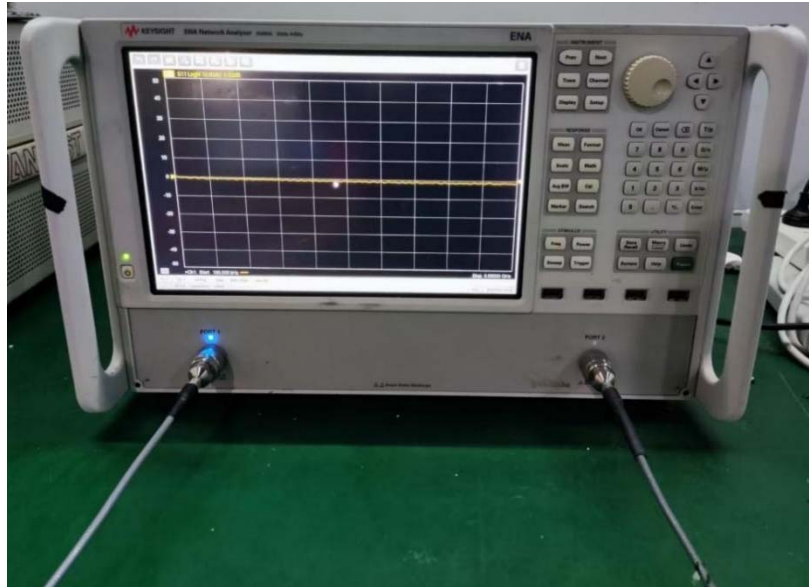

Antenna SPEC

Customer Name/客户名称:	Realme
Project Name /项目名称:	C11-Marble
Antenna Name/天线名称:	Marble-L-V04
Material Category/天线类型:	Monopole
Antenna material/天线材质:	FPC
Antenna specifications/天线规格:	22.39mm*5.67mm
Antenna Frequency/使用频率:	2.4GHz-2.48GHz
Antenna Version/天线版本:	V04
Material Code/物料编号:	290000-019629
Compilation Date/编撰日期:	2025-03-10

