

深圳市华芯智影科技有限公司

Antenna Test Report

Customer	华芯智影
Project	行车记录仪
Antenna Revision	PCB Antenna
Product Description	Monopole
Product No	V1.0
DATE	2024. 10. 19

Purpose

This report is to measure the performance of BT antenna for 行车记录仪. The antenna operating frequency at 2.4~2.5GHz, All test data are showed as below.

Content

1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
 - 4.1 S11 Parameter
 - 4.2 Test coordinate
 - 4.3 2D Pattern
 - 4.4 OTA Data
 - 4.5 WIFI Boot measured
5. Antenna Assembly & environmental processing

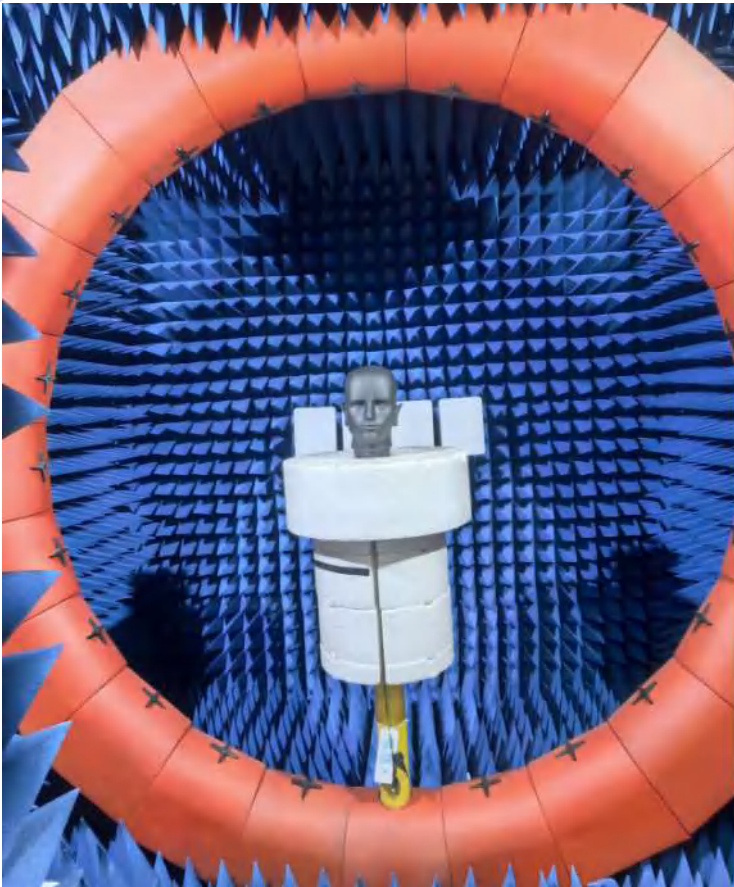
2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	CMW500 & CMW270 ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	ETS&SATIMO Agilent 5071C

