

Antenna Test Report

Report No.: AGC09974241201PA01

PRODUCT DESIGNATION	:	Chip Antenna
BRAND NAME	:	N/A
MODEL NAME	:	JS59
APPLICANT	:	Shenzhen Yikexin Electronics Co., Ltd.
DATE OF ISSUE	:	Dec. 12, 2024
REPORT VERSION	:	V1.0







REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec. 12, 2024	Valid	Initial release



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1. PRODUCT INFORMATON

General information			
Applicant	Shenzhen Yikexin Electronics Co., Ltd.		
Address	4th Floor, Building 8, Huike Industrial Park, No. 1 Gongye 2nd Road, Shilong Community, Shiyan Street, Bao'an District, Shenzhen.		
Manufacturer	Shenzhen Yikexin Electronics Co., Ltd.		
Address	4th Floor, Building 8, Huike Industrial Park, No. 1 Gongye 2nd Road, Shilong Community, Shiyan Street, Bao'an District, Shenzhen.		
Factory	Shenzhen Yikexin Electronics Co., Ltd.		
Address	4th Floor, Building 8, Huike Industrial Park, No. 1 Gongye 2nd Road, Shilong Community, Shiyan Street, Bao'an District, Shenzhen.		
Product Designation	True wireless headphones		
Brand Name	N/A		
Test Model	JS59		
Series Model	N/A		
Difference Description	N/A		
Date of test	Dec. 11, 2024		
Report Template	AGCRT-ER-PA/V1.0		
	Technical information		
Frequency Range	2400-2500MHz		
Test Frequencies	2400MHz, 2410MHz, 2420MHz, 2430MHz, 2440MHz, 2450MHz, 2460MHz, 2470MHz, 2480MHz, 2490MHz, 2500MHz		
Antenna Type	Chip antenna		
Dimensions	1.6x0.8mm		
Impedance	50Ω		
Maximum test values	Gain: -3.61dBi; Efficiency: -11.7%; VSWR: 1.086U		

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd.

The test results of this report relate only to the tested sample identified in this report.

Thea Yuang Prepared By Thea Huang Dec. 12, 2024 (Project Engineer) **Reviewed By** Calvin Liu Dec. 12, 2024 (Reviewer) Approved By

Any report having not been signed by authorized approver, or having been altered without authorization, or having no Dec. 12, 2024 "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, of AuthoritZede Defice Portice Port is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.



2. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3. TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Cal. Date	Cal. Due
ANTENNA MEASUREMENT SYSTEM	ETS-Lindgren	AMS-8600	Nov. 28, 2023	Nov. 27, 2024
Network Analyzer	R&S	ZVL-6	Jul. 24, 2024	Jul. 23, 2025
Test software	ETS-Lindgren	EMQuest (Ver V1.12)	N/A	N/A

4. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

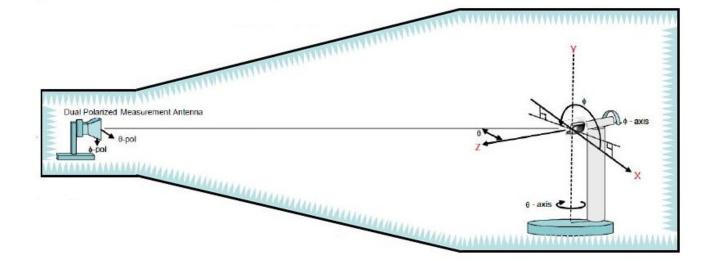
- Uncertainty of VSWR, $Uc = \pm 1.5 dB$
- Uncertainty of Gain, $Uc = \pm 0.8 dB$