1、Debugging and testing equipment /调试测试设备

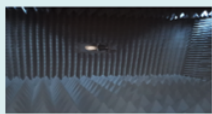
1.1 Debugging equipment/调试设备



Keysight E5080A

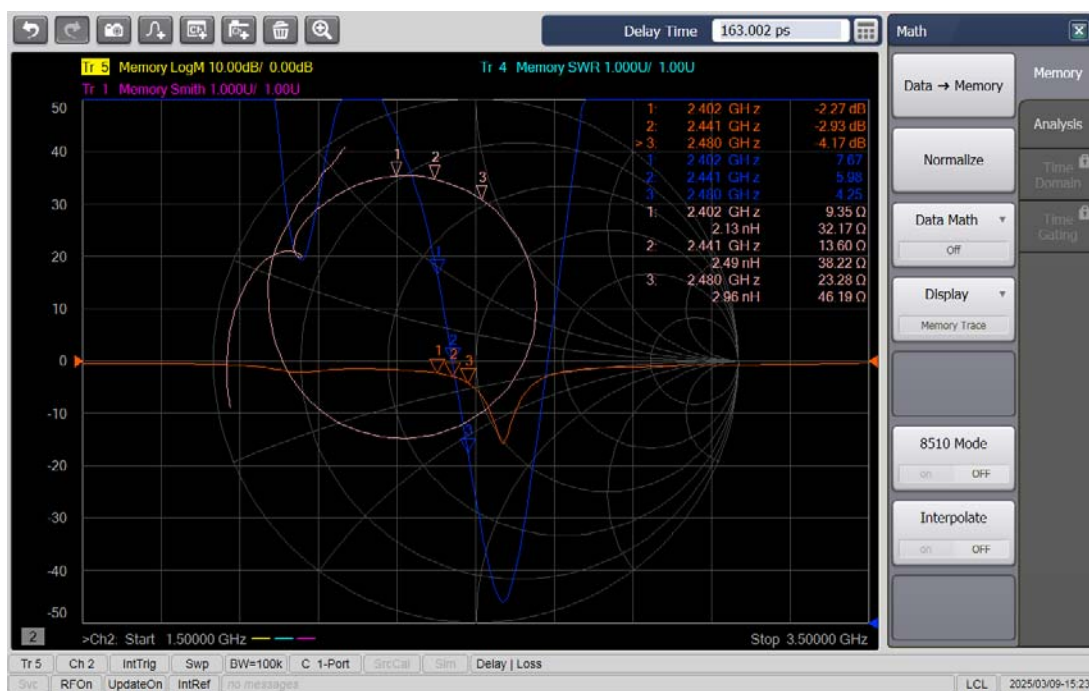
1.2 Passive testing equipment/测试设备

Main Test Equipment

NO.	Model Name	Picture	NO.	Model Name	Picture
1	OTA Anechoic Chamber Size: 7m*4m*4m		6	Turntable Controller	
2	Test Turntable		7	Radio Frequency Controller	
3	Network Analyzer E5071C: 100KHz-6.5GHz		8	Dipole Antenna	
4	OTA Test Head Model		9	CMW270 Wireless Connectivity Tester : BT / BLE test and WIFI test (2.4G\5G)	
5	OTA Test Artificial Arm				

2、Passive test data/无源测试数据

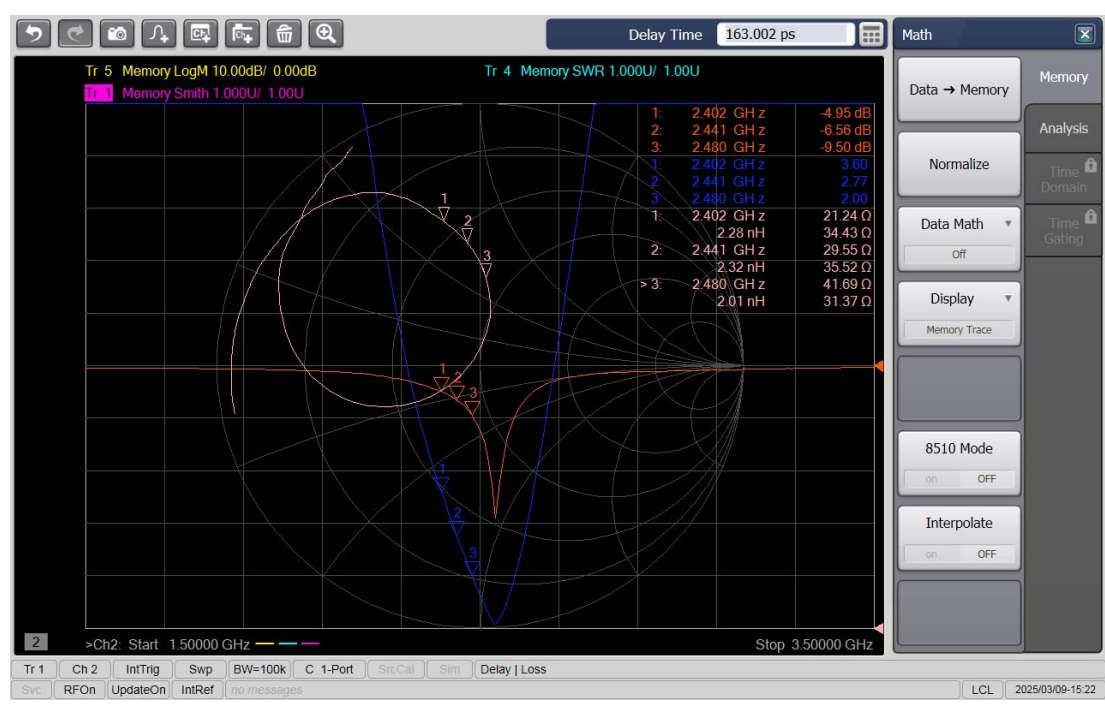
2.1 S11-Left Ear Free Space/S11-左耳自由空间



Manufacturer: Boyongkai Electronic Technology Co., Ltd

Address: Fenghuangshan Industrial Zone, Shajiao, Humen, Dongguan City

2.2 S11-worn on left ear head model/S11-左耳头模佩戴



2.3 Efficiency & Gain Data-Left Ear Free Space Data/效率&增益数据-左耳自由空间数据

Free space data/自由空间数据			
Frequency(GHz)	Efficiency(dB)	Efficiency(%)	Gain(dB)
2.400	-9.83	10.39	-4.65
2.410	-9.83	10.39	-4.63
2.420	-9.49	11.24	-4.35
2.430	-9.05	12.45	-3.9
2.440	-8.65	13.66	-3.55
2.450	-8.30	14.78	-3.31
2.460	-7.94	16.09	-2.89
2.470	-7.60	17.40	-2.45

