

Antenna Test Report

Report No.: AGC10232230602PA01

PRODUCT DESIGNATION: Wireless Microphone System

BRAND NAME : $R\emptyset DE$

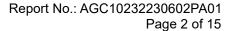
MODEL NAME: Wireless Micro Transmitter

APPLICANT : RØDE

DATE OF ISSUE : Jul. 24, 2024

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd





REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 24, 2024	Valid	Initial release

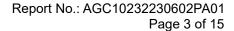
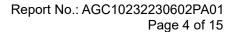




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1. PRODUCT INFORMATON

General information				
Applicant	RØDE			
Address	107 Carnarvon Street, Silverwater, New South Wales, 2128. Australia			
Manufacturer	RØDE			
Address	107 Carnarvon Street, Silverwater, New South Wales, 2128. Australia			
Factory	RØDE			
Address	107 Carnarvon Street, Silverwater, New South Wales, 2128. Australia			
Product Designation	Wireless Microphone System			
Brand Name	RØDE			
Test Model	Wireless Micro Transmitter			
Series Model	N/A			
Difference Description	N/A			
Date of receipt of test item	Jul. 11, 2024			
Date of test	Jul. 11, 2024 to Jul. 24, 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	Antenna1: PIFA antenna Antenna2: PIFA antenna			
Dimensions	Antenna1: 21.0mm*2.2mm Antenna2: 13.4mm*12.8mm			
Impedance	50 Ω			
Maximum test values	Antenna1:Gain: 1.909dBi; Efficiency: 25.884%; VSWR: 1.093:1 Antenna2:Gain: 1.383dBi; Efficiency: 43.459%; VSWR: 1.091:1			

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

Prepared By	Jouk Gai	
-	Jack Gui (Project Engineer)	Jul. 24, 2024
Reviewed By	Calin Lin	
	Calvin Liu (Reviewer)	Jul. 24, 2024
Approved By	Max Zhang	
	Max Zhang (Authorized Officer)	Jul. 24, 2024



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	Sep. 21, 2023	Sep. 20, 2024
Test software	ETS-Lindgren	EMQuest	Ver V1.12	N/A

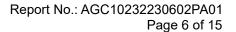
4. MEASUREMENT UNCERTAINTY

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 = ±1.5dB
- Uncertainty of Gain, Uc = ±0.8dB

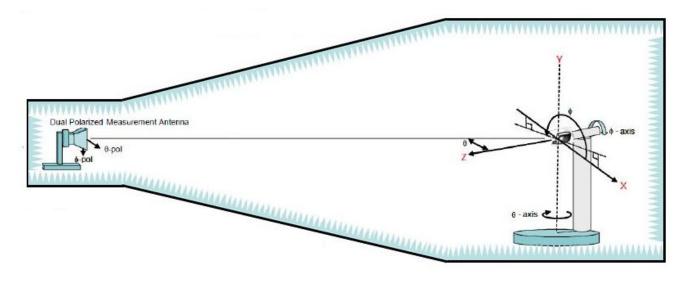
5. TEST SUMMARY LIST

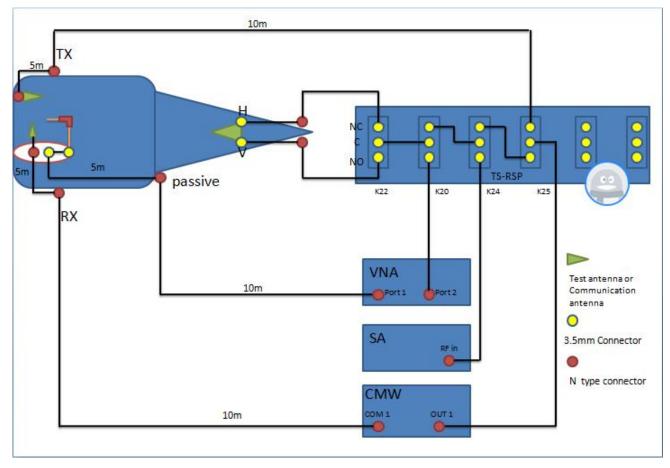
NO.	Test item	Remark
1	VSWR	
2	Gain and efficiency	
3	Radiation pattern	

