

FCC RF Exposure

Applicant : SOUNDLAB TECHNOLOGY CO.,LTD
Floor 6-7, 1-3, Building#2, No. 6-2, Shangxia Middle Road,
Address : Shangxia Area, Dongjiang Science Park, Zhongkai
High-tech Zone, Huizhou
Product Name : 5.1 Channel soundbar
Brand Mark : **CASA Suni**
Model : SL5000
Series model : N/A
FCC ID : 2ATKO-00SL5000
Report Number : BLA-EMC-202512-A11302
Date of Receipt : Dec. 31, 2025
Date of Test : Dec. 31, 2025 to Jan. 22, 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: Mark Chen

Review by: Xavier

Approved by:

Issued Date: Mar. 11, 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	Mar. 11, 2026	Original

BlueAsia

1 General information

1.1 General information

Applicant	SOUNDLAB TECHNOLOGY CO.,LTD
Address	Floor 6-7, 1-3, Building#2, No. 6-2, Shangxia Middle Road, Shangxia Area,Dongjiang Science Park,Zhongkai High-tech Zone, Huizhou
Manufacturer	SOUNDLAB TECHNOLOGY CO.,LTD
Address	Floor 6-7, 1-3, Building#2, No. 6-2, Shangxia Middle Road, Shangxia Area,Dongjiang Science Park,Zhongkai High-tech Zone, Huizhou
Factory	SOUNDLAB TECHNOLOGY CO.,LTD
Address	Floor 6-7, 1-3, Building#2, No. 6-2, Shangxia Middle Road, Shangxia Area,Dongjiang Science Park,Zhongkai High-tech Zone, Huizhou

1.2 General description of EUT

Product name	5.1 Channel soundbar	
Model no.	SL5000	
Operation Frequency	2402MHz-2480MHz	
Modulation Type	GFSK, $\pi/4$ DQPSK, 8DPSK	
Number of Channels	79	
Antenna Type	PCB Antenna	
Antenna Gain	1.51dBi (Provided by customer)	
Power supply	Adapter	MODEL NO.: CW72E2003000XC INPUT: 100-240V, 50/60Hz 1.8A MAX OUTPUT: 20.0V, 3.0A 60.0W
Test Voltage	AC 120V	
Hardware Version	N/A	
Software Version	N/A	

2 RF Exposure Compliance Requirement

2.1 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.

2.2 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

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

2.3 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 = 1.51dBi

For BT Classic(8DPSK):

Max Output power = **7.196dBm @ 2402MHz**

$$\text{EIRP} = 7.196\text{dBm} + 1.51\text{dBi} = 8.706\text{dBm},$$

$$\text{So, ERP} = 8.706\text{dBm} - 2.15 = 6.556\text{dBm} = 4.525\text{mW} < 3060 \text{ mW}$$

Comply with RF exposure exemption limit.

----END OF REPORT----

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