



Report No.: SZEM190701666104 Page: 1 of 7

SAR Evaluation Report

Application No.:	SZEM1907016661CR			
Applicant:	SKULLCANDY, INC.			
Address of Applicant:	6301 N Landmark Dr Park City Utah 84098, United States of America			
Manufacturer:	SKULLCANDY, INC.			
Address of Manufacturer:	6301 N Landmark Dr Park City Utah 84098, United States of America			
Equipment Under Test (EUT):			
EUT Name:	Method ANC			
Model No.:	S2NQW			
Trade mark:	Skullcandy			
FCC ID:	Y22-S2NQW			
Standards:	47 CFR Part 1.1307			
	47 CFR Part 2.1093			
	KDB447498D01 General RF Exposure Guidance v06			
Date of Receipt:	2019-07-23			
Date of Test:	2019-07-29 to 2019-08-20			
Date of Issue:	2019-08-29			
Test Result :	PASS*			

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

Keny. Ku

Keny Xu EMC Laboratory Manager



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Report No.: SZEM190701666104 Page: 2 of 7

2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-08-29		Original

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



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Report No.: SZEM190701666104 Page: 3 of 7

3 Contents

Page

1	cov	ER PAGE	1
2	VER	SION	2
3	CON	TENTS	3
4	GEN	ERAL INFORMATION	4
	4.1	GENERAL DESCRIPTION OF EUT	4
	4.2	TEST LOCATION	
	4.3	TEST FACILITY	
	4.4	DEVIATION FROM STANDARDS	6
	4.5	ABNORMALITIES FROM STANDARD CONDITIONS	
	4.6	OTHER INFORMATION REQUESTED BY THE CUSTOMER	6
5	SAR	EVALUATION	
	5.1	RF EXPOSURE COMPLIANCE REQUIREMENT	
	5.1.1		7
	5.1.2		
	5.1.3	B EUT RF Exposure	7



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> Report No.: SZEM190701666104 Page: 4 of 7

General Information 4

4.1 General Description of EUT

Power supply:	Rechargeable battery: 3.7V 70mAh (Charged by adapter)		
Cable:	USB cable: 57.1cm unshielded		
For BT			
Operation Frequency:	2402MHz to 2480MHz		
Bluetooth Version:	V5.0 Dual mode		
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DPSK		
Number of Channels:	79		
Channel Spacing:	1MHz		
Antenna Type:	Integral Antenna		
Antenna Gain:	4.02dBi		
For BLE			
Operation Frequency:	2402MHz to 2480MHz		
Bluetooth Version:	V5.0 Dual mode		
Modulation Type:	GFSK		
Number of Channels:	40		
Channel Spacing:	2MHz		
Data Rate:	Up to 2M/bit		
Antenna Type:	Integral Antenna		
Antenna Gain:	4.02dBi		



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Report No.: SZEM190701666104 Page: 5 of 7

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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Report No.: SZEM190701666104 Page: 6 of 7

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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Report No.: SZEM190701666104 Page: 7 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 \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 calculation¹⁷

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/BLE

The normal radiated output power (e.i.r.p) is: 7dBm (tolerance: +/- 2dB).

The normal conducted output power is 2.98dBm (tolerance: +/- 2dB).

The Max. power (including tune-up tolerance) is 4.98 dBm on the lowest channel 2.48 GHz (*) 4.98 dBm logarithmic terms convert to numeric result is nearly 3.15 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 = (3.15 mW / 5 mm) x $\sqrt{2.48}$ GHz = 0.99	(1)
SAR requirement:	
<i>S</i> = 3.0	(2)
(1) < (2)	

So the SAR report is not required.

- End of the Report -



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