

DONGGUAN YIJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

SPECIFICATION FOR APPROVAL

Date 2025/06/19
File No 25061903
Revision 1.0

CUSTOMER: FJ Dynamics Technology Co., Ltd.

CUSTOMER NO: YTX-TX-003068-1A

PART NAME: BT Antenna L=120mm MHF

SUPPLIER NO: YJF01.085.029.303A

Date: Q'TY:

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
ChenGuoqiang	XieLi	ChenXingyi

YJ-RD-F04-A



Yuanfu Industrial Park, No.59, Muyu Road, Shatou Community, Chang'an Town, Dongguan, Guangdong

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Spec Item

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RoHS

Compliant

CUSTOMER

PART NO

REV.

DESCRIPTION

DATE



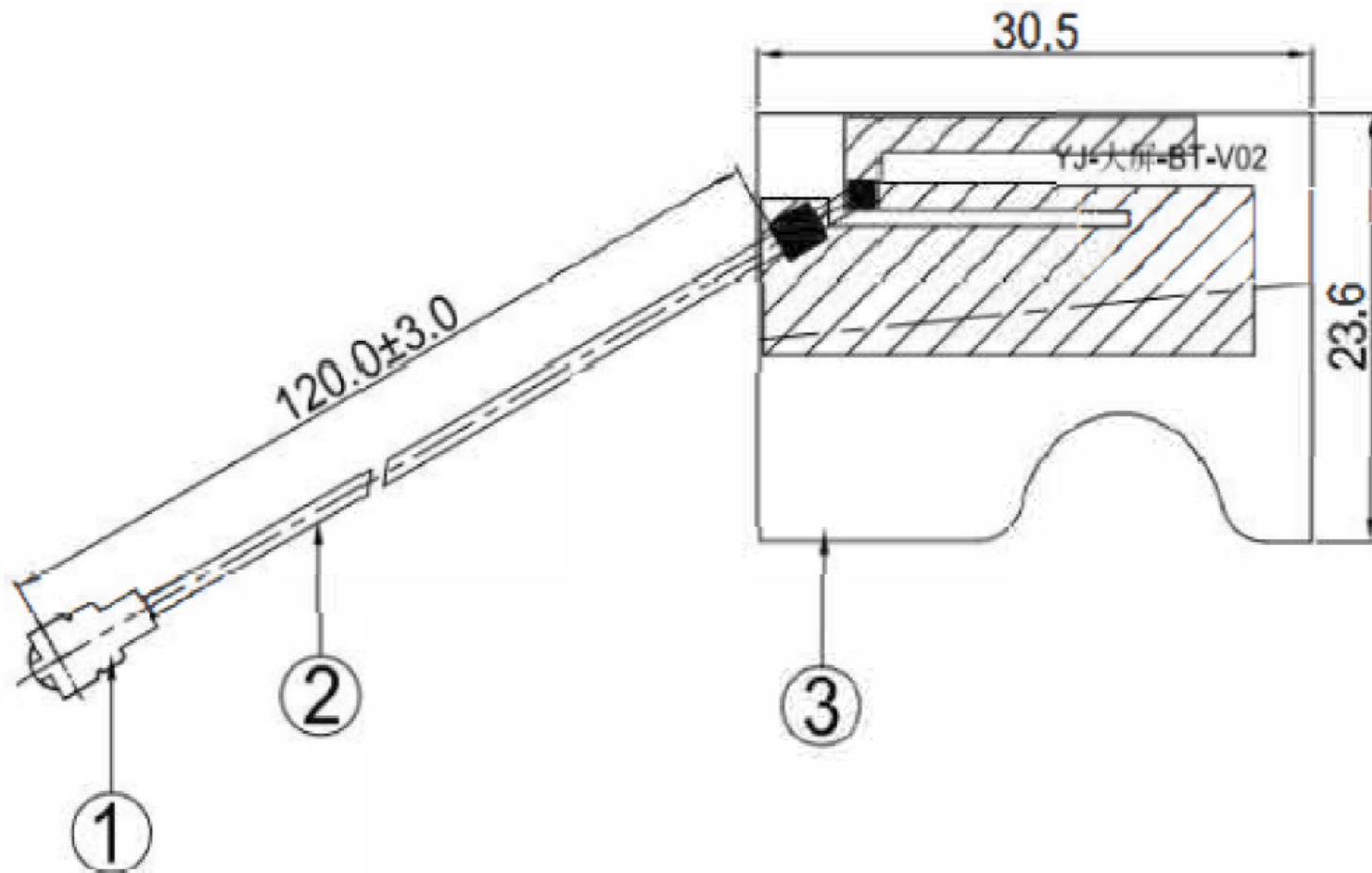
Initial release

2024-08-24



ModifyFPC

2024-10-30



DONGGUAN YJIA ELECTRONICS COMMUNICATION TECHNOLOGY CO., LTD

