineering Drawing ☒ Specification/Engineering Drawing Side ☐ Sample ☐ CPK Report ☐ FAI Full-Dimension Report ☐ Reliability Test Report ☐ Packaging Method ☐ Environmental Data
Supplier Signature (must be stamped)	Prepared by: Liu Changlin Reviewed by: Wang Pei Approved by: Zou Guohua For R&D Use Only

To be filled in by iFlytek review

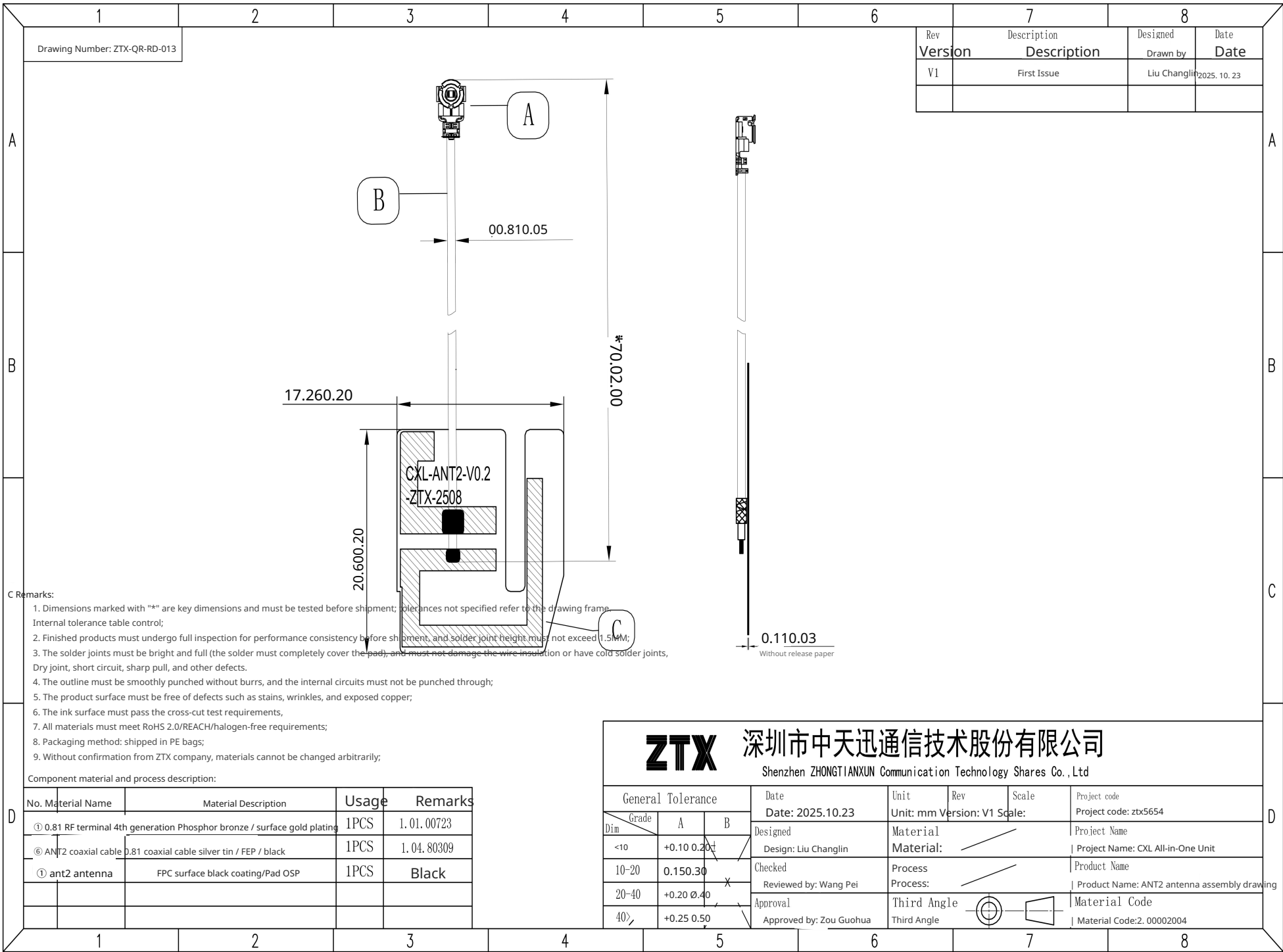
iFlytek Technical Confirmation Section	Structure: ☐ Part Number/Specification ☐ Size/Tolerance ☐ 2D Drawing/Specification ☐ Process/Technology/Reliability	Hardware: ☐ Part Number ☐ Specification ☐ Pin Definition ☐ Electrical Performance	Packaging Design: ☐ Part Number/Specification ☐ Size/Tolerance ☐ 2D Drawing/Specification ☐ Packaging Method
	Industrial Design: ☐ Housing Design and Color ☐ Surface Treatment Process ☐ Appearance	Quality: ☐ Appearance ☐ QC Engineering Drawing ☐ Environmental Data ☐ Packaging and Transportation ☐ Reliability Test Report ☐ Meet Trial Production Yield ☐ Others: _____	
Approval Conditions:	☒ Approval ☐ Rejection of Approval ☐ Conditional Approval Conditions to be met: ☐ Temporary Approval Limit _____ PCS Purchase		
Signature Confirmation	Technical: Item: Quality		

