

Report No.: EED32K00293603 Page 1 of 7

RF Exposure Evaluation Report

Product: Multi-Functional Wireless Speaker

Trade mark : WOW!dea

SKOIN, M5, M5A, M5B, M5C,

Model/Type reference : M5D,M5E, M5F, M5T, M5S, M5y

(y=Refer to Different Color and

Package Set Code)

Serial Number : N/A

Report Number : EED32K00293603

FCC ID : 2AJIX-M5

Date of Issue : May 13, 2019

47 CFR Part 1.1307

Test Standards : 47 CFR Part 2.1093

KDB 447498 D01v06

Test result : PASS

Prepared for:

Shenzhen Hongyi Science & Technology Development Co., Ltd. Unit 601-602, Building No. A4, East Industrial Park of OCT, Nanshan District, Shenzhen, China

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

Reviewed by:

May 13, 2019

Compiled by:

Review Lan

Kevin Jan

Kevin Jan

Kevin yang

Check No.: 3757538892

Hotline: 400-6788-333 www.cti-cert.com E-mail: info@cti-cert.com Complaint call: 0755-33681700 Complaint E-mail: complaint@cti-cert.com









Page 2 of 7

Report No.: EED32K00293603

2 Version

Version No.	Date		Description	
00	May 13, 2019		Original	
		(3)	(II)	(3)
			(0)	0

















































































Page 3 of 7

Report No.: EED32K00293603

3 Contents

	Page
1 COVER PAGE	1
2 VERSION	2
3 CONTENTS	3
4 GENERAL INFORMATION	4
4.1 CLIENT INFORMATION	4
4.2 GENERAL DESCRIPTION OF EUT	4
4.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	4
4.4 TEST LOCATION	5
4.5 DEVIATION FROM STANDARDS	
4.6 ABNORMALITIES FROM STANDARD CONDITIONS	
4.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER	
5 SAR EVALUATION	6
5.1 RF EXPOSURE COMPLIANCE REQUIREMENT	6
5.1.1 Standard Requirement	6
5.1.2 Limits	
5.1.3 EUT RF Exposure	
PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	7



















































4 General Information

4.1 Client Information

Applicant:	Shenzhen Hongyi Science & Technology Development Co., Ltd.
Address of Applicant:	Unit 601-602, Building No. A4, East Industrial Park of OCT, Nanshan District, Shenzhen, China
Manufacturer:	Shenzhen Hongyi Science & Technology Development Co., Ltd.
Address of Manufacturer:	Unit 601-602, Building No. A4, East Industrial Park of OCT, Nanshan District, Shenzhen, China
Factory:	Shenzhen Hongyi Science & Technology Development Co., Ltd.
Address of Factory:	Unit 601-602, Building No. A4, East Industrial Park of OCT, Nanshan District, Shenzhen, China

4.2 General Description of EUT

Product Name: Multi-Functional Wireless Speaker	
Model No.:	SKOIN, M5, M5A, M5B, M5C, M5D, M5E, M5F, M5T, M5S, M5y (y=Refer to Different Color and Package Set Code)
Test model No.:	M5
Trade mark:	WOW!dea
EUT Supports Radios application:	BT: 4.2 BT Dual mode: 2402MHz to 2480MHz

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz to 2480MHz			
Modulation Type:	GFSK,π/4DQPSK, 8DPSK	13		
Test Power Grade:	N/A	(6)		
Test Software of EUT:	N/A			
Antenna Type:	PCB Antenna			
Antenna Gain:	-0.58dBi			
Power Supply:	DC 12V, Battery 7.4V			
0 1 1 1 0 1 0 1	2.744dBm			
Conducted Peak Output Power:	The Conducted Peak Output Power data refer to the report EED32K00293601, EED32K00293602			
Hardware Version:	V4.0(manufacturer declare)	12		
Firmware Version:	V4.0(manufacturer declare)	6		
Sample Received Date:	Oct. 30, 2018			
Sample tested Date:	Jan. 31, 2019 to Apr. 20, 2019			
Domark	ath ath ath			

Remark:

The tested sample(s) and the sample information are provided by the client.

Model No.: SKOIN, M5, M5A, M5B, M5C, M5D, M5E, M5F, M5T, M5S, M5y (y=Refer to Different Color and Package Set Code)

Only the model M5 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being outer decoration.

Hotline: 400-6788-333 www.cti-cert.com E-mail: info@cti-cert.com Complaint call: 0755-33681700 Complaint E-mail: complaint@cti-cert.com









Page 5 of 7

Report No.: EED32K00293603

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None

4.7 Other Information Requested by the Customer

None.











































































Report No.: EED32K00293603 Page 6 of 7

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 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, including tune-up tolerance, mW)/(min. test separation distance, mm)] [$\sqrt{f(GHz)}$] ≤ 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 before calculation 17

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

5.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is 2.744dBm in highest channel(2.480GHz);

The best case gain of the antenna is -0.58dBi.

EIRP= 2.744dBm + -0.58dBi = 2.164dBm

2.164dBm logarithmic terms convert to numeric result is nearly 1.65mW

According to the formula. calculate the EIRP test result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$]

General RF Exposure = $(1.65 \text{mW} / 5 \text{ mm}) \times \sqrt{2.480 \text{GHz}} = 0.52 \text{ }\bigcirc$

SAR requirement:

S = 3.0

1 < 2.

So the SAR report is not required.



(2):





















Report No.: EED32K00293603 Page 7 of 7

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32K00293601 for EUT external and internal photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced





















