ANTENNA PASSIVE TEST REPORT

Application No.	SEWM2209000167OA
Applicant	DewertOkin Technology Group Co., Ltd.
Manufacturer	DewertOkin Technology Group Co., Ltd.
Product Name	Antenna
Model No.	RF24G
Standards	ANSI/IEEE Std 149-2008
Date Initial Sample(s) Received	2022.09.20
Testing Start Date	2022.09.21
Testing Finish Date	2022.09.21
Report Issue Date	2022.09.22

*** In the configuration tested, the EUT detailed in this report complied with the standards specified above.**

Prepared by	Reviewed By	Approved by
Leno shi	Caleb.Gao	Panda Sun

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Revision Version

Report No.	Version	Date	Memo
SEWM2209000167OA01	00	2022/09/22	Initial creation of report

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1 General Information

1.1 Testing Laboratory

Test Lab	SGS-CSTC Standards Technical Services Co., Ltd. Suzhou Branch
Address	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Contact	Panta Sun
Tel.	+86(0)512-62990300
Fax	+86(0)512-62990300
E-mail	Panta.Sun@sgs.com

1.2 Details of Applicant

Applicant's Name	DewertOkin Technology Group Co., Ltd.
Applicant's Address	Room 247, Floor 6, Jiaxing Photovoltaic Science and Innovation Park, No.1288, Kanghe Road, Xiuzhou District, Jiaxing City, Zhejiang Province, China.
Contact	Eva Zhang
Tel.	15156691493
Fax	N/A
E-mail	Eva.Zhang@refinedchina.com

1.3 Details of Manufacturer

Manufacturer's Name	DewertOkin Technology Group Co., Ltd.
Manufacturer's Address	No.465, Xinnanyang Road, Wangjiangjing Development Zone, Xiuzhou District, Jiaxing City, Zhejiang Province, China.
Contact	Eva Zhang
Tel.	15156691493
Fax	N/A
E-mail	Eva.Zhang@refinedchina.com

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1.4 General Description of EUT

Device Description:	Antenna
Device Manufacturer:	DewertOkin Technology Group Co., Ltd.
Device Model:	RF24G
Hardware Version:	GA
Software Version:	1.1

1.5 Test Procedure

Testing is performed according to the **ANSI/IEEE Std 149-2008**.

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1.6 Test Specification

Identity	Document Title
ANSI/IEEE Std 149-2008	IEEE Standard Test Procedures for Antennas

1.7 Laboratory Environment

Temperature	Min. =19℃，Max. = 25℃	
Relative humidity	Min. =40%，Max. =72%	
Shield effect	0.7-6GHz	> 100dB
Ground resistance	<0.5Ω	

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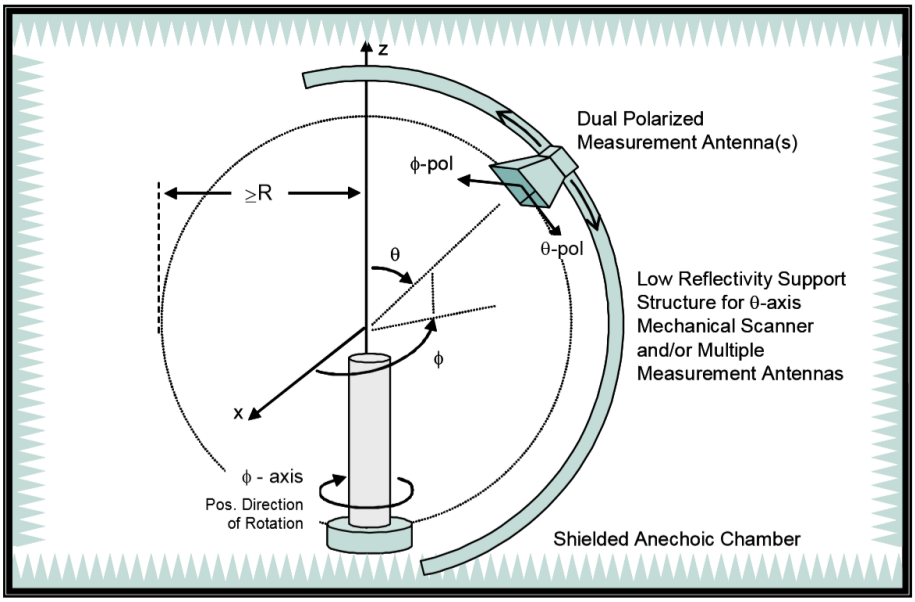
2 OTA Measurements System Configuration

