Shenzhen Huaxia Testing Technology Co., Ltd

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640
Fax: +86-755-26648637
Website: www.cqa-cert.com

Report Template Version: V05
Report Template Revision Date: 2021-11-03

RF Exposure Evaluation Report

Report No.:	CQASZ20250300635E-03
Applicant:	Shenzhen Leiwei Guoji Keji Co.,Ltd.
Address of Applicant:	Rm1012, Plaza Building, No.74 Baomin Road, Bao'an District, Shenzhen China
Equipment Under Test (EUT):	
EUT Name:	Smart Sport Watch
Model No.:	L7, L7A, ST50, L8, L9
Test Model No.:	L7
Brand Name:	N/A
FCC ID:	2AW57-L7
Standards:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498 D04 Interim General RF Exposure Guidance v01
Date of Receipt:	2025-03-24
Date of Test:	2025-03-24 to 2025-04-01
Date of Issue:	2025-4-30
Test Result:	**PASS***

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

Tested By: lewis zhou
(Lewis Zhou)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250300635E-03	Rev.01	Initial report	2025-4-30

2 Contents

3 General Information

3.1 Client Information

Applicant:	Shenzhen Leiwei Guoji Keji Co.,Ltd.
Address of Applicant:	Rm1012, Plaza Building, No.74 Baomin Road, Bao'an District, Shenzhen China
Manufacturer:	Shenzhen Leiwei Guoji Keji Co.,Ltd.
Address of Manufacturer:	Rm1012, Plaza Building, No.74 Baomin Road, Bao'an District, Shenzhen China
Factory:	Shenzhen Leiwei Guoji Keji Co.,Ltd.
Address of Factory:	Rm1012, Plaza Building, No.74 Baomin Road, Bao'an District, Shenzhen China

3.2 General Description of EUT

Product Name:	Smart Sport Watch
Model No.:	L7, L7A, ST50, L8, L9
Test Model No.:	L7
Trade Mark:	N/A
Software Version:	AT328NJV002054_20250225
Hardware Version:	AT328-V02
Power Supply:	Li-ion battery DC 3.8V 380mAh, Charge by DC 5V for adapter
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report. ☒ Simultaneous TX is not supported.

3.3 General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Transfer Rate:	1Mbps/2Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☒ Portable
Antenna Type:	Metal mid-frame antenna
Antenna Gain:	-2.17dBi

3.4 General Description of BT

Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Product Type:	☐ Mobile ☒ Portable
Antenna Type:	Metal mid-frame antenna
Antenna Gain:	-2.17dBi

4 RF Exposure Evaluation

4.1 SAR Evaluation for Portable condition

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 timeaveraged 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 $\lambda/4$ where the gain is not well defined, but always less than that of a half-wave dipole (length $\lambda/2$), 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).

$$P_{\text{th}}\,(\text{mW}) = \begin{cases} ERP_{20\,\text{cm}}(d/20\ \text{cm})^{x} & d \le 20\ \text{cm} \\ ERP_{20\,\text{cm}} & 20\ \text{cm} < d \le 40\ \text{cm} \end{cases} \quad \text{(B.2)}$$

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). The 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

4.1.3 SAR Exclusion Evaluation Result

1) For BLE

Measurement Data

Channel	Conducted Peak Output Power (dBm)	Conducted Peak Output Power (mW)	Exclusion threshold (mW)
Lowest (2402MHz)	3.15	2.07	3
Middle (2440MHz)	2.56	1.80	3
Highest (2480MHz)	2.47	1.77	3

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20250300635E-01

2) **For BT**

Measurement Data

Channel	Conducted Peak Output Power (dBm)	Conducted Peak Output Power (mW)	Exclusion threshold (mW)
Lowest (2402MHz)	3.05	2.02	3
Middle (2441MHz)	2.55	1.80	3
Highest (2480MHz)	2.59	1.82	3

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20250300635E-02

*** END OF REPORT ***