

Report No.: SZEM200100052103

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## TEST REPORT

Application No.: SZEM2001000521CR

**Applicant:** Shenzhen Jimi IOT Co., Ltd

Address of Applicant: Floor 4th, Building C, Gaoxinqi Industrial Park, Liuxian 1st Road, District 67,

Bao'an, ShenZhen · China

Manufacturer: Shenzhen Jimi IOT Co., Ltd

Address of Manufacturer: Floor 4th, Building C, Gaoxinqi Industrial Park, Liuxian 1st Road, District 67,

Bao'an, ShenZhen · China

Factory: Huizhou Jimi Made Technology Co., Ltd.

Address of Factory: Plant 12, Songyang Road, Hi-tech Industrial Development Zone, Huizhou,

Guangdong, China

**Equipment Under Test (EUT):** 

**EUT Name:** Asset GPS Tracker

Model No.: JM-LL01
Trade mark: JIMI

FCC ID: 2AMLF-JM-LL01 Standard(s): 47 CFR Part 1.1307,

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

**Date of Receipt:** 2020-01-16

**Date of Test:** 2020-01-16 to 2020-01-23

**Date of Issue:** 2020-02-13

Test Result: Pass

Keny Xu EMC Laboratory Manager



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



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	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		2020-02-13		Original	

Authorized for issue by:		
	fore & Boro	
	Powell Bao /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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## **General Information**

## Details of E.U.T.

Power Supply:	Powered by DC 3.7V industrial grade lithium polymer battery.
Cable:	USB Cable(Unshielded, 103cm)
Antenna Gain:	-1.5dBi
Antenna Type:	Integral Antenna
Bluetooth Version:	V4.2 LE
Channel Spacing:	2MHz
Modulation Type:	GFSK
Number of Channels:	40
Operation Frequency:	2402MHz to 2480MHz



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### 3.2 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.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

## 3.3 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.

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.

## 3.4 Deviation from Standards

## 3.5 Abnormalities from Standard Conditions

None



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## **Radio Spectrum Technical Requirement**

## **RF Exposure**

## 4.1.1 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-q 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.

### **4.1.2 Limits**

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

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

### 4.1.3 EUT RF Exposure

Note: The BLE and LTE Cat M1 & Cat NB2 & EGPRS Module can't synchronous transmission at the same time.

BLE:

The Max. power (including tune-up toleranc -1.5 dBm on the lowest channe 2.44 GHz (\*) -1.50 dBm logarithmic terms convert to numeric result is nearly 0.71 mW

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, n

General RF Exposure = (0.71 mW / 5 mm) x  $\sqrt{2.44}$  GHz = 0.22 (1)

SAR requirement:

S = 3.0(2)

(1) < (2)

So the SAR report is not required.

(\*) Max. power refer to Report No.:SZEM200100052102

- End of the Report -



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