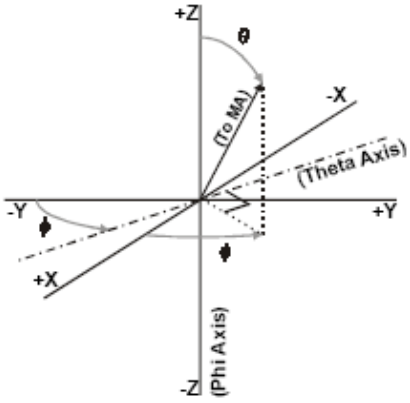
2.1 Test Configuration

Conical-Cut method is used to measure the antenna 3D GAIN of EUT in OTA qualified anechoic chamber. Equipment Under Test (EUT) geometry centre vertical projection at the centre of platform, the distance from EUT to measurement antenna is 1.5m



2.2 Test Measurement

Spherical coordinate system



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3 Test Equipment List

Type of Equipment	Model Number	Manufacture	Calibration Date	Valid Period
Network Analyzer	ZNB8 S/N 103535	R&S	2022-03-10	2023-03-09
Switch Control System	OSP 130 S/N 100358	R&S	N/A	N/A
MAPS Controller	2090 S/N 114576	ETS-Lindgren L.P.	N/A	N/A
Test Software	EMQuest™ REV 1.14 Build 31654	ETS-Lindgren L.P	N/A	N/A
Full Anechoic Wireless Test chamber	ETS-Lindgren AMS- 8923 CT000596-1149	ETS-Lindgren L.P	N/A	N/A

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4 Measurement Uncertainty

Item	617-698MHz (dB)	699-798MHz (dB)	814-894MHz (dB)	1695-1780MHz (dB)	1850-2020MHz (dB)	2300-2800MHz (dB)	3300-3800MHz (dB)	5150-5925MHz (dB)
Gain	0.75	0.9	0.74	0.84	0.83	0.9	0.84	0.86
Efficiency	0.75	0.9	0.74	0.84	0.83	0.9	0.84	0.86
Measurement Uncertainty (95% CONFIDENCE INTERVAL) K=2								

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5 Test Results

Antenna		
Frequency (MHz)	**Efficiency (%)**	**Gain (dBi)**
2400	55.157	1.176
2410	55.305	1.159
2420	53.377	1.095
2430	50.344	0.996
2440	49.467	1.225
2450	48.155	0.938
2460	46.070	0.538
2470	44.326	0.297
2480	44.490	0.522
2490	42.116	0.349
2500	41.330	0.430

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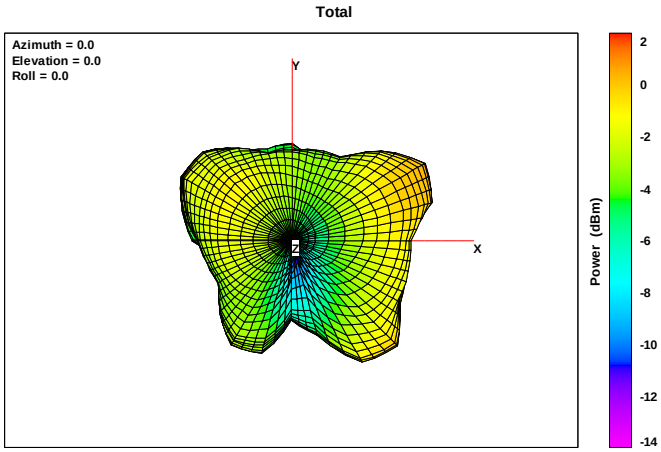
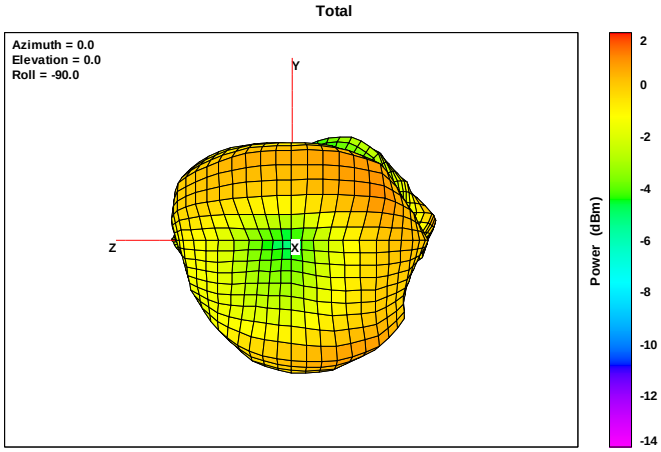
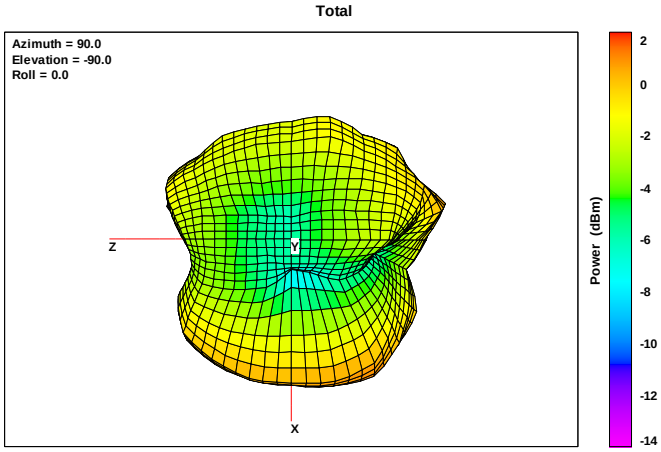
5.2 3-D Antenna Pattern