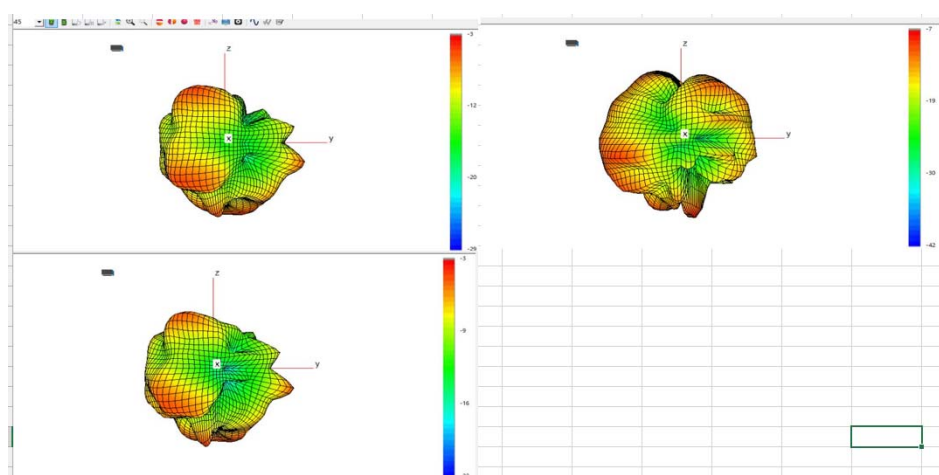
Manufacturer: Boyongkai Electronic Technology Co., Ltd
Address: Fenghuangshan Industrial Zone, Shajiao, Humen, Dongguan City

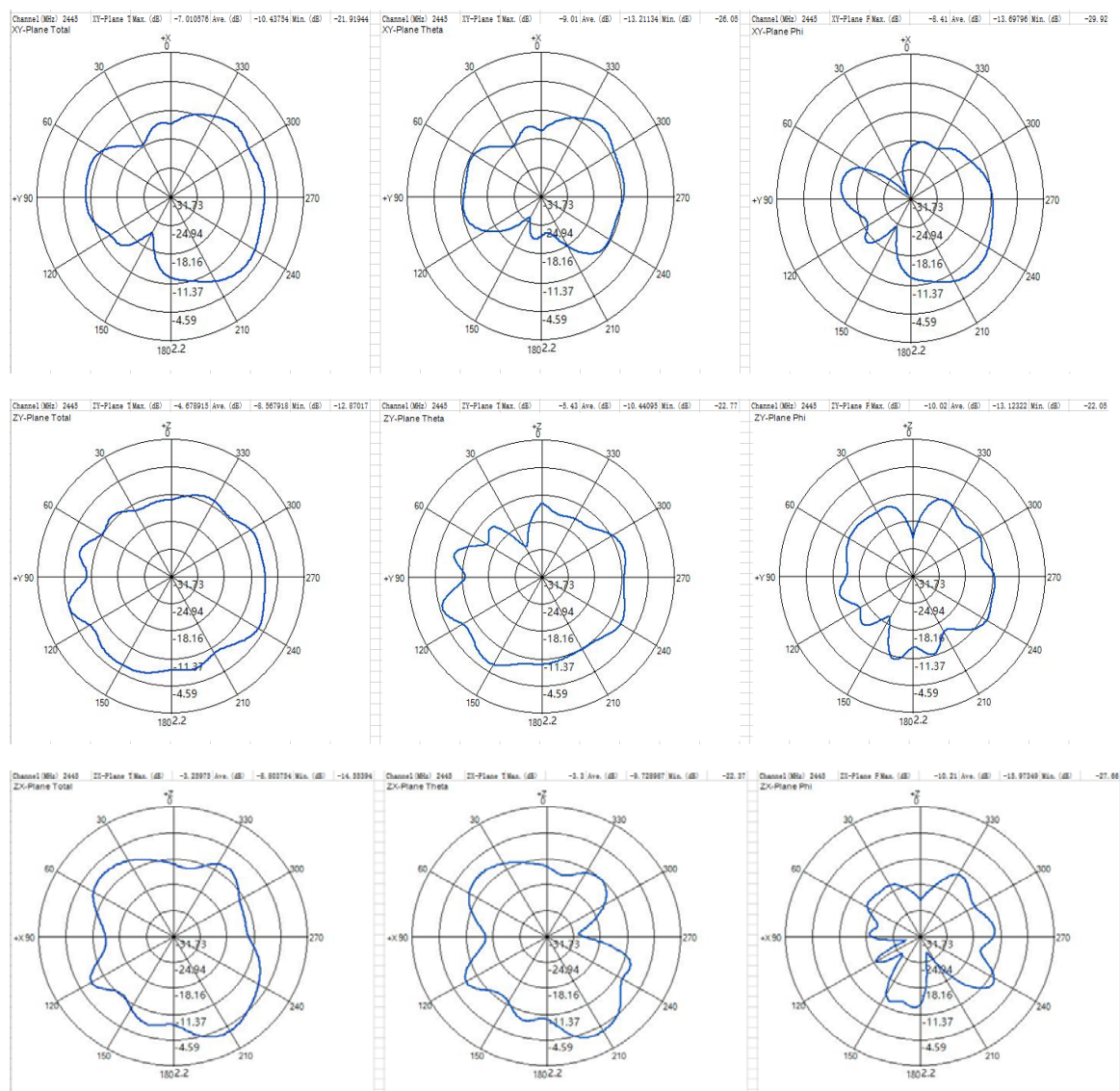
2.480	-7.32	18.52	-2.05
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2.4 Efficiency & Gain Data-Left Ear Head Model Data/效率&增益数据-左耳头模数据