PART NAME: BT Antenna L=120mm MHF

PART NO.: YJF01.085.029.303A

DATE: 2024-10-30

APPROVED BY

CHECKED BY

DESIGNED BY



Tolerance

Zhou Sheng

Zhou Yingjie

Liao Guangxi

UNITS: mm

SCALE: 1/1

REVISION: B

X.X ±0.50

X.XX±0.15

X° ±3°

3	FPC	30.5*23.6mm	FPC	1
2	Coaxial Cable	O.D.1.13 Black Low loss	O.D.1.13	1
1	Mini Connector	Au Plated 1 Generation	Cu	1
NO	PART NAME	DESCRIPTION	Material	Q.TY

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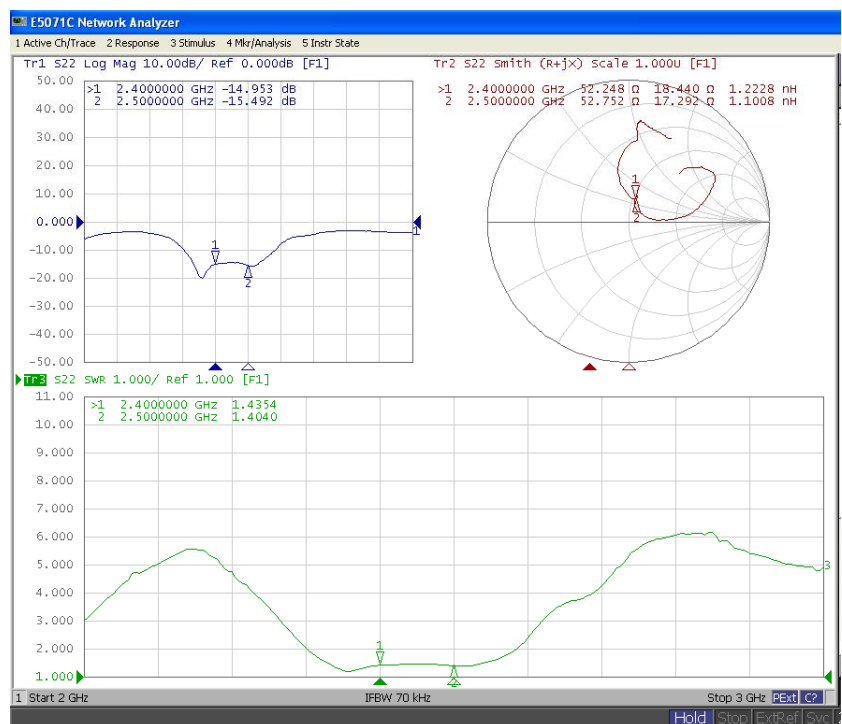
Antenna Specification

Electrical Properties	
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	4.3 dBi
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	1 Generation IPEX
Cable Type	O.D.1.13mm Low loss
Cable Length	120mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%



