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Report No.: SZEM180600485006

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### **RF Exposure Evaluation Report**

**Application No.**: SZEM1806004850RG **Applicant:** Fibocom Wireless Inc.

Address of Applicant 5/F, Tower A, Technology Building II, 1057 Nanhai Avenue, Shenzhen,

China

**Manufacturer:** Fibocom Wireless Inc.

Address of Manufacturer 5/F, Tower A, Technology Building II, 1057 Nanhai Avenue, Shenzhen,

China

Factory: Shenzhen Eternity Technology Co., Ltd

**Address of Factory:** 1F, 2F, 4F Building A2, Yingzhan Industrial Zone, Longtian Community, Longtian Road, Pingshan District, Shenzhen, Guangdong Province, P.R.

China

Product Name: LTE Module

Model No.(EUT): SC806-AM

Trade Mark: Fibocom

FCC ID: ZMOSC806AM Standards: 47 CFR Part 2

47 CFR Part 22 subpart H 47 CFR Part 24 subpart E 47 CFR Part 27 subpart C

47 CFR Part 15

Date of Receipt: 2018-07-08

**Date of Test:** 2018-07-10 to 2018-07-26

**Date of Issue:** 2018-08-13

Test Result: PASS\*

Authorized Signature:

Derek Yang

Derele yang

Wireless Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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### 1 Version

Revision Record									
Version	Chapter	Date	Modifier	Remark					
01		2018-08-13		Original					

Authorized for issue by:		
	Mike Hu/Project Engineer	2018-08-13
	David Chen	2018-08-13
	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 Avenue, Shenzhen, China			
Manufacturer:	Fibocom Wireless Inc.			
Address of Manufacturer:	5/F, Tower A, Technology Building II, 1057 Nanhai Avenue, Shenzhen, China			
Factory:	Shenzhen Eternity Technology Co., Ltd			
Address of Factory:	1F, 2F, 4F Building A2, Yingzhan Industrial Zone, Longtian Community, Longtian Road, Pingshan District, Shenzhen, Guangdong Province, P.R. China			

### 2.2 General Description of EUT

Product Name:	LTE Module	
Model No.: SC806-AM		
Trade Mark: Fibocom		
Hardware Version:	V1.0.1	
Software Version: 19060.1000.00.12.20.06		
Sample Type:	LTE Module	
Antenna Type:	Monopole Antenna	
	WCDMA BAND II:0.9dBi	
	WCDMA BAND IV:1.4dBi	
	WCDMA BAND V:-1dBi	
	LTE BAND 2:0.9dBi;	
	LTE BAND 4:1.4dBi;	
Antenna Gain:	LTE BAND 5:-1dBi;	
Antenna Gam.	LTE BAND 12: -1dBi	
	LTE BAND 13:-1dBi;	
	LTE BAND 17:-1dBi;	
	2.4G WiFi:2.5dBi;	
	5G WiFi:2.1dBi;	
	Bluetooth:2.5dBi;	

### 2.3 Test Mode

Test Mode	Test Modes Description
UMTS/TM1	UMTS system, WCDMA, QPSK modulation
UMTS/TM2	UMTS system, WCDMA, 16QAM modulation
LTE/TM1	LTE system, QPSK modulation
LTE/TM2	LTE system, 16QAM modulation

NOTE: The test mode(s) are selected according to relevant radio technology specifications.

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#### 2.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

### 2.5 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.

#### 2.6 Deviation from Standards

None.

#### 2.7 Abnormalities from Standard Conditions

None.

### 2.8 Other Information Requested by the Customer

None.



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### 3 RF Exposure Evaluation

### 3.1 RF Exposure Compliance Requirement

#### **3.1.1 Limits**

Frequency range (MHz)	ge Electric field strength (V/m) Magnetic field streng		Power density (mW/cm²)	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/f²)	6						
30-300	61.4	0.163	1.0	6						
300-1500	/	/	f/300	6						
1500-100,000	/	/	5	6						
	(B) Limits for Genera	l Population/Uncontrolle	d Exposure							
0.3-1.34	614	1.63	*(100)	30						
1.34-30	824/f	2.19/f	*(180/f²)	30						
30-300	27.5	0.073	0.2	30						
300-1500	/	/	f/1500	30						
1500-100,000	/	1	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: 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

Pd id 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

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

Output Power Into Antenna & RF Exposure Evaluation Distance:

Operating Band	Frequency (MHz)	Max Conducted Average Output Power (dBm)	EIRP(ERP) Limit (dBm)	Gain according to EIRP (dBi)
WCDMA BAND II	1852.40	24.50	33.00	8.50
WCDMA BAND IV	1712.40	24.50	30.00	5.50
WCDMA BAND V	826.40	24.50	38.45	16.10
LTE BAND 2	1850.70	24.00	33.00	9.00
LTE BAND 4	1710.70	24.00	30.00	6.00
LTE BAND 5	824.70	24.00	38.45	16.60
LTE BAND 12	699.70	24.00	34.77	12.92
LTE BAND 13	779.50	24.00	34.77	12.92
LTE BAND 17	706.50	24.00	34.77	12.92
Bluetooth	2402.00	8.00	30.00	/
2.4G WiFi	2412.00	16.00	30.00	/
5G WiFi	5180.00	13.50	24.00	/