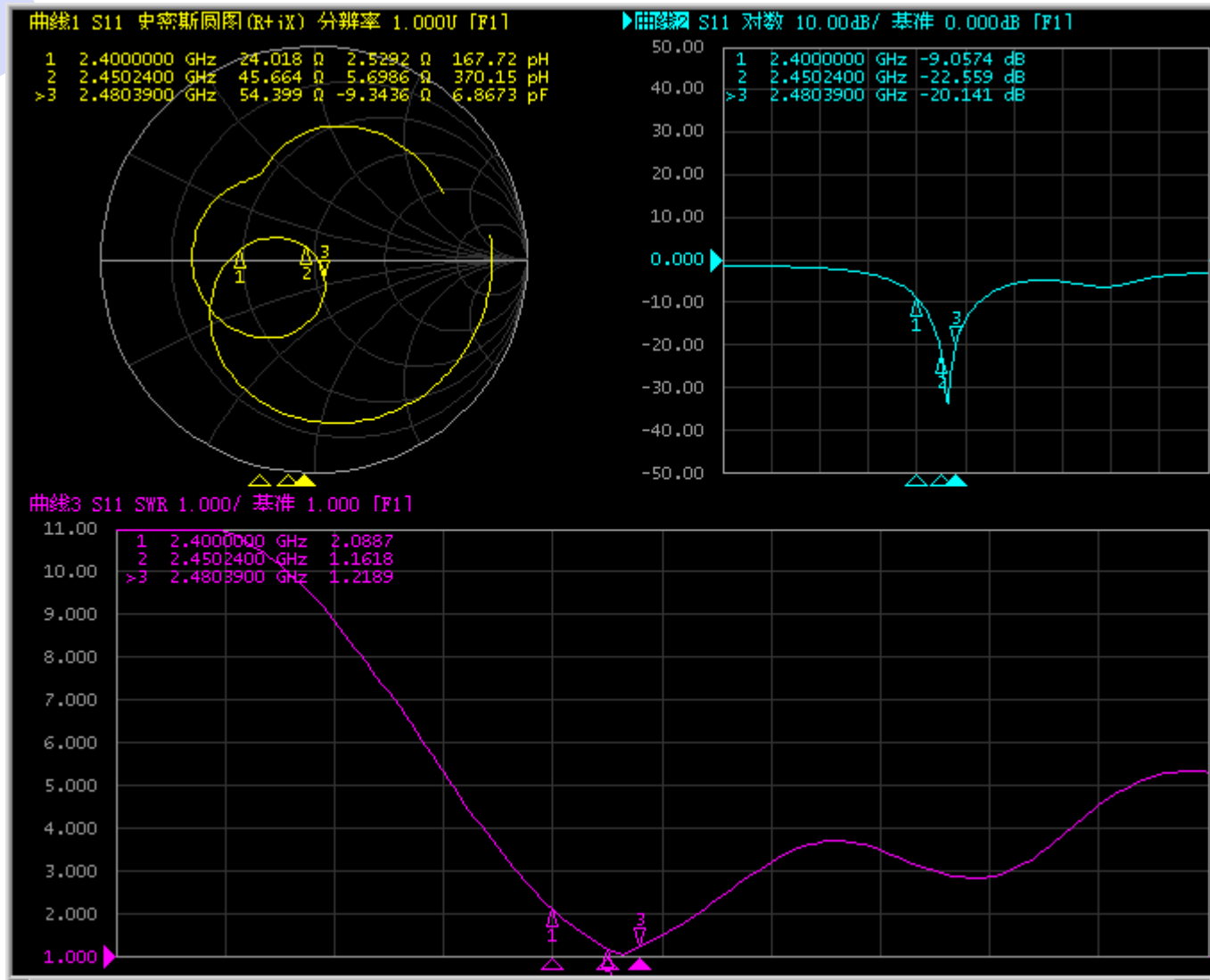


Test Result

OTA-BH



无源S11—(WIFI ANT)



无源效率

Gain & Efficiency——**WIFI-ANT**

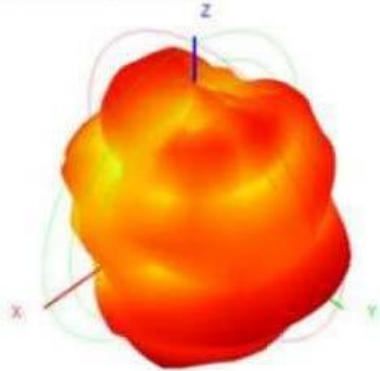
Frequency (MHz)	Peak GAIN (dBi)	Efficiency (%)
2400	-1.83	15.32
2410	-1.15	17.82
2420	-0.32	21.17
2430	0.31	25.84
2440	0.90	28.88
2450	1.84	31.87
2460	1.23	32.76
2470	1.28	33.33
2480	1.00	33.58
2490	0.38	31.76
2500	0.66	30.10

Test Result

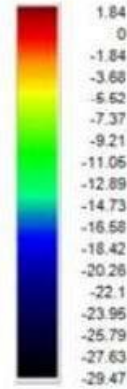
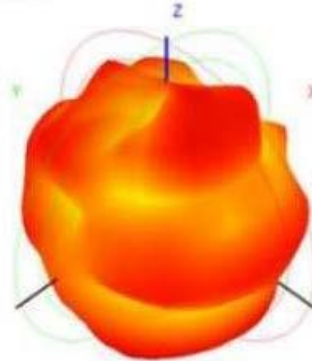
3D

WIFI-ANT

2450.0MHz H+V, Eff: 31.9%

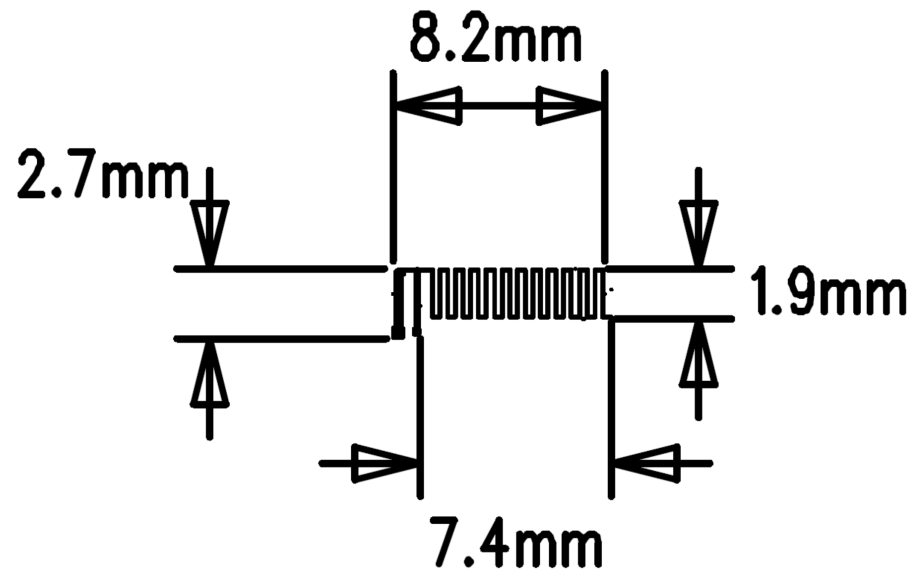


Back View



FS 自由空间				BH 头模测试			
WIFI Test				WIFI Test			
CH	TRP	TIS		CH	TRP	TIS	
0	4.56	-92.15		0	3.12	-90.12	
39	4.38	-91.33		39	3.56	-90.67	
78	4.89	-90.25		78	3.66	-89.33	

Antenna size diagram



Thanks for your comment!

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