



RF Exposure Evaluation Report

Application No.: ZR/2020/20031
Applicant: Fibocom Wireless Inc.
Address of Applicant: 5/F, Tower A, Technology Building II, 1057# Nanhai Blvd, Shenzhen, China
Manufacturer: Fibocom Wireless Inc.
Address of Manufacturer: 5/F, Tower A, Technology Building II, 1057# Nanhai Blvd, Shenzhen, China
Factory: BYD Precision Manufacture Co., Ltd
Address of Factory: No. 3001, Baohe Road, Baolong Industrial City, Longgang street, Longgang District, Shenzhen
EUT Description: LTE Module
Model No.: SS808-NA
Trade Mark: Fibocom
FCC ID: ZMOSS808NA
Standards: 47 CFR Part 2.1091
FCC KDB 447498 D01 v06
Date of Receipt: 2020/2/26
Date of Test: 2020/2/27 to 2020/3/25
Date of Issue: 2020/3/25

Test Result:	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Derek Yang
Wireless Laboratory Manager



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Shenzhen Branch Testing Center, EMC Laboratory

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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2020/3/25		Original

Authorized for issue by:				
				2020/3/25
		Mike Hu /Project Engineer		
				2020/3/25
		David Chen /Reviewer		





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2 General Information

2.1 Client Information

Applicant:	Fibocom Wireless Inc.
Address of Applicant:	5/F,Tower A,Technology Building II,1057# Nanhai Blvd,Shenzhen,China
Manufacturer:	Fibocom Wireless Inc.
Address of Manufacturer:	5/F,Tower A,Technology Building II,1057# Nanhai Blvd,Shenzhen,China
Factory:	BYD Precision Manufacture Co.,Ltd
Address of Factory:	No. 3001, Baohe Road, Baolong Industrial City, Longgang street, Longgang District, Shenzhen

2.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Telephone:	+86 (0) 755 2601 2053
Fax:	+86 (0) 755 2671 0594
E-mail:	ee.shenzhen@sgs.com

2.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.



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2.4 General Description of EUT

EUT Description:	LTE Module
Model No.:	SS808-NA
Trade Mark:	Fibocom
Hardware Version:	V1.0.1
Software Version:	SS808_NA_00_00-20200102-1
Sample Type:	<input type="checkbox"/> Portable Device, <input checked="" type="checkbox"/> Module
Antenna Type:	<input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated
Antenna Gain:	WCDMA Band II: 5.0dBi WCDMA Band IV: 4.6dBi WCDMA Band V: 2.9dBi LTE Band 2: 5.0dBi; LTE Band 4: 4.6dBi; LTE Band 5: 2.9dBi; LTE Band 7: 4.07dBi; LTE Band 12: 2.6dBi; LTE Band 13: 2.6dBi; LTE Band 17: 2.6dBi; LTE Band 25: 5.0dBi; LTE Band 26: 2.9dBi; LTE Band 41: 4.07dBi; LTE Band 66: 4.6dBi; 2.4G WiFi: 2.3dBi; Bluetooth/BLE: 2.3dBi; 5G WiFi: 3.66dBi;





3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	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 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
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually.



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3.1.3 EUT RF Exposure Evaluation

Operating Band	Frequency (MHz)	Antenna Gain (dBi)	Max Conducted Average Output Power (dBm)	Calculated EIRP(dBm)	EIRP(ERP) Limit (dBm)	Output Power to Antenna (mw)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	Gain according to EIRP (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
WCDMA B2	1852.4	5.00	24.50	29.50	33.00	281.8383	0.1773	1.0000	8.50	12.51	8.50	Pass
WCDMA B4	1712.4	4.60	24.50	29.10	30.00	281.8383	0.1617	1.0000	5.50	12.51	5.50	Pass
WCDMA B5	826.4	2.90	24.50	25.25	38.45	281.8383	0.1093	0.5509	16.10	9.92	9.92	Pass
LTE B2	1880	5.00	24.00	29.00	33.00	251.1886	0.1580	1.0000	9.00	13.01	9.00	Pass
LTE B4	1710.7	4.60	24.00	28.60	30.00	251.1886	0.1441	1.0000	6.00	13.01	6.00	Pass
LTE B5	824.70	2.90	24.00	24.75	38.45	251.1886	0.0974	0.5498	16.60	10.41	10.41	Pass
LTE B7	2502.50	4.07	24.00	28.07	33.00	251.1886	0.1276	1.0000	9.00	13.01	9.00	Pass
LTE B12	699.70	2.60	24.00	24.45	34.77	251.1886	0.0909	0.4665	12.92	9.70	9.70	Pass
LTE B13	779.50	2.60	24.00	24.45	34.77	251.1886	0.0909	0.5197	12.92	10.16	10.16	Pass
LTE B25	1850.7	5.00	24.00	29.00	33.00	251.1886	0.1580	1.0000	9.00	13.01	9.00	Pass
LTE B26(814-824)	814.7	2.90	24.00	24.75	50.00	251.1886	0.0974	0.5431	28.15	10.36	10.36	Pass
LTE B26(824-849)	824.7	2.90	24.00	24.75	38.45	251.1886	0.0974	0.5498	16.60	10.41	10.41	Pass
LTE B41	2498.5	4.07	24.00	28.07	33.00	251.1886	0.1276	1.0000	9.00	13.01	9.00	Pass
LTE B66	1710.7	4.60	24.00	28.60	30.00	251.1886	0.1441	1.0000	6.00	13.01	6.00	Pass
Bluetooth	2402	2.30	10.00	12.30	30.00	10.0000	0.0034	1.0000	20.00	27.01	20.00	Pass
2.4G WiFi	2412	2.30	17.50	19.80	30.00	56.2341	0.0190	1.0000	12.50	19.51	12.50	Pass
5G WiFi	5180	3.66	18.50	22.16	24.00	70.7946	0.0327	1.0000	5.50	18.51	5.50	Pass

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 / 2.0 in linear scale.



