

Report No.: GZEM210100019603

Page: 1 of 10 FCC ID: Z8M-SB140

### RF Exposure Evaluation Report

Application No.: GZEM2101000196CR

Applicant: Zhong Shan City Richsound Electronic Industrial Ltd.

Address of Applicant: No.16, East Shagang Road, Gangkou, Zhongshan, Guangdong, China.

Manufacturer:The same as applicantAddress of Manufacturer:The same as applicantFactory:The same as applicantAddress of Factory:The same as applicant

**Equipment Under Test (EUT):** 

FCC ID: Z8M-SB140

**EUT Name:** 2.1CH Soundbar with Wired Subwoofer

2.0CH Soundbar with Built-in Subwoofer

Model No.: CINEMA SB140, CINEMA SB240, CINEMA SB241, CINEMA SB340,

CINEMA SB341, CINEMA SB120 ¤

Please refer to section 2 of this report which indicates which model was actually

tested and which were electrically identical.

Trade Mark: JBL

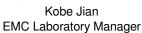
**Standard(s):** 47 CFR Part 1.1307, Part 1.1310

**Date of Receipt:** 2021-01-11

**Date of Test:** 2021-01-22 to 2021-02-05

**Date of Issue:** 2021-03-01

Test Result: Pass\*





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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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| Revision Record |         |            |          |          |  |  |  |
|-----------------|---------|------------|----------|----------|--|--|--|
| Version         | Chapter | Date       | Modifier | Remark   |  |  |  |
| 01              |         | 2021-03-01 |          | Original |  |  |  |
|                 |         |            |          |          |  |  |  |
|                 |         |            |          |          |  |  |  |
|                 |         |            |          |          |  |  |  |

| Authorized for issue by: |                            |  |
|--------------------------|----------------------------|--|
| Tested By                | Cury Wu                    |  |
|                          | Curry_Wu /Project Engineer |  |
| Reviewed By              | Ridge Liu                  |  |
|                          | Ricky_Liu /Reviewer        |  |



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### 2 Test Summary

| Radio Spectrum Tec | Radio Spectrum Technical Requirement |                    |                    |        |  |  |
|--------------------|--------------------------------------|--------------------|--------------------|--------|--|--|
| Item               | Standard                             | Method             | Requirement        | Result |  |  |
| RF Exposure        | 47 CFR Part 1.1307,<br>Part 1.1310   | CFR 47 Part 1.1310 | CFR 47 Part 1.1310 | Pass   |  |  |

#### **¤** Declaration of EUT Family Grouping:

Model No.: CINEMA SB140, CINEMA SB240, CINEMA SB241, CINEMA SB340, CINEMA SB341, CINEMA SB120

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 appearance size, model name and model CINEMA SB120 do not have external subwoofer.

Therefore, model CINEMA SB140 was tested in this report.



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#### **General Information**

#### Details of E.U.T. 4.1

Power Supply: AC 100-240V 50/60Hz 60W

DC 3V (1.5V X2 with size 'AAA' battery) for IR remote controller

Cable: about 1.5m x 2 wires unscreened AC mains cable

about 2m HDMI cable

Antenna Gain: 2dBi

Antenna Type: PCB antenna

Channel Spacing: 1MHz

GFSK, π/4DQPSK Modulation Type:

Number of Channels: 79

Operation Frequency: 2402MHz to 2480MHz

Spectrum Spread

Frequency Hopping Spread Spectrum(FHSS)

Technology:

FCC assist 1.5.exe Testing software:

Hardware version: 80V V038 Software version: Sample NO.: Α1

**Power Setting** 5 dBm can not be changed by user

#### 4.2 Description of Support Units

The EUT has been tested as an independent unit.

#### 4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech 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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#### 4.4 Test Facility

The test 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 C-Tick mark as a result of our NVLAP accreditation.

#### 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 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

#### ◆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, Jul 13, 2017.

#### ● Industry Canada (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-10449 and T-11179)

The 10m Semi-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-10449 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 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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### 5 Radio Spectrum Technical Requirement

#### 5.1 RF Exposure

#### 5.1.1 Test Requirement:

CFR 47 Part 1.1310

Limit:

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)

| Electric field<br>strength<br>(V/m)                     | Magnetic field<br>strength<br>(A/m)  | Power density<br>(mW/cm²)  | Averaging time (minutes)   |  |  |
|---|--|--|--|--|--|
| (A) Limits for Occupational/Controlled Exposure         |  |  |  |  |  |
| 614   | 1.63   | *100   | 6  |  |  |
| 1842/f  | 4.89/f   | *900/f <sup>2</sup>  | 6  |  |  |
| 61.4  | 0.163  | 1.0  | 6  |  |  |
|   |  | f/300  | 6  |  |  |
|   |  | 5  | 6  |  |  |
| (B) Limits for General Population/Uncontrolled Exposure |  |  |  |  |  |
| 614   | 1.63   | *100   | 30   |  |  |
| 824/f   | 2.19/f   | *180/f <sup>2</sup>  | 30   |  |  |
| 27.5  | 0.073  | 0.2  | 30   |  |  |
|   |  | f/1500   | 30   |  |  |
|   |  | 1.0  | 30   |  |  |
|   | strength<br>(V/m)  (A) Limits for Occ<br>614 1842/f 61.4  (B) Limits for General | strength<br>(V/m)         strength<br>(A/m)           (A) Limits for Occupational/Controlled           614         1.63           1842/f         4.89/f           61.4         0.163           (B) Limits for General Population/Uncon           614         1.63           824/f         2.19/f | strength (V/m)         strength (A/m)         Power density (mW/cm²)           (A) Limits for Occupational/Controlled Exposure           614         1.63         *100           1842/f         4.89/f         *900/f²           61.4         0.163         1.0           67/300         5           (B) Limits for General Population/Uncontrolled Exposure         *100           824/f         2.19/f         *180/f²           27.5         0.073         0.2           f/1500 |  |  |

f = frequency in MHz

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

 $S = power density (mW/cm^2)$ 

P = the net power delivered to the antenna (mW)

G = gain of the antenna in linear scale

d = distance between observation point and center of the radiator (cm)



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<sup>\* =</sup> Plane-wave equivalent power density



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#### 5.1.2 Conclusion

Antenna Gain: 2dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.585 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance: 20 cm

| Channel | Frequency | Max Conducted | Output Power            | Power Density         | Limit | Result |
|---------|-----------|---------------|-------------------------|-----------------------|-------|--------|
|         | (MHz)     | Peak Output   | to Antenna at R = 20 cm |                       |       |        |
|         |           | Power (dBm)   | (mW)                    | (mW/cm <sup>2</sup> ) |       |        |
| Middle  | 2441      | 4.94          | 3.119                   | 0.00098               | 1.0   | PASS   |

Note: Refer to report No. GZEM210100019602 for EUT test Max Conducted Peak Output Power value.

The distance R (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.



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#### **Photographs** 6

#### **EUT Constructional Details**

Please refer to Appendix A - Photographs of EUT Constructional Details for GZEM2101000196CR.

-- End of Report--



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No.198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86–20) 82155555 f (86–20) 82075058 www.sgsgroup.com.cn

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