

Report No.: GZEM210100019804

Page: 1 of 10 FCC ID: Z8M-SB170

RF Exposure Evaluation Report

Application No.: GZEM2101000198CR

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-SB170

EUT Name: 2.1CH Soundbar with Wireless Subwoofer

Model No.: CINEMA SB160, CINEMA SB260, MOVIEBAR 100, CINEMA SB261,

CINEMA SB265, CINEMA SB268, CINEMA SB360, CINEMA SB361,

CINEMA SB365, CINEMA SB368, CINEMA SB170 ¤

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

tested and which were electrically identical.

Trade Mark: JBL

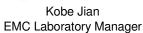
Standard(s): 47 CFR Part 1.1307, Part 1.1310

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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^{*} 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				
Item	Item Standard Method		Requirement	Result
RF Exposure	47 CFR Part 1.1307, Part 1.1310	CFR 47 Part 1.1310	CFR 47 Part 1.1310	Pass

¤ Declaration of EUT Family Grouping:

Model No.:

CINEMA SB160, CINEMA SB260, MOVIEBAR 100, CINEMA SB261, CINEMA SB265, CINEMA SB268, CINEMA SB360, CINEMA SB361, CINEMA SB365, CINEMA SB368, CINEMA SB170

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 CINEMA SB170 was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power Supply: AC 100-240V 50/60Hz for sound bar (BT TRx & 2.4G Tx)

AC 100-240V 50/60Hz for subwoofer (2.4G Rx only)

DC 3V (1.5V X 2 with size 'AAA' battery) for IR remote controller

Cable: about 1.5m 2 wires unscreened AC mains cable

about 2m HDMI cable

Function: Sound bar with BT function and communication with subwoofer by 2.4GHz

self-define

For Bluetooth

Antenna Gain: 2dBi

Antenna Type: PCB antenna

Channel Spacing: 1MHz

Modulation Type: GFSK, $\pi/4DQPSK$

Number of Channels: 79

Operation Frequency: 2402MHz to 2480MHz

For 2.4GHz self-define:

Antenna Gain: 0 dBi

Antenna Type: Integral antenna

Channel Spacing: 5MHz
Modulation Type: FSK
Number of Channels: 16

Operation Frequency: 2404.5MHz to 2479.5MHz

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 strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)		
(A) Limits for Occupational/Controlled Exposure					
614	1.63	*100	6		
1842/f	4.89/f	*900/f ²	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 ²	30		
27.5	0.073	0.2	30		
		f/1500	30		
		1.0	30		
	strength (V/m) (A) Limits for Occ 614 1842/f 61.4 (B) Limits for General	strength (V/m) strength (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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^{* =} Plane-wave equivalent power density



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5.1.2 Conclusion

Antenna Gain: 2dBi for BT,

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

BT:

Channel	Frequency (MHz)	Max Conducted Peak Output	Output Power to Antenna	Power Density at R = 20 cm	Limit	Result
		Power (dBm)	(mW)	(mW/cm²)		
Middle	2441	4.91	3.097	0.00098	1.0	PASS

Note: Refer to report No. GZEM210100019802 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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6 Photographs

6.1 EUT Constructional Details

Please refer to Appendix A - Photographs of EUT Constructional Details for GZEM2101000198CR.

-- End of Report--



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