

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100044403

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RF EXPOSURE EVALUATION REPORT

Application No.: FYCR2211000444AT

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 China

Factory: Shenzhen Jimi IoT Co., Ltd.

Address of Factory: 3-4/F, Block A, Building#7, Shenzhen International Innovation Valley, Dashi

1st Road, Nanshan District ShenZhen China

Equipment Under Test (EUT):

EUT Name: LTE Vehicle Terminal

Model No.: VL103 Trade Mark: JIMI

FCC ID: 2AMLF-VL103D

Standard(s): FCC Rules 47 CFR §2.1091

KDB 447498 D04 interim General RF Exposure Guidance v01

Date of Receipt: 2022-11-09

Date of Evaluation: 2022-11-12 to 2022-11-18

Date of Issue: 2022-12-07

Evaluation Result: Pass*

Winkey Wang EMC Technical Manager

WinkeyWang



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



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	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2022-12-07		Original				

Authorized for issue by:		
	Tree Zhan	
	Tree Zhan/Project Engineer	_
	WinkeyWarg	
	Winkey Wang/Reviewer	-



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3 General Information

3.1 G	eneral	Descript	tion of	E.U.T.
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	☐ Portable device
Product Type:	⊠ Mobile device
	☐ Fixed device

3.2 Details of E.U.T.

3.2	Details of E.U.I.	
	Power Supply:	Input: 9-90V DC
		Battery information
		Model: PL432033S
		Rated voltage: DC 3.7V
		Capacity: 270mAh 1.0Wh
	Cable:	Power cable 100cm
	For BLE	
	Operation Frequency:	2402MHz to 2480MHz
	Bluetooth Version:	V5.0 LE
	Modulation Type:	GFSK
	Number of Channels:	40
	Channel Spacing:	2MHz
	Antenna Type:	PIFA
	Antenna Gain:	1.33dBi
	For GSM	
	Operation Frequency Band:	GSM850/PCS1900
	Antenna Type:	PIFA antenna
	Antenna Gain:	GSM850: -1.5dBi; PCS1900: 0.7dBi
	For LTE	
	LTE Operation Frequency Band:	LTE Band 2,4,5,7
	Antenna Type:	PIFA Antenna
		LTE Band 2: 0.7dBi
	Antenna Gain:	LTE Band 4: 0.7dBi
	Antenna Galli.	LTE Band 5: -1.5dBi
		LTE Band 7: 0.7dBi

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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:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.5 Test Facility

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

A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC -Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions

None



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4 FCC Radiofrequency radiation exposure limits

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

4.1 Blanket 1 mW Blanket Exemption

The 1 mW Blanket Exemption of §1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

The 1-mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph §1.1307(b)(3)(ii)(A).

The 1-mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

4.2 MPE-based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table B.1—Thresholds For Single RF Sources Subject to Routine Environmental Evaluation

RF Source Frequency			Minimum Distance			Threshold ERP
f∟ MHz		f _H MHz	λ∟ / 2π	λ _L / 2π		W
0.3	_	1.34	159 m	_	35.6 m	1,920 R ²
1.34	_	30	35.6 m	_	1.6 m	3,450 R ² /f ²
30	-	300	1.6 m	_	159 mm	3.83 R ²
300	_	1,500	159 mm	_	31.8 mm	0.0128 R ² f
1,500	_	100,000	31.8 mm	_	0.5 mm	19.2R ²

Subscripts L and H are low and high; λ is wavelength.

From §1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.

The table applies to any RF source (i.e. single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are



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based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator.

For mobile devices that are not exempt per Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in §1.1310 is necessary if the ERP of the device is greater than *ERP*_{20cm} in Formula (B.1) [repeated from §2.1091(c)(1); also in §1.1307(b)(1)(i)(B)].

$$P_{\text{th}} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B. 1)

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

Limit calculation							
Frequency range	R(λ/2π)(m)	Threshold ERP(W)					
300~1500MHz	915	0.0522	0.032				
1500~100000MHz	2480	0.0193	0.007				

4.3 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of $\lambda/4$.

As for devices with antennas of length greater than $\lambda/4$ where the gain is not well defined, but always less than that of a half-wave dipole (length $\lambda/2$), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.



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The SAR-based exemption formula of $\S1.1307(b)(3)(i)(B)$, repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(B. 2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1).



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Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

								,		
Frequency	Distance(mm)									
(MHz)	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

Limit calculation						
Frequency range(GHz) Frequency(GHz) X Distance(cm) Pth (mW						
0.3~1.5	0.824	1.405	20	1680.960		
1.5~6	2.48	1.905	20	3060.000		



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5 Measurement and Calculation

5.1 Maximum transmit power

BLE:

Test Mode	Test Channel	Maximum power [dBm]	Maximum power (mW)	Limit(mW)	Ratio	Verdict
BLE	2402	6.61	4.58	3060.00	0.001	Pass

The maximum power value is based on the RF Test Report FYCR221100044402

LTE Module:

Test Mode	Maximum power [dBm]	Maximum power (mW)	Limit(mW)	Ratio	Verdict
GSM850	27.00	501.19	1680.96	0.298	Pass
GSM1900	24.70	295.12	3060	0.096	Pass
LTE Band 2	25.70	371.54	3060	0.121	Pass
LTE Band 4	25.60	363.08	3060	0.119	Pass
LTE Band 5	25.00	316.23	1680.96	0.188	Pass
LTE Band 7	26.50	446.68	3060	0.146	Pass

Note: The maximum power value is based on the module test report BL-SZ2270935-701

Simultaneous transmitting

BLE+LTE Module

Ratio of Power (mW) of BLE at R = 20 cm	Ratio of Power (mW) of LTE module at R = 20 cm	Total ratios of simultaneous transmitting at R =20cm	Limit	Result
0.001	0.298	0.299	1.0	PASS



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5.2 RF Exposure Calculation

Remark: we used the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation.

For BLE:

The Max Power is 4.58mW. The best case gain of the antenna is 1.33dBi.

For LTE module:

The Max Power is 501.19mW. The best case gain of the antenna is -1.5dBi.

	Evaluation method	Exempt Limit(mW)	Verdict
	Blanket 1 mW Blanket Exemption	1mW	N/A
	MPE-based Exemption(ERP)	7mW(ERP)	N/A
\boxtimes	SAR-based Exemption($P_{ ext{th}}$)	3060	Yes

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report.

-- End of the Report--



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