

RF Exposure

Applicant : La-Z-Boy Incorporated
Address : One La-Z-Boy Drive Monroe, MI 48162
Product Name : SUBWOOFER WITH AMPLIFIER
Brand Mark : La-Z-Boy
Model : AudioLuxe
FCC ID : 2BWEC-AUDIOLUXE
Report Number : BLA-EMC-202605-A23-04
Date of Receipt : May 21, 2026
Date of Test : May 21, 2026 to Sep. 30, 2026
47 CFR Part 15, Part1.1307
Test Standard : 47 CFR Part 15, Part2.1091
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

Compiled by: *Hugh*Review by: *Xavier*Approved by: *Blue Zheng*

Issued Date: Sep. 30, 2026

BlueAsia Technical Services(Shenzhen) Co., Ltd.

Address: No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China



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Revise Record

Version No.	Date	Description
01	Sep. 30, 2026	Original

1 General information

1.1 General information

Applicant	La-Z-Boy Incorporated
Address	One La-Z-Boy Drive Monroe, MI 48162
Manufacturer	La-Z-Boy Incorporated
Address	One La-Z-Boy Drive Monroe, MI 48162
Factory	Suga Electronics(Dongguan) Company Limited
Address	No 8, Fulong Road, Qingxi Town, Dongguan, Guangdong

1.2 General description of EUT

Product name	SUBWOOFER WITH AMPLIFIER
Model no.	AudioLuxe
Series model	N/A
Power supply or adapter information	AC100-240V, 87W
Hardware version	3.0
Software version	1.0

BT

Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK, π /4DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	PCB antenna
Antenna Gain:	1.78dBi(Provided by customer)

BLE

Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Rate data:	1Mbps; 2Mbps
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PCB antenna
Antenna Gain:	1.78dBi(Provided by customer)

2 Laboratory and accreditations

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

Company name:	BlueAsia Technical Services(Shenzhen) Co., Ltd.
Address:	No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
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3 RF Exposure Compliance Requirement

3.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

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.

3.2 Limits

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
	5	10	15	20	25	30	35	40	45	50	
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

3.3 Result

$$\text{EIRP} = \text{pt} \times \text{gt} = (\text{E} \times \text{d})^2 / 30$$

Where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m,

d = measurement distance in meters (m)

$$\text{Spot} = (\text{E} \times \text{d})^2 / 30 \times \text{gt}$$

Separation distance= 20cm

Ant gain = 1.78dBi

For BT(Worst):

Max Output power = -1.368dBm @ 2480MHz

$$\text{EIRP} = -1.368\text{dBm} + 1.78\text{dBi} = 0.412\text{ dBm} = 1.100\text{mW} < 3060\text{mW}$$

$$\text{ERP} = 0.412 - 2.15 = -1.738\text{dBm}$$

Comply with RF exposure exemption limit.

For BLE(Worst):

Max Output power = -1.632dBm @ 2402MHz

$$\text{EIRP} = -1.632\text{dBm} + 1.78\text{dBi} = 0.148\text{dBm} = 1.035\text{mW} < 3060\text{mW}$$

$$\text{ERP} = 0.148 - 2.15 = -2.002\text{dBm}$$

Comply with RF exposure exemption limit.

----END OF REPORT----

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