

FCC RF Exposure

Applicant : Shenzhen Zhengyun Technology Co., LTD
Room202, Floor2, Building A, Rongcheng International, 24
Address : Heping Road, Qinghua Community, Longhua District, Shenzhen, China
Product Name : Wireless Earphones
Brand Mark : Kinglucky
Model : X9
Series model : X8, X10, X20, X30
FCC ID : 2A5TA-X9
Report Number : BLA-EMC-202605-A98-02
Date of Receipt : May 28, 2026
Date of Test : May 28, 2026 to Jun. 04, 2026
47 CFR Part 15, Part1.1307
Test Standard : 47 CFR Part 15, Part2.1093
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

Compiled by: Mark Chen

Review by: Xavier

Approved by: 13 June Zheng
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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	Jun. 09, 2026	Original

1 General information

1.1 General information

Applicant	Shenzhen Zhengyun Technology Co., LTD
Address	Room202, Floor2, Building A, Rongcheng International, 24 Heping Road, Qinghua Community, Longhua District, Shenzhen, China
Manufacturer	Dongguan Quandingchen Intelligent Technology Co., Ltd.
Address	221 South Dongxing Avenue, Tangxia Town, Dongguan.

1.2 General description of EUT

Product name	Wireless Earphones
Model no.	X9
Series Model No.	X8, X10, X20, X30
Differences of Series model	Their electrical circuit design layout, components used and internal wiring are identical. Only the model name are different.
Operation Frequency	2402MHz-2480MHz
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK
Rate data	1Mbps, 2Mbps, 3Mbps
Channel Spacing	1MHz
Number of Channels	79
Antenna Type	Chip antenna
Antenna Gain	2.7dBi (Provided by customer)
Power supply	Battery DC 3.8V
Test Voltage	DC 3.8V
Hardware Version	N/A
Software Version	N/A

Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

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= 0.5cm

Antenna Gain: 2.7dBi

For BLE 2M(Worst) :

Max Output power = **0.502dBm @ 2402MHz**

$$\text{EIRP} = 0.502\text{dBm} + 2.7\text{dBi} = 3.202\text{dBm}$$

$$\text{So, ERP} = 3.202 - 2.15 = 1.052\text{dBm} = 1.274\text{mW} < 2.788\text{mW}$$

it's deemed to fulfil the RF exposure requirement.

----END OF REPORT----

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