

TEST REPORT

Reference No...... : WTX25X12337828W
Applicant : PerfectCall Inc.
Address : 2625 Ribera Rd, Carmel, CA 93923
Manufacturer : PerfectCall Inc.
Address : 2625 Ribera Rd, Carmel, CA 93923
Product Name : Hub Antenna
Model No...... : Hub Antenna
Standards : ANSI/ IEEE 149-2021
Date of Receipt sample : 2025-12-19
Date of Test..... : 2025-12-22 to 2025-12-23
Date of Issue : 2025-12-23
Test Report Form No. : WTX_IEEE 149
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

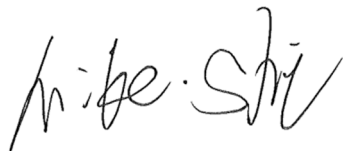
Prepared By:

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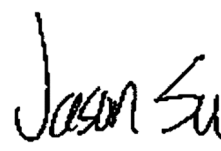
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Tested by:



Mike Shi

Approved by:



Jason Su

TABLE OF CONTENTS

1. GENERAL INFORMATION.....4
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....4

2. SUMMARY OF TEST RESULTS5

3. ANTENNA TEST CONFIGURATIONS6
3.1 TEST LOCATION6
3.1 TEST ENVIRONMENTS.....6
3.2 TEST EQUIPMENT LIST6
3.3 MEASUREMENT UNCERTAINTY6
3.4 TEST SETUP6

4. ANTENNA TEST RESULT7
4.1 GAIN AND EFFICIENCY7
4.2 RADIATION PATTERN 2D VIEW8
4.3 RADIATION PATTERN 3D VIEW10

EXHIBIT 1 - TEST SETUP PHOTOGRAPHS11

Report version

Version No.	Date of issue	Description
Rev.00	2025-12-23	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Hub Antenna
Trade Name:	/
Model No.:	Hub Antenna
Adding Model(s):	/
Note: The test data is gathered from a production sample, provided by the manufacturer.	

Technical Characteristics of EUT	
Frequency Range:	900-930MHz
Gain of Antenna:	3.70dBi (Max.)
Type of Antenna:	External Antenna
Size:	Φ:11.0mm*L:87.6mm

Dimension:



2. SUMMARY OF TEST RESULTS

Standards	Description of Test Item	Result
ANSI/ IEEE 149-2021	IEEE Recommended Practice for Antenna Measurements	Compliant

N/A: not applicable

3. Antenna Test Configurations

3.1 Test Location

Name:	Shenzhen Morlab Communications Technology Co.,Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen, GuangDong Province, P.R. China

3.1 Test Environments

Environments Parameter	Temperature	Voltage	Humidity
NTNV	25° C	--	50%

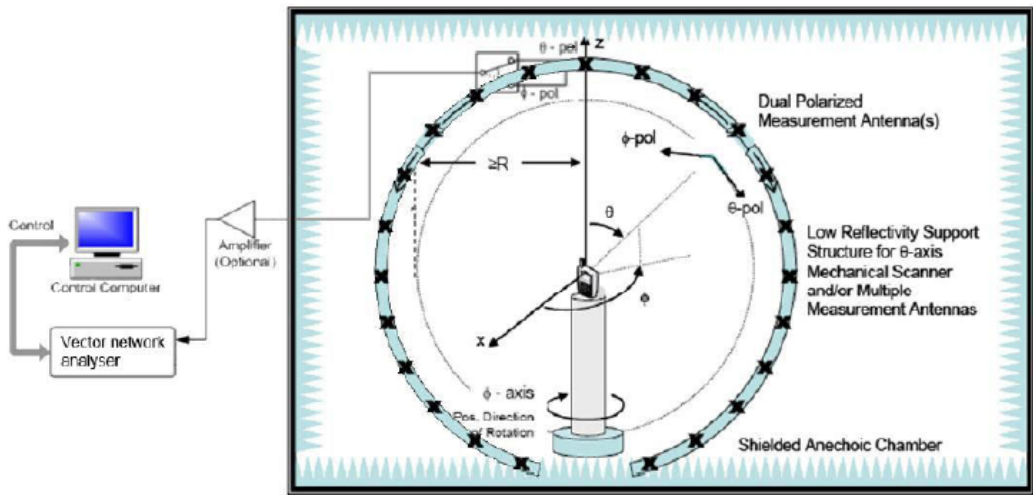
3.2 Test Equipment List

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Anechoic Chamber	ETS	AMS8923	Q2225	2023-06-09	2028-06-08
RF Switch	ETS	EMCenter	251211	/	/
Vector network analyzer	R&S	ZNB8	101413	2025-07-15	2026-07-14

3.3 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the“Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO. When the test result is a critical value,we will use the measurement uncertainty give the judgment result based on the 95%Confidence intervals.

