

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.: SZEM160600512003

Page: 1 of 7

SAR Evaluation Report

Application No.: SZEM1606005120CR

Applicant:Skullcandy, Inc.Manufacturer:Skullcandy, Inc.Product Name:Barricade XL

Model No.(EUT): S7PDW

Trade Mark:

Skullcandy Y22-S7PDW

Standards: 47 CFR Part 1.1307 (2015)

47 CFR Part 2.1093 (2015)

KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2016-07-06

Date of Test: 2016-07-20 to 2016-08-10

Date of Issue: 2016-08-17

Test Result : PASS*

Authorized Signature:

FCC ID:



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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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



Report No.: SZEM160600512003

Page: 2 of 7

2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2016-08-17		Original

Authorized for issue by:		
Tested By	Benson Wang	2016-08-10
	(Benson Wang) /Project Engineer	Date
Checked By	Eric Fu	2016-08-17
	(Eric Fu) /Reviewer	Date



Report No.: SZEM160600512003

Page: 3 of 7

3 Contents

			Page
1	COVER PAG	E	1
2	VERSION		2
3	CONTENTS.		3
4	GENERAL IN	IFORMATION	4
		ORMATION	
	4.2 GENERAL D	PESCRIPTION OF EUT	4
	4.3 TEST LOCAT	ΓΙΟΝ	5
	4.4 TEST FACILI	ITY	5
	4.5 DEVIATION I	FROM STANDARDS	5
		ITIES FROM STANDARD CONDITIONS	
	4.7 OTHER INFO	DRMATION REQUESTED BY THE CUSTOMER	5
5	SAR EVALUA	ATION	6
	5.1 RF Exposul	RE COMPLIANCE REQUIREMENT	6
	5.1.1 Stand	dard Requirement	6
	5.1.2 Limits	S	6
	5.1.3 EUT	RF Exposure	6-7



Report No.: SZEM160600512003

Page: 4 of 7

4 General Information

4.1 Client Information

Applicant:	Skullcandy, Inc.
Address of Applicant:	1441 West Ute Blvd. Suite 250 Park City UT 84098
Manufacturer:	Skullcandy, Inc.
Address of Manufacturer:	1441 West Ute Blvd. Suite 250 Park City UT 84098

4.2 General Description of EUT

Product Name:	Barricade XL
Model No.:	S7PDW
Trade Mark:	Skullcandy
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.1 Single mode + EDR
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	Portable production
Antenna Type:	PCB Printed Inverted F
Antenna Gain:	4.19dBi
Power Supply	Lithium Ion Battery:3.7V 5200mA (Charge by adapter) Adapter Model: S005AYU0500100 Input: AC100-240V, 50/60Hz 200mA output: DC 5V,1000mA USB DC output: DC5V, 1A
Test Voltage:	120V/60Hz



Report No.: SZEM160600512003

Page: 5 of 7

4.3 Test Location

All 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

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.4 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 - Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

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.

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.



Report No.: SZEM160600512003

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

4.3.1. 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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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 < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

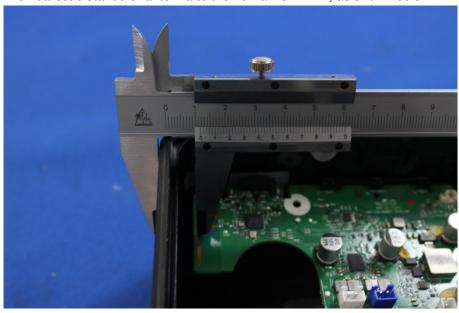
5.1.3 EUT RF Exposure



Report No.: SZEM160600512003

Page: 7 of 7

The nearest distance of antenna to the human is 12mm, as shown below:



The Max Conducted Peak Output Power is 5.31dBm in highest channel(2.480GHz);

The best case gain of the antenna is 4.19dBi.

EIRP = 5.31dBm + 4.19dBi = 9.5Bm

9.5dBm logarithmic terms convert to numeric result is nearly 8.91mW

According to the formula. calculate the EIRP test result:

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

2;

General RF Exposure = $(8.91 \text{ mW} / 12 \text{ mm}) \times \sqrt{2.480 \text{GHz}} = 1.169 \text{ }\bigcirc$

SAR requirement:

S= 3.0

(1) < (2).

So the SAR report is not required.