

TEST REPORT

Applicant: Shenzhen Magnet Technology Co.,Ltd
EUT Description: Bone conduction hearing aid
Model Tested: XTS-AISW-D1
Model Covered: XTS-AISW-D2, XTS-AISW-D3
FCC ID: 2BURDXTSA03
Standards: FCC 47 CFR Part 1.1307
FCC 47 CFR Part 2.1093
Date of Receipt: 2025/09/19
Date of Issue: 2025/10/28

TOWE. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

the results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. without written approval of TOWE, the test report shall not be reproduced except in full.



Jim Huang
Approved By:



Carey Chen
Reviewed By:

Revision History

Rev.	Issue Date	Description	Revised by
01	2025/10/28	Original	Carey Chen

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1 General Description

1.1 Lab Information

1.1.1 Testing Location

These measurements tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, China. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014
Tel.: +86-755-27212361
Contact Email: info@towewireless.com

1.1.2 Test Facility / Accreditations

A2LA (Certificate Number: 7088.01)

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

FCC Designation No.: CN1353

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory. Designation Number: CN1353.

ISED CAB identifier: CN0152

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0152

Company Number: 31000

1.2 Client Information

1.2.1 Applicant

Applicant:	Shenzhen Magnet Technology Co.,Ltd
Address:	No.901,Building 9 of Zhongyuntai Industrial Park,Songbai Rd,Tangtou community,Shiyan St,Bao'an Dist,Shenzhen,China

1.2.2 Manufacturer

Manufacturer:	Shenzhen Magnet Technology Co.,Ltd
Address:	No.901,Building 9 of Zhongyuntai Industrial Park,Songbai Rd,Tangtou community,Shiyan St,Bao'an Dist,Shenzhen,China

1.3 Product Information

EUT Description:	Bone conduction hearing aid		
Model Tested:	XTS-AISW-D1		
Model Covered:	XTS-AISW-D2, XTS-AISW-D3		
Hardware Version:	V0.22		
Software Version:	V1.00		
Frequency Bands:	Band	TX Frequency	RX Frequency
	Bluetooth	2402~2480 MHz	2402~2480 MHz
Antenna Type:	☐ External, ☒ Integrated		
Antenna Gain:	Band	Ant (dBi)	
	Bluetooth	3	
Remark: The above EUT's information was declared by applicant, please refer to the specifications or user's manual for more detailed description. Model: Refer to “Declaration on Model Difference”.			

2 RF Exposure Compliance Requirement

2.1 Limit

According to 447498 D01 General RF Exposure Guidance v06 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

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.

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:

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

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- 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

3 RF Exposure Results

Mode & Frequency	Peak Output Power (dBm)	Tune up Tolerance dBm	Maximum tune-up Power		Calculated Value	Exclusion Threshold	SAR Test Exclusion
			dBm	mW			
DH5-2402	-0.565	0±1	1	1.26	0.43	3.0	Yes
2DH5-2402	0.793	0±1	1	1.26	0.43	3.0	Yes
3DH5-2402	0.777	0±1	1	1.26	0.43	3.0	Yes
BLE_1M-2402	-0.105	0±1	1	1.26	0.43	3.0	Yes
BLE_2M-2402	-0.084	0±1	1	1.26	0.43	3.0	Yes

Conclusion:

The device is exempt from the SAR test and satisfies RF exposure evaluation.

~The End~