

RED-Health Test Report

For

MAXIIOT LTD

LoRaWAN

Model No.: GL5712-EX, GL5712-EA

Prepared For : MAXIIOT LTD

Address : No.60, Zhongshan Rd., Tucheng Dist, New Taipei, Taiwan 23680

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

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Report Number : SZAWW180830005-03H

Date of Receipt : Aug. 30, 2018

Date of Test : Aug. 30~Nov. 13, 2018

Date of Report : Nov. 13, 2018



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TEST REPORT

Applicant : MAXIIOT LTD

Manufacturer : MAXIIOT LTD

Product Name : LoRaWAN

Model No. : GL5712-EX, GL5712-EA

Trade Mark : MAXIIOT

Rating(s) : Input: 3.3V == 2A

Test Standard(s) : EN 62479: 2010

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. This report shows the EUT to be technically compliant with the EN 62479: 2010 requirements. The test results are contained in this report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full responsibility for the accuracy and completeness of these tests.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test	NBOTE .	hotek Anbotek	Aug. 30~No	ov. 13, 2018	
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			Sally	Thomas	
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Approved & Au	thorized Signer	Anbotek Anbote	otek anbotek	Anbo	botek Ani
			(Manager / S	Sally Zhang)	



1. General Information

1.1. Client Information

Applicant	:	MAXIIOT LTD
Address	:	No.60, Zhongshan Rd., Tucheng Dist, New Taipei, Taiwan 23680
Manufacturer	lek.	MAXIIOT LTD
Address	pot	No.60, Zhongshan Rd., Tucheng Dist, New Taipei, Taiwan 23680
Factory	Pu,	MAXIIOT LTD
Address	:	No.60, Zhongshan Rd., Tucheng Dist, New Taipei, Taiwan 23680

1.2. Description of Device (EUT)

Product Name	ank	LoRaWAN	Anbotek Anbotek Anbotek An
Model No.	. 1	GL5712-EX, GL5712-EA (Note: All samples are the same e "GL5712-EX" for test only.)	except the different connectors, so we prepare
Trade Mark	31	MAXIIOT	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	ore	TX & RX: DC 5V via USB Port	Anbotek Anbotek Anbotek Anb
Test Sample No.	Anb	S1(Normal Sample), S2(Engineer	ring Sample)
hbotek Anboro	-0	Operation Frequency:	868.1-868.5MHz
Anbote, Anu	,K	Number of Channel:	5 Channels
Product	otel	Modulation Type:	OOK
Description	nb	Antenna Type:	Cylindrical Antenna
notek Anbotek	P	Antenna Gain(Peak):	5 dBi Anbotek Anbotek Anbotek
anbotek Anbotek	i.	Max. Transmitting Power:	7.88 dBm Max.

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



1.3. Auxiliary Equipment Used During Test

PC	:	Manufacturer: DELL
		M/N: Optiplex 3020 MT
		S/N: CN-079V51-70163-4AD-089K-A00
		Input Rating: AC 100-240V, 50-60Hz 5.4A CE, FCC DOC, CCC
		CE, FCC DOC, CCC
MONITOR	:	Manufacturer: DELL
		M/N: E1914Hf S/N: CN-034H2R-72872-419-AFIR
		S/N: CN-034H2R-72872-419-AFJB
		input.100 v -240 v, 1.5A, 50/0011Z
		TUV-GS, FCC, CE, KCC, VCCI
		anbotek Anbo K Hotek Anbote Ant tak abotek
KEYBOARD	:	Manufacturer: DELL
		M/N: SK-8120 S/N: CN-0DJ365-71616-49J-0MVR-A00
		S/N: CN-0DJ365-71616-49J-0MVR-A00
		Input Rating: DC 5V, 0.05A
		Input Rating: DC 5V, 0.05A CE, FCC, VCCI, KCC, TUV-GS Cable: 1.8m, unshielded
		And tek abotek Anboo K An atek Anbotek Anbotek
MOUSE	:	Manufacturer: DELL
		M/N: MS111-T
		S/N: CN 0VW2VH 71616 499 1CDI
		Input Rating: DC 5V, 0.1A
		Input Rating: DC 5V, 0.1A Cable: 1.8m, unshielded CE, FCC, VCCI, KCC, TUV-GS
		CE, FCC, VCCI, KCC, TUV-GS
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1.4. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, July 31, 2017.

ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

1.5. Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1,5 dB
Power Spectral Density, conducted	±3 dB
Unwanted Emissions, conducted	±3 dB
All emissions, radiated	±6 dB
Temperature	±1 °C
Humidity	±5 %
DC and low frequency voltages	±3 %
Time	±5 %
Duty Cycle	±5 %



2. GENERAL PRODUCT INFORMATION

2.1. Product Function and Intended Use

The submitted sample is wireless transceiver includes transmitter and receiver.

2.2. Ratings and System Detail

	Anbotek Anbote	You	Am	Transmitter	Anbor	Amotek	Anbotek
eK.	Frequency Range	O'V	An	868.1MF	Hz, 868.3MHz	z, 868.5MHz	Anbore.
_1_1	Power Supply	'upor	K Pur	ek anboto	C 5V via USE	3 Port	ek Anbore



3. EN 62479 REQUIREMENT

3.1. General Description of Applied Standards

Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz).

3.2. Human exposure to the Electromagnetic fields

This International Standard provides simple conformity assessment methods for low-power electronic and electrical equipment to an exposure limit relevant to electromagnetic fields (EMF). If such equipment cannot be shown to comply with the applicable EMF exposure requirements using the methods included in this standard for EMF assessment, then other standards, including IEC 62311 or other (EMF) product standards, may be used for conformity assessment.

3.3. RF Exposure Evaluation

3.3.1. Limit:

According to EN 62479 clause 4.2 Low-power electronic and electrical equipment is deemed to comply with the provisions of this standard if it can be demonstrated using routes B, C or D that the available antenna power and/or the average total radiated power is less than or equal to the applicable low-power exclusion level Pmax.

P max = 20 mW (13.1dBm) according to ICNIRP guidelines, since the EUT is General public used.

- B: The input power level to electrical or electronic components that are capable of radiating electromagnetic energy in the relevant frequency range is so low that the available antenna power and/or the average total radiated power cannot exceed the low-power exclusion level defined in EN 62479 clause 4.2
- C: The available antenna power and/or the average total radiated power are limited by product standards for transmitters to levels below the low-power exclusion level defined in EN 62479 clause 4.2
- D: Measurements or calculations show that the available antenna power and/or the average total radiated power are below the low-power exclusion level defined in EN 62479 clauses 4.2.

3.3.2. Test result

The EIRP of the EUT which are below the max permitted sending level of 20 mW, and then the EUT is not need to conduct SAR measurement.

More details please refer to SZAWW180830005-04W.

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