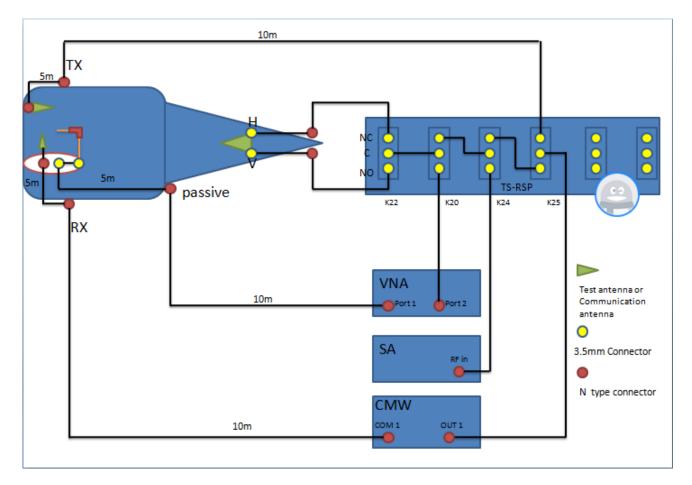
5. TEST SUMMARY LIST

NO.	Test item	Remark
1	VSWR	
2	Gain and efficiency	
3	Radiation pattern	



6. TEST SETUP







7. TEST RESULTS

7.1. VSWR

Frequency(MHz)	VSWR
2402	1.080.U
2450	1.032.U
2480	1.071.U
2420	1.086.U



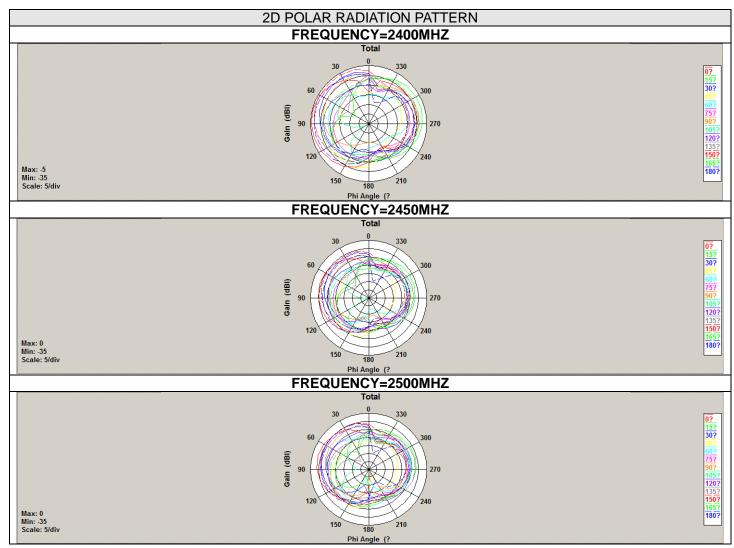


7.2. GAIN AND EFFICIENCY

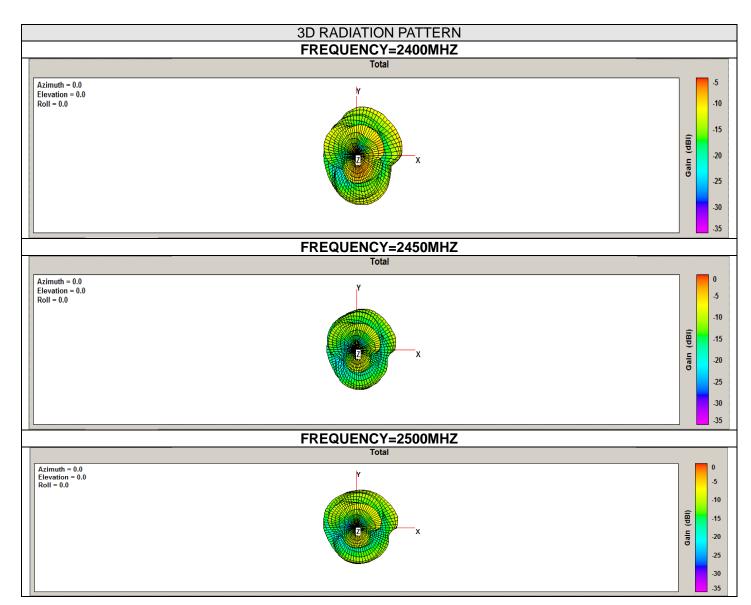
Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-13.6	4.34	-5.47
2410	-13.4	4.47	-5.01
2420	-13.5	4.41	-4.90
2430	-13.2	4.68	-4.83
2440	-13.0	4.94	-4.86
2450	-12.9	5.09	-4.68
2460	-12.6	5.38	-4.46
2470	-12.7	5.36	-4.47
2480	-12.3	5.80	-3.97
2490	-11.9	6.36	-3.66
2500	-11.7	6.71	-3.61



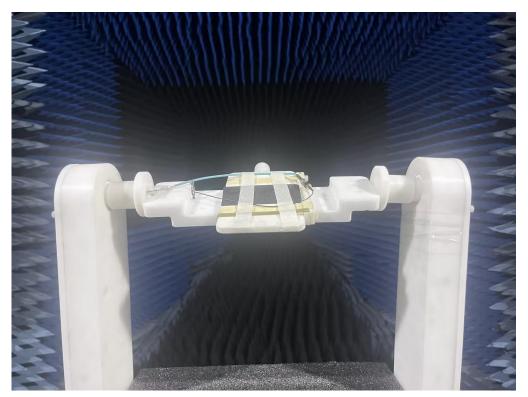
7.3. RADIATION PATTERN









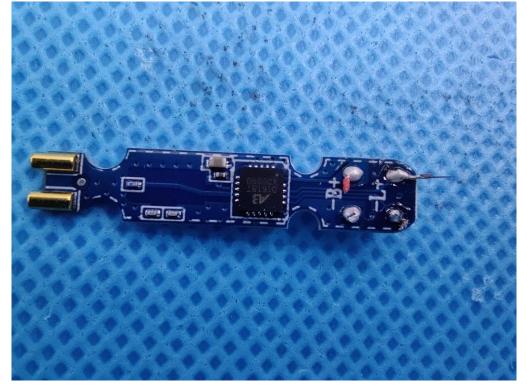


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

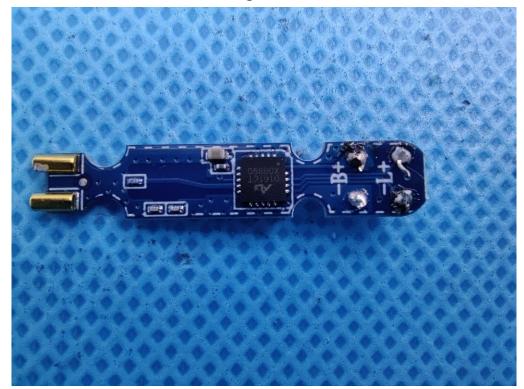


APPENDIX B: PHOTOGRAPHS OF EUT

Left Ear.



Right Ear.



----END OF REPORT----

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