



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  
Email: ee.shenzhen@sgs.com


Report No.: SZEM170800874303  
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## 1 Cover Page

# ***FCC RF Exposure REPORT***



<b>Application No.:</b>	SZEM1708008743CR
<b>Applicant:</b>	ZIMI CORPORATION
<b>FCC ID:</b>	2AMIN- LYYX01ZM
<b>Equipment Under Test (EUT):</b> <b>NOTE:</b> The following sample(s) submitted was/were identified on behalf of the client as	
<b>Product Name:</b>	Pocket Speaker
<b>Model No.(EUT):</b>	LYYX01ZM
<b>Standards:</b>	FCC Rules 47 CFR §2.1093 KDB 447498 D01 General RF Exposure Guidance v06
<b>Date of Receipt:</b>	2017-07-17
<b>Date of Test:</b>	2017-07-10 to 2017-08-30
<b>Date of Issue:</b>	2017-08-31
<b>Test Result:</b>	<b>Pass*</b>

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

 Jack Zhang  
EMC 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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<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
00		2017-08-31		Original

<b>Authorized for issue by:</b>			
<b>Tested By</b>		 <hr/> <b>Foray Chen /Project Engineer</b>	2017-08-31 <hr/> <b>Date</b>
<b>Checked By</b>		 <hr/> <b>Eric Fu /Reviewer</b>	2017-08-31 <hr/> <b>Date</b>

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### 3 General Information

#### 3.1 Client Information

Applicant:	ZIMI CORPORATION
Address of Applicant:	Room A913, No.159 Chengjiang Road, Jiangyin City, Jiangsu Province, 214431, P.R.C
Manufacturer:	ZIMI CORPORATION
Address of Manufacturer:	Room A913, No.159 Chengjiang Road, Jiangyin City, Jiangsu Province, 214431, P.R.C
Factory:	<ol style="list-style-type: none"> <li>1. Tian Yu Communication Technology (KunShan) Co., Ltd.</li> <li>2. Hangzhou Manko Technology Co., Ltd.</li> <li>3. Tianjin Zowee Technology Development Co., Limited</li> <li>4. Leung's Communication &amp; Electric Products (Guangzhou) Ltd.</li> <li>5. Kunshan Xuanchuang Electronic Co., Ltd</li> </ol>
Address of Factory:	<ol style="list-style-type: none"> <li>1. No.1 Jin Zhu Road, ,Lujia Town,Kunshan City,Jiangsu Province ,China</li> <li>2. No.77 Chunchao Road, Xiaoshan Economic&amp; Technological Development Zone, Hangzhou, China</li> <li>3. No.71 South Street Xinhuan.West Zone.Economic Development Zone of Tianjin,Tianjin,China.</li> <li>4. No. 39 Nanyunsan Road, Science Park, Hi-Tech Industrial Development Zone, Guangzhou, 510663, Guangdong, China</li> <li>5. No.218 Changxing Ease Road, Zhoushi Town, KunShan City, Jiangsu Province, 215300, P.R.C.</li> </ol>

#### 3.2 General Description of E.U.T.

Product Name	Pocket Speaker
Model No.:	LYYX01ZM
Product Description:	Portable product with BT function
Battery:	DC 3.7V, 1200mAh rechargeable Li-ion battery
Test Voltage:	AC 120V, 60Hz

#### 3.3 Technical Specifications

Operation Frequency:	2402MHz-2480MHz
Bluetooth Version:	BT 4.1 classic mode
Modulation Type:	GFSK, $\pi/4$ DQPSK,8DPSK
Number of Channel:	79
Antenna Type	PCB Antenna
Antenna Gain	-1.71dBi

### 3.4 Test Location

II 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.

### 3.5 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 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 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.

## 4 Test Standards and 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:

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

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds

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 according to 4.1 f) is applied to determine SAR test exclusion.

For 2.4G band device, the limit of worse case is

$$P_{\text{max}} \leq 3.0 \cdot D_{\text{min}} / \sqrt{f} = 3.0 \cdot 5 / \sqrt{2.480} = 9.525 \text{mW}$$

## 5 Measurement and Calculation

### 5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM170800874302.

**Test Data:**

Test mode	Channel	Peak Power (dBm)	Peak Power (mW)
GFSK	2402	1.541	1.43
	2441	5.336	<b>3.42</b>
	2480	4.788	3.01
π/4DQPSK	2402	-0.628	0.87
	2441	3.624	2.30
	2480	2.872	1.94
8DPSK	2402	-0.428	0.91
	2441	3.879	2.44
	2480	3.176	2.08

### 5.2 RF Exposure Calculation

The Max Conducted Peak Output Power is 3.42mW.

According to the result:

Peak Power= 3.42mW < 9.525mW

So the SAR report is not required.

## 6 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

**--End of the Report--**