

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

Compiled by

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Date of issue...... Aug. 29, 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

Trade Mark...... N/A

Model/Type reference...... Y20 2X

Listed Models: N/A

Modulation Type.....: GFSK, π /4DQPSK, 8DPSK

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

Hardware Version..... V1.2

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 Y20 2X

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	2024.08.29	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 ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 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 calculation¹⁷

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

GFSK					
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		
			(dBm)		
Lowest(2402MHz)	1.572	1.572±1	2.572		
Middle(2441MHz)	1.601	1.601 ± 1	2.601		
Highest(2480MHz)	1.413	1.413±1	2.413		

π /4DQPSK					
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		
			(dBm)		
Lowest(2402MHz)	2.437	2.437 ± 1	3.437		
Middle(2441MHz)	2.443	2.443 ± 1	3.443		
Highest(2480MHz)	2.269	2.269±1	3.269		

8DPSK					
Test channel	Peak Output Power (dBm)	Tune up tolerance	Maximum tune-up Power		
		(dBm)	(dBm)		
Lowest(2402MHz)	2.861	2.861±1	3.861		
Middle(2441MHz)	2.855	2.855±1	3.855		
Highest(2480MHz)	2.651	2.651±1	3.651		

Worst case: 8DPSK						
Channel	Conducted Output	Maximum tune-up Power		Calculated	Exclusion	SAR Test
		(dBm)	(mW)	value	threshold	Exclusion
Lowest(2402MHz)	2.861	3.861	2.43	0.75	3.0	Yes