



Antenna Part Specification

Project name:	MTW5
Material category:	BT antenna
Version:	V6.0
Date:	2025.09.29



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Change record			
Compile / change date	Reason for change	Changed content	Version
2024.04.16	Initial release	Initial release	V1.0
2024.10.22	Updating the structure of the prototype shell material	Updating the structure of the prototype shell material	V2.0
2025.03.29	Data Update	Data Update	V3.0
2025.04.09	Data Update	Data Update	V4.0
2025.07.11	PP2 Antenna Specification	PP2 Antenna Specification	V5.0
2025.09.29	compliance sample antenna certification		V6.0

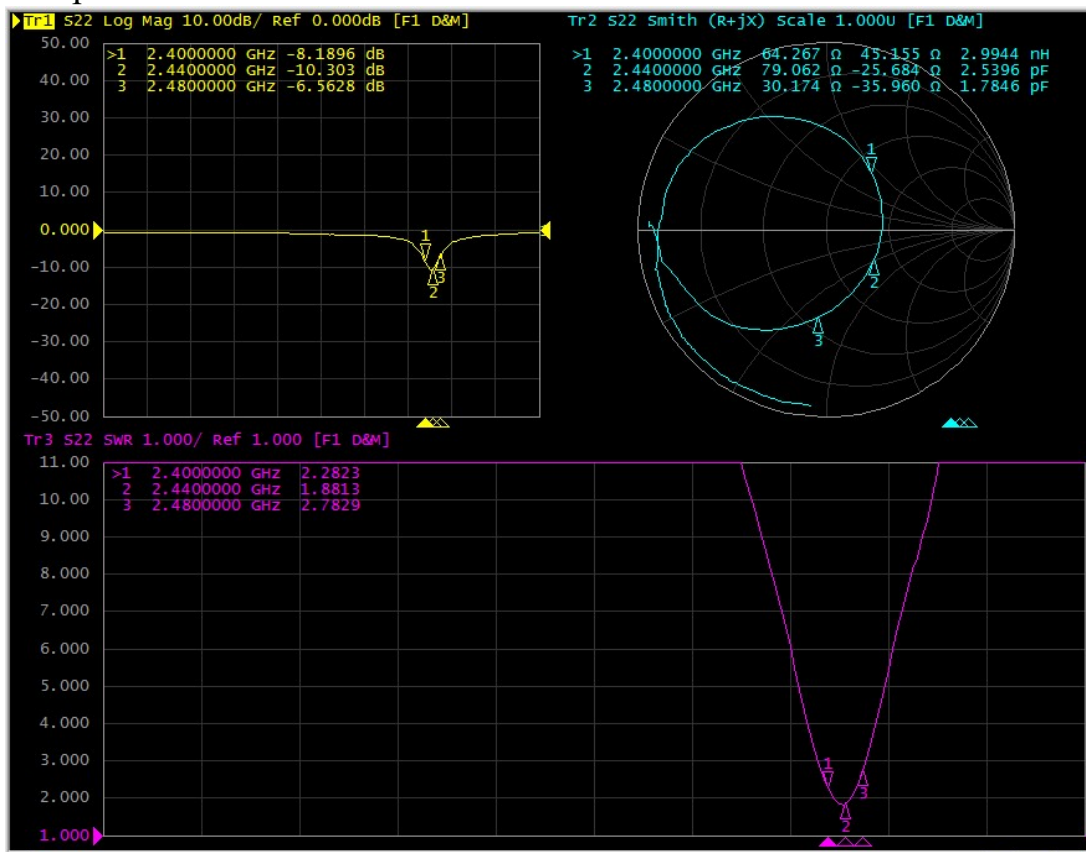


I: The report of passive data



Angilent E5071C

S11 parameter (L) :