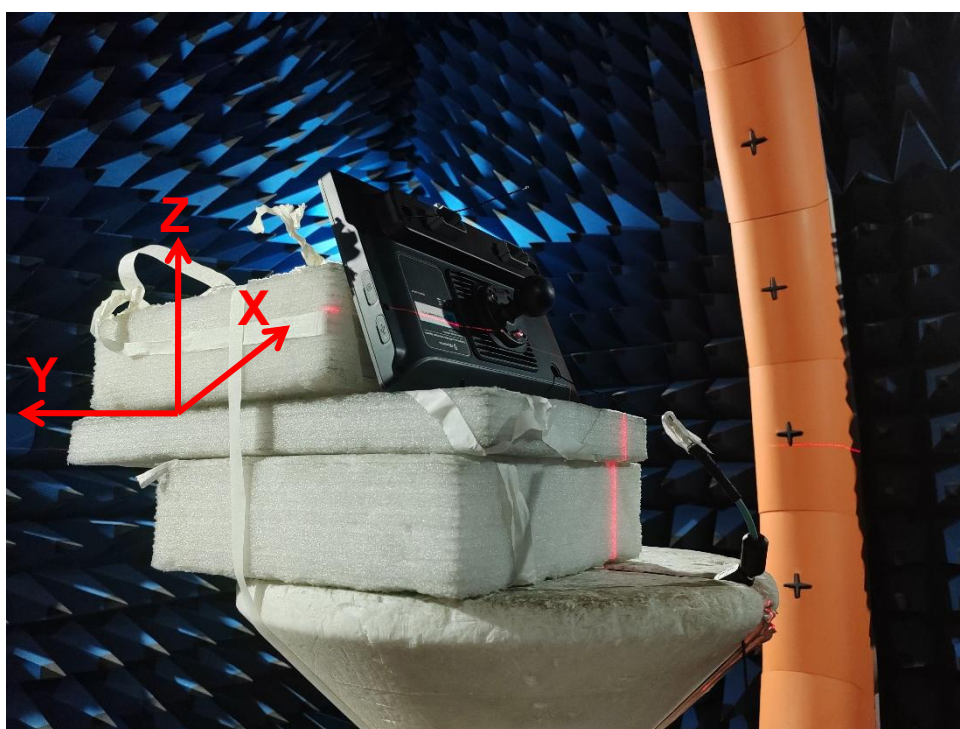
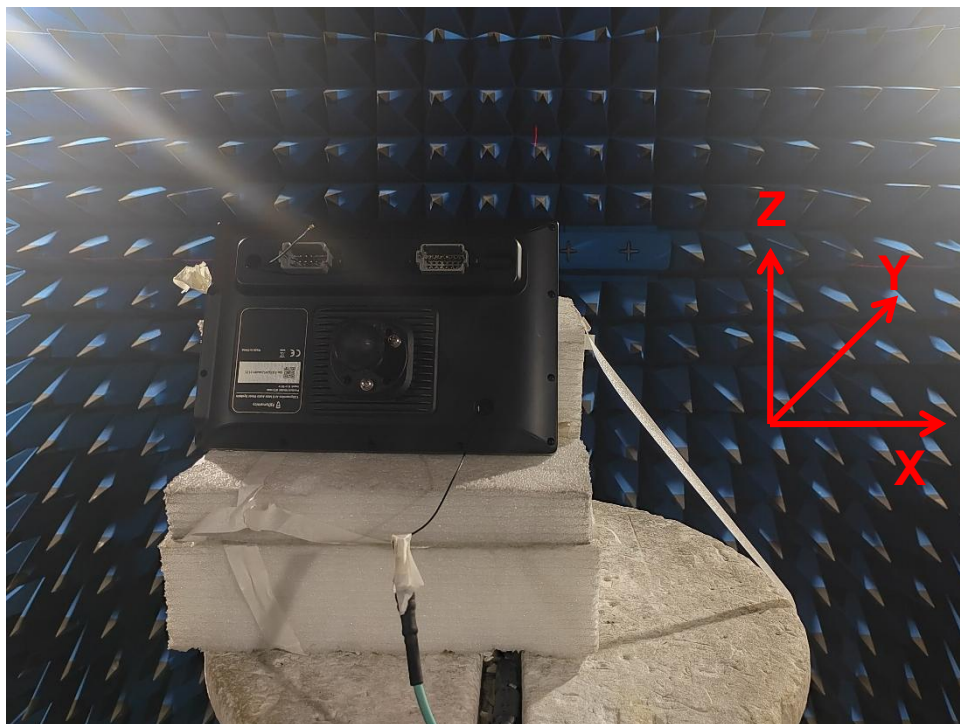
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Agilent E5071C S Parameter Test // BT Antenna



