## RF EXPOSURE REPORT



Report No.: 16071113-FCC-H

Supersede Report No.: N/A

Applicant	ShenZhen ShiYi Technology Co.,Ltd.				
Product Name	Bluetooth headset				
Model No.	MA-2671	MA-2671			
	SY-030 \SY-031 \				
	SY-032\S	<b>/-033</b> \			
Serial No.	SY-034\S\	<b>′-</b> 035\			
	SY-036\S\	<b>∕-037</b> ∖			
	SY-038\S	<b>/-039</b> \			
Test Standard	FCC 2.109	3:2015			
Test Date	September	<sup>2</sup> 29 to October 11, 2016			
Issue Date	October 12	, 2016			
Test Result	Pass	Fail			
Equipment compl	ied with the	specification			
Equipment did no	t comply wit	h the specification			
LOVER LUO David Huang					
Loren Lu	o	David Huang			
Test Engir	neer	Checked By	國際化常常國家科学科教育		
This test report may be reproduced in full only					
Test result presented in this test report is applicable to the tested sample only					
Issued by:					
SIEMIC (SHENZHEN-CHINA) LABORATORIES					
Zone A, Floor 1, Building 2 Wan Ye Long Technology Park					
South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108					

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## Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

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Country/Region	Scope		
USA	EMC, RF/Wireless, SAR, Telecom		
Canada	EMC, RF/Wireless, SAR, Telecom		
Taiwan	EMC, RF, Telecom, SAR, Safety		
Hong Kong	RF/Wireless, SAR, Telecom		
Australia	EMC, RF, Telecom, SAR, Safety		
Korea	EMI, EMS, RF, SAR, Telecom, Safety		
Japan	EMI, RF/Wireless, SAR, Telecom		
Singapore	EMC, RF, SAR, Telecom		
Europe	EMC, RF, SAR, Telecom, Safety		

### Accreditations for Conformity Assessment



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## 1. Report Revision History

Report No.	Report Version	Description	Issue Date		
16071113-FCC-H	NONE	Original	October 12, 2016		

## 2. Customer information

Applicant Name	ShenZhen ShiYi Technology Co.,Ltd.			
Applicant Add	Unite B,3/F., Building 29, Yintian Industrial Zone, XiXiang, Baoan District			
Manufacturer	ufacturer ShenZhen ShiYi Technology Co.,Ltd.			
Manufacturer Add	Unite B,3/F., Building 29, Yintian Industrial Zone, XiXiang, Baoan District			

## 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES			
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park			
Lab Address	outh Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China			
	518108			
FCC Test Site No.	718246			
IC Test Site No.	4842E-1			
Test Software	Radiated Emission Program-To Shenzhen v2.0			



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## 4. Equipment under Test (EUT) Information

Description of EUT:	Bluetooth headset
Main Model:	MA-2671
Serial Model:	SY-030 \SY-031 \ SY-032\SY-033\ SY-034\SY-035\ SY-036\SY-037\ SY-038\SY-039\
Date EUT received:	September 28, 2016
Test Date(s):	September 29 to October 11, 2016
Antenna Gain:	0dBi
Antenna Type:	PCB antenna
Type of Modulation:	GFSK, π /4DQPSK, 8DPSK
RF Operating Frequency (ies):	2402-2480 MHz(TX/RX)
Number of Channels:	79CH
Port:	USB Port
Input Power:	Spec: 3.7V USB: 5V
Trade Name :	N/A
FCC ID:	2AEAMMA-2671



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# 5. <u>FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable</u> devices.

### 5.1 RF Exposure

#### Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission' s guidelines.

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)].

- $\left[\sqrt{f_{(GHz)}}\right] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR,<sup>16</sup> where
- f<sub>(GHz)</sub> 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  $\leq$  5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

### result = $P\sqrt{F}/D$

P= Maximum turn-up power in mW

- F= Channel frequency in GHz
- D= Minimum test separation distance in mm



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## 5.2 Test Result

## **Bluetooth Mode:**

Modulation	СН	Freque ncy	Conducted Power	Tune Up Power	Max Tune Up Power	Max Tune Up Power	Result	Limit
		(MHz)	(dBm)	(dBm)	(dBm)	(mW)		
	Low	2402	-6.206	-6±1	-5	0.316	0.10	3
GFSK	Mid	2441	-5.517	-6±1	-5	0.316	0.10	3
	High	2480	-6.873	-6±1	-5	0.316	0.10	3
	Low	2402	-4.788	-5±1	-4	0.398	0.12	3
π /4 DQPSK	Mid	2441	-4.018	-5±1	-4	0.398	0.12	3
	High	2480	-5.395	-5±1	-4	0.398	0.13	3
8-DPSK	Low	2402	-4.688	-4.5±1	-3.5	0.447	0.14	3
	Mid	2441	-3.922	-4.5±1	-3.5	0.447	0.14	3
	High	2480	-5.154	-4.5±1	-3.5	0.447	0.14	3

### Result: Compliance

No SAR measurement is required.