

RF Exposure Evaluation Report

Report Reference No...... : **MTEB24100128-H**

FCC ID..... : **2A9MI-D3**

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Date of issue..... : **Oct.16, 2024**

Representative Laboratory Name. : **Shenzhen Most Technology Service Co., Ltd.**

Address..... : No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,
Nanshan, Shenzhen, Guangdong, China.

Applicant's name..... : **Shenzhen Yixi Technology Co., LTD**

Address..... : Second Floor, Building B, Area A, Longquan Science Park, Dalang
Huaxing Road, Longhua District, Shenzhen City,China

Test specification/ Standard..... : **47 CFR Part 1.1307**

47 CFR Part 2.1093

TRF Originator..... : Shenzhen Most Technology Service Co., Ltd.

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Test item description..... : **HELMET WIRELESS EARPHONE**

Trade Mark..... : N/A

Model/Type reference..... : D3

Listed Models : N/A

Modulation Type..... : GFSK, $\pi/4$ DQPSK, 8DPSK

Operation Frequency..... : From 2402MHz to 2480MHz

Hardware Version..... : V1.1

Software Version..... : V1.3

Rating..... : DC 3.7V by Battery
DC 5V by USB Port

Result..... : **PASS**

TEST REPORT

Equipment under Test : HELMET WIRELESS EARPHONE

Model /Type : D3

Listed Models : N/A

Remark : N/A

Applicant : Shenzhen Yixi Technology Co., LTD

Address : Second Floor, Building B, Area A, Longquan Science Park, Dalang
Huaxing Road, Longhua District, Shenzhen City, China

Manufacturer : Shenzhen Yixi Technology Co., LTD

Address : Second Floor, Building B, Area A, Longquan Science Park, Dalang
Huaxing Road, Longhua District, Shenzhen City, China

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2024.10.16	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 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.

2.1.2 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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \left[\sqrt{f(\text{GHz})} \right]$$

 ≤ 3.0 for 1-g SAR and ≤ 7.5 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

2.1.3 EUT RF Exposure

Measurement Data

BT classic

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	1.623	1.623 ± 1	2.623
Middle(2441MHz)	1.065	1.065 ± 1	2.065
Highest(2480MHz)	0.163	0.163 ± 1	1.163

π /4DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	2.498	2.498 ± 1	3.498
Middle(2441MHz)	1.908	1.908 ± 1	2.908
Highest(2480MHz)	1.058	1.058 ± 1	2.058

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	2.922	2.922 ± 1	3.922
Middle(2441MHz)	2.307	2.307 ± 1	3.307
Highest(2480MHz)	1.488	1.488 ± 1	2.488

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Lowest(2402MHz)	2.922	3.922	2.47	0.76	3.0	Yes

.....**THE END OF REPORT**.....