

TEST REPORT

Applicant: Dragino Technology Co., Limited

Address of Applicant: Room 202, Block B, BCT Incubation Bases (BaoChengTai), No.8 CaiYunRoad LongCheng Street, LongGang District ; Shenzhen 518116,China

Manufacturer/Factory: Dragino Technology Co., Limited

Address of Manufacturer/Factory: Room 202, Block B, BCT Incubation Bases (BaoChengTai), No.8 CaiYunRoad LongCheng Street, LongGang District ; Shenzhen 518116,China

Equipment Under Test (EUT)

Product Name: LoRaWAN Sensor Node

Model No.: LSN50

Trade Mark: Dragino

Applicable standards: EN 62479:2010

Date of sample receipt: April 03, 2019

Date of Test: April 04-22, 2019

Date of report issue: April 22, 2019

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The protection requirements with respect to electromagnetic compatibility contained in Directive 2014/53/EU are considered.



Robinson Lo

Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	April 22, 2019	Original

Prepared By: Bill. Yuan **Date:** April 22, 2019
Project Engineer

Check By: Robinson **Date:** April 22, 2019
Reviewer

3 Contents

	Page
1 COVER PAGE	1
2 VERSION	2
3 CONTENTS	3
4 GENERAL INFORMATION	4
4.1 GENERAL DESCRIPTION OF EUT	4
4.2 TEST FACILITY	5
4.3 TEST LOCATION	5
4.4 DESCRIPTION OF SUPPORT UNITS	5
4.5 DEVIATION FROM STANDARDS	5
4.6 ABNORMALITIES FROM STANDARD CONDITIONS	5
4.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER	5
5 TECHNICAL REQUIREMENTS SPECIFICATION IN EN 62479	6
5.1 MEASUREMENT DATA	6

4 General Information

4.1 General Description of EUT

Product Name:	LoRaWAN Sensor Node
Model No.:	LSN50
Operation Frequency:	863MHz~870MHz
Channel numbers:	35
Channel separation:	200kHz
Occupied bandwidth	200kHz(Declared by manufacturer)
Modulation technology:	FSK
Antenna Type:	Integral antenna
Antenna gain:	3.43(Declared by applicant)
Power supply:	Battery: DC 3.6V

4.2 Test Facility

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

- **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2.

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

4.3 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China

Tel: 0755-27798480

Fax: 0755-27798960

4.4 Description of Support Units

None.

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 Technical Requirements Specification in EN 62479

Test Requirement:	EN 62479
Test Method:	EN 62479
General Description of Applied Standards	Assesment 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)
Limit:	20mW
Result:	Pass

5.1 Measurement data

Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Pmax Limit (mW)	Result
863.1	9.67	9.27	20	Pass
866.5	9.65	9.23		Pass
869.9	9.69	9.31		Pass

-----End-----