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## **SAR Evaluation Report**

Date of Test: Date of Issue:	2019-01-23 to 2019-01-29 2019-03-07
Date of Receipt:	2019-01-22
	KDB447498D01 General RF Exposure Guidance v06
	47 CFR Part 2.1093
Standards:	47 CFR Part 1.1307
FCC ID:	Y22-S2JSW
	Skullcandy
Trade mark:	
Model No.:	S2JSW
EUT Name:	Jib+ Active / JibXT Active
Equipment Under Test (EUT	):
Address of Manufacturer:	6301 N Landmark Dr Park City 84098, Utah United States of America
Manufacturer:	SKULLCANDY, INC.
Address of Applicant:	6301 N Landmark Dr Park City 84098, Utah United States of America
Applicant:	SKULLCANDY, INC.
Application No.:	SZEM1901010486CR

\* In the configuration tested, the EUT complied with the standards specified above.

Keny. Xu

Keny Xu EMC Laboratory Manager



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## 2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-03-07		Original

Authorized for issue by:		
	Bonson Vorg	
	Benson Wang /Project Engineer	
	Evic Fu	
	Eric Fu /Reviewer	



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## 4 General Information

## 4.1 General Description of EUT

Power supply:	Rechargeable battery: 3.7V 63mAh *2 (Charged by adapter)	
Cable:	USB cable: 28cm unshielded	
Operation Frequency:	2402MHz to 2480MHz	
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)	
Bluetooth Version:	V5.0 Classic	
Channel Spacing:	1MHz	
Modulation Type:	GFSK, π/4DQPSK, 8DPSK	
Number of Channels:	79	
Antenna Type:	Integral Antenna	
Antenna Gain:	3.72dBi	



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## 4.2 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.

## 4.3 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 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 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.

#### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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4.4	Deviation from Standards
None.	
4.5	Abnormalities from Standard Conditions
None.	
4.6	Other Information Requested by the Customer
None.	



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## 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  $\leq$  50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot$  [ $\sqrt{f}(GHz)$ ]  $\leq$  3.0 for 1-g SAR and  $\leq$  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<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 < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

#### 5.1.3 EUT RF Exposure

For BT

The Max. power (including tune-up tolerance) is 4.00 dBm on the lowest channel 2.48 GHz (\*) 4.00 dBm logarithmic terms convert to numeric result is nearly 2.51 mW

According to the formula. calculate the test exclusion thresholds:

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

General RF Exposure = (2.51 mW / 5 mm) x √2.48 GHz = 0.79	(1)
SAR requirement:	
<i>S</i> = <i>3</i> .0	(2)
(1) < (2)	

So the SAR report is not required.

#### - End of the Report -



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