

SZ ZUVI TECHNOLOGY CO., LTD.

SAR COMPLIANCE REPORT

Report Type:
FCC SAR assessment report

Model:
HS200

REPORT NUMBER:
2311A1300SHA-004

ISSUE DATE:
December 7, 2023

DOCUMENT CONTROL NUMBER:
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Applicant: SZ ZUVI TECHNOLOGY CO., LTD.
Room 613, HKUST SZ IER Building, Yuexing 1st Road, Nanshan
District, Shenzhen, Guangdong, China 518057

Manufacturer: SZ ZUVI TECHNOLOGY CO., LTD.
Room 613, HKUST SZ IER Building, Yuexing 1st Road, Nanshan
District, Shenzhen, Guangdong, China 518057

Factory SZ ZUVI FUYONG INTELLIGENT MANUFACTURING TECHNOLOGY
CO., LTD.
Room 301, Building A, Kebixin Industrial Park, No. 47 Fuyuan 1st
Road, Bao'an District, Shenzhen, Guangdong Province, China
518103

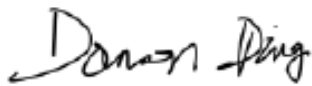
FCC ID: 2BCUI-HS200

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

447498 D04 Interim General RF Exposure Guidance v01
FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:



Project Engineer
Damon Ding

REVIEWED BY:



Reviewer
Eric Li

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Revision History

Report No.	Version	Description	Issued Date
2311A1300SHA-004	Rev. 01	Initial issue of report	December 7, 2023

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	AirLight Pro
Model:	HS200
Description of EUT:	EUT is an AirLight Pro . EUT supports RF ID and Bluetooth function.
Rating:	120Vac/60Hz, 1800W
Category of EUT:	Class B
EUT type:	☒ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	2023.11.14
Date of test:	2023.11.14-2023.12.7

1.2 Technical Specification

Frequency Band:	2402MHz to 2480MHz
Support Standards:	Bluetooth Low Energy
Type of Modulation:	GFSK
Channel Number:	40
Date Rate	1Mbps
Channel Separation:	2MHz
Antenna Information:	2.39dBi, PCB antenna

Frequency Range:	121kHz~128kHz
Modulation:	/
Antenna:	Coil antenna

1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Member No.: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)
	A2LA Accreditation Lab Certificate Number: 3309.02

2 SAR Assessment

Test result: Pass

2.1 SAR Test Exclusion Limit

This method shall only be used at separation distances up to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula below:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula above.

The example values shown in below are for illustration only.

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

2.2 Assessment Results

As we can see from the test report 2311A1300SHA-001:

The highest EIRP adjusted with tune-up tolerance is: 3.81dBm=2.404mW

2.404mW < 3mW (Test Exclusion Thresholds of 2450MHz at 5mm). Therefore, the SAR requirement is deemed to be satisfied without test.

***** END *****