



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

Report No.: SUOA2606000128AT01
Rev.: 01
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ANTENNA PASSIVE TEST REPORT

Application No.	SUOA2606000128AT
Applicant	MCG INNOVATIONS Inc.
Manufacturer	Shenzhen Jinxiang Electronics Co., Ltd.
Type Name	PCB Board
Model No.	JL-PA 01
Standards	IEEE Std149-2021
Date Initial Sample(s) Received	June 15, 2026
Testing Start Date	June 15, 2026
Testing Finish Date	June 15, 2026
Report Issue Date	June 24, 2026

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

Leno Shi

Caleb Gao

Prepared by: ABC (Name of signatory)/ Project Engineer (Title)

Approved by: ABC (Name of signatory)/ Technical Manager (Title)

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Revision History

Revision	Issue Date	Description
01	June 24, 2026	Initial creation 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 Services (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(0)512-62992980
Fax	+86(0)512-62992980
E-mail	Caleb.Gao@sgs.com

1.2 Details of Applicant

Applicant's Name	MCG INNOVATIONS Inc.
Applicant's Address	22 Meridian Road Unit 1 Eatontown, NJ 07724 U.S.A
Contact	Vanessa Xu
Tel.	0086-18707953373
Fax	N/A
E-mail	vanessax@mcginno.com

1.3 Details of Manufacturer

Manufacturer's Name	Shenzhen Jinxiang Electronics Co., Ltd.
Manufacturer's Address	Building A, Xinbaoyuan Tower, 5179 Yiyuan Road, District 74, Bao'an District, Shenzhen
Contact	Xia Chenfu
Tel.	13724356235
Fax	N/A
E-mail	szjxpcb@21cn.net

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1.4 Description of EUT(s)

Device Description:	JL-PA 01
Device Type:	PCB Board
Device Manufacturer:	Shenzhen Jinxiang Electronics Co., Ltd.
Device Model:	JL-PA 01
Hardware Version:	v 6.0
Software Version:	v 2.0
IMEI:	N/A
Air Interface Supported	N/A
Air Interface Tested Device Power Class:	N/A
Dimension:	13.7*5
Antenna type:	On-board Antenna
Configuration of Primary Mechanical Mode:	N/A

1.5 Test Procedure

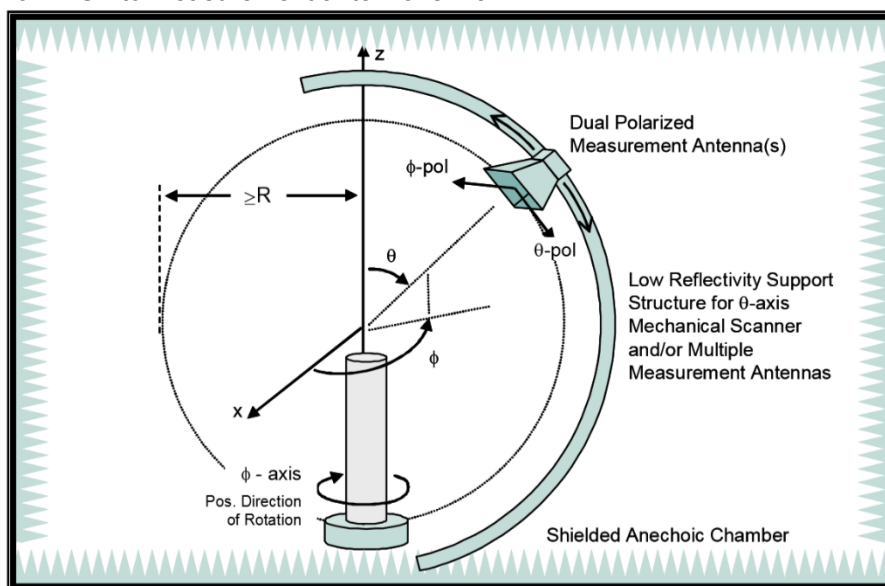
Testing is performed according to **IEEE Std149-2021**.

