

## RF Exposure Evaluation Report

**Report Reference No.**..... : **MTEB25020214-H**

**FCC ID**..... : **2BN5C-B39-1**

Compiled by

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Date of issue..... : **Feb.28,2025**

**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 Xinkaiyuan Technology Co., Ltd.**

Address..... : 7A010, Gangshen International Center, Xinniu Road, Xinniu  
Community, Minzhi Street, Longhua District, Shenzhen City.

**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**..... : Bluetooth headset

Trade Mark..... : N/A

Model/Type reference..... : B39-1

Listed Models ..... : B39,LB-B39, B39-2, M3, M3-1, M3-2, M5, M5-1, M5-2, M6, M7, M8,  
M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20,  
B40, B41, B42, B43, B44, B45, B46, B47, B48, B49, B50, JSF,  
U10, WX-T7, WX-H2, WX-H3, WX-H7, WX-T7

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

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

Hardware Version..... : V1.0

Software Version..... : V1.0

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

Result..... : PASS

## TEST REPORT

Equipment under Test : Bluetooth headset

Model /Type : B39-1

Listed Models : B39, LB-B39, B39-2, M3, M3-1, M3-2, M5, M5-1, M5-2, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, B40, B41, B42, B43, B44, B45, B46, B47, B48, B49, B50, JSF, U10, WX-T7, WX-H2, WX-H3, WX-H7, WX-T7

Remark : Only the model “B39-1” was tested, Their electrical circuit design, layout, components used and internal wiring are identical, Only the model name and Appearance color is different.

Applicant : Shenzhen Xinkaiyuan Technology Co., Ltd.

Address : 7A010, Gangshen International Center, Xinniu Road, Xinniu Community, Minzhi Street, Longhua District, Shenzhen City.

Manufacturer : Shenzhen Xinkaiyuan Technology Co., Ltd.

Address : 7A010, Gangshen International Center, Xinniu Road, Xinniu Community, Minzhi Street, Longhua District, Shenzhen City.

<b>Test Result:</b>	<b>PASS</b>
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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	2025.02.28	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  $\leq 50$  mm are determined by:

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \left[ \sqrt{f(\text{GHz})} \right]$$
  
 $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  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 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  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

## 2.1.3 EUT RF Exposure

## Measurement Data

## EDR

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	1.581	$1.581 \pm 1$	2.581
Middle(2441MHz)	0.896	$0.896 \pm 1$	1.896
Highest(2480MHz)	0.836	$0.836 \pm 1$	1.836

$\pi/4$ DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	2.406	$2.406 \pm 1$	3.406
Middle(2441MHz)	1.802	$1.802 \pm 1$	2.802
Highest(2480MHz)	1.749	$1.749 \pm 1$	2.749

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	2.878	$2.878 \pm 1$	3.878
Middle(2441MHz)	2.253	$2.253 \pm 1$	3.253
Highest(2480MHz)	2.165	$2.165 \pm 1$	3.165

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)	2.878	3.878	2.44	0.75	3.0	Yes

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