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Antenna Passive Test



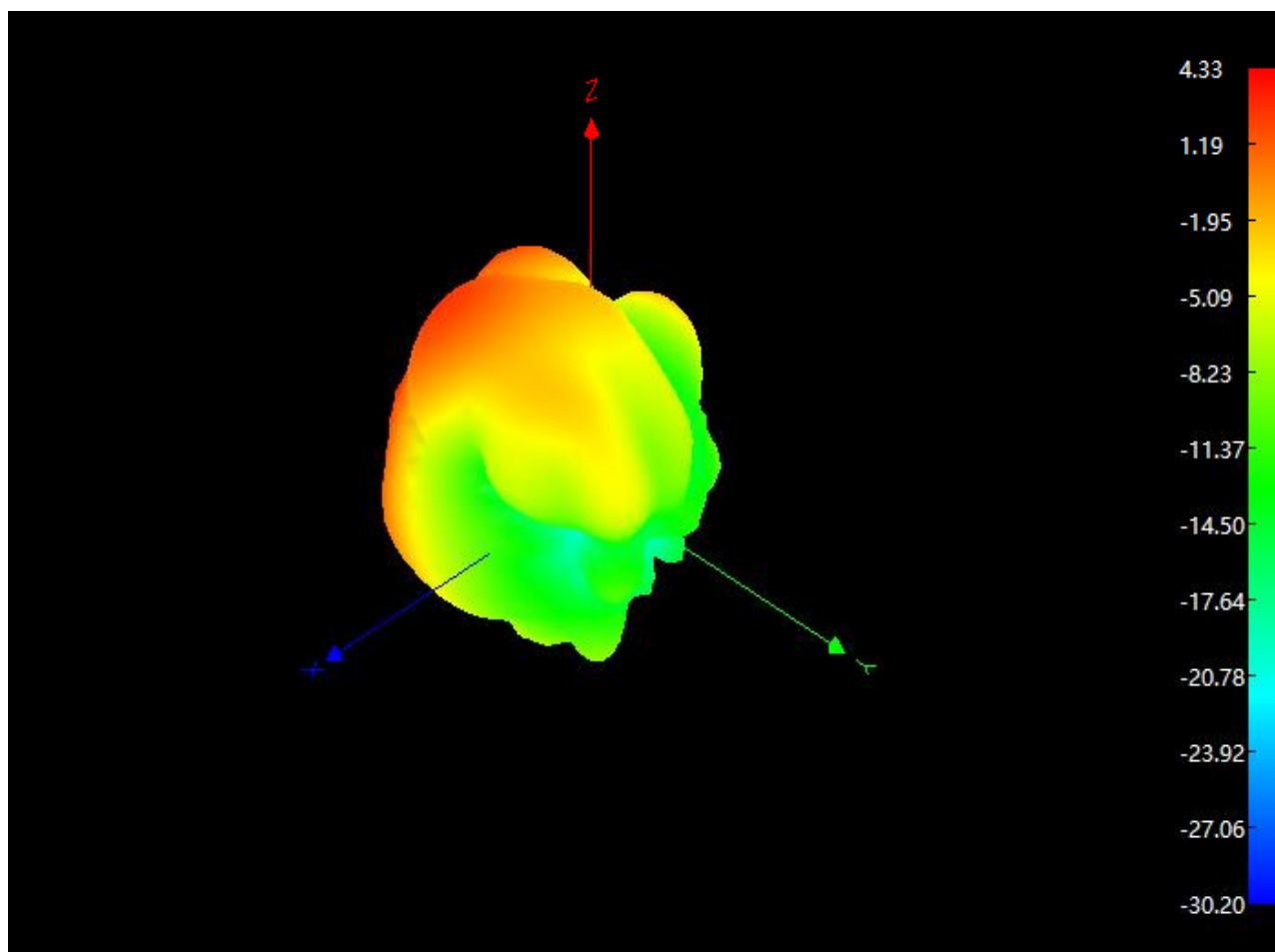
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Passive Test For BT Antenna(2.4G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	35.6	-4.5	4.3
2410	37.2	-4.3	4.3
2420	37.9	-4.2	4.0
2430	38.4	-4.2	3.7
2440	37.7	-4.2	3.0
2450	39.0	-4.1	3.4
2460	38.5	-4.2	3.5
2470	39.7	-4.0	3.7
2480	39.8	-4.0	3.8
2490	41.7	-3.8	4.0
2500	41.0	-3.9	4.1