3.4 Test Setup

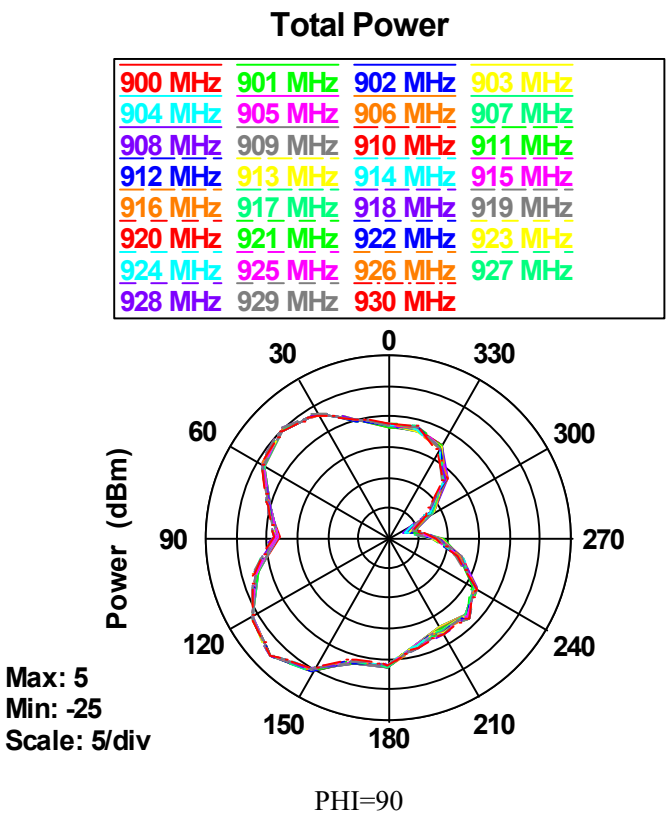
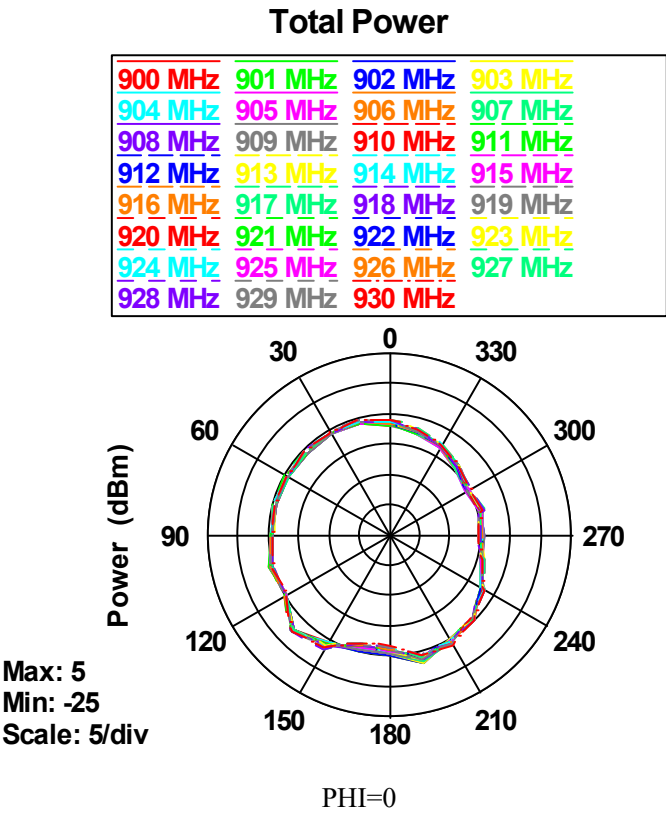


