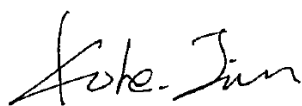


RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2210001284LM
Applicant: Lamues Light Enterprise Co., Ltd
Address of Applicant: NO.3, STREET 86K, PHUM TRAPEANG CHREY, SANGKAT KAKAB, KHAN POR SEN CHEY, PHNOM PENH CITY, CAMBODIA.
Manufacturer: Lamues Light Enterprise Co., Ltd
Address of Manufacturer: NO.3, STREET 86K, PHUM TRAPEANG CHREY, SANGKAT KAKAB, KHAN POR SEN CHEY, PHNOM PENH CITY, CAMBODIA.
Factory: Lamues Light Enterprise Co., Ltd
Address of Factory: NO.3, STREET 86K, PHUM TRAPEANG CHREY, SANGKAT KAKAB, KHAN POR SEN CHEY, PHNOM PENH CITY, CAMBODIA.
Equipment Under Test (EUT):
EUT Name: 69278-T1: Curtain Gem Lights, Enbrighten WIFI, RGB 3ft by 7ft
 69281-T2: Enbrighten WIFI String Fairy Lights RGB 20ft
Model No.: 69281-T2, 69278-T1 ♣
 ♣ Please refer to section 2 of this report which indicates which item was actually evaluated and which were electrically identical.
Standard(s) : 47 CFR Part 1.1310
 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2022-10-10
Date of Evaluation: 2022-10-20
Date of Issue: 2022-11-09

| | |
|---------------------------|--------------|
| Evaluation Result: | Pass* |
|---------------------------|--------------|

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

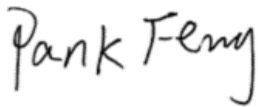



Kobe Jian
EMC Laboratory Manager



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 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

| Revision Record | | | |
|-----------------|------------------|------------|----------|
| Version | Report No. | Date | Remark |
| 01 | GZCR221000128403 | 2022-11-09 | Original |
| | | | |
| | | | |

| Authorized for issue by: | | | |
|--------------------------|---|--|--|
| |  | | |
| | Pank Feng/Project Engineer | | |
| |  | | |
| | Ricky Liu/Reviewer | | |



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2 Evaluation Summary

| Item | Standard | Method | Requirement | Result |
|-------------|--|--|--------------------|--------|
| RF Exposure | KDB447498D01 General RF Exposure Guidance v06 | KDB447498D01 General RF Exposure Guidance v06 | 47 CFR Part 1.1310 | Pass |

Note:

E.U.T./EUT means Equipment Under Test.

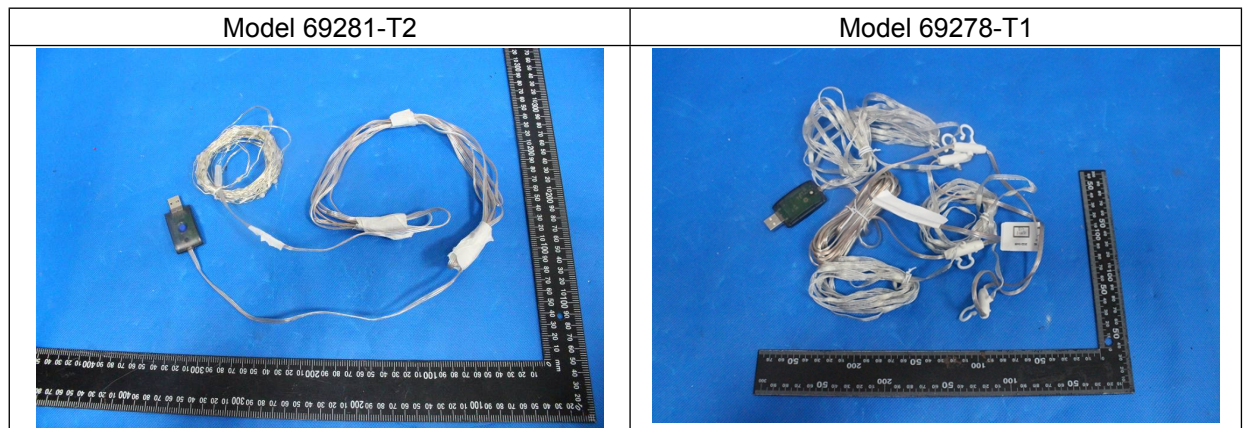
Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

♣ Declaration of EUT Family Grouping:

Model No.: 69281-T2, 69278-T1

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model name.