2400MHz







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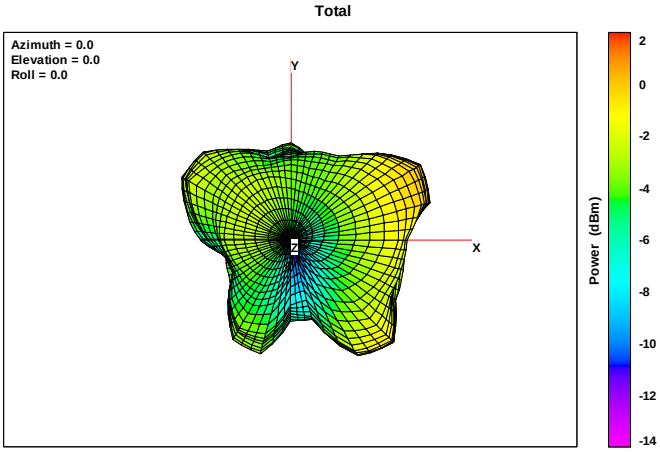
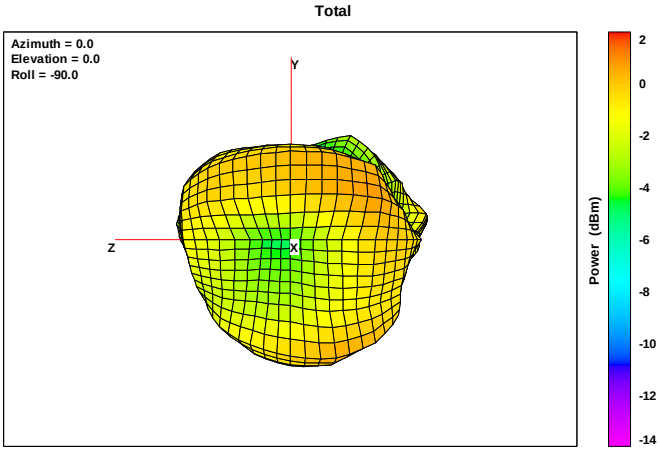
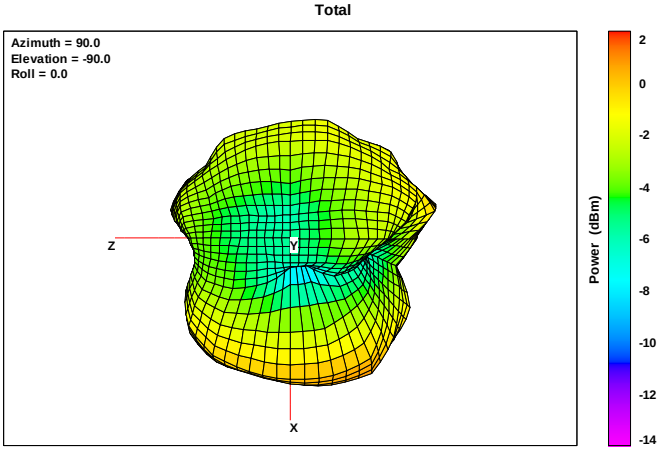
2450MHz







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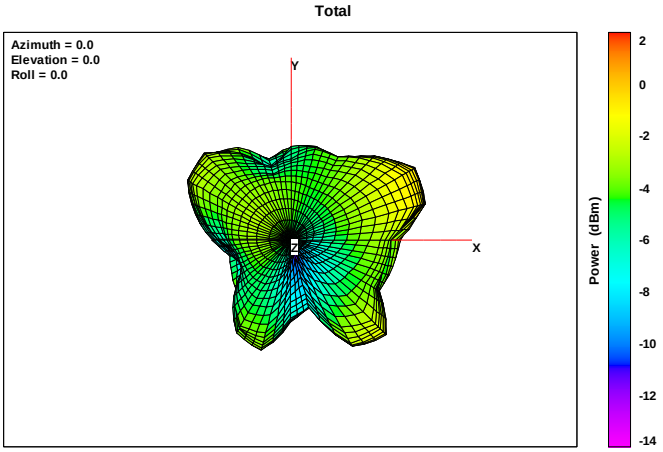