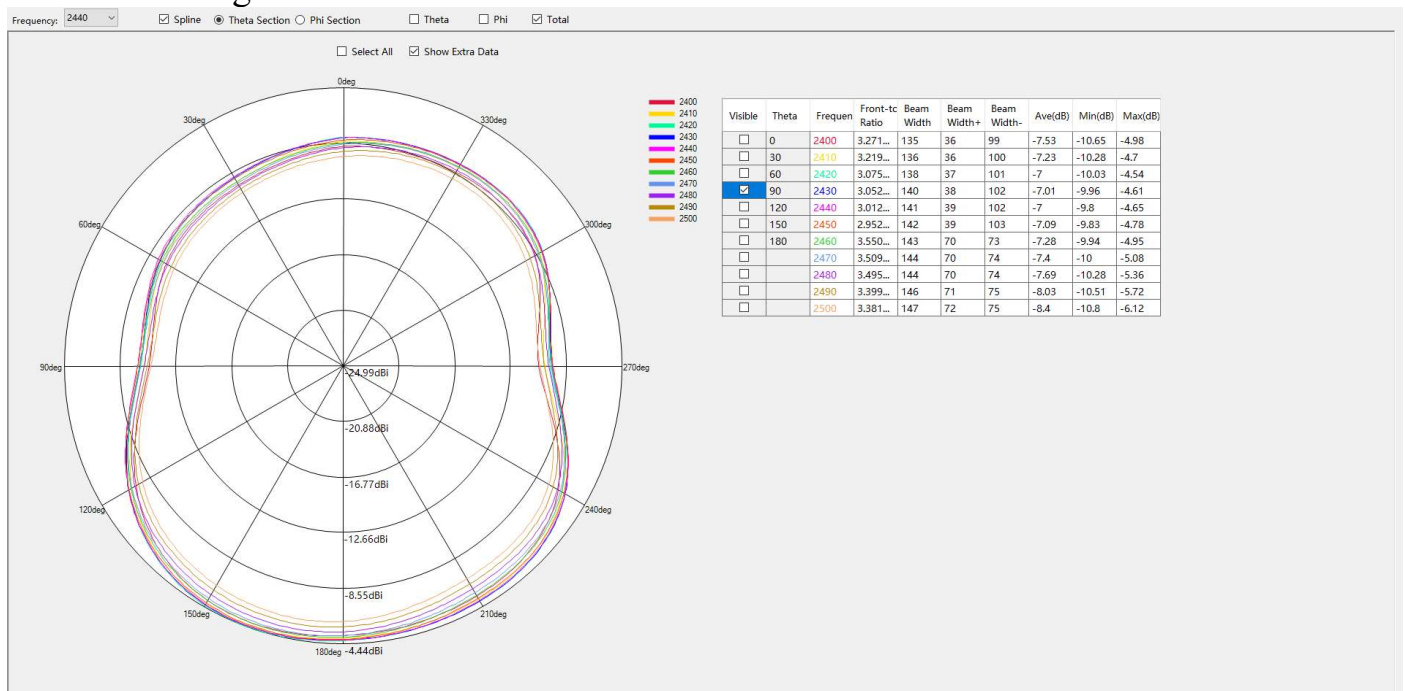


Efficiency:

L			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Max gain:
2400	14.7%	-8.3	-4.5dBi
2410	15.6%	-8.1	
2420	16.1%	-7.9	
2430	16.3%	-7.9	
2440	16.1%	-7.9	
2450	15.8%	-8.0	
2460	15.4%	-8.1	
2470	14.9%	-8.3	
2480	14.7%	-8.3	
Average value	15.5%	-8.1	

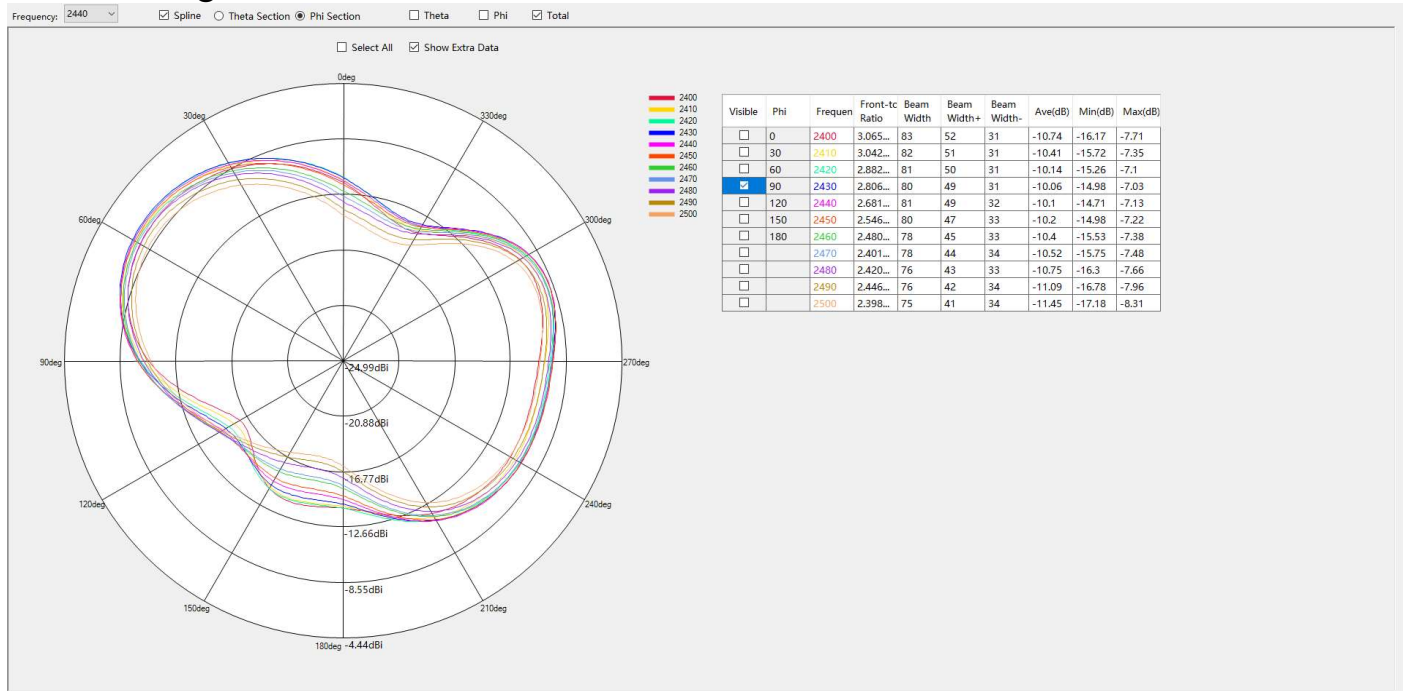
Antenna radiation pattern:

