

# RF EXPOSURE REPORT

Applicant	Qibixx AG
Address	Ringstrasse 15A,8600 Dubendorf, Switzerland.

Manufacturer or Supplier	GLOBALTRONIC - Electrónica e Telecomunicações, SA.
Address	Raso de Paredes - 3750-909 Águeda PORTUGAL
Product	Wireless module
Brand Name	N/A
Model	QINO
Additional Model & Model Difference	N/A
Date of tests	Jan. 22, 2017 ~ Feb. 07, 2017

FCC Part 2 (Section 2.1091)

neerl

- **KDB 447498 D01**
- **⊠** IEEE C95.1

#### CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Breeze Jiang	Approved by Chris Chen
Project Engineer / EMC Department	Manager / EMC Department

Date: Mar. 21, 2017

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification



## Test Report No.: FS170110N015

# **Table of Contents**

RELI	EASE CONTROL RECORD	3
1.	CERTIFICATION	4
	RF EXPOSURE LIMIT	
3.	MPE CALCULATION FORMULA	5
	CLASSIFICATION	
	ANTENNA GAIN	
6	CALCULATION RESULT OF MAXIMUM CONDUCTED POWER	6

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080

Email: <a href="mailto:customerservice.dg@cn.bureauveritas.com">customerservice.dg@cn.bureauveritas.com</a>



# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS170110N015	Original release	Mar. 21, 2017

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080

Email: <a href="mailto:customerservice.dg@cn.bureauveritas.com">customerservice.dg@cn.bureauveritas.com</a>



# 1. CERTIFICATION

FCC ID:	2ALAR-QINO		
PRODUCT:	Wireless module		
BRAND NAME:	N/A		
MODEL NO.:	QINO		
ADDITIONAL NO.:	N/A		
TEST SAMPLE:	Engineering Sample		
APPLICANT:	Qibixx SA		
STANDARDS:	FCC Part 2 (Section 2.1091)		
	KDB 447498 D01		
	IEEE C95.1		

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080

Email: <a href="mailto:customerservice.dg@cn.bureauveritas.com">customerservice.dg@cn.bureauveritas.com</a>



### 2. RF EXPOSURE LIMIT

#### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm²)	AVERAGE TIME (minutes)		
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE						
300-1500 F/1500 30						
1500-100,000			1.0	30		

F = Frequency in MHz

#### 3. MPE CALCULATION FORMULA

 $Pd = (Pout*G) / (4*pi*r^2)$ 

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

#### 4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080

Email: customerservice.dg@cn.bureauveritas.com

Page 5 of 6 Report Version 1



Test Report No.: FS170110N015

### 5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)		Antenna Type
Chain 0	2	F 04	Integral PCB Antenna
Chain 1	2	5.01	Integral PCB Antenna

Note: Total Gain=4.32+10log(N=2)=2+(3.01)=5.01dBi

## 6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
2412-2462	15	+-2	13	17

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
802.11b	2412	16.36
802.11g	2412	16.60
802.11n20	2412	16.50

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
2412-2462	17	2	20	0.0316	1.0

--- END ---

Tel: +86 769 8593 5656 Fax: +86 769 8593 1080

Email: customerservice.dg@cn.bureauveritas.com