SGS-CSTC Standards Technical Services
(Shanghai) Co., Ltd.

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1 Cover Page

FCC MPE REPORT

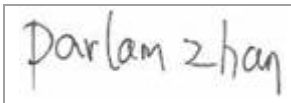
Application No.:	SHEM1604002380CR
Applicant:	Changzhou Sound Dragon Electronics And Acoustics Co., Ltd.
FCC ID:	2AGOQ-Y641
Equipment Under Test (EUT): **NOTE:** The following sample(s) submitted was/were identified on behalf of the client as	
Product Name:	Bluetooth Speaker
Model No.(EUT):	Y641
Standards:	FCC Rules 47 CFR §2.1093 KDB 447498 D01 General RF Exposure Guidance v06
Date of Receipt:	2016-04-26
Date of Test:	2016-05-03 to 2016-05-153
Date of Issue:	2016-06-06
Test Result:	**Pass***

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

Parlam Zhan
E&E Section Manager
SGS-CSTC (Shanghai) Co., Ltd.

2 Version

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
00	/	2016-06-06	/	Original

Authorized for issue by:				
Engineer		Eddy Zong **Print Name**		
Clerk		Susie Liu **Print Name**		
Reviewer		Parlam Zhan **Print Name**		

3 Contents

4 General Information

4.1 Client Information

Applicant:	Changzhou Sound Dragon Electronics And Acoustics Co., Ltd.
Address of Applicant:	128 Zhenzhong Road, Xixiashu, New District, Changzhou, Jiangsu, 213135, P.R.China
Manufacturer:	Changzhou Sound Dragon Electronics And Acoustics Co., Ltd.
Address of Manufacturer:	128 Zhenzhong Road, Xixiashu, New District, Changzhou, Jiangsu, 213135, P.R.China
Factory:	Changzhou Sound Dragon Electronics And Acoustics Co., Ltd.
Address of Factory:	128 Zhenzhong Road, Xixiashu, New District, Changzhou, Jiangsu, 213135, P.R.China

4.2 General Description of E.U.T.

Product Description:	Mobile product with BT function		
Battery:	3.7 V DC, 4.4AH Li-on Rechargeable Battery		
Adapter:	Manufacturer:	SHENZHEN PENGSHENGYE ELECTRONIC CO.,LTD	
	Model No.	SAPA05005US	
	Rated Input:	100~240V AC, 50/60Hz Max. 0.6A	
	Rated Output:	DC 5.0V 1A	
	Cable length:	AC port:	2wires
		DC port:	60 cm

4.3 Technical Specifications

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	4.0 dual mode
Modulation Technique:	GFSK FHSS(GFSK, π/4DQPSK, 8DPSK)
Number of Channel:	BLE mode: 40 Classic mode: 79
Antenna Type	Integral PCB Antenna
Antenna Gain	0 dBi

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

No.588 West Jindu Road, Songjiang District, Shanghai, China.201612.

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

4.5 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. 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. Date of expiry: 2017-07-14.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2017-09-16.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1. Expiry Date: 2017-06-18.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-2221, G-830 respectively. Date of Expiry: 2017-11-16.

5 Test Standards and 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)/(min test separation distance)]*[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 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
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds

The practical use condition for this device is for someone carry it to listen music. So the applicable limit is 10-g extremity SAR

The minimum antenna separation distance to the front interface is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

$P_{max} \leq 7.5 * D_{min} / \sqrt{f} = 7.5 * 5 / \sqrt{2.480} = 23.8 mW$

6 Measurement and Calculation

6.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM160400238002 & SHEM160400238002

Test Mode		Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
Classic	GFSK	2402	-2.25	0.60
		2441	-2.71	0.54
		2480	-2.93	0.51
	π/4DQPSK	2402	-1.08	0.78
		2441	-1.19	0.76
		2480	-1.42	0.72
	8DPSK	2402	**-0.32**	**0.93**
		2441	-0.95	0.80
		2480	-1.13	0.77
BLE		2402	-3.55	0.44
		2441	-3.43	0.45
		2480	-3.49	0.45

6.2 MPE Calculation

The Max Conducted Peak Output Power is 0.93mW in Lowest channel of 8DPSK;

The best case gain of the antenna is 0dBi. 0dB logarithmic terms convert to numeric result is nearly 1.0.

EIRP= P x G = 0.93 mW x 1.0 = 0.93mW < 23.8mW

So the SAR report is not required.

7 EUT Constructional Details

Refer to the < Y641 _External Photos > & < Y641 _Internal Photos >.

--End of the Report--