Operating Band	Frequenc y (MHz)	Antenna Gain (dBi)	Max Conducted Average Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm²)	Limit (mW/cm <sup>2</sup> )	Max Gain	Result
WCDMA BAND II	1852.40	0.90	24.50	346.74	0.08	1.00	11.61	PASS
WCDMA BAND IV	1712.40	1.40	24.50	389.05	0.11	1.00	11.11	PASS
WCDMA BAND V	826.40	-1.00	24.50	136.46	0.02	0.55	13.07	PASS
LTE BAND 2	1850.70	0.90	24.00	309.03	0.08	1.00	12.11	PASS
LTE BAND 4	1710.70	1.40	24.00	346.74	0.10	1.00	11.61	PASS
LTE BAND 5	824.70	-1.00	24.00	121.62	0.02	0.55	13.56	PASS
LTE BAND 12	699.70	-1.00	24.00	121.62	0.02	0.47	12.85	PASS
LTE BAND 13	779.50	-1.00	24.00	121.62	0.02	0.52	13.31	PASS
LTE BAND 17	706.50	-1.00	24.00	121.62	0.02	0.47	12.89	PASS
Bluetooth	2402.00	2.50	8.00	11.22	0.01	1.00	/	PASS
2.4G WiFi	2412.00	2.50	16.00	70.79	0.56	1.00	/	PASS
5G WiFi	5180.00	2.10	13.50	36.31	0.16	1.00	/	PASS



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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

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

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 (mw/cm2)	WWAN Max Gain	Coclusion
	WCDMA BAND II	0.08	0.09	1.000		Pass
	Bluetooth	0.01	0.09	1.000		F d 5 5
4	WCDMA BAND II	0.08		1.000	8.05	Pass
1	WiFi 2.4G	0.56	0.64	1.000	0.03	r ass
	WCDMA BAND II	0.08		1.000		Pass
	WiFi 5G	0.16	0.24	1.000		1 833
	WCDMA BAND IV	0.11		1.000		Pass
	Bluetooth	0.01	0.12	1.000	7.55	F 455
2	WCDMA BAND IV	0.11		1.000		Pass
	WiFi 2.4G	0.56	0.67			1 400
	WCDMA BAND IV	0.11		1.000		Pass
	WiFi 5G	0.16	0.27			1 833
	WCDMA BAND V	0.02		1.000	12.1	Pass
	Bluetooth	0.01	0.03	1.000		F 433
3	WCDMA BAND V	0.02		1.000		Pass
	WiFi 2.4G	0.56	0.58	1.000		1 833
	WCDMA BAND V	0.02		1.000		Pass
	WiFi 5G	0.16	0.18	1.000		газэ
4	LTE BAND 2	0.08	0.00	1.000		Pass
	Bluetooth	0.01	0.09	1.000		1 433

