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检测
TESTING
CNAS L5785

TEST REPORT

Report No. : CQASZ20260801896E-02
Applicant: DongGuan Kemi Electronics Technology Co., Ltd
Address of Applicant: Room 201, Floor 2, Building 4, Taixing Science Park, No.3, Taixing Road, Shigu,
Tangxia Town, Dongguan city, China
Equipment Under Test (EUT):
EUT Name: Bone Conduction Headphones
Model No.: X700, X7 Ultra
Test Model No.: X700
Brand Name: N/A
FCC ID: 2AXV7-X700
Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2026-08-31
Date of Test: 2026-09-01 to 2026-09-08
Date of Issue: 2026-10-08
Test Result : **PASS**

Tested By: Azir Wang
(Azir Wang)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)



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 CQA, this report can't be reproduced except in full.

1. Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20260801896E-02	Rev.01	Initial report	2026-10-08

Note:

Model No.:X700, X7 Ultra

Their electrical circuit design, layout, components used and internal wiring are identical, Only the color is different.

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3. General Information

4. Client Information

Applicant:	DongGuan Kemi Electronics Technology Co., Ltd
Address of Applicant:	Room 201, Floor 2, Building 4, Taixing Science Park, No.3, Taixing Road, Shigu, Tangxia Town, Dongguan city, China
Manufacturer:	DongGuan Kemi Electronics Technology Co., Ltd
Address of Manufacturer:	Room 201, Floor 2, Building 4, Taixing Science Park, No.3, Taixing Road, Shigu, Tangxia Town, Dongguan city, China
Factory:	DongGuan Kemi Electronics Technology Co., Ltd
Address of Factory:	Room 201, Floor 2, Building 4, Taixing Science Park, No.3, Taixing Road, Shigu, Tangxia Town, Dongguan city, China

5. General Description of EUT

Product Name:	Bone Conduction Headphones
Model No.:	X700, X7 Ultra
Test Model No.:	X700
Trade Mark:	N/A
Software Version:	V01
Hardware Version:	V04
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK
Transfer Rate:	1Mbps/2Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	Chip antenna
Antenna Gain:	2.5dBi
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Power Supply:	Headphones : 3.85V 220mAh 0.847Wh, Charge by DC 5V for adapter

RF Exposure Evaluation

RF Exposure Compliance Requirement

Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. 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.

Limits

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:

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

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

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

EUT RF Exposure

1) For BT

Measurement Data

Worst case: $\pi/4$ DQPSK				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.92	-0.5 $\pm$ 1	0.5	1.12
Middle(2441MHz)	-1.52	-1.5 $\pm$ 1	-0.5	0.89
Highest(2480MHz)	-2.78	-2.5 $\pm$ 1	-1.5	0.71

Worst case: $\pi/4$ DQPSK			
Channel	Maximum tuneup Power (mW)	Calculated value	Exclusion threshold
Lowest (2402MHz)	1.12	0.35	3.0
Middle (2441MHz)	0.89	0.28	
Highest (2480MHz)	0.71	0.22	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.			

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20260801896E-01