

FCC RF EXPOSURE REPORT

FCC ID: ZMOSU806EAU

Project No. : 2104C157
Equipment : LTE Module
Brand Name : Fibocom
Test Model : SU806-EAU
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
Factory : Huizhou HYE Technology Co., Ltd.
Address : No. 237, Sanhe group, Sanhe village, Tonghu Town, Zhongkai hi tech
Zone, Huizhou
Date of Receipt : Apr. 21, 2021
Date of Test : Apr. 22, 2021 ~ Jun. 01, 2021
Issued Date : Jun. 08, 2021
Report Version : R00
Test Sample : Engineering Sample No.: DG20210425110 for BT, LE and WIFI,
DG20210425108 for GSM, WCDMA and LTE.
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

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

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Certificate #5123.02

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Jun. 08, 2021

1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, 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:

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

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 BT/LE/2.4G:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	External	N/A	1

Note: The antenna gain is provided by the manufacturer.

For GSM:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
Fibocom	V1150-006	External	SMA	-1.4	GSM 850
Fibocom	V1150-006	External	SMA	0.9	PCS 1900

Note: The antenna gains are provided by the manufacturer.

For WCDMA:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
Fibocom	V1150-006	External	SMA	0.9	WCDMA II
Fibocom	V1150-006	External	SMA	-1.4	WCDMA V

Note: The antenna gains are provided by the manufacturer.

For LTE:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
Fibocom	V1150-006	External	SMA	-1.4	LTE Band 5
Fibocom	V1150-006	External	SMA	2.6	LTE Band 7
Fibocom	V1150-006	External	SMA	1.8	LTE Band 38
Fibocom	V1150-006	External	SMA	2.9	LTE Band 40 (2305-2315MHz)
Fibocom	V1150-006	External	SMA	2.9	LTE Band 40 (2350-2360MHz)
Fibocom	V1150-006	External	SMA	2.6	LTE Band 41

Note: The antenna gains are provided by the manufacturer.

3. TEST RESULTS

For BT:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1	1.2589	9.39	8.6896	0.00218	1	Complies

For LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1	1.2589	2.67	1.8493	0.00046	1	Complies

For 2.4G:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1	1.2589	14.87	30.6902	0.00769	1	Complies

For GSM:

Band	Frequency (MHz)	Max. Output Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
GSM 850	836.6	32.86	-1.4	0.72	1399.59	0.2784	0.5577	Complies
DCS 1900	1850.2	29.36	0.9	1.23	1061.70	0.2112	1.0000	Complies

For WCDMA:

Band	Frequency (MHz)	Max. Output Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
WCDMA II	1880	23.79	0.9	1.23	294.44	0.0586	1.0000	Complies
WCDMA V	836.4	23.50	-1.4	0.72	162.18	0.0323	0.5576	Complies

For LTE:

Band	Frequency (MHz)	Max. Output Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Output Power to Antenna	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
Band 5	825.5	23.00	-1.4	0.72	144.54	0.0288	0.5503	Complies
Band 7	2507.5	22.72	2.6	1.82	340.41	0.0677	1.0000	Complies
Band 38	2575	22.34	1.8	1.51	259.42	0.0516	1.0000	Complies
Band 40 (2305-2315MHz)	2310	22.42	2.9	1.95	340.41	0.0677	1.0000	Complies
Band 40 (2350-2360MHz)	2357.5	22.58	2.9	1.95	353.18	0.0703	1.0000	Complies
Band 41	2593	22.53	2.6	1.82	325.84	0.0648	1.0000	Complies

For the max simultaneous transmission MPE:

Power Density (S) (mW/cm ²)	Power Density (S) (mW/cm ²)	Power Density (S) (mW/cm ²)	Total	Limit of Power Density (S) (mW/cm ²)	Test Result
BT	2.4G	GSM			
0.00218	0.00769	0.2784	0.2883	1	Complies

Note: The calculated distance is 20 cm.

End of Test Report