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中国认可 国际互认 检测 TESTING CNAS L5785

RF Exposure Evaluation Report

Report No.: CQASZ20250200369E-02

Applicant: Joint Chinese Ltd

Address of Applicant:

Building 6, Huafeng Tech Park, Luotian Industrial Area, Songgang Town,

Baoan, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: Smart Health Ring

Test Model No.: X6A-06, X6A-07, X6A-08, X6A-09, X6A-10, X6A-11, X6A-12, X6A-13, X6A-14, X6B-06,

X6B-07, X6B-08, X6B-09, X6B-10, X6B-11, X6B-12, X6B-13, X6B-14, X6C-06, X6C-07, X6C-08, X6C-09, X6C-10, X6C-11, X6C-12, X6C-13, X6C-14, X6D-06, X6D-07, X6D-07, X6D-08, X6C-14, X6D-06, X6D-07, X6D-08, X6C-14, X6D-06, X6D-07, X6D-08, X6C-08, X6C-08

08, X6D-09, X6D-10, X6D-11, X6D-12, X6D-13, X6D-14

Model No.: X6A-14

Brand Name: N/A

FCC ID: 2AB73-X6

Standards: 47 CFR Part 1.1307, 47 CFR Part 2.1093

447498 D04 Interim General RF Exposure Guidance v01

Date of Receipt: 2025-02-26

Date of Test: 2025-02-26 to 2025-03-28

Date of Issue: 2025-04-11
Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above

Tested By:

(Lewis Zhou)

Reviewed By:

(Timo Lei)

Approved By:

(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.



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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date	
CQASZ20250200369E-02	Rev.01	Initial report	2025-04-11	



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3 General Information

3.1 Client Information

Applicant:	Joint Chinese Ltd			
Address of Applicant:	Building 6, Huafeng Tech Park, Luotian Industrial Area, Songgang Town, Baoan,Shenzhen,China			
Manufacturer:	Joint Chinese Ltd			
Address of Manufacturer:	Building 6, Huafeng Tech Park, Luotian Industrial Area, Songgang Town, Baoan,Shenzhen,China			
Factory:	Joint Chinese Ltd			
Address of Factory:	Building 6, Huafeng Tech Park, Luotian Industrial Area, Songgang Town, Baoan,Shenzhen,China			

3.2 General Description of EUT

Product Name:	Smart Health Ring					
Model No.:	X6A-06, X6A-07, X6A-08, X6A-09, X6A-10, X6A-11, X6A-12, X6A-13,					
	X6A-14, X6B-06, X6B-07, X6B-08, X6B-09, X6B-10, X6B-11, X6B-12,					
	X6B-13, X6B-14, X6C-06, X6C-07, X6C-08, X6C-09, X6C-10, X6C-11,					
	X6C-12, X6C-13, X6C-14, X6D-06, X6D-07, X6D-08, X6D-09, X6D-10,					
	X6D-11, X6D-12, X6D-13, X6D-14					
Test Model No	X6A-14					
Trade Mark:	N/A					
EUT Supports Radios application:	Bluetooth mode 2402-2480MHz					
Software Version:	X6A-V069					
Hardware Version:	X6-V2.0					
Sample Type:	☐ Mobile ☑ Portable					
EUT Power Supply:	Li-ion battery: DC 3.7V 16.5mAh, Charge by DC 5V for Charge box					
	Li-ion battery: DC 3.92V 16mAh, Charge by DC 5V for Charge box					

3.3 General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.3
Modulation Technique:	Non Frequency Hopping Spread Spectrum(NFHSS)
Modulation Type:	GFSK
Number of Channel:	BLE:40
Transfer Rate:	BLE:1Mbps
Test Software of EUT:	nRFgo Studio
Antenna Type:	Chip antenna
Antenna Gain:	0.9dBi



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4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

447498 D04 Interim General RF Exposure Guidance v01

3.2. SAR Test Reduction Guidance

SAR test reduction procedures [Glossary] allow using a particular set of test data as representative of other, similar, test conditions. This may be applied for data within different test positions (e.g. body, head, extremity), wireless modes (e.g. Wi-Fi, cellular), and frequency bands. This test reduction process provides for the use of test data for one specific channel, while referencing to those data for demonstrating compliance in other required channels for each test position of an exposure condition, within the operating mode of a frequency band. This is limited specifically to when the reported 1-g or 10-g SAR for the mid-band or highest output power channel meets any of the following conditions.

4.1.2 Limits

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of $\lambda/4$.

As for devices with antennas of length greater than λ /4 where the gain is not well defined, but always less than that of a half-wave dipole (length λ /2), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula (B.2).



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$$P_{\text{th}} (\text{mW}) = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(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_{20cm} is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
(Z	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
Frequency	1900	3	12	26	44	66	92	122	157	195	236
nba	2450	3	10	22	38	59	83	111	143	179	219
Fr	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169



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4.1.3 EUT RF Exposure

Measurement Data

Channel	Conducted Peak Output Power (dBm)	EIRP (dBm)	ERP (dBm)	Maximum tune-up Power (mW)	Exclusion threshold (mW)
Lowest (2402MHz)	-2.15	-1.25	-3.40	0.46	3
Middle (2440MHz)	-1.74	-0.84	-2.99	0.50	3
Highest (2480MHz)	-2.55	-1.65	-3.80	0.42	3

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20250200369E-01.

*** END OF REPORT ***