Theta=90.00deg

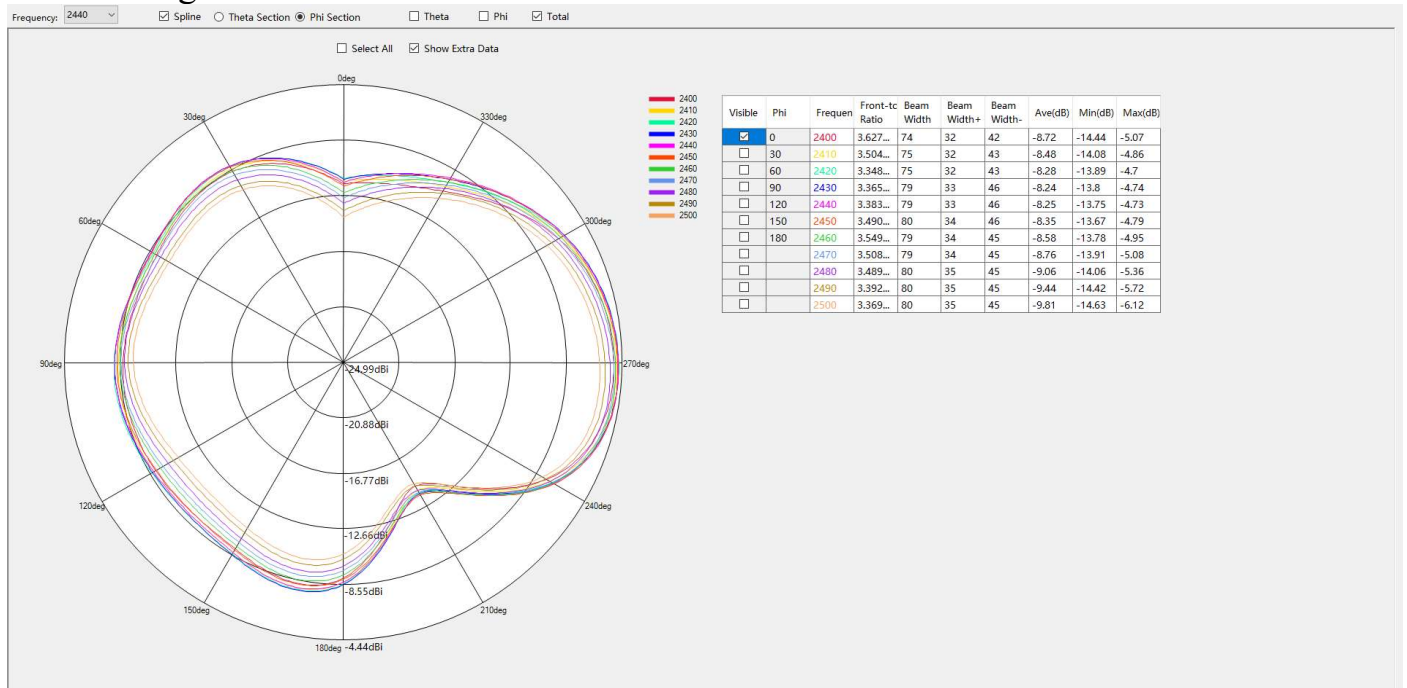




Phi=90.00deg

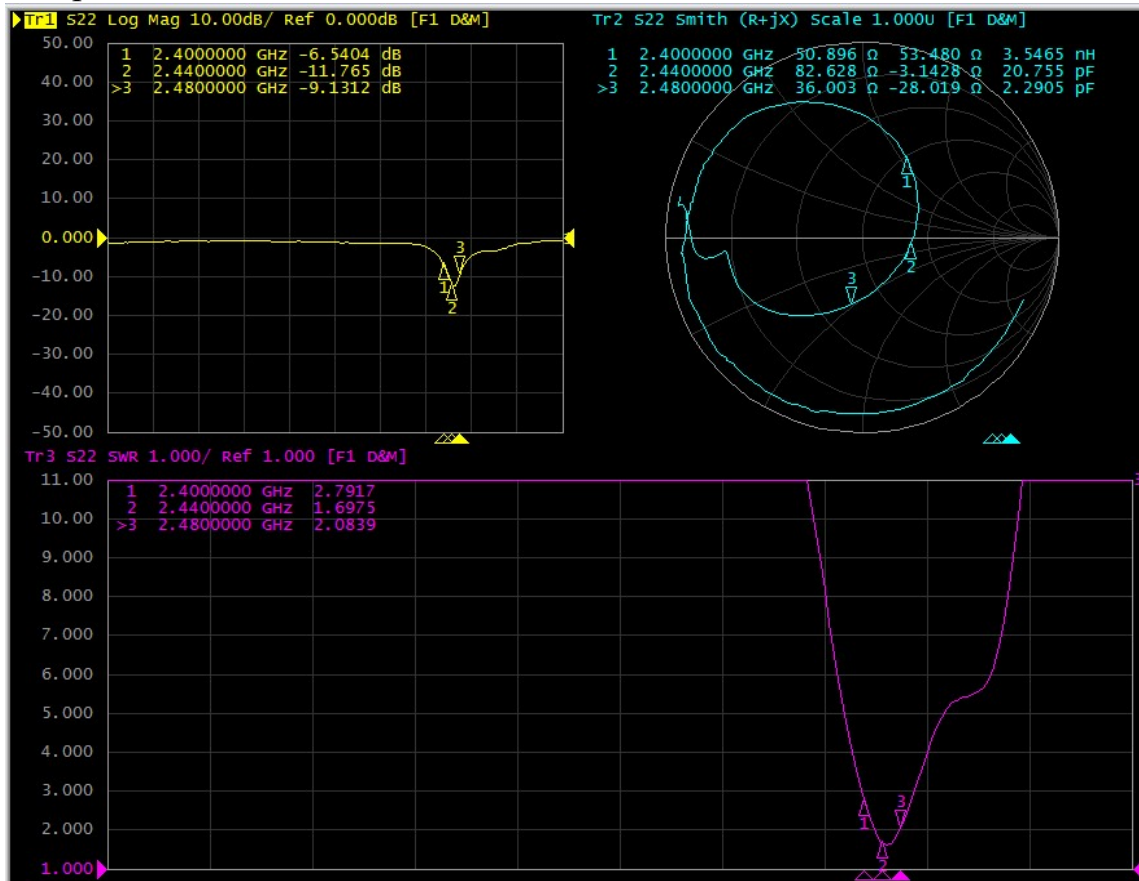


Phi=0.00deg





S11 parameter (R) :



