

Report No.: SZEM191202121302 Page: 1 of 6

## **SAR Evaluation Report**

Application No.:	SZEM1912021213CR
Applicant:	Fengmi(Beijing) Technology Co., Ltd
Address of Applicant:	301, 3F, Building 3, No.10, Barracks South Street Renhe Town, Shunyi District, Beijing, China
Manufacturer:	Fengmi (Beijing) Technology Co., Ltd
Address of Manufacturer:	301, 3F, Building 3, No.10, Barracks South Street, Renhe Town, Shunyi District, Beijing, China
Factory:	Jiangsu Huitong Group Co., Ltd
Address of Factory:	No.24, Block 2, Taohuawu New District, Zhenjiang, China
Equipment Under Test (EUT	):
EUT Name:	Bluetooth Remote Control
Model No.:	RC603-MG2, RC603-FG3, RC603-XXX (X=0-9, A-Z, indicates for different market purposes)
*	Please refer to section 4.1 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark:	Mi, FORMOVIE, TBD
FCC ID:	2AO2D-RC603-MG2
Standards:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2019-12-13
Date of Test:	2019-12-15 to 2019-12-30
Date of Issue:	2019-12-31
Test Result :	PASS*

\* In the configuration tested, the EUT complied with the standards specified above.

Keny. Xu

Keny Xu EMC Laboratory Manager



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## 2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-12-31		Original

Authorized for issue by:		
	later	
	Leo Lai /Project Engineer	-
	Evic Fu	
	Eric Fu /Reviewer	-



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## 4 General Information

## 4.1 General Description of EUT

Power Supply:	DC 3.0V (LR03 AAA 1.5V*2)
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V4.2 LE
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	1.5dBi

#### **Declaration of EUT Family Grouping:**

Model No.: RC603-MG2, RC603-FG3, RC603-XXX (X=0-9, A-Z, indicates for different market purposes)

Only the model RC603-MG2 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on market purposes.



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## 4.2 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.

## 4.3 Test Facility

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

#### 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.

#### Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

## 4.4 Deviation from Standards

None.

## 4.5 Abnormalities from Standard Conditions

None.

## 4.6 Other Information Requested by the Customer

None.



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## 5 SAR Evaluation

### 5.1 RF Exposure Compliance Requirement

#### 5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### 5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot$  [ $\sqrt{f}(GHz)$ ]  $\leq$  3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

#### 5.1.3 EUT RF Exposure

The Max. power (including tune-up tolerance) is 0.41 dBm on the highest channel 2.48 GHz (\*) 0.41 dBm logarithmic terms convert to numeric result is nearly 1.10 mW According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot$  [vf(GHz)]

General RF Exposure = (1.10 mW / 5 mm) x $\sqrt{2.48}$ GHz = 0.35	(1)
SAR requirement:	
<i>S</i> = <i>3</i> .0	(2)
(1) < (2)	
So the SAP report is not required	

So the SAR report is not required.

(\*) Max. power refer to Report No.:SZEM191202121301

#### - End of the Report -



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