

RF Exposure Report

For

Applicant Name: Shenzhen Adition Audio Science & Technology Co.,Ltd

Floor1-5, No.2 Building, Huidebao Industrial Park, No.11, Second

Address: Industrial Zone, Baihua Community, Guangming Sub-district,

Guangming District, Shenzhen, China

EUT Name: 2.1 CH 3D soundbar with subwoofer

Brand Name: Larksound Model Number: SA103S

Series Model Number: Refer to section 2

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,

Address: Tantou Community, Songgang Street, Bao'an District, Shenzhen,

China

Report Number: BTF-SZ230301R-009

Test Standards: 47 CFR Part 2 Subpart J Section 2.1091

FCC ID: ZRR-SA103S

Test Conclusion: Pass

Test Date: 2023-03-18 to 2023-03-26

Date of Issue: 2023-03-27

Prepared By:

Gavin Cui / Project Enginee

Gavin Cui

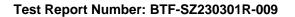
Date: 2023-03-27

Approved By:

Ryan.CJ / EMC Manager

Date: 2023-03-27

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.





Revision History				
Version	Issue Date	Revisions Content		
R_V0	2023-03-27	Original		
Note: Once the revision has been made, then previous versions reports are inval-				





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Test Report Number: BTF-SZ230301R-009

1. Introduction

1.1 Identification of Testing Laboratory

	Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.		
Address:		F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China	
Phone Number:		+86-0755-23146130	
Fax Number:		+86-0755-23146130	

1.2 Identification of the Responsible Testing Location

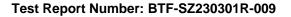
Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.		
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China		
Description:	All measurement facilities used to collect the measurement data are located at F101,201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China		
FCC Registration Number:	518915		
Designation Number:	CN1330		

1.3 Laboratory Condition

Ambient Temperature:	20℃ to 25℃
Ambient Relative Humidity:	45% to 55%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.





2. Product Information

2.1 Application Information

Company Name:	Shenzhen Adition Audio Science & Technology Co.,Ltd		
Address:	Floor1-5, No.2 Building, Huidebao Industrial Park, No.11, Second Industrial Zone, Baihua Community, Guangming Sub-district, Guangming District, Shenzhen, China		

2.2 Manufacturer Information

Company Name:	Shenzhen Adition Audio Science & Technology Co.,Ltd		
Address:	Floor1-5, No.2 Building, Huidebao Industrial Park, No.11,Second Industrial Zone, Baihua Community, Guangming Sub-district, Guangming District, Shenzhen, China		

2.3 Factory Information

Company Name:	Shenzhen Adition Audio Science & Technology Co.,Ltd
Address:	Floor1-5, No.2 Building, Huidebao Industrial Park, No.11,Second Industrial Zone, Baihua Community, Guangming Sub-district, Guangming District, Shenzhen, China

2.4 General Description of Equipment under Test (EUT)

EUT Name	2.1 CH 3D soundbar with subwoofer		
Under Test Model Name	SA103S		
Series Model Name	L210		
Description of Model name differentiation	Only the model name and appearance is different, others are the same		
Hardware Version	N/A		
Software and Firmware Version	N/A		



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3. Test Requirement

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 1.1307(b), Limits for Maximum Permissible Exposure (MPE),

Frequency range	Electric field	Magnetic field strength	Power density	Averaging time	
(MHz)	strength(V/m)	(A/m)	(mW/cm ²)	(minutes)	
	(A) Limits f	or Occupational/Controlled	l 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	- 1_3	-	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	

Note: f = frequency in MHz

EVALUATION METHOD

Transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm², Pout = output power to antenna in mW, G = gain of antenna in linear scale;

Pi = 3.1416, R = distance between observation point and center of the radiator in cm

3.1 Assessment Result

⊠ Passed	■ Not Applicable
△ rasseu	

Frequency (MHz)	Туре	Conducted Power (dBm)	Maximum Tune- up (dBm)	Power Density (mW/cm2)	Limit (mW/cm2)	Result
2402	BT-EDR	4.81	5	0.0010	1.0000	Pass
2402	BT-BLE	3.03	4	0.0008	1.0000	Pass

Note: The exposure evaluation safety distance is 20cm.







BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

www.btf-lab.com

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