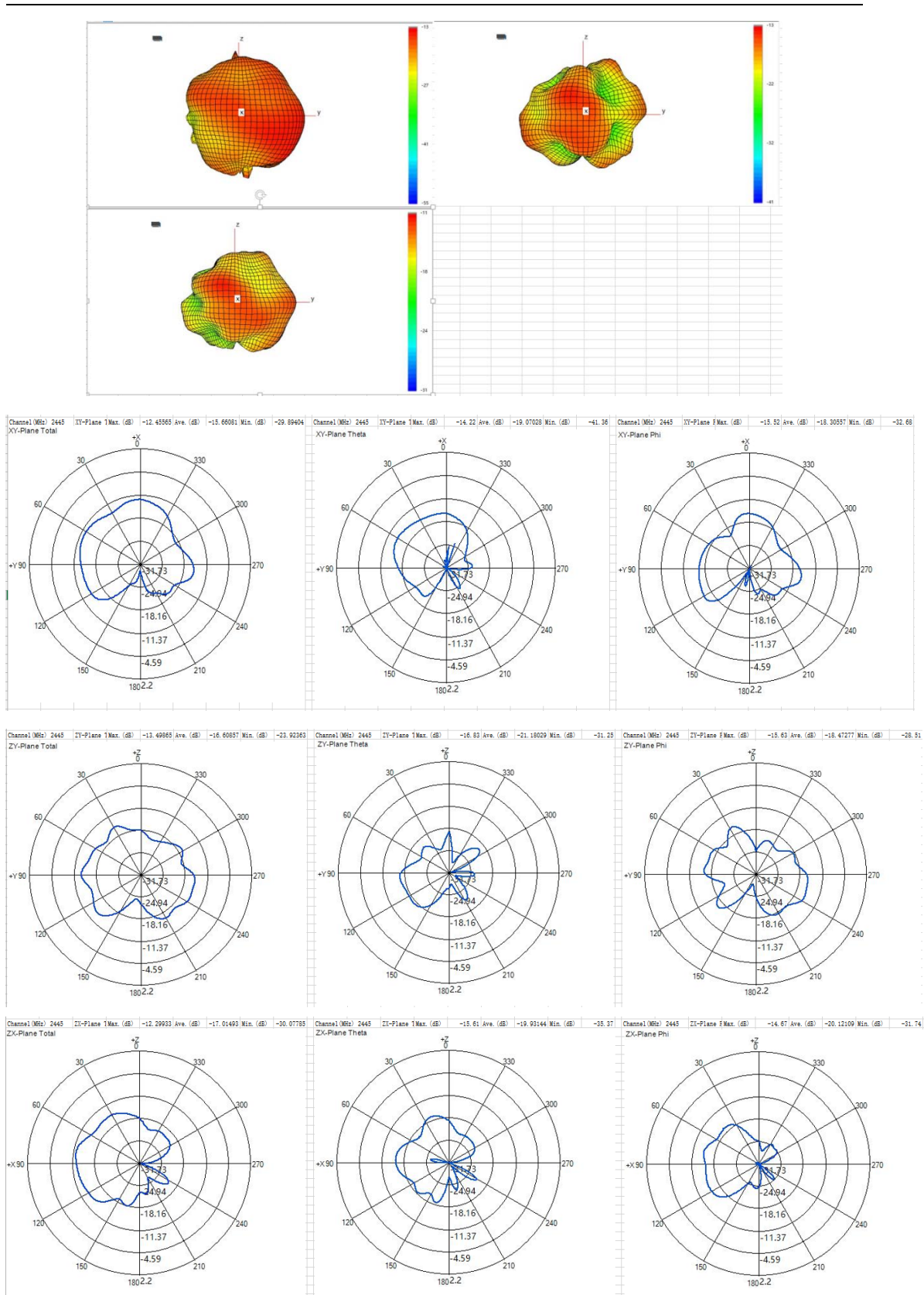
Head model data/头模数据			
Frequency(GHz)	Efficiency(dB)	Efficiency(%)	Gain(dB)
2.400	-18.86	1.30	-13.65
2.410	-18.74	1.34	-13.60
2.420	-18.20	1.51	-12.98
2.430	-17.52	1.77	-12.41
2.440	-16.91	2.04	-11.78
2.450	-16.35	2.32	-11.29
2.460	-15.77	2.65	-10.77
2.470	-15.22	3.01	-10.16
2.480	-14.84	3.28	-9.93