Contents

[illegible]

Revision History Table

[illegible]



C Remarks:

1. Dimensions marked with "*" are key dimensions and must be tested before shipment; tolerances not specified refer to the drawing frame. Internal tolerance table control;
2. Finished products must undergo full inspection for performance consistency before shipment, and solder joint height must not exceed 1.5mm;
3. The solder joints must be bright and full (the solder must completely cover the pad), and must not damage the wire insulation or have cold solder joints, Dry joint, short circuit, sharp pull, and other defects.
4. The outline must be smoothly punched without burrs, and the internal circuits must not be punched through;
5. The product surface must be free of defects such as stains, wrinkles, and exposed copper;
6. The ink surface must pass the cross-cut test requirements,
7. All materials must meet RoHS 2.0/REACH/halogen-free requirements;
8. Packaging method: shipped in PE bags;
9. Without confirmation from ZTX company, materials cannot be changed arbitrarily;

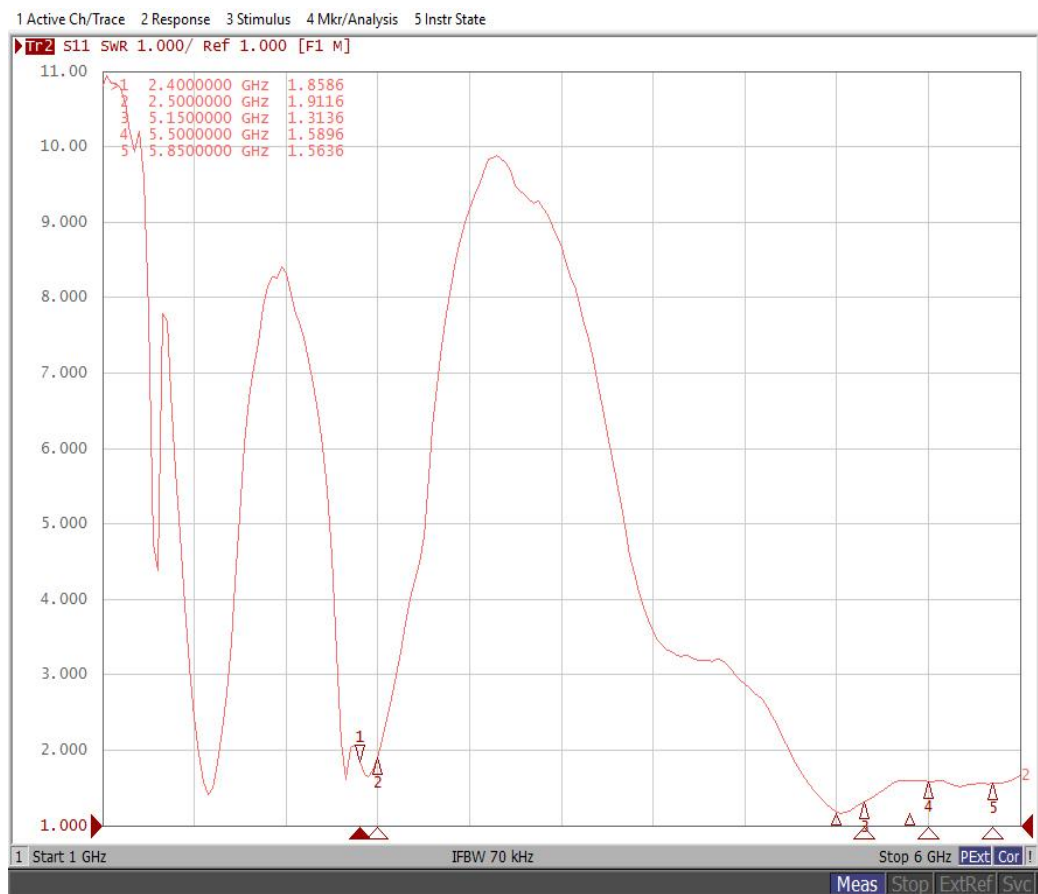
Component material and process description:

