



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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251100500803

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RF EXPOSURE EVALUATION REPORT

Application No.: SZCR2511005008AT
Applicant: Shenzhen Jimi IoT Co., Ltd.
Address of Applicant: 3-4/F, Block A, Building #7, Shenzhen International Innovation Valley, Dashi 1st Road, Nanshan District Shenzhen, China
Manufacturer: Shenzhen Jimi IoT Co., Ltd.
Address of Manufacturer: 3-4/F, Block A, Building #7, Shenzhen International Innovation Valley, Dashi 1st Road, Nanshan District, Shenzhen, Guangdong, China
Factory: Huizhou Newthinking Electronics Co., Ltd.
Address of Factory: 3-6F, Block 2, Building No. 1, Renluo Fifth Road, Shuikou Street, Huicheng District, Huizhou City, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Electronic Logging Device
Model No.: VL533, VL533 Pro, VL534, VL534 Pro, VL535, VL535 Pro, VL536, VL536 Pro, VL537, VL537 Pro, VL538, VL538 Pro, VL539, VL539 Pro ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Jimi IoT
FCC ID: 2AMLF-VL533
Standard(s): FCC Rules 47 CFR §2.1091
KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt: 2025-11-13
Date of Evaluation: 2025-11-21 to 2025-12-24
Date of Issue: 2026-01-04

Evaluation Result:

Pass*

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

Kenx. Xu

Kenx Xu

EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-01-04		Original

Authorized for issue by:				
		Darren Yuan		
		Darren Yuan/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		

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3 General Information

3.1 General Description of E.U.T.

Product Type:	☐ Portable device
	☒ Mobile device
	☐ Fixed device

3.2 Details of E.U.T.

Power supply:	DC 9V to 33V 270 mAh, 3.7V Li-Polymer battery
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	FPC Antenna
Antenna Gain:	1.88dBi

**LTE Module (model: EG800Q-NA), this LTE module has certified,
FCC ID is XMR2023EG800QNA**

For LTE:

Frequency band:	LTE Band	Uplink (MHz)	Downlink (MHz)
	2	1850 to 1910	1930 to 1990
	4	1710 to 1755	2110 to 2155
	5	824 to 849	869 to 894
	12	699 to 716	729 to 746
	13	777 to 787	746 to 756
	66	1710 to 1780	2110 to 2180
Type of Modulation:	UL QPSK, 16QAM DL QPSK, 16QAM		
Antenna Type:	FPC Antenna		
Antenna Gain:	LTE Band2: 1.59dBi		
	LTE Band4: 2dBi		

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	LTE Band5: 2.53dBi
	LTE Band12: 3.95dBi
	LTE Band13: 4.45dBi
	LTE Band66: 2dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Declaration of EUT Family Grouping:

Model No.: VL533, VL533 Pro, VL534, VL534 Pro, VL535, VL535 Pro, VL536, VL536 Pro, VL537, VL537 Pro, VL538, VL538 Pro, VL539, VL539 Pro

Only the model VL533 was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model name.

3.3 Separation Distance

Minimum test separation distance:	20cm
Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.	



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3.4 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, Nanshan District, Shenzhen, Guangdong, China. 518057.

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No tests were sub-contracted.

3.5 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 (Member No. 1937)

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. Shenzhen EMC laboratory 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

• 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.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions

None



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4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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, $\pi = 3.1416$



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4.2 EUT RF Exposure Evaluation

RF Exposure Evaluation Distance: 20cm

Standalone transmission:

WWAN use Internal Antenna

Mode	Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Ratio	Verdict
BLE	2480	0.63	1.88	0.0004	1.000	0.0004	Pass
LTE band 2	1880	23.63	1.59	0.066	1.000	0.066	Pass
LTE band 4	1745	23.44	2	0.070	1.000	0.070	Pass
LTE band 5	863.5	23.57	2.53	0.081	0.576	0.141	Pass
LTE band 12	711	23.47	3.95	0.110	0.474	0.232	Pass
LTE band 13	782	23.57	4.45	0.126	0.521	0.242	Pass
LTE band 66	1770	23.58	2	0.072	1.000	0.072	Pass

Note1: Maximum power of BLE Refer to report SZCR251100500802

Note2: Maximum power of LTE refer to module report FG362719

Simultaneous transmission

Test Mode	BLE	LTE Module	Total Ratio	Limit	Verdict
Maximum Ratio	0.002	0.074	N/A	N/A	N/A
Scenario 1	☒	☒	0.076	1.0	Pass

The EUT meet the Exemption Limits for Routine Evaluation – SAR Evaluation, so no SAR evaluation is required for the EUT.

5 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2511005008AT

-End of the Report-



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