

RF Exposure

Applicant : Dongguan Desheng Industrial Co., Ltd
Address : Area A5, Shichong Industrial Park, Shipai Town,
Dongguan City ,China
Product Name : Wireless Headphone
Brand Mark : N/A
Model : T7
Series model : HG10
FCC ID : 2AXCY-T7
Report Number : BLA-EMC-202607-A15-04
Date of Receipt : July. 3, 2026
Date of Test : July. 3, 2026 to Sep. 8, 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: *Hugh*Review by: *Xavier*Approved by: *Blue Zheng*
Issued Date: Sep. 8, 2026**BlueAsia Technical Services (Shenzhen) Co., Ltd**Address: No.41, South of Beihuan Road, Shangwu Community, Shiyan
Subdistrict, Bao'an District, Shenzhen, Guangdong, China

The test report is effective only with both signature and specialized stamp and The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full. The results described in this report do not represent the quality or characteristics of the sampled batch, nor do they represent any similar or identical products that are not explicitly stated.

Table of Contents

1	General information	4
1.1	General information	4
1.2	General description of EUT	4
2	Laboratory and accreditations	6
3	RF Exposure Compliance Requirement	7
3.1	Standard Requirement	7
3.2	Limits	7
3.3	Result	8

Revise Record

Version No.	Date	Description
01	Aug. 10, 2026	Original

1 General information

1.1 General information

Applicant	Dongguan Desheng Industrial Co., Ltd
Address	Area A5, Shichong Industrial Park, Shipai Town, Dongguan City ,China
Manufacturer	Dongguan Desheng Industrial Co., Ltd
Address	Area A5, Shichong Industrial Park, Shipai Town, Dongguan City ,China
Factory	Dongguan Desheng Industrial Co., Ltd
Address	Area A5, Shichong Industrial Park, Shipai Town, Dongguan City ,China

1.2 General description of EUT

Product name	Wireless Headphone
Model no.	T7
Series model	HG10
Desc of Series model	The above models have the same Circuit diagram, PCB layout and all electrical construction . The difference lies only model name and color.
Power supply	DC3.7V by battery
Hardware Version	N/A
Software Version	N/A

BT

Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	FPC antenna
Antenna Gain:	1.02dBi (Provided by customer)

BLE

Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Rate data:	1Mbps; 2Mbps
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	FPC antenna
Antenna Gain:	1.02dBi (Provided by customer)

2.4G

Operation Frequency:	2402MHz-2480MHz
Channel numbers:	40
Modulation Type:	GFSK
Rate data:	1Mbps; 2Mbps
Antenna Type:	FPC antenna
Antenna Gain:	1.86dBi (Provided by customer)
Max. Field Strength:	90.00 dBμV/m @3m

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
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 = 1.02dBi

For BT(Worst):

Max Output power = 0.123dBm @ 2441MHz 8DPSK

$$\text{EIRP} = 0.123\text{dBm} + 1.02\text{dBi} = 1.143\text{dBm} = 1.301\text{mW} < 2.752\text{mW}$$

$$\text{ERP} = 1.143 - 2.15 = -1.007\text{dBm}$$

Comply with RF exposure exemption limit.

For BLE(Worst):

Max Output power = 0.408dBm @ 2441MHz BLE 1M

$$\text{EIRP} = 0.408\text{dBm} + 1.02\text{dBi} = 1.428\text{dBm} = 1.389\text{mW} < 2.751\text{mW}$$

$$\text{ERP} = 1.428 - 2.15 = -0.722\text{dBm}$$

Comply with RF exposure exemption limit.

For 2.4G(Worst):

Ant gain = 1.86 dBi [-0.28 dBd (0.938)] Field strength = 90.00 dBμV/m @3m @2402MHz GFSK 1M

$$\text{EIRP} = (((10^{(90.00/20)}) / 10^6) \times 3)^2 / 30 \times 1000 = 0.305 \text{ mW}$$

$$\text{Pt} = \text{EIRP} / 10^{(1.86/10)} = 0.305 / 1.538 = 0.198 \text{ mW}$$

$$\text{ERP} = \text{Pt} \times 10^{(-0.28/10)} = 0.198 \times 0.938 = 0.186 \text{ mW (or ERP} = \text{EIRP} / 10^{(2.15/10)} = 0.305 / 1.64 = 0.186 \text{ mW)}$$

Per §1.1307(b)(3)(i)(B), the available maximum time-averaged power or ERP, whichever is greater:

$$\max(\text{Pt}, \text{ERP}) = \max(0.198, 0.186) = 0.198 \text{ mW} < 2.788 \text{ mW}$$

Comply with RF exposure exemption limit.

BT+2.4G:

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} = 1.301/2.752 + 0.198/2.788 = 0.544 < 1$$

BLE+2.4G:

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} = 1.389/2.751 + 0.198/2.788 = 0.576 < 1$$

BT+2.4G

$$\sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} = -1.007/2.752 + 0.186/2.788 = -0.299 < 1$$

BLE+2.4G

$$\sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} = -0.722/2.751 + 0.186/2.788 = -0.196 < 1$$

----END OF REPORT----

The test report is effective only with both signature and specialized stamp, the result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.