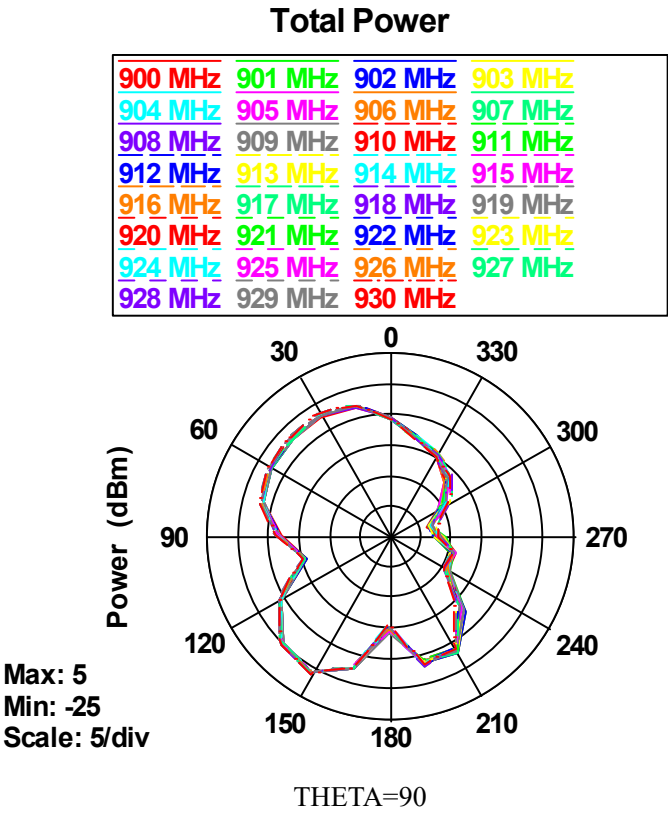
4. Antenna Test Result

4.1 Gain and Efficiency

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain(dBi)
900	-3.97	40.04	3.33
901	-3.94	40.34	3.37
902	-3.95	40.31	3.43
903	-3.98	39.95	3.51
904	-4.02	39.59	3.54
905	-4.02	39.60	3.48
906	-3.97	40.07	3.47
907	-3.91	40.65	3.45
908	-3.87	40.98	3.53
909	-3.90	40.69	3.56
910	-3.97	40.11	3.48
911	-4.00	39.84	3.44
912	-3.96	40.20	3.41
913	-3.90	40.75	3.42
914	-3.87	40.98	3.49
915	-3.89	40.85	3.55
916	-3.94	40.34	3.58
917	-3.96	40.15	3.59
918	-3.92	40.52	3.54
919	-3.86	41.13	3.51
920	-3.81	41.59	3.52
921	-3.81	41.62	3.55
922	-3.87	41.04	3.55
923	-3.94	40.39	3.47
924	-3.94	40.38	3.37
925	-3.88	40.90	3.34
926	-3.80	41.65	3.44
927	-3.78	41.85	3.53
928	-3.80	41.72	3.67
929	-3.85	41.25	3.70
930	-3.87	41.06	3.66

