

#### Shenzhen Most Technology Service Co., Ltd.

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

# **RF Exposure Evaluation Report**

Report Reference No...... MTEB24120014-H

FCC ID.....: 2A9MI-N3X

Compiled by

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Date of issue...... Dec. 03, 2024

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

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

Modulation Type...... GFSK, π/4DQPSK, 8DPSK Operation Frequency...... From 2402MHz to 2480MHz

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

Result..... PASS

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## TEST REPORT

**Equipment under Test** HELMET WIRELESS EARPHONE

Model /Type N3X

Listed Models N/A

Remark N/A

Applicant Shenzhen Yixi Technology Co., LTD

Second Floor, Building B, Area A, Longquan Science Park, Dalang Address

Huaxing Road, Longhua District, Shenzhen City, China

Manufacturer Shenzhen Yixi Technology Co., LTD

Second Floor, Building B, Area A, Longquan Science Park, Dalang Address

Huaxing Road, Longhua District, Shenzhen City, China

Test Result:	PASS

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.

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# 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2024.12.03	Initial Issue	Alisa Luo

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## 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  $\leq$  50 mm are determined by:

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

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $\leq$  5 mm, a distance of 5 mm is applied to determine SAR test exclusion

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# 2.1.3 EUT RF Exposure

### Measurement Data

#### BT classic

D 1 Gladdio				
GFSK				
Test channel	Peak Output Power (dBm)  Tune up tolera (dBm)	Tune up tolerance	Maximum tune-up Power	
			(dBm)	
Lowest(2402MHz)	0.059	0.059±1	1.059	
Middle(2441MHz)	0.542	0.542±1	1.542	
Highest(2480MHz)	0.706	$0.706 \pm 1$	1.706	

π /4DQPSK					
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		
			(dBm)		
Lowest(2402MHz)	1.086	1.086±1	2.086		
Middle(2441MHz)	1.525	1.525±1	2.525		
Highest(2480MHz)	1.689	1.689±1	2.689		

8DPSK					
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		
			(dBm)		
Lowest(2402MHz)	1.474	1.474±1	2.474		
Middle(2441MHz)	1.950	1.950±1	2.95		
Highest(2480MHz)	2.084	2.084±1	3.084		

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output	Maximum tune-up Power		Calculated	Exclusion	SAR Test
	Power (dBm)	(dBm)	(mW)	value	threshold	Exclusion
Highest(2480MHz)	2.084	3.084	2.03	0.64	3.0	Yes