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2 Measurement System Information

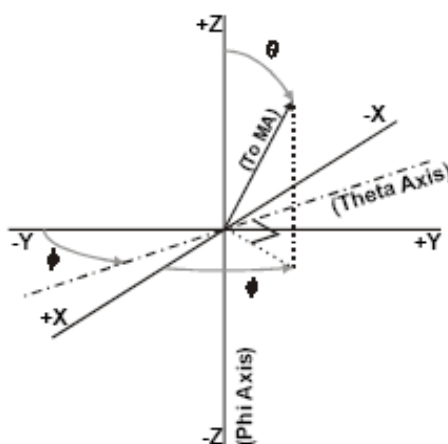
2.1 Test Configuration

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

Equipment	Manufacturer	Model No.	Inventory No.	Calibration Date	Calibration Due Date
Network Analyzer	R&S	ZNB8 S/N 103535	SUWI-01-06-01	2026/1/15	2027/1/14
Switch Control System	R&S	OSP 130 S/N 100358	SUWI-02-06-01	N/A	N/A
Test Software	ETS-Lindgren L.P	EMQuest™ REV 1.16 Build 31654	SUWI-02-07-01	N/A	N/A
Full Anechoic Wireless Test chamber	ETS-Lindgren L.P	ETS-Lindgren AMS- 8923 CT000596- 1149	SUWI-04-04-01	2024/5/8	2027/5/7

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4 Measurement Uncertainty

The expanded measurement uncertainties ($k = 2$) for the TIS results reported have been determined to be as follows:

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								

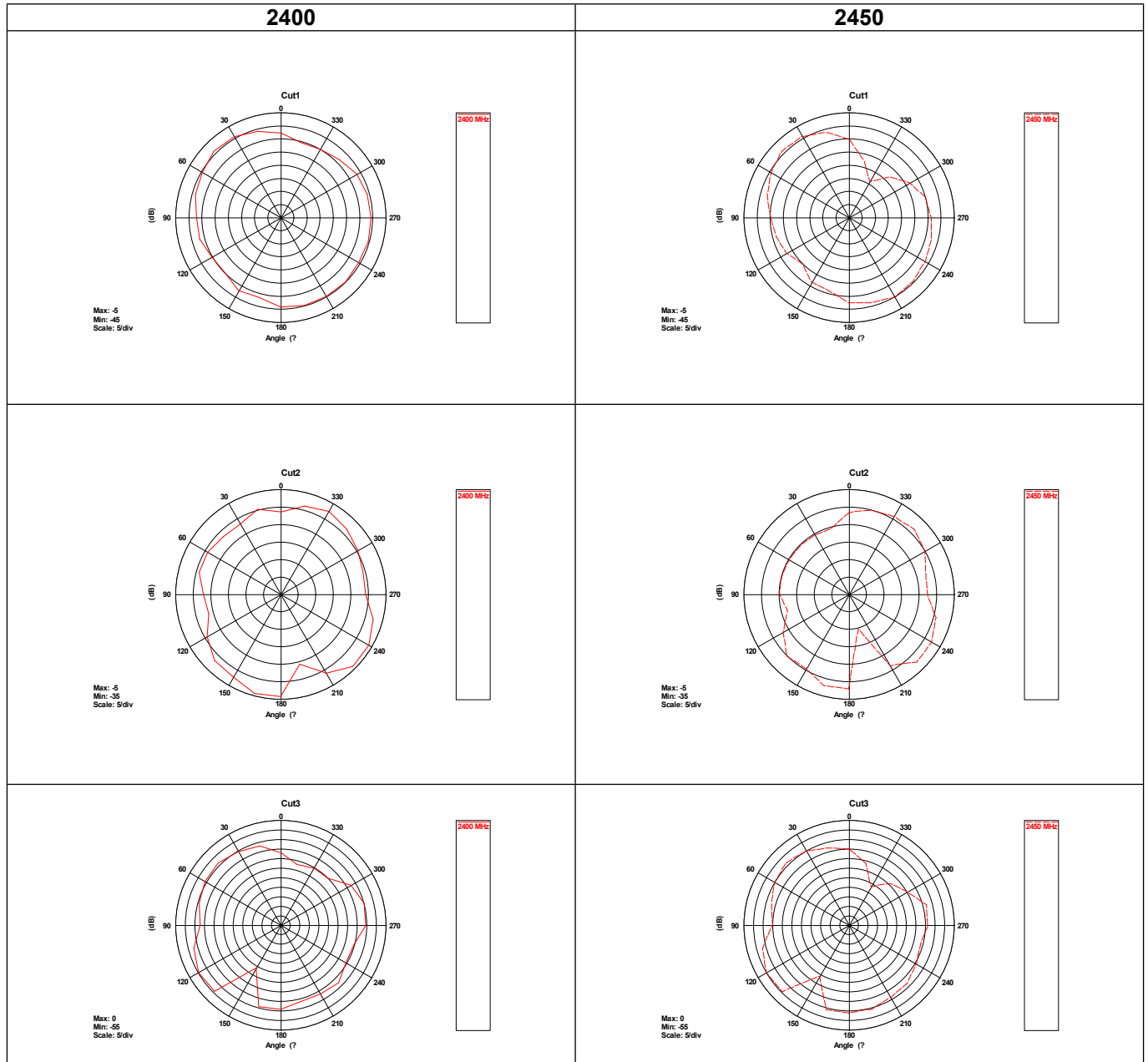
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5 Test Result(s)