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3.1.4 Exposure calculations for multiple sources

When a number of sources at different frequencies, and/or broadband sources, contribute to the total exposure, it becomes necessary to weigh each contribution relative to the MPE in accordance with the provisions of Table(A) and Table(B). To comply with the MPE, the fraction of the MPE in terms of E2, H2 (or power density) incurred within each frequency interval should be determined and the sum of all such fractions should not exceed unity.

In order to ensure compliance with the MPE for a controlled environment, the sum of the ratios of the power density to the corresponding MPE should not exceed unity. That is

$$\sum_{i=1}^n \frac{S_i}{MPE_i} \leq 1$$

The product also has multiple transmitters The Simultaneous Transmission Possibilities are as below:

Simultaneous Tx Combination	Configuration
1	LTE + Bluetooth
2	LTE + WiFi 2.4G
3	LTE + WiFi 5G

No.	Mode	S(mw/cm2)	Calculation result	Limit	Conclusion
1	WCDMA Band II	0.1773	0.1807	1.00	Pass
	Bluetooth	0.0034			
	WCDMA Band II	0.1773	0.1963	1.00	Pass
	WiFi 2.4G	0.0190			
	WCDMA Band II	0.1773	0.2100	1.00	Pass
	WiFi 5G	0.0327			
2	WCDMA Band IV	0.1617	0.1651	1.00	Pass
	Bluetooth	0.0034			
	WCDMA Band IV	0.1617	0.1807	1.00	Pass
	WiFi 2.4G	0.0190			
	WCDMA Band IV	0.1617	0.1944	1.00	Pass
	WiFi 5G	0.0327			
3	WCDMA Band V	0.1984	0.2018	1.00	Pass
	Bluetooth	0.0034			
	WCDMA Band V	0.1984	0.2174	1.00	Pass
	WiFi 2.4G	0.0190			
	WCDMA Band V	0.1984	0.2312	1.00	Pass
	WiFi 5G	0.0327			
4	LTE Band 2	0.1580	0.1614	1.00	Pass
	Bluetooth	0.0034			
	LTE Band 2	0.1580	0.1770	1.00	Pass
	WiFi 2.4G	0.0190			



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	LTE Band 2	0.1580	0.1907	1.00	Pass
	WiFi 5G	0.0327			
5	LTE Band 4	0.1441	0.1475	1.00	Pass
	Bluetooth	0.0034			
	LTE Band 4	0.1441	0.1631	1.00	Pass
	WiFi 2.4G	0.0190			
	LTE Band 4	0.1441	0.1768	1.00	Pass
	WiFi 5G	0.0327			
6	LTE Band 5	0.1772	0.1806	1.00	Pass
	Bluetooth	0.0034			
	LTE Band 5	0.1772	0.1962	1.00	Pass
	WiFi 2.4G	0.0190			
	LTE Band 5	0.1772	0.2099	1.00	Pass
	WiFi 5G	0.0327			
7	LTE Band 7	0.1276	0.1309	1.00	Pass
	Bluetooth	0.0034			
	LTE Band 7	0.1276	0.1466	1.00	Pass
	WiFi 2.4G	0.0190			
	LTE Band 7	0.1276	0.1603	1.00	Pass
	WiFi 5G	0.0327			
8	LTE Band 12	0.1949	0.1983	1.00	Pass
	Bluetooth	0.0034			
	LTE Band 12	0.1949	0.2139	1.00	Pass
	WiFi 2.4G	0.0190			
	LTE Band 12	0.1949	0.2277	1.00	Pass
	WiFi 5G	0.0327			
9	LTE Band 13	0.1750	0.1784	1.00	Pass
	Bluetooth	0.0034			
	LTE Band 13	0.1750	0.1940	1.00	Pass
	WiFi 2.4G	0.0190			
	LTE Band 13	0.1750	0.2077	1.00	Pass
	WiFi 5G	0.0327			
11	LTE Band 25	0.1580	0.1614	1.00	Pass
	Bluetooth	0.0034			
	LTE Band 25	0.1580	0.1770	1.00	Pass
	WiFi 2.4G	0.0190			
	LTE Band 25	0.1580	0.1907	1.00	Pass
	WiFi 5G	0.0327			
12	LTE Band 26	0.1794	0.1828	1.00	Pass
	Bluetooth	0.0034			
	LTE Band 26	0.1794	0.1984	1.00	Pass
	WiFi 2.4G	0.0190			
	LTE Band 26	0.1794	0.2121	1.00	Pass
	WiFi 5G	0.0327			



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13	LTE Band 41	0.1276	0.1309	1.00	Pass
	Bluetooth	0.0034			
	LTE Band 41	0.1276	0.1466	1.00	Pass
	WiFi 2.4G	0.0190			
	LTE Band 41	0.1276	0.1603	1.00	Pass
	WiFi 5G	0.0327			
14	LTE Band 66	0.1441	0.1475	1.00	Pass
	Bluetooth	0.0034			
	LTE Band 66	0.1441	0.1631	1.00	Pass
	WiFi 2.4G	0.0190			
	LTE Band 66	0.1441	0.1768	1.00	Pass
	WiFi 5G	0.0327			

Output Power Into Antenna & RF Exposure Evaluation Distance:

Remark: Refer to report No. ZR/2020/2003101 for EUT test Max Conducted Output Power value.



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