No.	Material Name	Material Description	Usage	Remarks
①	0.81 RF terminal	4th generation Phosphor bronze / surface gold plating	1PCS	1. 01. 00723
⑥	ANT2 coaxial cable	0.81 coaxial cable silver tin / FEP / black	1PCS	1. 04. 80309
①	ant2 antenna	FPC surface black coating/Pad OSP	1PCS	Black

ZTX 深圳市中天迅通信技术有限公司 Shenzhen ZHONGTIANXUN Communication Technology Shares Co.,Ltd			
General Tolerance		Date Date: 2025.10.23	Unit Unit: mm
Dim	Grade	A	B
	<10	+0.10 0.20	
	10-20	0.150.30	
	20-40	+0.20 0.40	
	40>	+0.25 0.50	
Designed Design: Liu Changlin		Material Material:	Project Name Project Name: CXL All-in-One Unit
Checked Reviewed by: Wang Pei		Process Process:	Product Name Product Name: ANT2 antenna assembly drawing
Approval Approved by: Zou Guohua		Third Angle Third Angle	Material Code Material Code: 2. 00002004

Test Results Summary

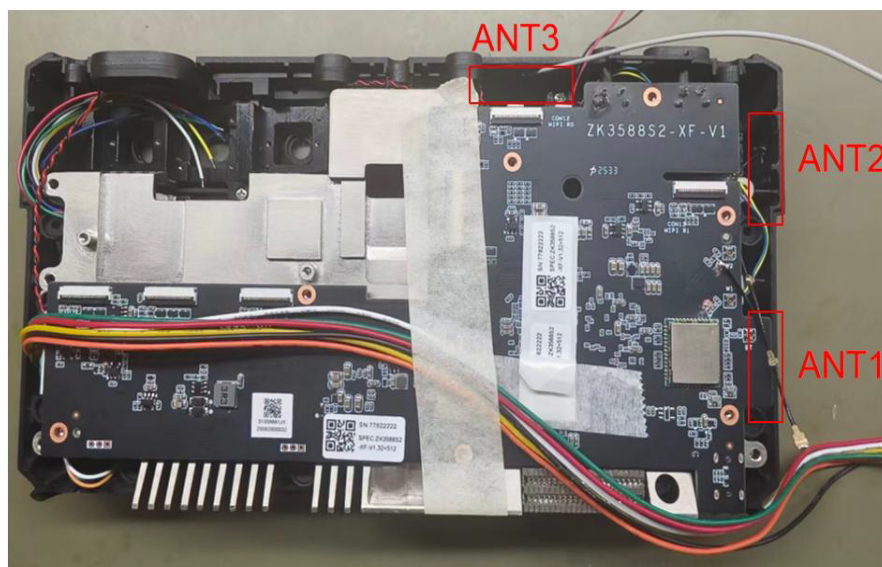
S11



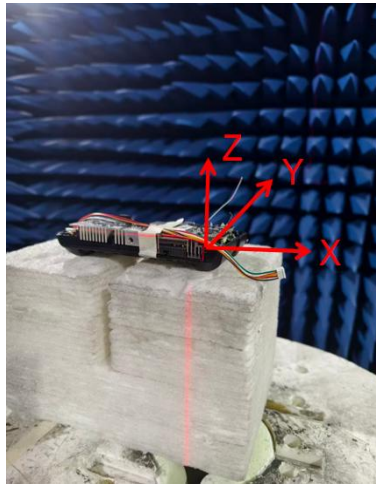
Passive Test

ANT2			
Frequency	Efficiency	Efficiency . dB	Gain . dB
2400MHz	0.508034367	-2.941069083	2.668292238
2410MHz	49%	-3.09	2.55
2420MHz	50%	-2.99	2.44
2430MHz	49%	-3.10	2.12
2440MHz	50%	-3.05	2.06
2450MHz	50%	-3.04	2.16
2460MHz	51%	-2.91	2.43
2470MHz	47%	-3.26	2.05
2480MHz	46%	-3.38	1.98
2490MHz	46%	-3.42	2.05
2500MHz	44%	-3.60	1.95
5150MHz	52%	-2.81	1.63
5200MHz	49%	-3.10	1.02
5250MHz	50%	-3.03	1.27
5300MHz	53%	-2.74	1.22
5350MHz	54%	-2.70	1.73
5400MHz	53%	-2.73	1.67
5450MHz	48%	-3.22	1.88
5500MHz	45%	-3.43	1.09
5550MHz	47%	-3.26	1.42
5600MHz	47%	-3.29	1.03
5650MHz	47%	-3.28	1.22
5700MHz	46%	-3.33	1.50
5750MHz	48%	-3.20	1.03
5800MHz	50%	-3.01	1.21
5850MHz	51%	-2.89	1.64

