

## TEST REPORT

**Report Reference No.**..... : **MTEB24070325 -H**

**FCC ID**..... : **NRH-LR-R107H**

Compiled by  
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Supervised by  
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Date of issue..... : **July 22,2024**

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

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Nanshan, Shenzhen, Guangdong, China.

**Applicant's name**..... : **Netvox Technology Co Ltd**

Address..... : No 21, Sec 1 Chung Hua West Road, Tainan, Taiwan

**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**..... : Wireless Module

Trade Mark..... : **netvox**

Model/Type reference..... : R107H

Listed Models ..... : N/A

Modulation Type..... : FSK

Operation Frequency..... : 902MHZ ~ 928MHz

Hardware version..... : V0.2

Software version ..... : V1.0

Rating..... : DC 3V

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

**TEST REPORT**

Equipment under Test : Wireless Module

Model /Type : R107H

Listed Models : N/A

Remark : N/A

Applicant : Netvox Technology Co Ltd

Address : No 21, Sec 1 Chung Hua West Road, Tainan, Taiwan

Manufacturer : Netvox Technology Co., Ltd. (Xiamen)

Address : No.2, Xin Feng 2 Road, Xiamen Torch Hi-Tech Industrial  
Development Zone, Xiamen City, 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.

## Contents

### 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2024-07-22	Initial Issue	Alisa Luo

## 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

$$\text{EIRP} = \text{PT} * \text{GT} = (\text{E} \times \text{D})^2 / 30$$

where:

PT = transmitter output power in watts,

GT = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m,  $10^{(\text{dB}\mu\text{V}/\text{m})/20} / 10^6$ ,

D = measurement distance in meters (m)---3m,

$$\text{So PT} = (\text{E} \times \text{D})^2 / 30 / \text{GT}$$

The worst case (refer to report **MTEB24070325 -R**) is below:

For 927.5MHz wireless:

Field strength=97.26dBuV/m

Ant gain:0.78dBi;so Ant numeric gain=1.20

$$\text{EIRP} = \text{PT} * \text{GT} = (\text{E} \times \text{D})^2 / 30 = (10^{(\text{dB}\mu\text{V}/\text{m})/20} / 10^6 * 3)^2 / 30 = 0.0016$$

$$\text{So PT} = \text{EIRP} / \text{GT} = 0.0016 \text{W} = 1.33 \text{mW}$$

$$\text{So } (1.33 \text{mW} / 5 \text{mm}^2) * \sqrt{0.9275 \text{GHz}} = 0.26$$

exclusion=0.26<3.0 for 1-g SAR

So the SAR report is not required.