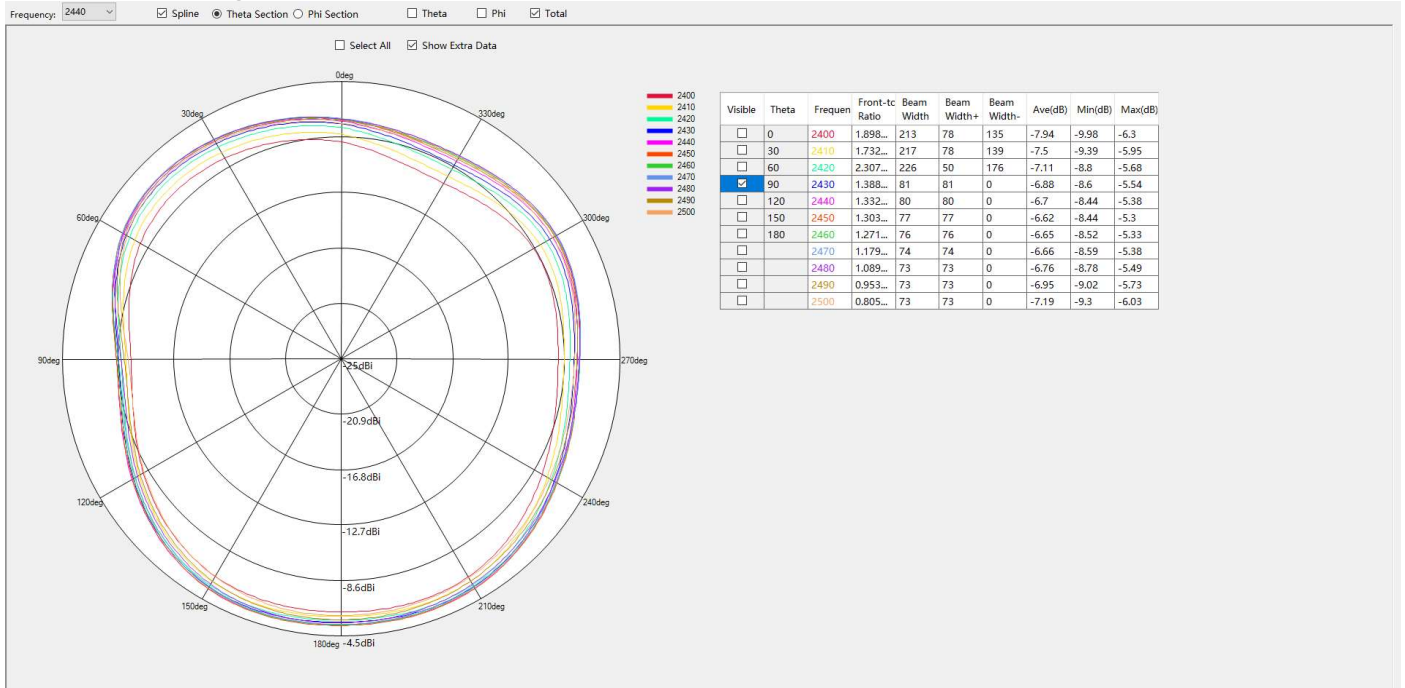
Efficiency:

R			
Frequency (MHz)	Efficiency	Efficiency (dB)	Max gain:
2400	14.0%	-8.5	-5.0dBi
2410	14.5%	-8.4	
2420	15.2%	-8.2	
2430	15.7%	-8.0	
2440	15.7%	-8.0	
2450	15.7%	-8.0	
2460	16.1%	-7.9	
2470	15.8%	-8.0	
2480	15.0%	-8.2	
Average value	15.3%	-8.2	

