

#### Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

### TEST REPORT

FCC Rules Part 15.231

Report Reference No..... MTWG2207120-H FCC ID.....:: NRH-LR-R718Y

Compiled by

( position+printed name+signature)..:

Supervised by

( position+printed name+signature)...

Approved by

( position+printed name+signature)...:

Date of issue....:

Representative Laboratory Name .:

Address .....:

Applicant's name..... Address .....:

Test specification/ Standard ..........: 47 CFR Part 1.1307

Alsa Luo Sunny Deng . 1 - HER-File administrators Alisa Luo

Test En

Manager Yvette Zhou

July 20, 2022

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,

Nanshan, Shenzhen, Guangdong, China.

**Netvox Technology Co Ltd** 

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

47 CFR Part 2.1093

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

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Test item description .....: Wireless Differential Pressureand Temperature sensor

Trade Mark .....: Netvox Model/Type reference....: R718Y Listed Models .....: **R718YA** Modulation Type .....: **FSK** 

Operation Frequency.....: 902MHz-928MHz

Hardware version .....: V0.2 Software version .....: V1.0

Rating ...... DC3.6V(by Batteries)

**PASS** Result....:

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## TEST REPORT

Equipment under Test : Wireless Differential Pressureand Temperature sensor

Model /Type : R718Y

Listed Models : R718YA

Remark: R718YA adds an external temperature and humidity

sensor on the basis of R718Y.

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

Test Result:	PASS
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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.

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# **Contents**

# 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2022.07.20	Initial Issue	Alisa Luo

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### 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)] ·  $[\sqrt{f(GHz)}] \le 3.0$  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 calculation<sub>17</sub>

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

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

where:

PT = transmitter output power in watts,

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

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

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

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

The worst case (refer to report MTWG2207120s below:

Antenna polarization: Horizontal				
Frequency (MHz)	Level (dBuV/m)	Polarization		
902.3	78.62	Peak		
902.3	65.12	Average		

Antenna polarization: Vertical				
Frequency (MHz)	Level (dBuV/m)	Polarization		
902.3	80.16	Peak		
902.3	67.41	Average		

For 902.3MHz wireless: Field strength=67.41 dBuV/m Ant gain:-0.65dBi;so Ant numeric gain=0.86

EIRP = PT\*GT = (E x D)²/30= $(10^{(dB\mu V/m)/20})/10^6*3)^2/30=0.000002$ So PT= EIRP/GT=0.000002W=0.002mW So(0.002mW/5mm)\*  $\sqrt{0.9023}=0.00038$ 

exclusion=0.00038<3.0 for 1-g SAR

So the SAR report is not required.