



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

Report No.: SUOA2503000044AT01
Rev.: 01
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ANTENNA PASSIVE TEST REPORT

Application No. SUOA2503000044AT
Applicant ZheJiang E-cozy Electronic Technology Co.,Ltd
Manufacturer ZheJiang E-cozy Electronic Technology Co.,Ltd
Type Name Contol board
Model No. N080-A
Standards ANSI/IEEE Std 149-2021
Date Initial Sample(s) Received 2025-04-01
Testing Start Date 2025-04-03
Testing Finish Date 2025-04-03
Report Issue Date 2025-04-15

*In the configuration tested, the EUT complied with the standards specified above.

Leno Shi

Prepared by: Leno Shi/ Project
Manager

Caleb Gao

Approved by: Caleb Gao/
Technical Manager (Title)

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Revision History

Revision	Issue Date	Description
01	2025-04-15	The Final Version of Report

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1 General Information

1.1 Testing Laboratory

Identification of the Responsible Test Laboratory

Test Lab	SGS-CSTC Standards Technical Service (Suzhou) Co., Ltd.
Address	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Contact	Caleb Gao
Tel.	+86 13621559335
Fax	N/A
E-mail	Caleb.Gao@sgs.com

1.2 Details of Applicant

Applicant's Name	ZheJiang E-cozy Electronic Technology Co.,Ltd
Applicant's Address	Building 12, 355 Binhai 12 Branch Road , Wenzhouwan , Wenzhou city , Zhejiang Province, China
Contact	Kevin Lou
Tel.	+86 18857728388
Fax	0577-88675669
E-mail	kevin@cnecozy.com

1.3 Details of Manufacturer

Manufacturer's Name	ZheJiang E-cozy Electronic Technology Co.,Ltd
Manufacturer's Address	Building 12, 355 Binhai 12 Branch Road , Wenzhouwan , Wenzhou city , Zhejiang Province, China
Contact	Kevin Lou
Tel.	+86 18857728388
Fax	0577-88675669
E-mail	kevin@cnecozy.com

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1.4 Description of EUT(s)

Device Description:	Contol board
Device type:	Contol board
Device Manufacturer:	ZheJiang E-cozy Electronic Technology Co.,Ltd
Device Model:	N080-A
Hardware Version:	V1.0
Software Version:	V1.0.24
IMEI:	N/A
Air Interface Supported	N/A
Air Interface Tested Device Power Class:	N/A
Dimension:	24.3mm*91mm*2.0mm
Antenna type:	Onboard Antenna
Configuration of Primary Mechanical Mode:	N/A

1.5 Test Procedure

Testing is performed according to **ANSI/IEEE Std 149-2021**.

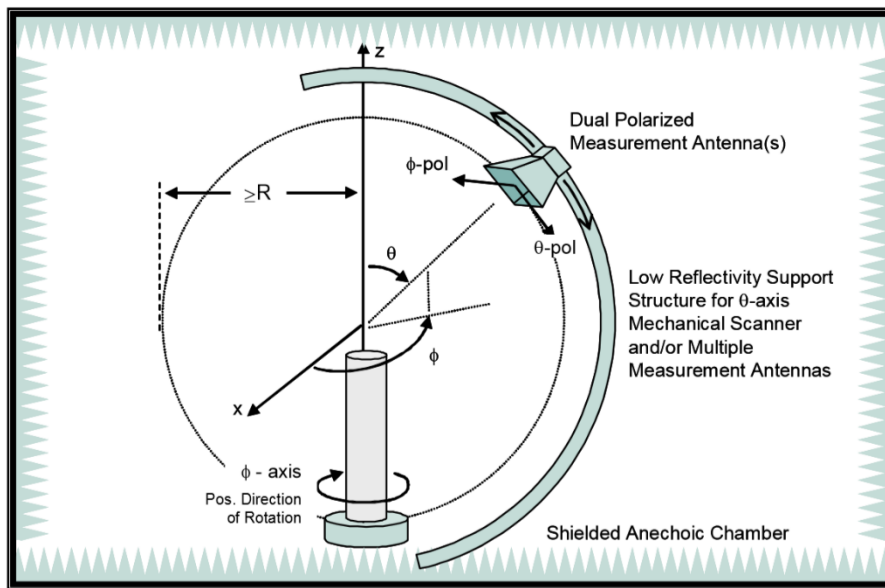
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2 Measurement System Information

