

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR221100403701

Page: 1 of 16

ANTENNA PASSIVE TEST REPORT

Application No. SZCR2211004037AT

Applicant CHENGDU TECLOMAN ENERGY STORAGE TECHNOLOGY CO.,

LTD

CHENGDU TECLOMAN ENERGY STORAGE TECHNOLOGY CO.,

LTD

Product Name Printed circuit board antenna

Model No. KXTX-2.4G7505-12CM-IPEX-1

Standards ANSI/IEEE Std 149-2008

Date Initial Sample(s) Received2023-02-10Testing Start Date2023-02-11

Testing Finish Date 2023-02-11 to 2023-03-02

Report Issue Date 2023-03-02

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

Keny Xu EMC Laboratory Manager



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| | Revision Record | | | |
|---------|-----------------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2023-03-02 | | Original |
| | | | | |
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| Authorized for issue by: | | |
|--------------------------|----------------------|--|
| | Lan. le | |
| | Prepared by lan Li | |
| | Markhow | |
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| | Exic Fu | |
| | Approved by Eric Fu | |



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Revision Version 2

| Report No. | Version | Date | Memo |
|------------------|---------|-------|----------------------------|
| SZCR2211004037AT | 00 | 03/02 | Initial creation of report |



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4 **General Information**

4.1 Testing Laboratory

| Test Lab | SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch |
|----------|---|
| Address | No.1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 |
| Contact | Mark Mao |
| Tel. | +86 (0) 755 2532 8628 |
| Fax | +86 (0) 755 2671 0594 |
| E-mail | Mark.Mao@sgs.com |

4.2 Details of Applicant

| Applicant's Name | CHENGDU TECLOMAN ENERGY STORAGE TECHNOLOGY CO., LTD |
|---------------------|--|
| Applicant's Address | GUIJIN ROAD, INDUSTRIAL ZONE, XINDU DISTRICT CHENGDU, CHINA. |
| Contact | Rendong Xie |
| Tel. | 15989862946 |
| E-mail | xierendong@tlmse.com |

4.3 Details of Manufacturer

| Manufacturer's Name | CHENGDU TECLOMAN ENERGY STORAGE TECHNOLOGY CO., LTD |
|------------------------|--|
| Manufacturer's Address | GUIJIN ROAD, INDUSTRIAL ZONE, XINDU DISTRICT CHENGDU, CHINA. |
| Contact | Rendong Xie |
| Tel. | 15989862946 |
| E-mail | xierendong@tlmse.com |

4.4 General Description of EUT

| Device Description: | Antenna Of Battery System |
|----------------------|-------------------------------|
| Device Manufacturer: | Printed circuit board antenna |
| Device Model: | KXTX-2.4G7505-12CM-IPEX-1 |
| Hardware Version: | N/A |
| Software Version: | N/A |
| S/N: | N/A |



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4.5 Test Procedure

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

4.6 Test Specification

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

4.7 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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4.8 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.9 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

4.10 Deviation from Standards

None

4.11 Abnormalities from Standard Conditions



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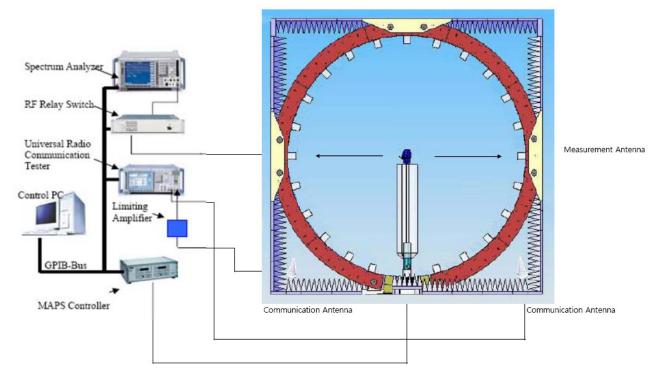
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5 **OTA Measurements System Configuration**

Test Configuration

Great-Circle-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 5m



F-1. OTA Measurement System Configuration



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Equipment List 6

| Type of Equipment | Model Number | Manufacture | Calibration Date | Valid Period |
|--|----------------------------|-------------------|------------------|--------------|
| Network Analyzer | E5071C S/N MY46523591 | Keysight | 2022/4/11 | 2023/4/10 |
| Quad-Ridge Horn Antenna 700 MHz-10 GHz | EMCO 3164-08 S/N 161915 | ETS-Lindgren L.P. | N/A | N/A |
| MAPS Controller | EMCENTER S/N 160485 | ETS-Lindgren L.P. | N/A | N/A |



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7 **Measurement Uncertainty**

| Item | 2400-2500 MHz (dB) | |
|---|--------------------|--|
| Gain | 0.88 | |
| Efficiency | 0.88 | |
| Measurement Uncertainty (95% CONFIDENCE INTERVAL) K=2 | | |



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Test Result 8

8.1 Test summary

| product | Maximum Gain Data | | | |
|---------|-------------------|-----------------|----------------|------------|
| | Frequency (MHz) | Efficiency (dB) | Efficiency (%) | Gain (dBi) |
| Antenna | 2500 | -1.90 | 64.51 | 3.84 |