Passive OTA			
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-7.37	18.30	-1.82
2405	-7.83	16.48	-2.20
2410	-7.72	16.90	-2.08
2415	-8.08	15.55	-2.29
2420	-8.11	15.45	-2.36
2425	-8.04	15.70	-2.30
2430	-8.36	14.60	-2.51
2435	-8.23	15.02	-2.37
2440	-8.45	14.29	-2.58
2445	-8.48	14.18	-2.68
2450	-8.36	14.57	-2.61
2455	-8.19	15.18	-2.63
2460	-8.08	15.56	-2.58
2465	-8.04	15.72	-2.57
2470	-7.81	16.56	-2.60
2475	-7.63	17.27	-2.48
2480	-7.57	17.48	-2.30
2485	-7.50	17.77	-2.03
2490	-7.47	17.89	-2.25
2495	-7.40	18.18	-2.33
2500	-7.44	18.03	-2.33

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6 2-D Patterns



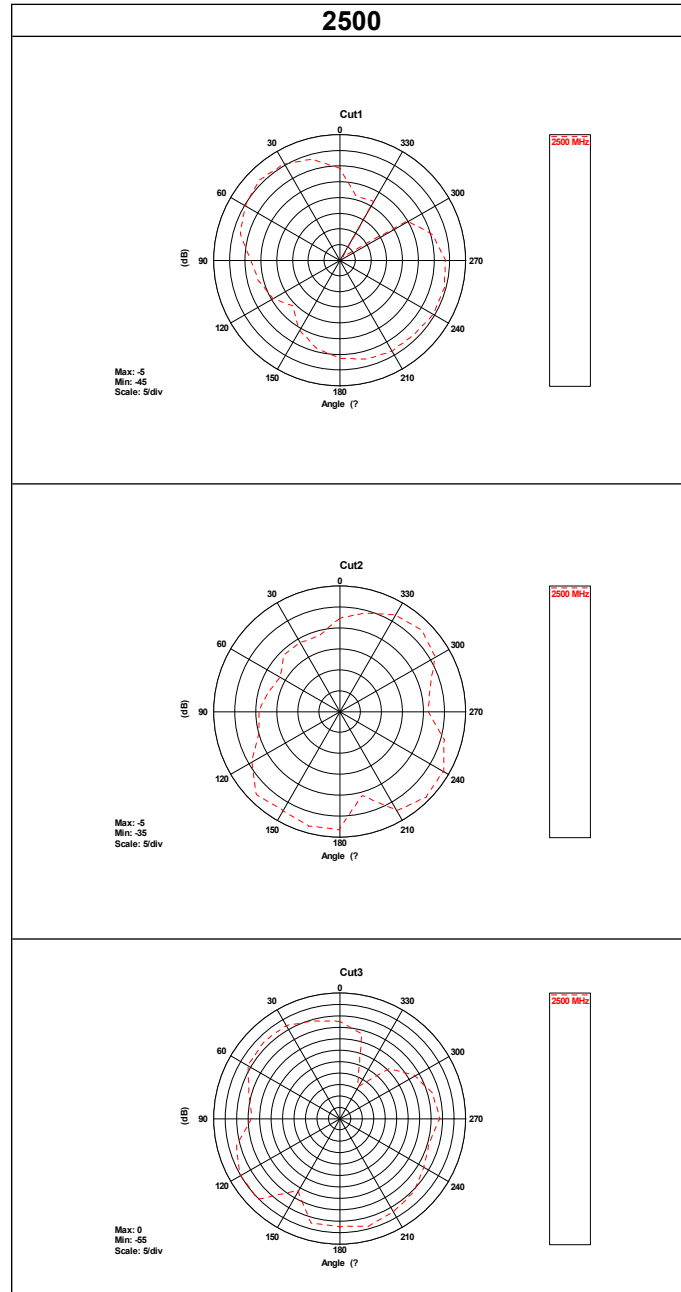
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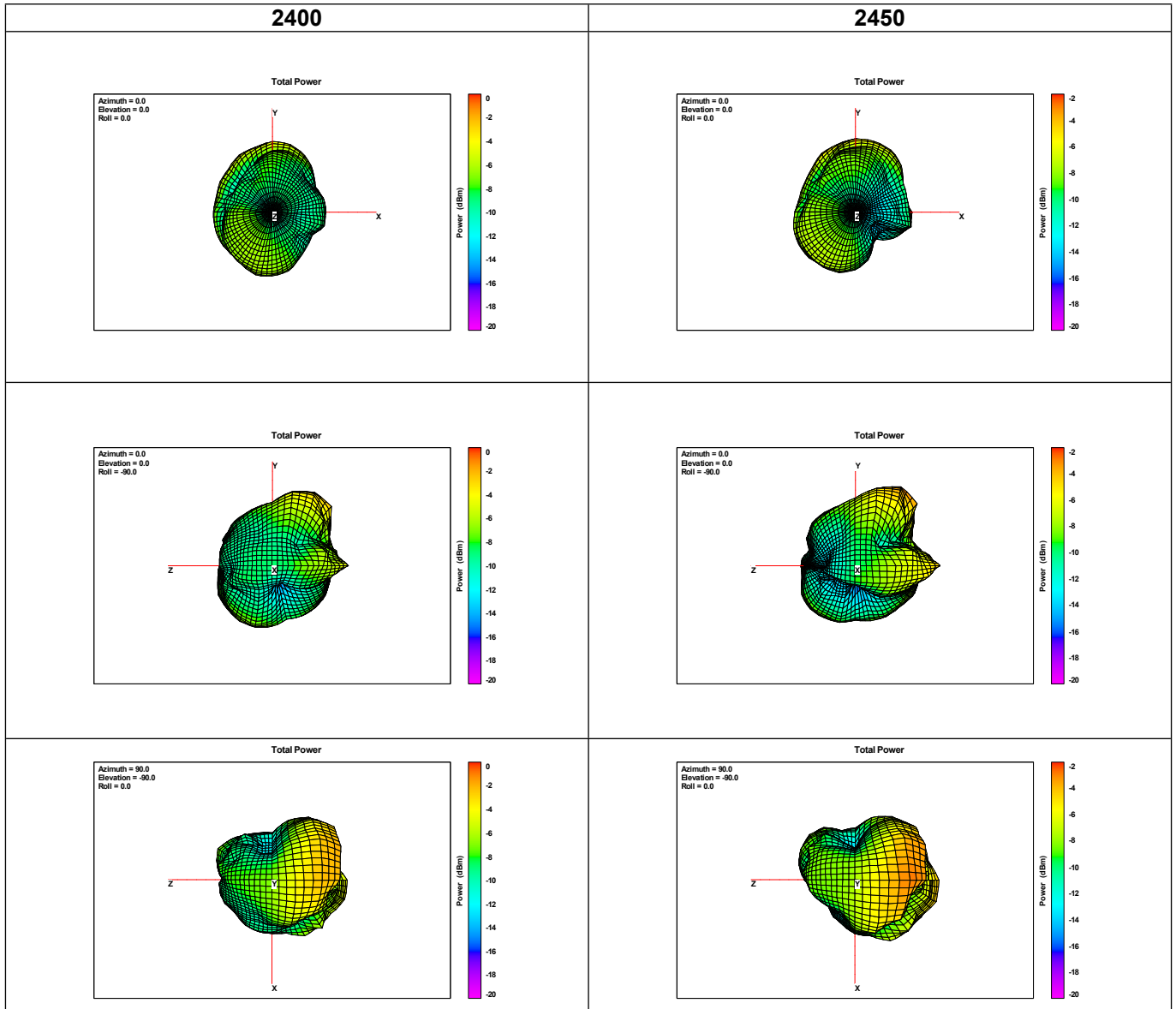
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7 3-D Patterns