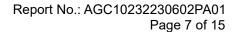




6. TEST SETUP









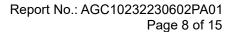
7. TEST RESULTS

7.1. **VSWR**

Antenna1

Frequency(MHz)	VSWR
2402	1.059:1
2450	1.062:1
2478	1.093:1
2480	1.085:1

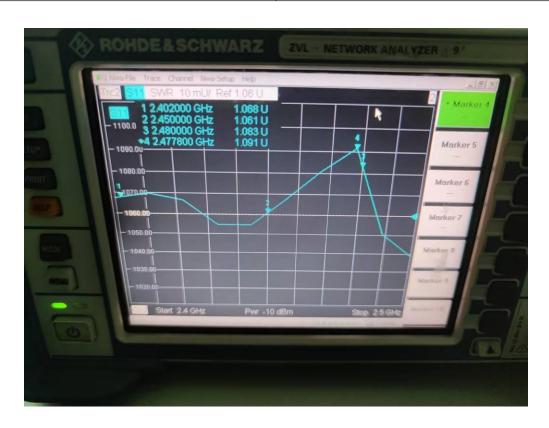






Antenna2

Frequency(MHz)	VSWR
2402	1.068:1
2450	1.061:1
2478	1.091:1
2480	1.083:1





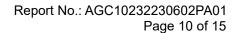
7.2. GAIN AND EFFICIENCY

Antenna1

Altonia				
Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)	
2400	-12.174	6.062	-7.090	
2410	-11.290	7.431	-6.095	
2420	-10.285	9.365	-4.990	
2430	-9.028	12.508	-3.489	
2440	-8.007	15.825	-2.297	
2450	-7.272	18.739	-1.389	
2460	-6.851	20.648	-0.517	
2470	-6.718	21.292	0.112	
2480	-6.301	23.437	0.967	
2490	-6.039	24.892	1.531	
2500	-5.870	25.884	1.909	

Antenna2

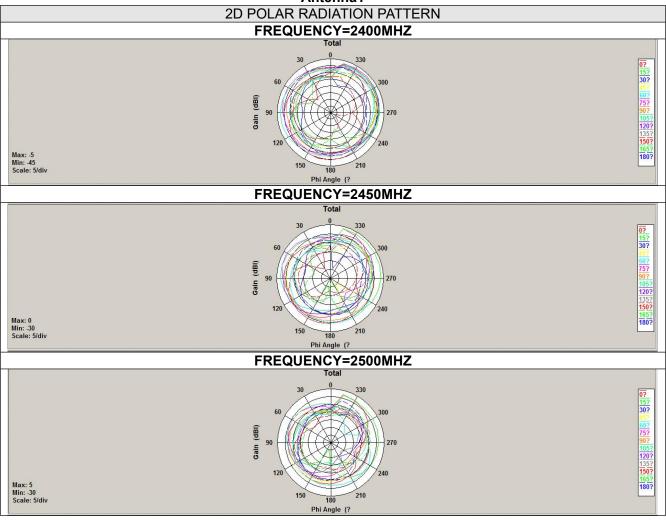
Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-5.982	25.226	-1.253
2410	-5.550	27.859	-0.976
2420	-5.165	30.441	-0.796
2430	-4.476	35.675	-0.094
2440	-3.913	40.612	0.596
2450	-3.735	42.318	0.876
2460	-3.691	42.746	-0.992
2470	-3.776	41.915	0.845
2480	-3.619	43.459	0.905
2490	-3.650	43.146	1.070
2500	-3.824	41.454.	1.383