8.2 Antenna Test Results

| Free Space | | | | | |
|--------------------|--------------------|----------------|---------------|--|--|
| Frequency (MHz) | Efficiency (dB) | Efficiency (%) | Gain (dBi) | | |
| 2400 | -2.95 | 50.65 | 2.05 | | |
| 2402 | -2.94 | 50.77 | 1.93 | | |
| 2405 | -2.84 | 52.04 | 2.25 | | |
| 2410 | -2.78 | 52.75 | 2.34 | | |
| 2415 | -2.71 | 53.53 | 2.44 | | |
| 2420 | -2.73 | 53.30 | 2.58 | | |
| 2425 | -2.74 | 53.17 | 2.57 | | |
| 2430 | -2.76 | 53.02 | 2.68 | | |
| 2435 | -2.72 | 53.45 | 2.61 | | |
| 2440 | -2.55 | 55.61 | 2.84 | | |
| 2441 | -2.54 | 55.70 | 2.84 | | |
| 2445 | -2.48 | 56.48 | 2.81 | | |
| 2450 | -2.41 | 57.38 | 3.04 | | |
| 2455 | -2.40 | 57.53 | 3.11 | | |
| 2460 | -2.45 | 56.93 | 3.28 | | |
| 2465 | -2.39 | 57.66 | 3.29 | | |
| 2470 | -2.52 | 56.01 | 3.26 | | |
| 2475 | -2.39 | 57.68 | 3.23 | | |
| 2480 | -2.43 | 57.15 | 3.16 | | |
| 2482 | -2.37 | 58.01 | 3.34 | | |
| 2485 | -2.27 | 59.31 | 3.23 | | |
| 2490 | -2.20 | 60.27 | 3.37 | | |
| 2495 | -2.01 | 62.96 | 3.64 | | |
| 2500 | -1.90 | 64.51 | 3.84 | | |



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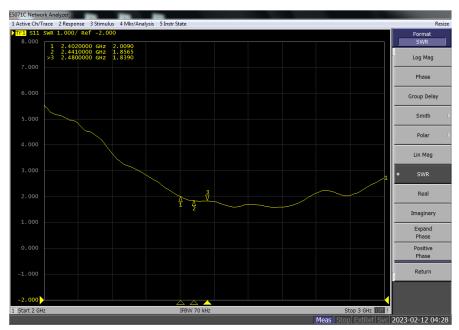
Pattern Plots 9

Return Los



Free Space

VSWR



Free Space



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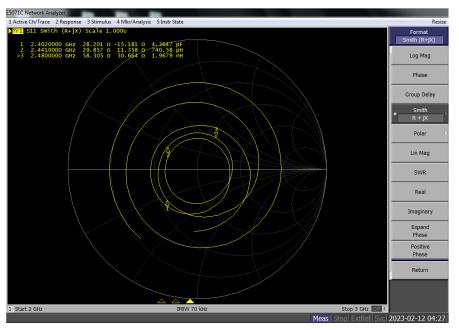


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Stimulus



Free Space



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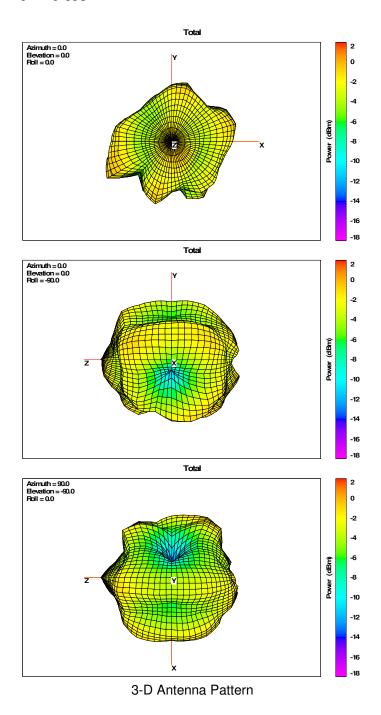


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10 3-D Antenna Pattern





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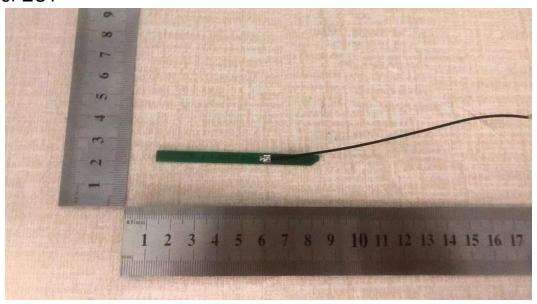
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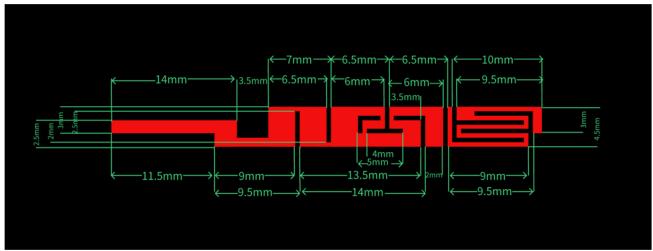
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11 The EUT and Test Configuration

Photo of EUT



Size of the Antenna



Size of the Antenna in the EUT



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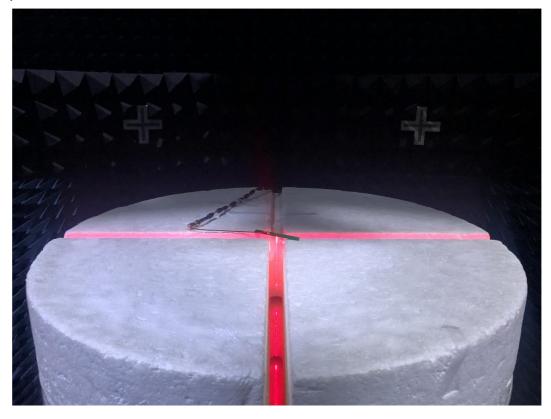


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Free Space View



- End of the Report -



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