

## RF Exposure Evaluation Report

**Report Reference No.**..... : **MTEB24020084-H**

**FCC ID**..... : **2AABM-680755**

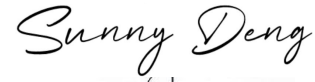
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Supervised by

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



Date of issue..... : **February 21, 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**..... : **TECH-AUDIO CO., LTD**

Address..... : No. 14, Aly. 5, Ln. 216, Zhongxing Rd., Longtan Dist., Taoyuan City  
325, Taiwan

**Test specification/ Standard**..... : **47 CFR Part 1.1307;47 CFR Part 1.1310**  
**KDB447498D01 General RF Exposure Guidance v06**

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

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**Test item description**..... : Bluetooth Speaker

Trade Mark..... : N/A

Model/Type reference..... : Nexa 1

Listed Models ..... : Nexa 2, Nexa 3, Nexa 4, Nexa X, Nexa 1 Pro, Nexa 2 Pro, Nexa 3 Pro, Nexa 1 Ultra, Nexa 2 Ultra, Nexa 3 Ultra, Nexa 1 Mini, Nexa 2 Mini, Nex 3 Mini, A1, A2, A3, A1 Elite, A2 Elite, A3 Elite

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

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

Hardware Version..... V1.1

Software Version..... V1.1

Rating..... : POWER Input: TYPE-C 5V/2.1A

Battery: 7.2V/2500mAh

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

## TEST REPORT

Equipment under Test : Bluetooth Speaker

Model /Type : Nexa 1

Listed Models : Nexa 2, Nexa 3, Nexa 4, Nexa X, Nexa 1 Pro, Nexa 2 Pro, Nexa 3 Pro, Nexa 1 Ultra. Nexa 2 Ultra. Nexa 3 Ultra, Nexa 1 Mini, Nexa 2 Mini, Nex 3 Mini, A1, A2, A3, A1 Elite, A2 Elite, A3 Elite

Remark : The model name is different and the appearance is different, and the rest remains unchanged.

Applicant : TECH-AUDIO CO., LTD

Address : No. 14, Aly. 5, Ln. 216, Zhongxing Rd., Longtan Dist., Taoyuan City 325, Taiwan

Manufacturer : XIAMEN TECH-SOUND CO., LTD

Address : NO.170, Ji Yin Road, Tong An District , Xiamen , China.

<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	2024-02-21	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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  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

BT classic

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	1.359	1.359 ± 1	2.359
Middle(2441MHz)	3.047	3.047 ± 1	4.047
Highest(2480MHz)	2.816	2.816 ± 1	3.816

$\pi/4$ DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	0.153	0.153 ± 1	1.153
Middle(2441MHz)	1.605	1.605 ± 1	2.605
Highest(2480MHz)	1.762	1.762 ± 1	2.762

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	0.209	0.209 ± 1	1.209
Middle(2441MHz)	1.812	1.812 ± 1	2.812
Highest(2480MHz)	1.803	1.803 ± 1	2.803

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Lowest(2402MHz)	3.047	4.047	2.54	0.65	3.0	Yes

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