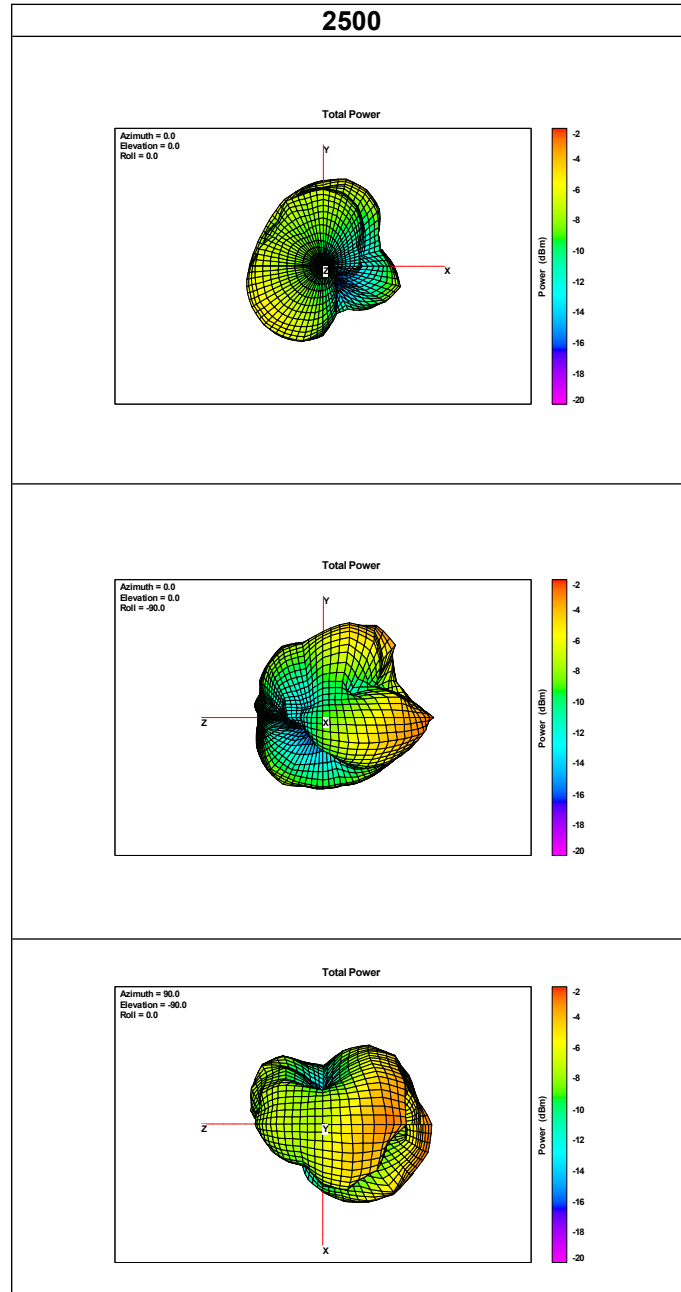
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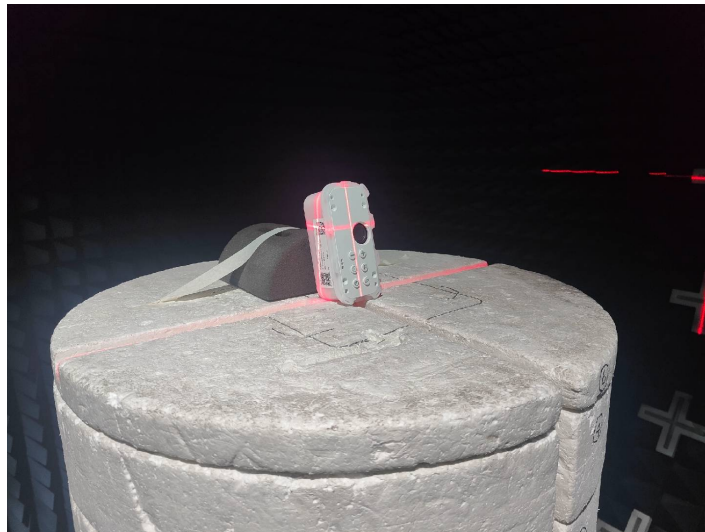
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8 EUT and Test Configuration



Test Photograph



Sample Photograph

---End of Report---

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