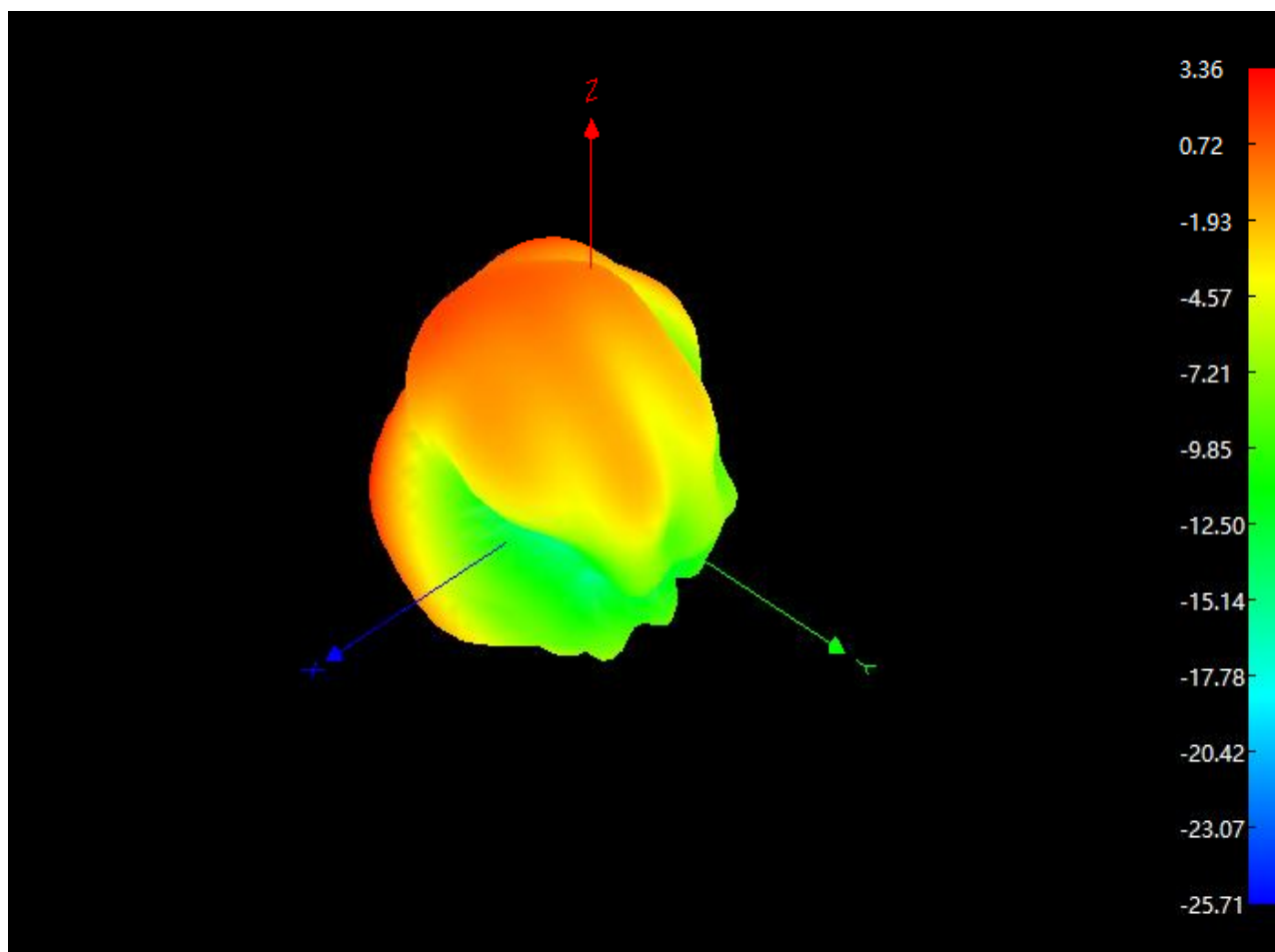
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Radiation Pattern For BT Antenna (2400MHz)



