

RF Exposure

Applicant : PEAG, LLC dba Jlab Audio
Address : 5927 Landau Ct. Carlsbad CA, 92008, USA
Product Name : True Wireless Earbuds
Brand Mark : JLAB
Model : JBuds Open Sport 2
FCC ID : 2AHYV-OPSPRTV2
Report Number : BLA-EMC-202607-A55-04
Date of Receipt : July 16, 2026
Date of Test : July 16, 2026 to July 29, 2026
47 CFR Part 15, Part 1.1307
Test Standard : 47 CFR Part 15, Part 2.1093
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

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

Issued Date: July 29, 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	July 29, 2026	Original

1 General information

1.1 General information

Applicant	PEAG, LLC dba Jlab Audio
Address	5927 Landau Ct. Carlsbad CA, 92008, USA
Manufacturer	GuangDong Simpreal Intelligent Technology Co., Ltd
Address	Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13, DongCheng District, DongGuan City, GuangDong Province, P.R. China
Factory	GuangDong Simpreal Intelligent Technology Co., Ltd
Address	Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13, DongCheng District, DongGuan City, GuangDong Province, P.R. China

1.2 General description of EUT

Product name	True Wireless Earbuds
Model no.	JBuds Open Sport 2
Series model	N/A
Power supply	DC3.7V by battery
Hardware Version	V02
Software Version	V10

BT:

Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	Internal antenna
Antenna Gain:	Left: -3.2 dBi (Provided by customer) Right: -4.46 dBi (Provided by customer)

BLE

Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Rate data:	1Mbps; 2Mbps
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	Internal antenna
Antenna Gain:	Left: -3.2 dBi (Provided by customer) Right: -4.46 dBi (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, Shiyao 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
FAX:	+86-755-28682673

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 = 0.5cm

Ant gain = Left: -3.2 dBi, Right: -4.46 dBi

Left:

For BT(Worst):

Max Output power = 1.539dBm @ 2441MHz $\pi/4$ DQPSK=1.425mW < 2.752mW

EIRP = 1.539dBm -3.2dBi=-1.661dBm

ERP = -1.661-2.15= -3.811dBm

Comply with RF exposure exemption limit.

For BLE(Worst):

Max Output power = 3.999dBm @ 2442MHz BLE2M=2.511mW < 2.752mW

EIRP = 3.999dBm -3.2dBi=0.799dBm

ERP = 0.799-2.15= -1.351dBm

Comply with RF exposure exemption limit.

Right:

For BT(Worst):

Max Output power = 0.634dBm @ 2441MHz 8DPSK=1.157mW < 2.752mW

EIRP = 0.634dBm -4.46dBi=-3.826dBm

ERP = -3.826-2.15= -5.976dBm

Comply with RF exposure exemption limit.

For BLE(Worst):

Max Output power = 3.004dBm @ 2442MHz BLE2M=1.997mW < 2.752mW

EIRP = 3.004dBm -4.46dBi=-1.456dBm

ERP = -1.456-2.15= -3.606dBm

Comply with RF exposure exemption limit.

----END OF REPORT----

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BlueAsia Technical Services (Shenzhen) Co., Ltd

Tel: +86-755-23059481

Email: marketing@cblueasia.com www.cblueasia.com

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