



Report No.: PTC20082901503E-FC03

FCC TEST REPORT

FCC ID: 2AIZY20S-03

Product Name	:	5.1 Home Theatre Wireless Soundbar System
Model Name	:	Live3,Live3 PLUS
Brand Name	:	iDeaPLAY
Report No.	:	PTC20082901503E-FC03

Prepared for

IDEA ELECTRONICS INC

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : IDEA ELECTRONICS INC
Address : 13620 Benson Ave. Suite B, Chino, CA. 91710 United States
Manufacturer's name : Dongguan Aiue Electronic Technology Co., Ltd
Address : Room 103, No. 42, Yanhe East Street, Ailingkan Village, Dalingshan Town, Dongguan City, Guangdong Province, China
Product name : 5.1 Home Theatre Wireless Soundbar System
Model name : Live3, Live3 PLUS
Test procedure : KDB 447498 D01 General RF Exposure Guidance v06
Test Date : Sep.4, 2020 to Sep. 25, 2020
Date of Issue : Sep. 25, 2020
Test Result : Pass

This device described above has been tested by PTS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink that reads 'Leo Yang'.

Leo Yang / Engineer

Technical Manager:

A handwritten signature in black ink that reads 'Chris Du'.

Chris Du / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	5.1 Home Theatre Wireless Soundbar System
Model Name	:	Live3,Live3 PLUS Note: Different appearance colors, the others are the same
Bluetooth Version	:	BT 5.0 BDR+EDR
Operating frequency	:	2402-2480MHz
Numbers of Channel	:	79 channels
Antenna Type	:	PCB Antenna
Antenna Gain	:	0 dBi
Type of Modulation	:	GFSK, $\Pi/4$ -DQPSK,8DPSK For DSS
Power supply	:	Adapter model:N/A Input:100-240V 50/60HZ Output:24V/1.6A
Hardware Version	:	v1.0
Software Version	:	v003



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	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

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	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 ; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
BT	1.00	-1.780	0.66	0.0001	1	Pass

*****THE END REPORT*****