



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

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RF Exposure Evaluation Report

Report No.: CQASZ20211202298E-01
Applicant: Shenzhen Shengtai smart Innovation Technology Co. LTD
Address of Applicant: South of 6th Floor, No. 6, Lianjian Technology Industrial Park, Huarong Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen city.
Equipment Under Test (EUT):
EUT Name: SMART EAR STICK
Test Model No.: WS1, WS2, WS3, WS5, WS6, WS7, WS8, WS9, WS10, WS1 Pro, WS2 Pro, WS3 Pro, WS5 Pro, AS1, AS2, AS3, AS5, AS6, AS7, AS8, AS9, AS10, VS1, VS2, VS3, VS5, VS6, VS7, VS8, VS9, VS10, HS1, HS2, HS3, HS5, HS6, HS7, HS8, MS1, MS2, MS3, MS5, MS6, MS7, MS8, T1-1, T1.2, T2-K T2-2, T3-1, T3-2, T6-2, T8-2, T9-2, A1, A2, A3, A5, A6, V1, V2, V3, V5, V6, W1, W2, W3, W5, W6, H1, H2, H3, H5, H6, M1, M2, M3, M5, M6
Model No.: WS1
Brand Name: YANDOCTOR
FCC ID: 2AZ4D-WS1-BK
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2021-12-31
Date of Test: 2021-12-31 to 2022-02-24
Date of Issue: 2022-03-21
Test Result: **PASS***

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

Tested By:

Lewis Zhou

(Lewis Zhou)

Reviewed By:

Rock Huang

(Rock Huang)

Approved By:

Jack Ai

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20211202298E-02	Rev.01	Initial report	2022-03-21

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3 General Information

3.1 Client Information

Applicant:	Shenzhen Shengtai smart Innovation Technology Co. LTD
Address of Applicant:	South of 6th Floor, No. 6, Lianjian Technology Industrial Park, Huarong Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen city.
Manufacturer:	Shenzhen Shine Tech Intel Co. , LTD
Address of Manufacturer:	New District of Longhua, Dalang Street, Shenzhen Lianjian Industrial Park 6 6th Floor
Factory:	Shenzhen Shine Tech Intel Co. , LTD
Address of Factory:	New District of Longhua, Dalang Street, Shenzhen Lianjian Industrial Park 6 6th Floor

3.2 General Description of EUT

Product Name:	SMART EAR STICK
Model No.:	WS1, WS2, WS3, WS5, WS6, WS7, WS8, WS9, WS10, WS1 Pro, WS2 Pro, WS3 Pro, WS5 Pro, AS1, AS2, AS3, AS5, AS6, AS7, AS8, AS9, AS10, VS1, VS2, VS3, VS5, VS6, VS7, VS8, VS9, VS10, HS1, HS2, HS3, HS5, HS6, HS7, HS8, MS1, MS2, MS3, MS5, MS6, MS7, MS8, T1-1, T1.2, T2-K T2-2, T3-1, T3-2, T6-2, T8-2, T9-2, A1, A2, A3, A5, A6, V1, V2, V3, V5, V6, W1, W2, W3, W5, W6, H1, H2, H3, H5, H6, M1, M2, M3, M5, M6
Test Model No	WS1
Trade Mark:	YANDOCTOR
EUT Supports Radios application:	2.4GHz: Wi-Fi: 802.11b/g/n(HT20): 2412MHz~2462MHz
Software Version:	1.1.9
Hardware Version:	V1
Sample Type:	☐ Mobile ☒ Portable ☐ Fix Location
EUT Power Supply:	Li-ion battery: DC 3.7V 270mAh, Charge by DC 5V for adapter

3.3 General Description of 2.4G WIFI Classic

Operation Frequency:	2412MHz~2462MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels
Channel Separation:	5MHz
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps

Test Software of EUT:	Wifi Test Tool v1.4.0
Antenna Type:	FPC antenna
Antenna Gain:	-1.93dBi

Note:

Model No.: WS1, WS2, WS3, WS5, WS6, WS7, WS8, WS9, WS10, WS1 Pro, WS2 Pro, WS3 Pro, WS5 Pro, AS1, AS2, AS3, AS5, AS6, AS7, AS8, AS9, AS10, VS1, VS2, VS3, VS5, VS6, VS7, VS8, VS9, VS10, HS1, HS2, HS3, HS5, HS6, HS7, HS8, MS1, MS2, MS3, MS5, MS6, MS7, MS8, T1-1, T1.2, T2-K T2-2, T3-1, T3-2, T6-2, T8-2, T9-2, A1, A2, A3, A5, A6, V1, V2, V3, V5, V6, W1, W2, W3, W5, W6, H1, H2, H3, H5, H6, M1, M2, M3, M5, M6

Only the model WS1 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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.

4.1.2 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:

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

$f(\text{GHz})$ 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

4.1.3 EUT RF Exposure

Measurement Data

Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2412MHz)	7.09	7.0±1	8	6.310	1.956	3.0
Middle (2442MHz)	7.30	7.0±1	8	6.310	1.972	
Highest (2462MHz)	5.64	5.5±1	6.5	4.467	1.407	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20211202298E-01.

*** END OF REPORT ***