



# RF EXPOSURE REPORT

Applicant:	Fibocom Wireless Inc.				
Address:	5/F, Tower A, Technology Building II,1057 Nanhai Avenue, Shenzhen, China				
Manufacturer or Supplier:	Fibocom Wireless Inc.				
Address:	5/F, Tower A, Technology Building	II,1057 Nanhai Avenue, Shenzhen, China			
Product:	BT Module	BT Module			
Brand Name:	Fibocom	Fibocom			
Model Name:	B830-GL	B830-GL			
FCC ID:	ZMOB830GL				
Date of tests:	Aug 14, 2019 ~ Sep 03, 2019				
The tests have been carried out according to the requirements of the following standard:					
<ul> <li>IEEE C95.1</li> <li>FCC Part 2.1091</li> <li>KDB 447498 D01 General RF Exposure Guidance v06</li> </ul>					
CONCLUSION: The submitted sample was found to <u>COMPLY</u> with the test requirement					
Prepared by Alex Chen Approved by Luke Lu Engineer / Mobile Department Manager / Mobile Department					
	Alex	luke lu			
Date: Sept. 06, 2019 Date: Sept. 06, 2019					
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		report sets forth our findings solely with respect to the test samples identified herein. The results from which a test sample was taken or any similar or identical product unless specifically and			

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <a href="http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/and is intended 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. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; 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 you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



# **TABLE OF CONTENTS**

R	F EXPOSURE REPORT	1
R	ELEASE CONTROL RECORD	3
1	GENERAL INFORMATION	4
	1.1 GENERAL DESCRIPTION OF EUT	4
2	RF EXPOSURE	5
	2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)	5
	2.2 MPE CALCULATION FORMULA	5
	2.3 CLASSIFICATION	6
	2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER	7

 $\textbf{Email:} \ \underline{\text{customerservice.dg@cn.bureauveritas.com}}$ 



## **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA190813W001-1	Original release	Sept. 06, 2019

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### 1 GENERAL INFORMATION

### 1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	BT Module
BRAND NAME	Fibocom
MODEL NAME	B830-GL
NOMINAL VOLTAGE	DC 3.3V
MODULATION	GFSK
TRANSMISSION RATE	BT_LE 5.0: 0.125 Mbps/0.5 Mbps/1 Mbps/2 Mbps
OPERATING FREQUENCY	2402-2480MHz for BT-LE5.0
MAX. OUTPUT POWER	BT-LE: 6.546mW (Maximum conducted output power)
ANTENNA TYPE	BT-LE : External Antenna with -2dBi gain
LIM VEDOLONI	
HW VERSION	V1.0.3
SW VERSION	V1.0.3 B830-GL-02-TA-V1.0.0

#### NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



## 2 RF EXPOSURE

## 2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Averaging time (minutes)						
	(A) Limits for Occupational/Controlled Exposure								
0.3-3.0	614	1.63	*100	6					
3.0-30	1842/f	4.89/f	*900/f <sup>2</sup>	6					
30-300	61.4	0.163	1.0	6					
300-1,500			f/300	6					
1,500-100,000			5	6					
(B) Limits for General Population/Uncontrolled Exposure									
0.3-1.34	614	1.63	*100	30					
1.34-30	824/f	2.19/f	*180/f <sup>2</sup>	30					
30-300	27.5	0.073	0.2	30					
300-1,500			f/1500	30					
1,500-100,000			1.0	30					

f = Frequency in MHz

#### 2.2 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



### 2.3 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**.

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## 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

#### **BT LE**

Mode	Frequency (MHz)	Operating Mode (Mbps)	Antenna Gain (dBi)	Tune-up Power (dBm)	Tune-up Power (mW)	Density	limit (mW/cm^2)	PASS / FAIL
BT LE CODED S2	2402-2480	0.125	-2	10	10.00	0.0013	1.00	PASS
BT LE CODED S8	2402-2480	0.5	-2	10	10.00	0.0013	1.00	PASS
BT LE (1M)	2402-2480	1	-2	10	10.00	0.0013	1.00	PASS
BT LE (2M)	2402-2480	2	-2	10	10.00	0.0013	1.00	PASS

Note: The power value above is peak power value.

--END--