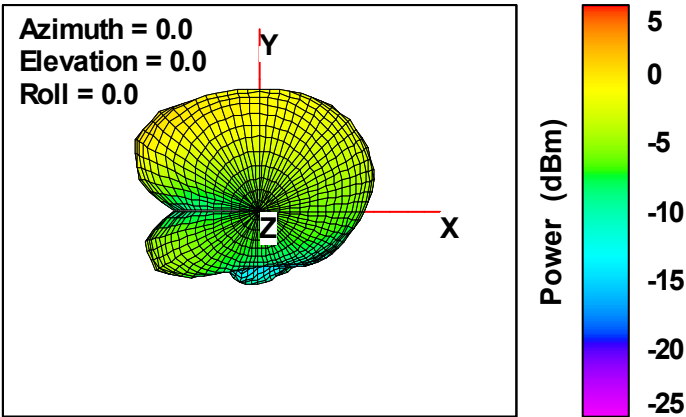
4.2 Radiation Pattern 2D View



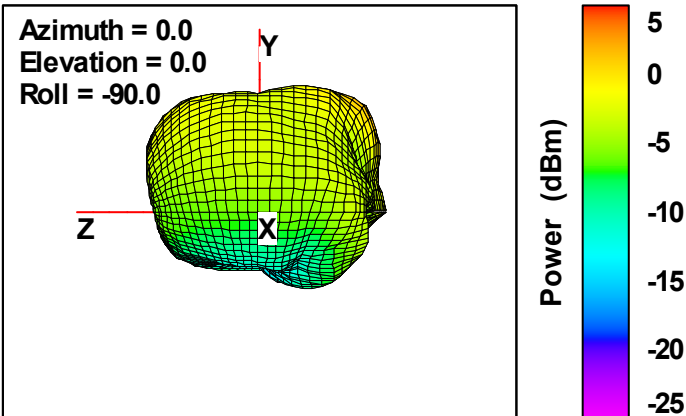


4.3 Radiation Pattern 3D View

915MHz
Total Power



Total Power



Total Power

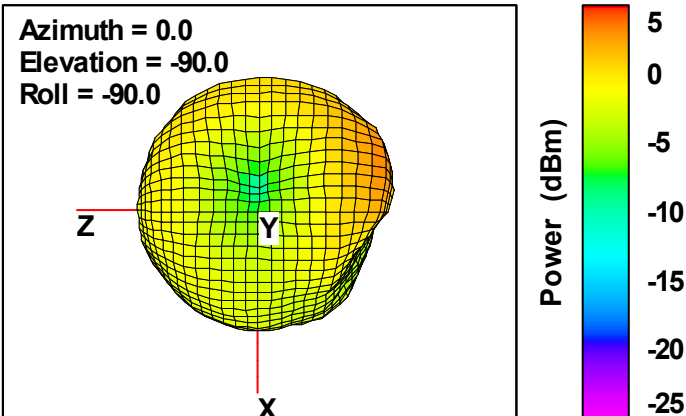
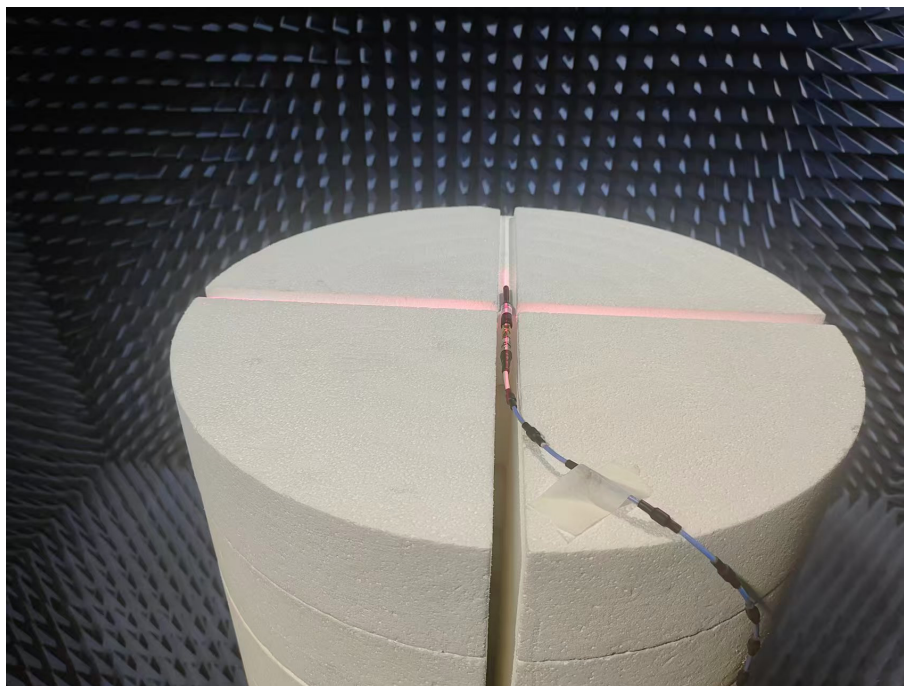


EXHIBIT 1 - TEST SETUP PHOTOGRAPHS

OTA Test View 1:



***** END OF REPORT *****