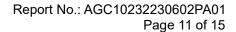




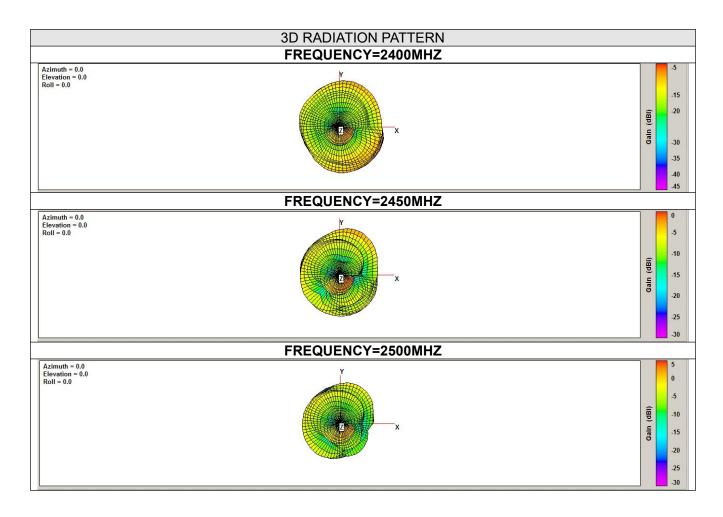
7.3. RADIATION PATTERN

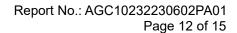






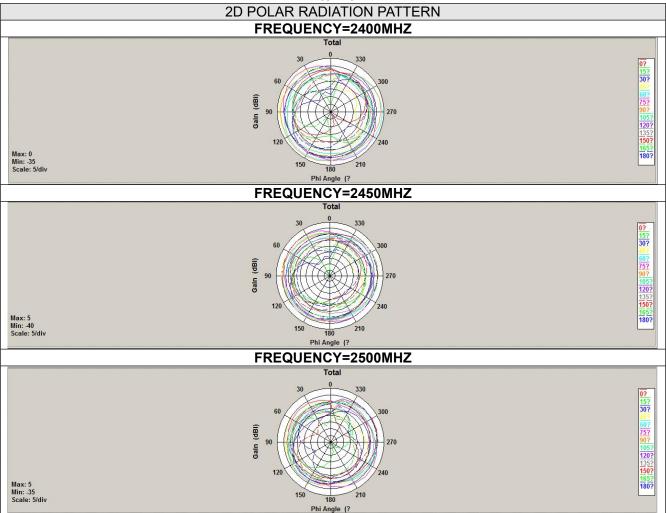


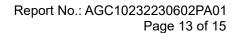




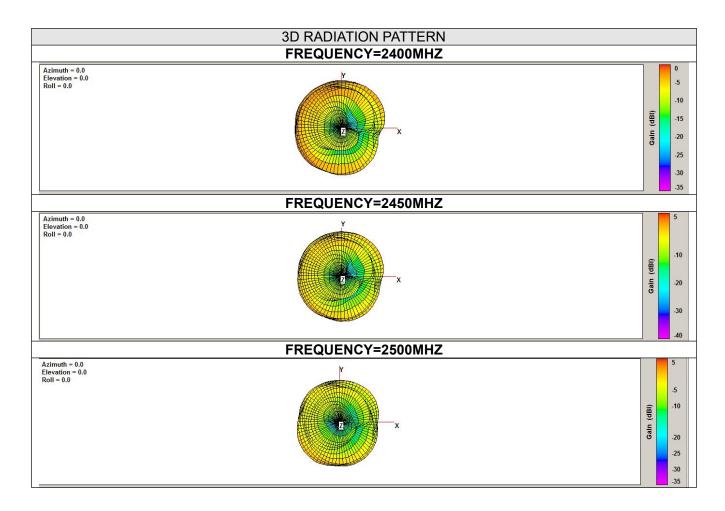


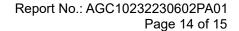








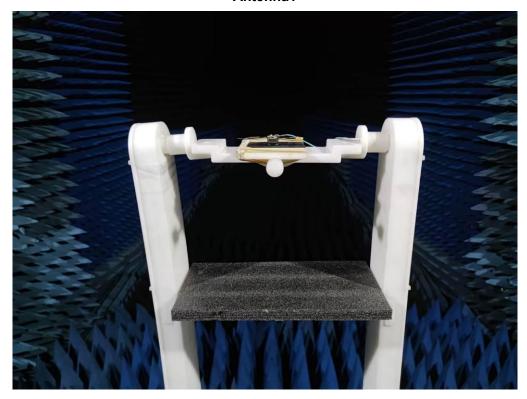




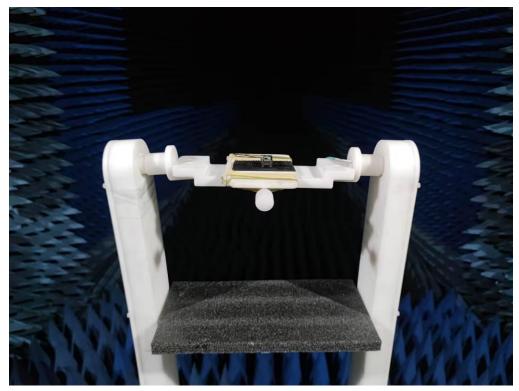


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

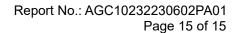
Antenna1



Antenna2



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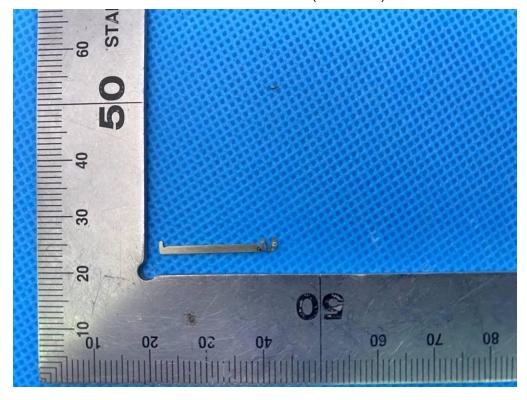




APPENDIX B: PHOTOGRAPHS OF EUT

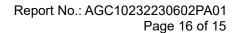