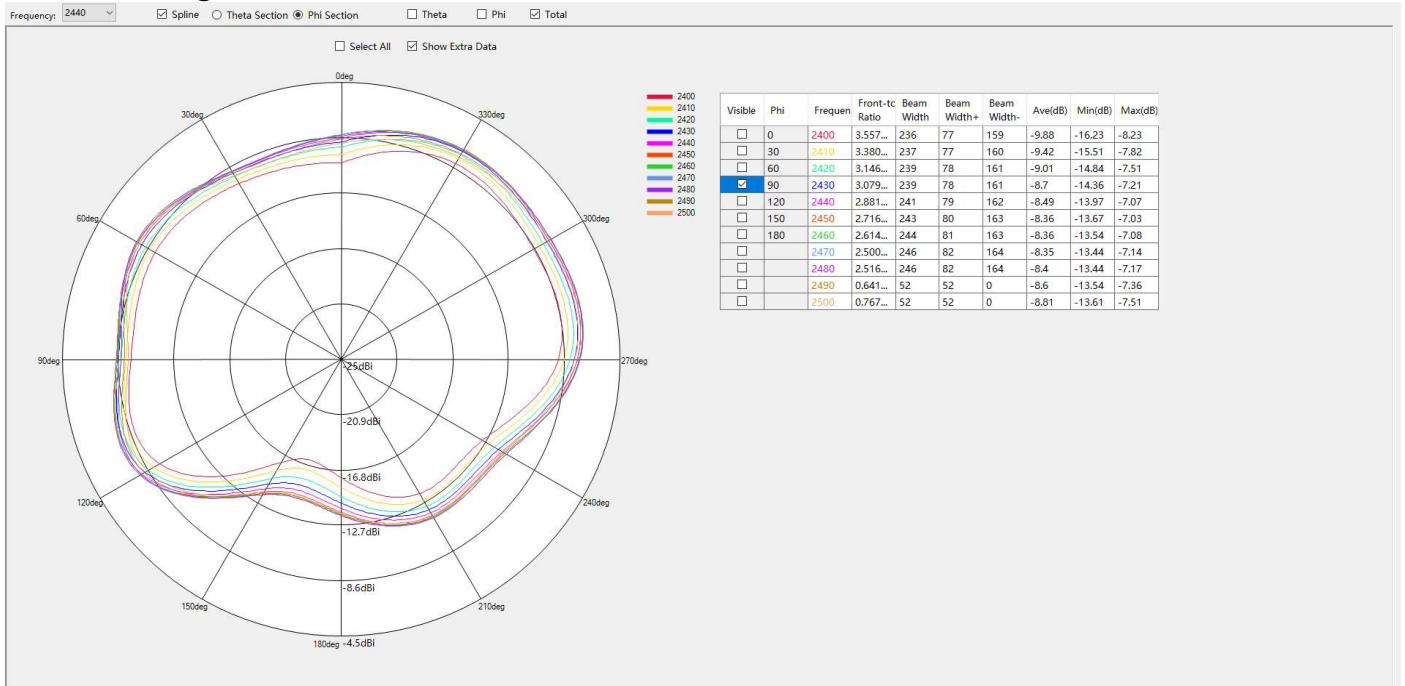


Antenna radiation pattern:

Theta=90.00deg

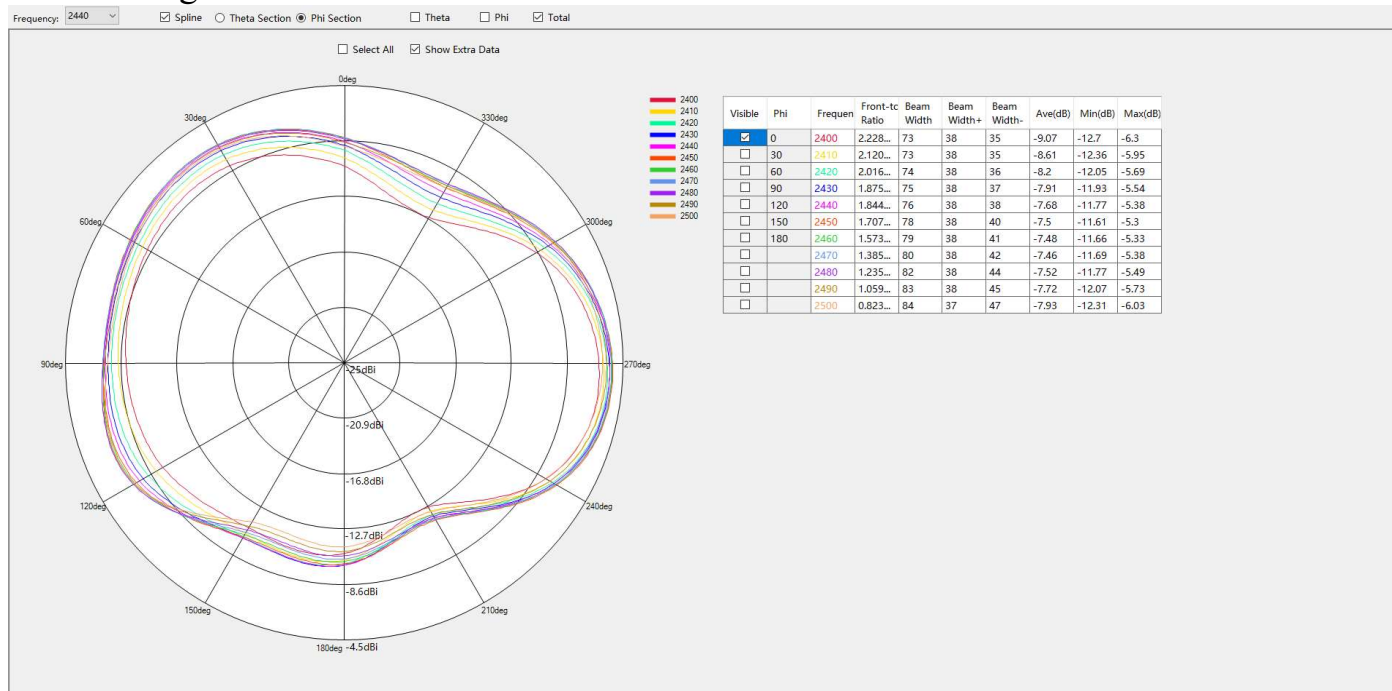


Phi=90.00deg

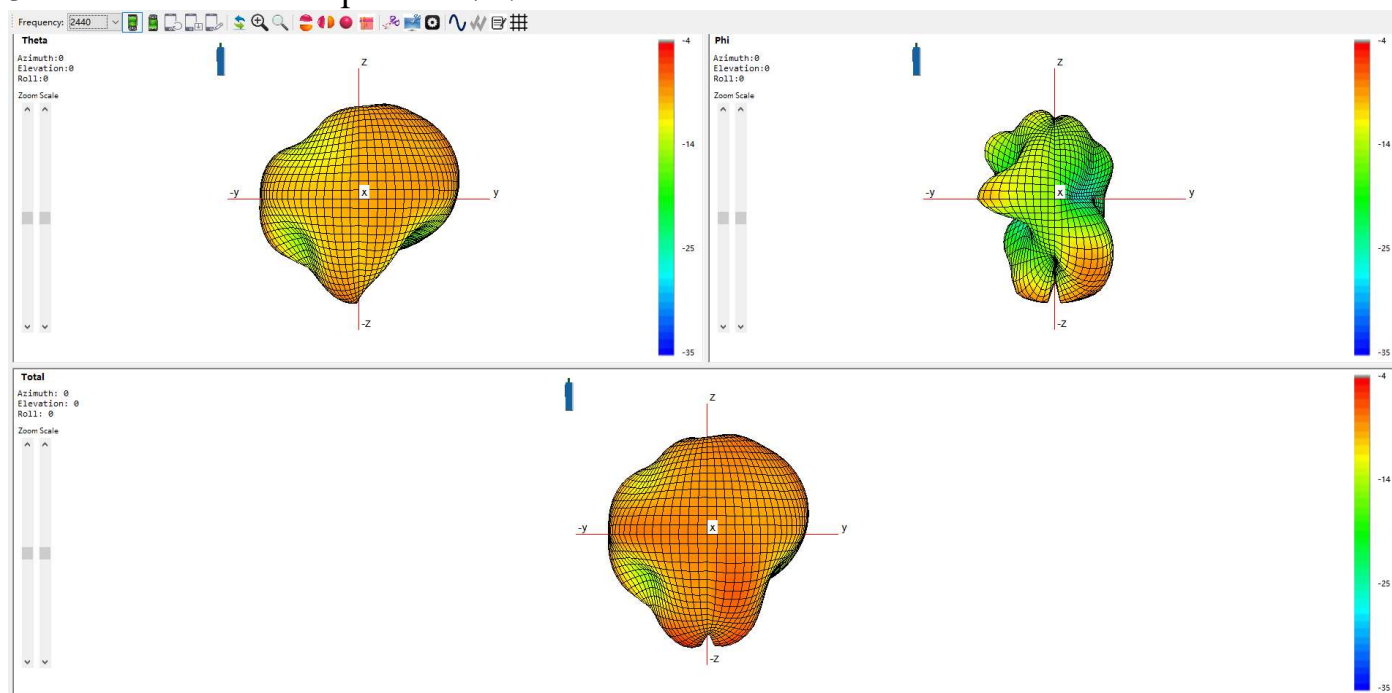




Phi=0.00deg

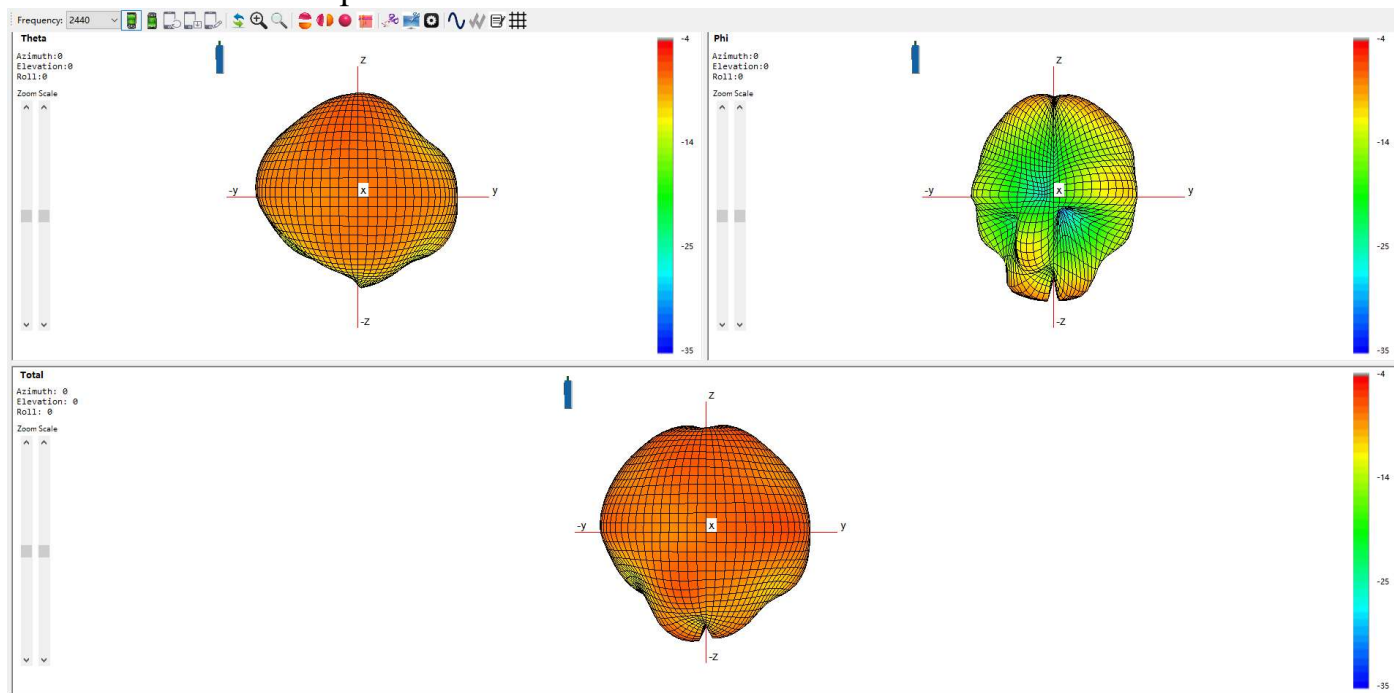


3D Antenna radiation pattern (L) :