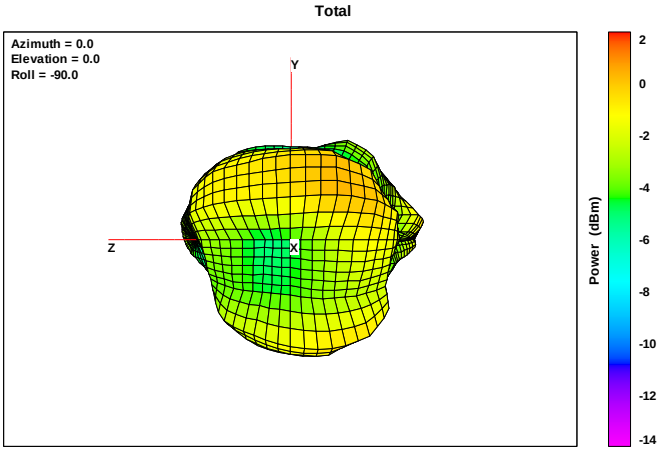

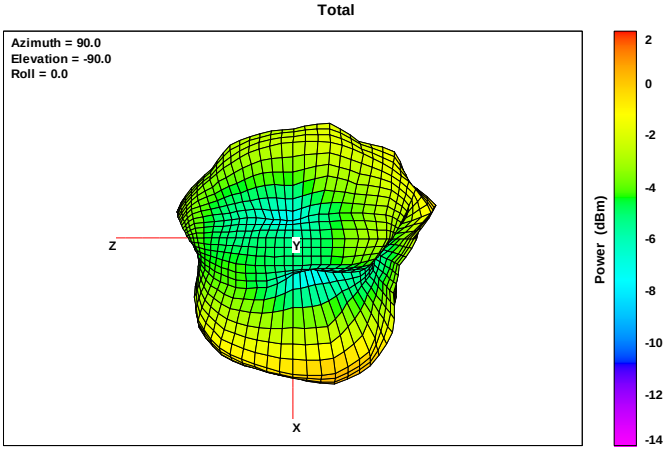

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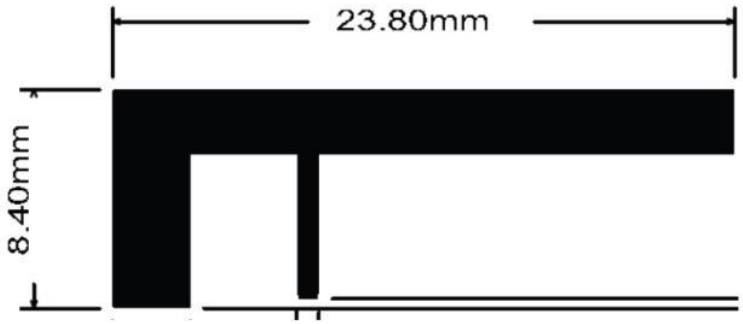
6 The EUT and Test Configuration



DUT Size

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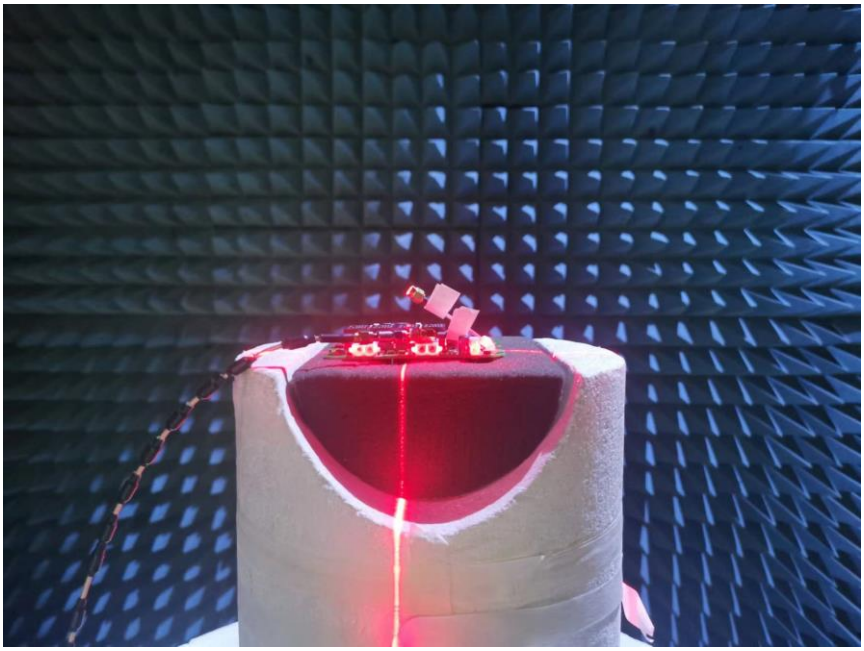

Free Space View of Antenna

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