OPEN VIEW OF EUT (FIGURE 1) 80 0.9 50 40 30 20 07 08 09 09 02 08 06 00 01 30 50 30 20 10 100 80 01 09 50 09 04

Antenna1
INTERNAL VIEW OF EUT (FIGURE 1)



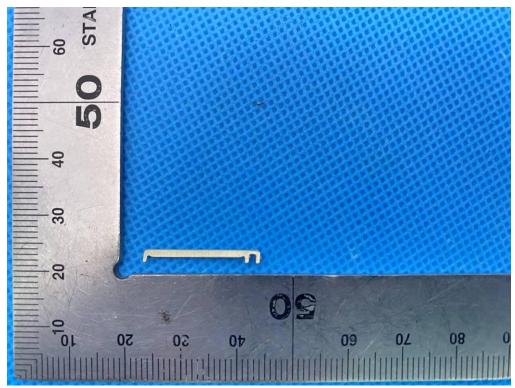
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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

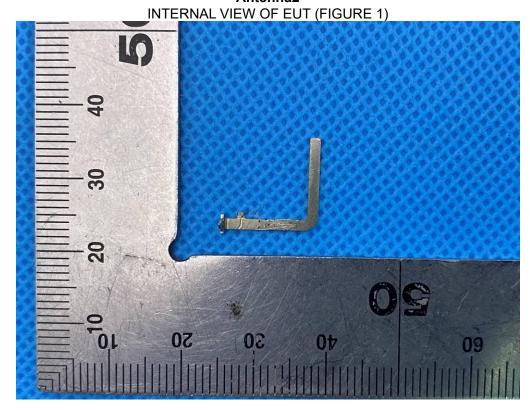




INTERNAL VIEW OF EUT (FIGURE 2)

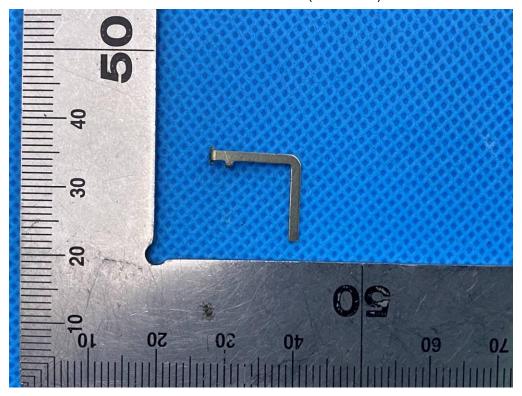


Antenna2





INTERNAL VIEW OF EUT (FIGURE 2)



----END OF REPORT----



Conditions of Issuance of Test Reports

- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
- 2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
- 6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
- 7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.