

RF EXPOSURE REPORT

FOR

Applicant	:	PEAG, LLC dba JLab Audio
Address	:	5927 Landau Ct. Carlsbad, CA 92008, USA
Equipment under Test	:	TWS Earphone
Model No.	:	JBuds Mini
Trade Mark	:	JLAB
FCC ID	:	2AHYV-JBMINI
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

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,
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REPORT

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Test Report Declare

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Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration assessed the equipment complied with the standards specified above.

The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No:	DDT-RE23050825-2E05		
Date of Receipt:	May 16, 2023	Date of Test:	May 16, 2023 ~ Jun. 09, 2023

Prepared By:

Johnny Wang

Johnny Wang/Engineer

Approved By:



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Jun. 09, 2023	

1. General Information

1.1. Description of equipment

EUT Name	: TWS Earphone
Model Number	: JBuds Mini
EUT Function Description	: Please reference user manual of this device
Power Supply	Charging case: DC 5V by an external adapter or a 3.8V built-in lithium battery. Wireless headphones: DC 3.85V built-in lithium battery.
Radio Specification	: Bluetooth V5.3
Operation Frequency	: 2402 MHz - 2480 MHz
Modulation	: GFSK, $\pi/4$ -DQPSK
Data Rate	: 1 Mbps, 2 Mbps
Antenna	: Left side: 1.26 dBi Right side: 0.24 dBi
Sample Number	: S23050825-03 for conductive, S23050825-04 for radiation

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Manufacturing Tolerance

BT

Left side:

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-5.5	-5.5	-5.5
Tolerance \pm (dB)	1	1	1
$\pi/4$ DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-4.5	-4.5	-4.5
Tolerance \pm (dB)	1	1	1

Right side:

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-4	-3.5	-4
Tolerance \pm (dB)	1	1	1
$\pi/4$ DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-3.5	-2.5	-3.5
Tolerance \pm (dB)	1	1	1

BLE

Left side:

GFSK 1M (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	0	0	0
Tolerance \pm (dB)	1	1	1

GFSK 2M (Peak)			
Channel	Channel 0	Channel 39	Channel 78

Target (dBm)	0.5	0.5	0
Tolerance ±(dB)	1	1	1

Right side:

GFSK 1M (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	1.6	1.6	1
Tolerance ±(dB)	1	1	1

GFSK 2M (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	1.5	1.8	1
Tolerance ±(dB)	1	1	1

Estimtion Result

Worse case is as below: [2440 MHz, 2.8 dBm, (1.9055 mW) output power]

$(1.9055 / 5) \cdot [\sqrt{2.440(\text{GHz})}] = 0.5953 < 3.0$ for 1-g SAR

Then SAR evaluation is not required.

END OF REPORT