RF EXPOSURE

EXEMPT REPORT

APPLICANT	:	NiceRF Wireless Technology LTD.
PRODUCT NAME	:	Wireless Module
MODEL NAME	:	RF4463Pro-433
BRAND NAME	:	G-NiceRF
IC	:	21278-RF4463PRO
STANDARD(S)	:	RSS-102 Issue 6
RECEIPT DATE	:	2024-11-29
TEST DATE	:	2024-12-02 to 2024-12-09
ISSUE DATE	:	2024-12-26

Edited by: Zeng Xiaoying (Rapporteur)

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Change History		
Version	**Date**	**Reason for change**
1.0	2024-12-26	First edition

1. Technical Information

Note: Provide by applicant.

1.1 Applicant and Manufacturer Information

Applicant:	NiceRF Wireless Technology LTD.
Applicant Address:	309-314, Bldg A,Hongdu business building, Xin'an street, Zone 43, Baoan Dist, Shenzhen 518101, China
Manufacturer:	NiceRF Wireless Technology LTD.
Manufacturer Address:	309-314, Bldg A,Hongdu business building, Xin'an street, Zone 43, Baoan Dist, Shenzhen 518101, China

1.2 Equipment Under Test (EUT) Description

Product Name:	Wireless Module
Sample No.:	1#, 2#
Hardware Version:	V1.0
Software Version:	V1.0
Operating Frequency:	433.5MHz
Channel Number:	1
Antenna Type:	Spring Antenna
Antenna Gain:	2.15dBi

1.3 Applied Reference Documents

Leading reference documents for testing:

Identity	Document Title	Method determination /Remark
RSS-102 Issue 6	Radio Frequency (RF) Exposure Compliance of Radio communication Apparatus (All Frequency Bands)	No deviation
Note 1: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table. **Note 2:** When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.		

2. Device Category and RF Exposure Limit

Per user manual, this device is a data collection terminal. The separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm.

Exemption Limits for Routine Assessment – RF Exposure Assessment

RF exposure assessment is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

• below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);

• at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 4.49/f0.5W (adjusted for tune-up tolerance), where f is in MHz;

• at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);

• at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2}\ f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;

• at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

3. Maximum Average Power Summary

Frequency (MHz)	Max Emission (dBμV/m)	Max. Emission (V/m)	Time-averaging EIRP (mW)
433.5	75.262	0.0058	0.0101

Note 1: According to RSS-102 Issue 6, MPE test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Note 2: The maximum output power refers to report (Report No.: SZ24110244W01).

4. RF Exposure Assessment

➢ **Standalone Transmission MPE Assessment:**

Frequency (MHz)	Max. Emission E(dBμV/m)	Max. Emission (V/m)	Time-averaging EIRP (mW)
433.5	75.262	0.0058	0.0101

Note: The maximum average power including tune-up limit or equivalent isotropically radiated power (e.i.r.p.) at the worst case is 0.0101mW, which is less than the limit at or above 300 MHz and below 6 GHz, therefore the test result complies with human exposure basic restrictions.

➢ **Conclusion:**

According to RSS-102 Issue 6, this device complies with human exposure basic restrictions.

Annex A Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
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Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. Morlab facility is a registered (7183A) test laboratory with the site description on file with ISED.

END OF REPORT