

RF Exposure Report

Report No.: SA180704C01

FCC ID: ZMOL850GLD

Test Model: L850-GL

Received Date: Jul. 04, 2018

Date of Evaluation: Jul. 17, 2018

Issued Date: Jul. 19, 2018

Applicant: Fibocom Wireless Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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Test Location: No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)

**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
SA180704C01	Original Release	Jul. 19, 2018

1 Certificate of Conformity

Product: LTE module

Brand: Fibocom

Test Model: L850-GL

Sample Status: Identical Prototype

Applicant: Fibocom Wireless Inc.

Date of Evaluation: Jul. 17, 2018

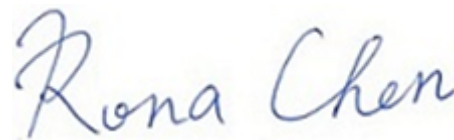
Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

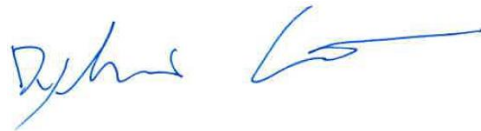
Prepared by :



Date: Jul. 19, 2018

Rona Chen / Specialist

Approved by :



Date: Jul. 19, 2018

Dylan Chiou / Project Engineer

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
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 ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

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

where

Pd = power density in mW/cm²

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**.

2.4 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WCDMA II	1850-1910	24.5	5.0	20	0.177	1.00
WCDMA IV	1710-1755	24.5	5.0	20	0.177	1.00
WCDMA V	824-849	24.5	3.0	20	0.112	0.55
LTE 2	1850-1910	24.0	5.0	20	0.158	1.00
LTE 4	1710-1755	24.0	5.0	20	0.158	1.00
LTE 5	824-849	24.0	3.0	20	0.100	0.55
LTE 7	2500-2570	24.0	5.0	20	0.158	1.00
LTE 12	699-716	24.0	3.0	20	0.100	0.47
LTE 13	777-787	24.0	3.0	20	0.100	0.52
LTE 17	704-716	24.0	3.0	20	0.100	0.47
LTE 26	814-849	24.0	3.0	20	0.100	0.54
LTE 30	2305-2315	23.0	3.0	20	0.079	1.00
LTE 38	2570-2620	24.0	5.0	20	0.158	1.00
LTE 41	2496-2690	24.0	5.0	20	0.158	1.00
LTE 66	1710-1780	24.0	5.0	20	0.158	1.00

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