2.5 Passive antenna pattern-Left ear free space pattern/天线无源方向图-左耳自由空间方向图





2.6 Passive antenna pattern-left ear head pattern/天线无源方向图-左耳头模方向图



3、Active test data/有源测试数据

Manufacturer: Boyongkai Electronic Technology Co., Ltd

Address: Fenghuangshan Industrial Zone, Shajiao, Humen, Dongguan City

3.1 Conducting test data/传导测试数据

传导数据	L		R	
Channels	Tx power	Sensitivity	Tx power	Sensitivity
0	10.23	-94.50	10.12	-94.50
39	9.93	-95.00	10.16	-95.00
78	10.00	-94.50	10.43	-95.00

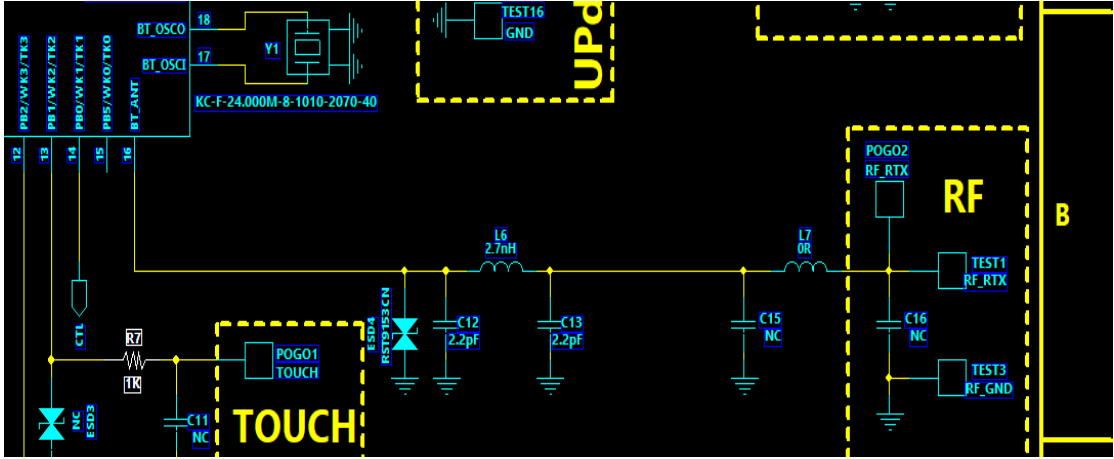
3.2 Active testing data in darkroom/暗室有源测试数据

6#样机	L-头模		R-头模	
Channels	TRP	TIS	TRP	TIS
0	-3.33	-83.94	-3.23	-83.35
39	0.53	-83.09	0.66	-83.73
78	-0.13	-84.22	-1.45	-83.9

2#样机	L-头模		R-头模	
Channels	TRP	TIS	TRP	TIS
0	-3.22	-82.85	-3.34	-84.09
39	0.7	-82.98	0.39	-83.59
78	0.03	-83.58	-2.22	-84.04

4、Antenner Matching circuit/天线匹配电路

4.1 Principle diagram of left ear antenna matching/左耳天线匹配原理图



4.2 Material List for Matching Left Ear Antenna/左耳天线匹配物料表

Tag number 位号	Value of the left ear material 左耳料值
C15	NC
L7	0 Ω
C16	2.6pf