Therefore, only one model 69281-T2 was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 5V
Cable(s): DC cable: about 3.6m unshielded
For Bluetooth:
Version: V5.1 LE
Operation Frequency: 2402MHz to 2480MHz
Modulation Type: GFSK
Number of Channels: 40
Channel Spacing: 2MHz
For WiFi:
Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz;
802.11n(HT40): 2422MHz to 2452MHz
Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK);
802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels: 802.11b/g/n(HT20): 11
802.11n(HT40): 7
Channel Spacing: 802.11b/g/n(HT20)/(HT40):5MHz
Antenna Type: Integral Antenna
Antenna Gain: 1.96dBi

4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.3 Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Technical Requirements Specification

5.1 General Description of Applied Standards

KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions,

by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.2 RF Exposure Evaluation

5.2.1 Limit & Test Method

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposures | | | | |
| 0.3–3.0 | 614 | 1.63 | *(100) | 6 |
| 3.0–30 | 1842/f | 4.89/f | *(900/f ²) | 6 |
| 30–300 | 61.4 | 0.163 | 1.0 | 6 |
| 300–1500 | | | f/300 | 6 |
| 1500–100,000 | | | 5 | 6 |
| (B) Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3–1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34–30 | 824/f | 2.19/f | *(180/f ²) | 30 |
| 30–300 | 27.5 | 0.073 | 0.2 | 30 |
| 300–1500 | | | f/1500 | 30 |
| 1500–100,000 | | | 1.0 | 30 |

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * P_i * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

P_i = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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5.2.2 Conclusion

Normal use condition for
Distance between antenna and body: 20cm declared by applicant

Antenna Gain: 1.96 dBi

For 2.4 GHz Wi-Fi

| Frequency (MHz) | Antenna Gain (Numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|-----------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 11B | | | | | | |
| 2412 | 1.96 | 11.81 | 15.171 | 0.00474 | 1 | Complies |
| 2442 | 1.96 | 10.37 | 10.889 | 0.00340 | 1 | Complies |
| 2462 | 1.96 | 11.12 | 12.942 | 0.00404 | 1 | Complies |
| 11G | | | | | | |
| 2412 | 1.96 | 16.32 | 42.855 | 0.01339 | 1 | Complies |
| 2442 | 1.96 | 15.2 | 33.113 | 0.01034 | 1 | Complies |
| 2462 | 1.96 | 13.12 | 20.512 | 0.00641 | 1 | Complies |
| 11N20 | | | | | | |
| 2412 | 1.96 | 12.49 | 17.742 | 0.00554 | 1 | Complies |
| 2442 | 1.96 | 11.11 | 12.912 | 0.00403 | 1 | Complies |
| 2462 | 1.96 | 12.02 | 15.922 | 0.00497 | 1 | Complies |
| 11N40 | | | | | | |
| 2422 | 1.96 | 10.87 | 12.218 | 0.00382 | 1 | Complies |
| 2442 | 1.96 | 9.89 | 9.750 | 0.00305 | 1 | Complies |
| 2452 | 1.96 | 9.94 | 9.863 | 0.00308 | 1 | Complies |

For BLE

| Frequency (MHz) | Antenna Gain (Numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|-----------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 2440 | 1.96 | -2.58 | 0.552 | 0.00017 | 1 | Complies |

The Bluetooth and Wi-Fi can be transmitted together, the result is $0.01339/1 + 0.00017/1 = 0.01456 < 1.0$

So SAR report is not required.

Note: Refer to report No. GZCR221000128402 for EUT test Max Conducted Peak Output Power value.



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6 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2210001284LM

- End of the Report -



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