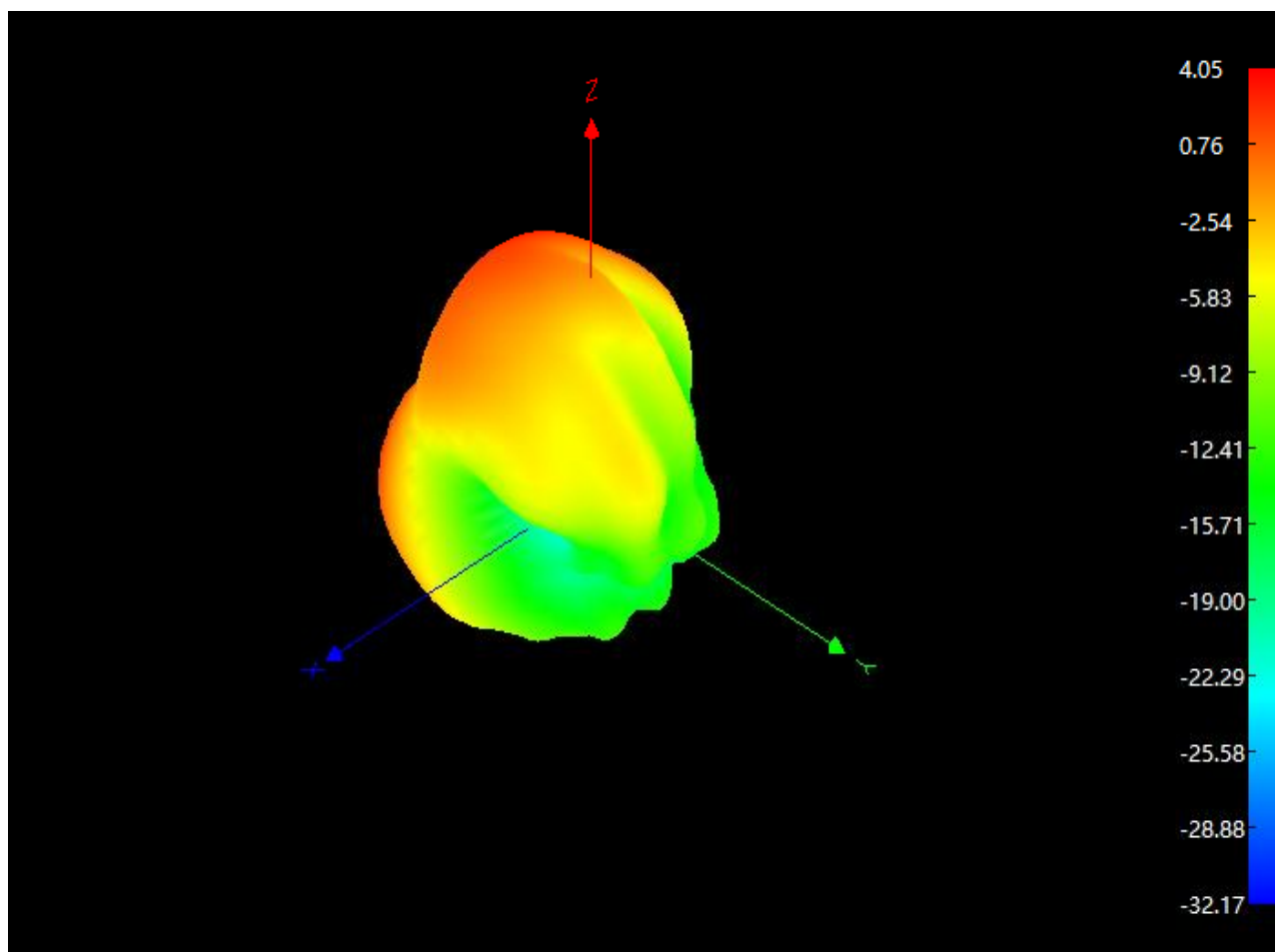
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Radiation Pattern For BT Antenna (2450MHz)



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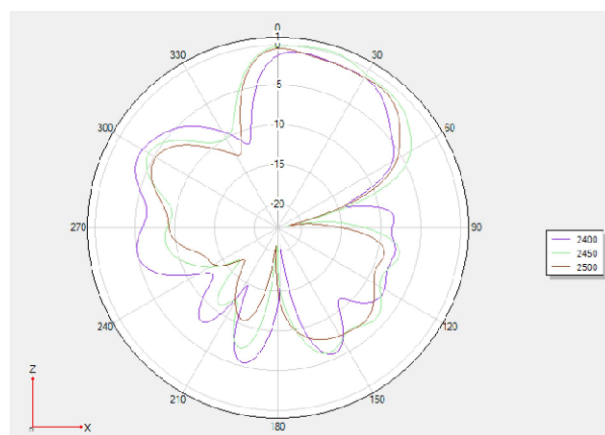
Radiation Pattern For BT Antenna (2500MHz)



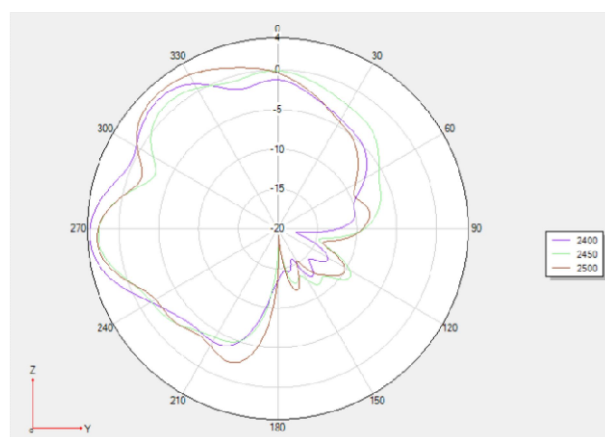
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Radiation Pattern For BT Antenna

Phi 0°



Phi 90°



Theta 90°

