

FCC RF EXPOSURE REPORT

FCC ID: ZMONL668LA31

Project No. : 2111C169B
Equipment : LTE Module
Brand Name : Fibocom
Test Model : NL668-LA
Series Model : N/A
Applicant : Fibocom Wireless Inc.
Address : 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Manufacturer : Fibocom Wireless Inc.
Address : 1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Date of Receipt : Nov. 29, 2021
Apr. 06, 2022
Date of Test : Dec. 03, 2021 ~ Dec. 31, 2021
Issued Date : May 07, 2022
Report Version : R00
Test Sample : Engineering Sample No.: DG20211201108
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.



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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2111C169B	R00	<p>Compared with the previous report (BTL-FCCP-4-2111C171, the original identification is FCC ID: ZMONL668LA05),</p> <p>1. Removed the bands of GSM, WCDMA Band IV, LTE Band 12&17&38&66 by deleted components, identical internal printed circuit board layouts and design kept common.</p> <p>2. Removed factory information.</p> <p>3. Removed series model.</p> <p>4. Changed software version and hardware version.</p> <p>So removed the information of GSM, WCDMA Band IV, LTE Band 12&17&38&66 and the ohter test results are kept the same.</p>	May 07, 2022	Valid

1. TEST FACILITY

The test facilities used to collect the test data of conducted in this report is at the location of Room 108, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna:

For WCDMA:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	Dipole	SMA	0.9	WCDMA Band II
				-1.4	WCDMA Band V

Note: The antenna gain is provided by the manufacturer.

For LTE:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	Dipole	SMA	0.9	LTE Band 2
				1.4	LTE Band 4
				-1.4	LTE Band 5
				2.6	LTE Band 7

Note: The antenna gain is provided by the manufacturer.

3. TEST RESULTS

For WCDMA:

Band	Frequency (MHz)	Max.Tune Up Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Test Result
WCDMA II	1907.6	25.5	3	2	707.95	0.1408	1.0000	Complies
WCDMA V	846.6	25.5	3	2	707.95	0.1408	0.5644	Complies

For LTE:

Band	Frequency (MHz)	Max.Tune Up Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)	Test Result
LTE Band 2	1855	25	3	2	630.96	0.1255	1.0000	Complies
LTE Band 4	1717.5	25	3	2	630.96	0.1255	1.0000	Complies
LTE Band 5	825.5	25	3	2	630.96	0.1255	0.5503	Complies
LTE Band 7	2505	25	3	2	630.96	0.1255	1.0000	Complies

Note: The calculated distance is 20 cm.
Output power including tune up tolerance