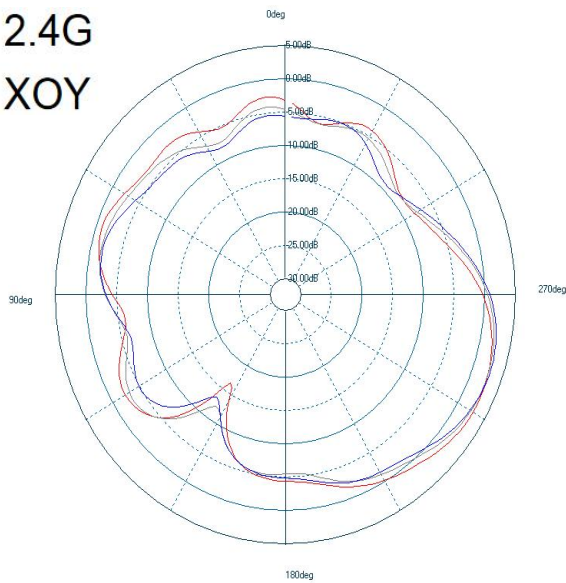
Environment treatment



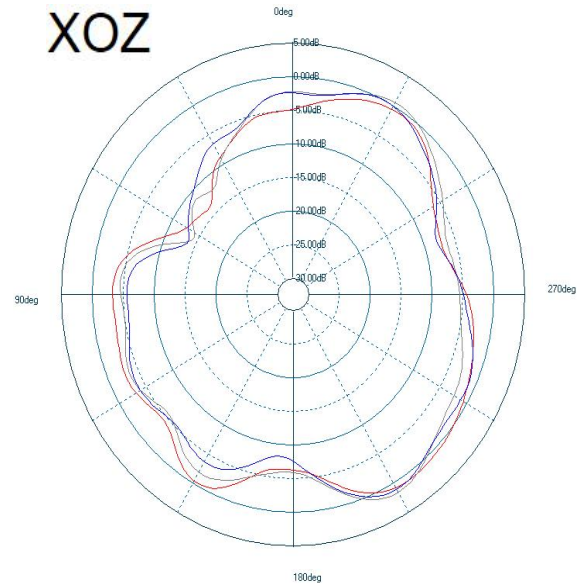
2D/3D Radiation Pattern Results



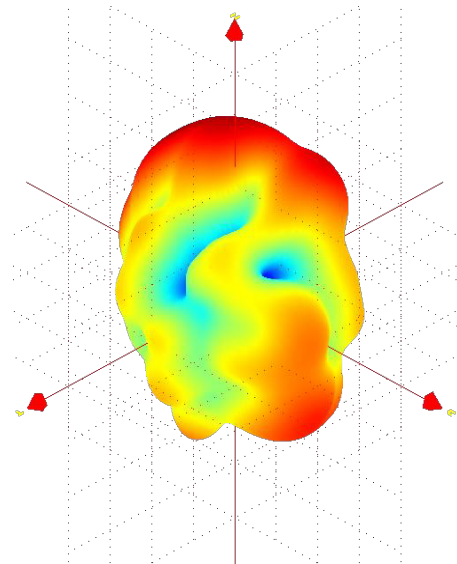