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A	1	LTE DAND O					
Nife   24G   0.56   0.08   0.24   1.000   Pass				0.64	1.000	8.55	Pass
Nifi 5G			0.56				
Time			0.08	0.24	1.000		Pass
Bluetooth   0.01			0.16	0.21			
Siluctooth   0.01			0.10	0.11	1.000		Pass
No.		Bluetooth	0.01	0.11			
WiFi 2.4G   0.56   0.00	5	LTE BAND 4	0.10	0.66	1.000	8.05	Pass
WiFi 5G		WiFi 2.4G	0.56	0.00			
WiFi 5G		LTE BAND 4	0.10	0.26	1.000		Pass
Bluetooth 0.01  LTE BAND 5 0.02  WiFi 2.4G 0.56  LTE BAND 5 0.02  WiFi 5G 0.16  LTE BAND 12 0.02  Bluetooth 0.01  LTE BAND 12 0.02  WiFi 2.4G 0.56  LTE BAND 12 0.02  WiFi 5G 0.16  LTE BAND 12 0.02  WiFi 5G 0.16  LTE BAND 13 0.02  WiFi 2.4G 0.56  LTE BAND 13 0.02  WiFi 5G 0.16  LTE BAND 13 0.02  WiFi 5G 0.16  LTE BAND 13 0.02  WiFi 5G 0.16  LTE BAND 13 0.02  WiFi 2.4G 0.56  LTE BAND 13 0.02  WiFi 2.4G 0.56  LTE BAND 17 0.02  Bluetooth 0.01  LTE BAND 17 0.02  WiFi 2.4G 0.56  LTE BAND 17 0.02		WiFi 5G	0.16	0.26	1.000		. 400
Bluetooth 0.01 0.05 0.05 1.000 12.6 Pass 1.000 Pass		LTE BAND 5	0.02	0.00	1 000		Pass
No.		Bluetooth	0.01	0.03	1.000		1 435
WiFi 2.4G	6	LTE BAND 5	0.02	0.50	1 000	12.6	Page
NiFi 5G		WiFi 2.4G	0.56	0.58	1.000		1 433
Total Parish		LTE BAND 5	0.02	0.40	1 000		Pass
Bluetooth 0.01 0.03 1.000 Pass    Comparison of the comparison of		WiFi 5G	0.16	0.18	1.000		
Bluetooth 0.01 0.08 1.000 12.6 Pass    TEBAND 12 0.02		LTE BAND 12	0.02	0.03	1.000	12.6	Pass
7     WiFi 2.4G     0.56     0.58     1.000     12.6     Pass       LTE BAND 12     0.02     0.18     1.000     Pass       WiFi 5G     0.16     0.18     1.000     Pass       Bluetooth     0.01     0.03     1.000     Pass       LTE BAND 13     0.02     0.58     1.000     Pass       LTE BAND 13     0.02     0.18     1.000     Pass       WiFi 5G     0.16     0.18     1.000     Pass       LTE BAND 17     0.02     0.03     1.000     Pass       Bluetooth     0.01     0.03     1.000     Pass       LTE BAND 17     0.02     0.58     1.000     12.6     Pass       WiFi 2.4G     0.56     0.58     1.000     12.6     Pass		Bluetooth	0.01				
WiFi 2.4G       0.56       0.56       0.50       0.50       0.50       0.50       0.50       0.50       0.50       0.50       0.50       0.50       0.18       1.000       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.58       1.000       0.00	7	LTE BAND 12	0.02		1.000		Pass
NiFi 5G   0.16   0.18   1.000   Pass	'	WiFi 2.4G	0.56	0.58			
WiFi 5G		LTE BAND 12	0.02		1.000		Pass
Bluetooth 0.01 0.03 1.000 Pass    Bluetooth 0.01		WiFi 5G	0.16	0.18			
Bluetooth 0.01 0.05 12.6 Pass    LTE BAND 13   0.02   0.58   1.000   12.6     LTE BAND 13   0.02   0.18   1.000   Pass     WiFi 5G   0.16   0.02   0.03   1.000     LTE BAND 17   0.02   0.58   1.000   12.6   Pass     WiFi 2.4G   0.56   1.000   12.6   Pass     UTE BAND 17   0.02   0.58   0.58   Pass     UTE BAND 17   0.02   0.58   Pass     UTE BAND 17   0.02   0.58   Pass     UTE BAND 17   0.02   Pass     UTE BAND 18   0.02   Pass		LTE BAND 13	0.02		1.000		Page
8 WiFi 2.4G 0.56  LTE BAND 13 0.02  WiFi 5G 0.16  LTE BAND 17 0.02  Bluetooth 0.01  LTE BAND 17 0.02  WiFi 2.4G 0.56  LTE BAND 17 0.02  UIFI 2.4G 0.56  LTE BAND 17 0.02  The second of		Bluetooth	0.01	0.03			Pass
WiFi 2.4G	Ω	LTE BAND 13	0.02		1 000	12.6	Pacc
WiFi 5G     0.16       LTE BAND 17     0.02       Bluetooth     0.01       LTE BAND 17     0.02       WiFi 2.4G     0.56       LTE BAND 17     0.02       LTE BAND 17     0.02       LTE BAND 17     0.03		WiFi 2.4G	0.56	0.58	1.000		F 033
WiFi 5G 0.16 0.16  LTE BAND 17 0.02  Bluetooth 0.01  LTE BAND 17 0.02  WiFi 2.4G 0.56  LTE BAND 17 0.02  LTE BAND 17 0.02  The part of the		LTE BAND 13	0.02		1 000		Page
9 Bluetooth 0.01 0.03 1.000 Pass  LTE BAND 17 0.02 0.58 1.000 Pass  WiFi 2.4G 0.56 LTE BAND 17 0.02		WiFi 5G	0.16	0.18	1.000		Fa55
9		LTE BAND 17	0.02		1 000		Door
9 LTE BAND 17 0.02 0.58 1.000 12.6 Pass  LTE BAND 17 0.02		Bluetooth		0.03	1.000		Fa55
WiFi 2.4G 0.56 0.58 1.000 Pass  LTE BAND 17 0.02		LTE BAND 17			1.000	12.6	Dana
LTE BAND 17 0.02	9	WiFi 2.4G		0.58	1.000	.2.3	Pass
0.02		LTE BAND 17	0.02		4.000		Dess
WiFi 5G 0.16 1.000 Pass		WiFi 5G		0.18	1.000		Pass

According to the Table above, we can conclude that the calculation results of all simultaneous transmission possibilities are less than 1, so it is into compliance.

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Therefore the product also meets the requirements under multiple sources condition.

The Max allowed antenna gain is as following table showed:

Operating Band	Antenna Gain (dBi)
WCDMA BAND II	8.05
WCDMA BAND IV	5.50
WCDMA BAND V	12.1
LTE BAND 2	8.55
LTE BAND 4	6.00
LTE BAND 5	12.6
LTE BAND 12	12.6
LTE BAND 13	12.6
LTE BAND 17	12.6
Bluetooth	/
2.4G WiFi	1
5G WiFi	1

Note: Refer to report No. SZEM180600485001 for EUT test Max Conducted Peak Output Power value.

The distancer (6th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.