3D Antenna radiation pattern (R) :





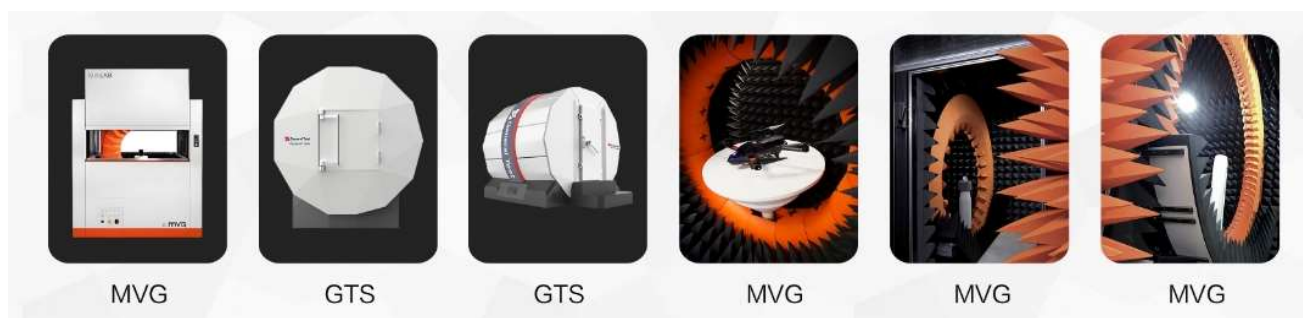
II: 3D Active test report of antenna



ROHDE&SCHWARZ CMW500

		Free		Headform	
T61	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
L	CH 0	0.2	-88.0	-2.9	-84.9
	CH 39	1.9	-89.5	-1.8	-85.9
	CH 78	1.2	-89.4	-3.1	-85.0

		Free		Headform	
T61	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
R	CH 0	-0.3	-88.1	-3.1	-85.1
	CH 39	1.7	-89.3	-1.7	-85.8
	CH 78	1.1	-89.1	-2.7	-84.9



OTA Standard Chamber



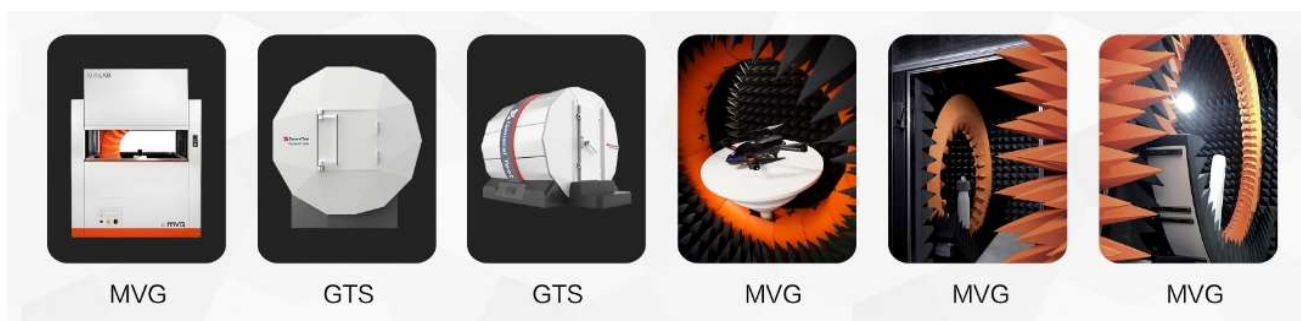
VI: Test instructions

Test Dates: 20250925

Name of Test Personnel: Chen Xizhou

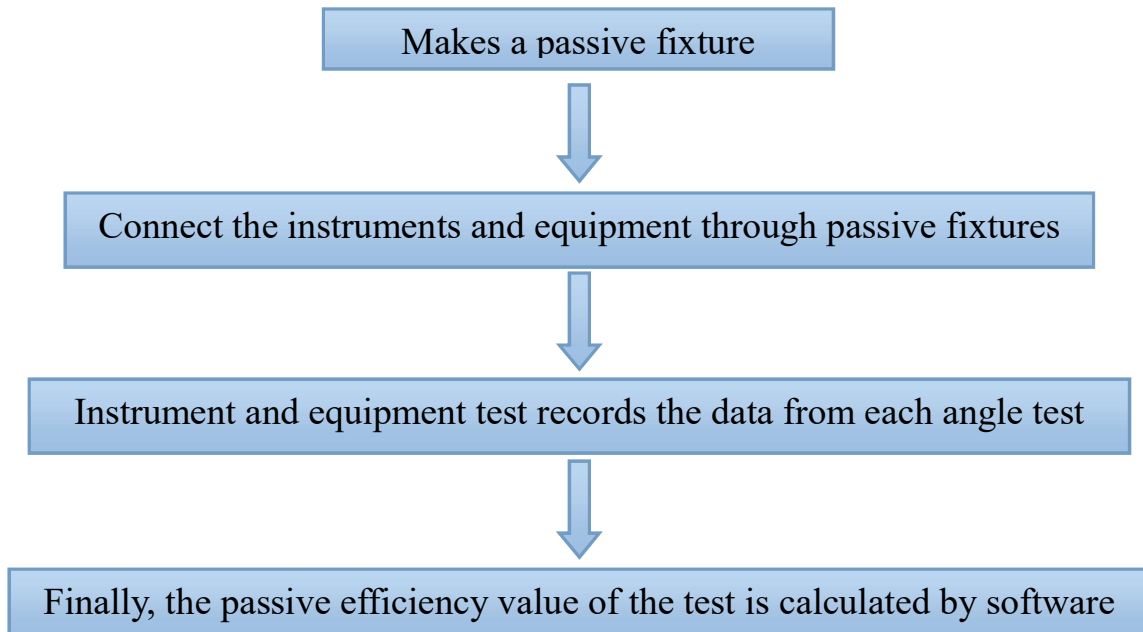
Names of Commercial Test Software Being Used: Wave studio

