

#### 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...... MTWG22030211-R

FCC ID.....: 2AVTD-X9

Compiled by

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Supervised by

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Approved by

( position+printed name+signature)..: Manager Yvette Zhou

Date of issue...... April 06, 2022

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

Nanshan, Shenzhen, Guangdong, China.

Applicant's name...... Shenzhen Tantio Technology Co.,LTD

district, Shenzhen, 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 .....: TWS

Trade Mark ..... eleror

Model/Type reference..... X9

Listed Models ...... N/A

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

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

Hardware Version..... B3.1

Software Version ...... V2.16

Rating ...... DC 3.7V(by battery)

DC 5V(by USB)

Result..... PASS

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## TEST REPORT

Equipment under Test : TWS

Model /Type : X9

Listed Models : N/A

Remark N/A

Applicant : Shenzhen Tantio Technology Co.,LTD

Address : 806, A block, Taojindi Building, Tenlong Road, Longhua district,

Shenzhen, China

Manufacturer : Shenzhen Tantio Technology Co.,LTD

Address : 806, A block, Taojindi Building, Tenlong Road, Longhua district,

Shenzhen, 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	2022.04.06	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

B1 0.0000					
GFSK					
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		
			(dBm)		
Lowest(2402MHz)	-1.22	-1.22±1	-0.22		
Middle(2440MHz)	-1.35	-1.35±1	-0.35		
Highest(2480MHz)	-2.05	-2.05±1	-1.05		

π /4DQPSK					
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		
			(dBm)		
Lowest(2402MHz)	-1.05	-1.05±1	-0.05		
Middle(2440MHz)	-1.35	-1.35±1	-0.35		
Highest(2480MHz)	-1.55	-1.55±1	-0.55		

8DPSK					
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		
			(dBm)		
Lowest(2402MHz)	-1.04	-1.04±1	-0.04		
Middle(2440MHz)	-0.88	-0.88±1	0.12		
Highest(2480MHz)	-1.04	-1.04±1	-0.04		

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated	Exclusion	SAR Test
		(dBm)	(mW)	value	threshold	Exclusion
Middle(2440MHz)	-0.88	0.12	1.03	0.33	3.0	Yes

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