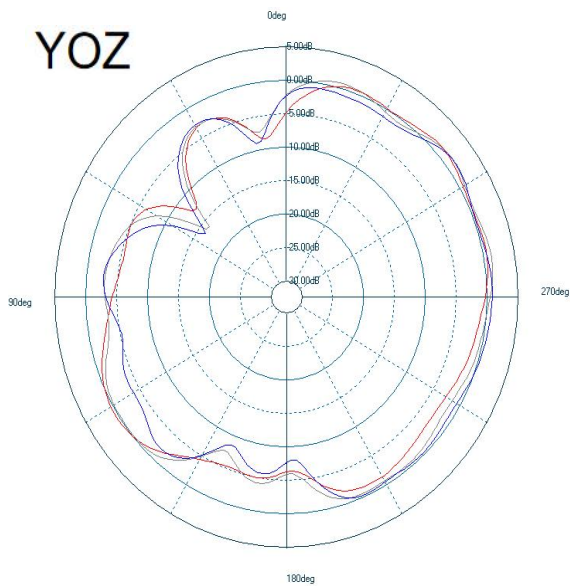
2.4G
XOY



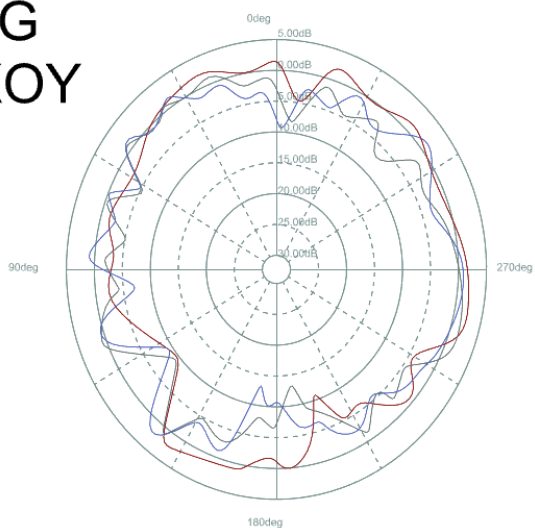
XOZ



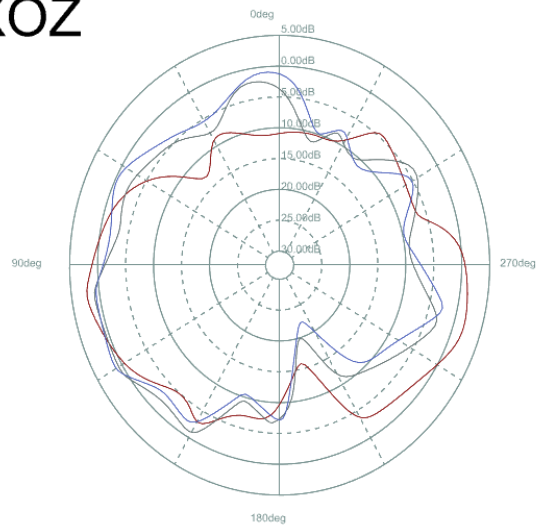
YOZ



5G
XOY



XOZ



YOZ