Passive and Active Test Setup Photos:

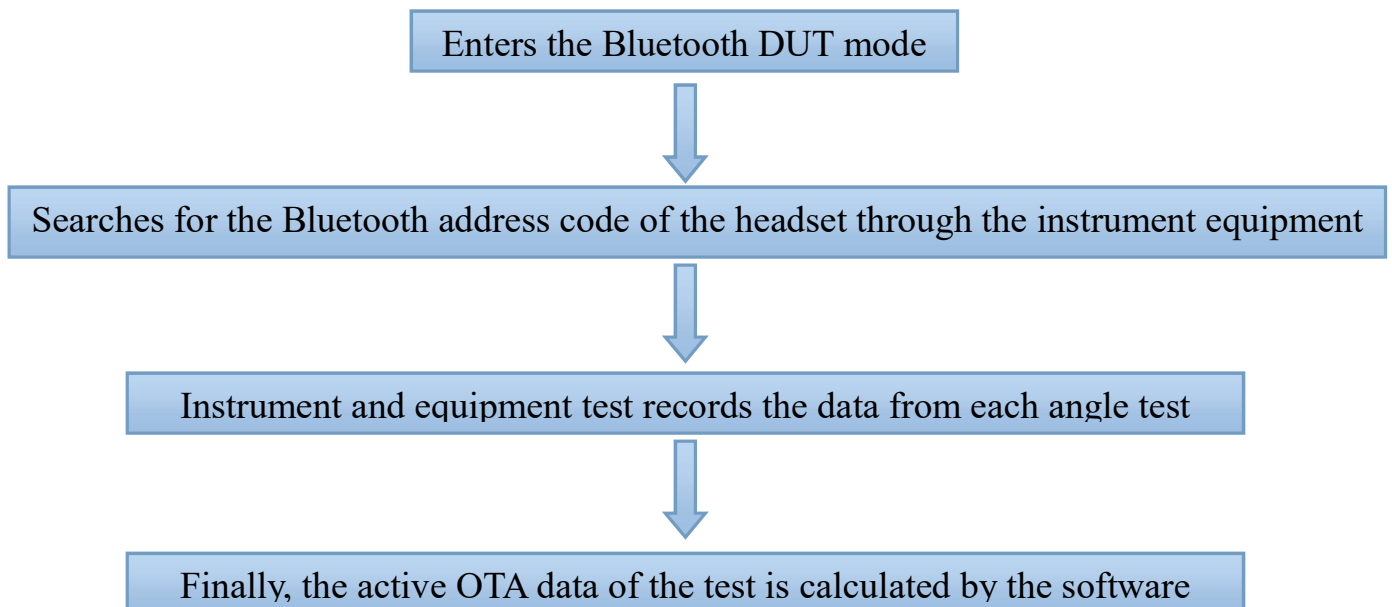




Description of passive test methods:



Description of the active test method:





VII: Calibration certificate of testing equipment

深圳精宇航检测技术有限公司

SHENZHEN JINGYUHANG DETECTION TECHNOLOGY CO.,LTD



中国认可
国际互认
校准
CALIBRATION
CNAS L7875

校准证书

CALIBRATION CERTIFICATE

证书编号
Certificate No. 24AA165930003

委托方
Client 深圳市思讯通信技术有限公司

委托方地址
Address 深圳市宝安区创业二路东联大厦A座505-506

计量器具名称
Description 综合测试仪

规格/型号
Model/Type ROHDE&SCHWARZ CMW500

制造单位
Manufacturer ROHDE&SCHWARZ

出厂编号
Serial No. /

管理编号
Asset No. SX-009

接收日期
Date of Receiving 2024 年 11 月 05 日
Year Month Day

校准日期
Date of Calibration 2024 年 11 月 05 日
Year Month Day

发布日期
Date of Release 2024 年 11 月 06 日
Year Month Day

批准人
Approved Signatory 李正亮

核验员
Inspected by 赵文

校准员
Calibrated by 曾伟浩



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深圳精宇航检测技术有限公司

SHENZHEN JINGYUZHANG DETECTION TECHNOLOGY CO.,LTD



中国认可
国际互认
校准
CALIBRATION
CNAS L7875

校准证书

CALIBRATION CERTIFICATE

证书编号
Certificate No. 24AA165930001

委托方
Client 深圳市思讯通信技术有限公司

委托方地址
Address 深圳市宝安区创业二路东联大厦A座505-506

计量器具名称
Description 网络分析仪

规格/型号
Model/Type E5071C

制造单位
Manufacturer Keysight

出厂编号
Serial No. /

管理编号
Asset No. SX-048

接收日期
Date of Receiving 2024 年 11 月 05 日
Year Month Day

校准日期
Date of Calibration 2024 年 11 月 05 日
Year Month Day

发布日期
Date of Release 2024 年 11 月 06 日
Year Month Day

批准人
Approved Signatory 李正亮

核验员
Inspected by 赵文

校准员
Calibrated by 曾伟浩



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