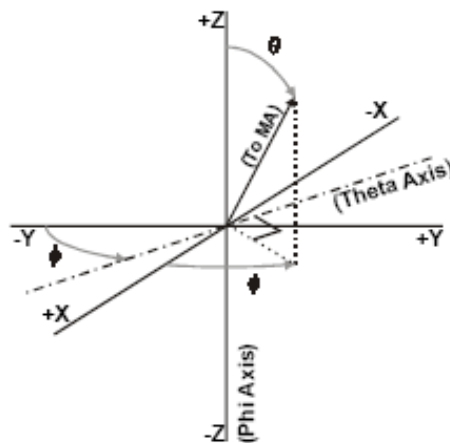
2.1 Test Configuration

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 Equipment List

Inventory No.	Equipment	Manufacturer	Model No.	Calibration Date	Calibration Due Date
SUWI-01-06-01	Network Analyzer	R&S	ZNB8 S/N 103535	2025-01-16	2026-01-15
SUWI-02-06-01	Switch Control System	R&S	OSP 130 S/N 100358	N/A	N/A
SUWI-02-07-01	Test Software	ETS-Lindgren L.P	EMQuest™ REV 1.14 Build 31654	N/A	N/A
SUWI-04-04-01	Full Anechoic Wireless Test chamber	ETS-Lindgren L.P	ETS-Lindgren AMS- 8923 CT000596-1149	2024-05-08	2027-05-07

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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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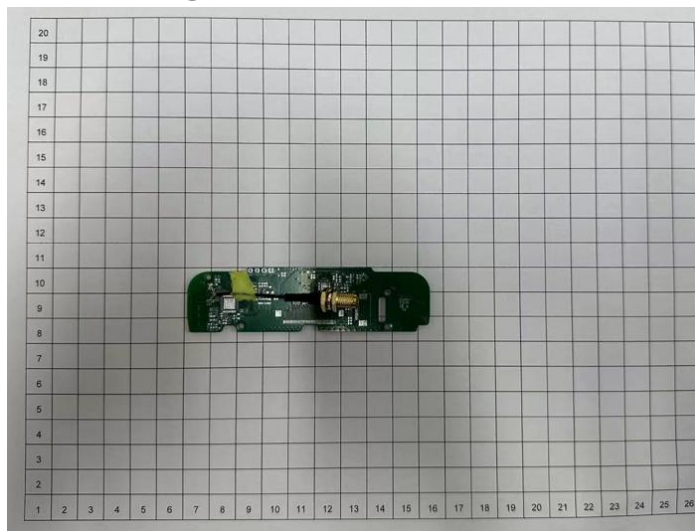
5 Test Result(s)

Frequency(MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-4.87	32.57	3.27
2405	-5.20	30.22	2.90
2410	-5.20	30.20	2.90
2415	-5.10	30.90	2.94
2420	-5.15	30.52	2.79
2425	-5.14	30.61	2.78
2430	-4.98	31.76	2.90
2435	-4.99	31.70	2.89
2440	-5.40	28.86	2.53
2445	-5.19	30.29	2.73
2450	-4.99	31.69	2.97
2455	-5.32	29.39	2.71
2460	-5.32	29.41	2.83
2465	-5.42	28.72	2.68
2470	-5.31	29.45	2.74
2475	-5.03	31.42	3.03
2480	-5.25	29.85	2.70
2485	-5.82	26.16	2.11
2490	-5.70	26.90	1.98
2495	-5.92	25.60	1.70
2500	-6.16	24.19	1.48

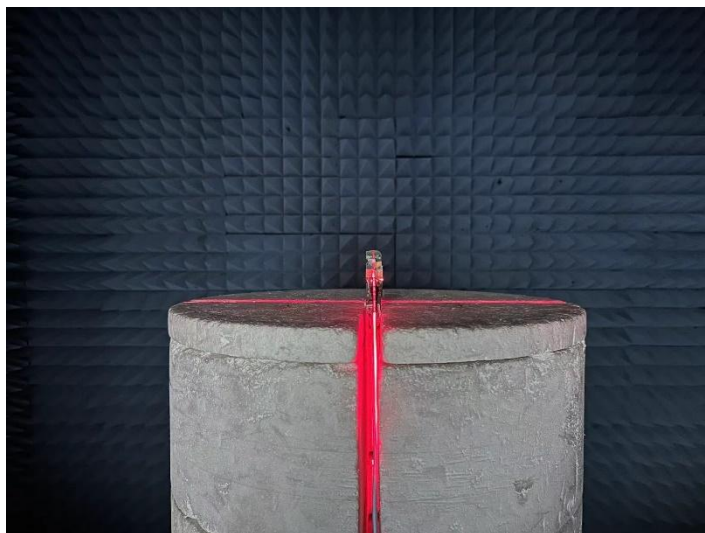
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6 EUT and Test Configuration



EUT



View of Free Space Configuration

---End of Report---

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