

Report No.: SZEM181000918203

No. 1 Workshop, M-10, Middle section, Science & Technology Park,

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**SAR Evaluation Report** 

Application No.: SZEM1810009182CR
Applicant: Voxx Accessories Corp.

Address of Applicant: 3502 Woodview Trace suite 220 Indianapolis Indiana United States 46268

Factory: Smart Glory Electronics(Shenzhen)Co., Ltd

Address of Factory: Building Four, No.63, Zhangqi Road, Qiping Village, Daping Community,

Guanlan Street, Longhua New District, Shenzhen City

**Equipment Under Test (EUT):** 

**EUT Name:** Bluetooth Wireless Speaker

Model No.: AWSF100

Trade mark: Acoustic Research FCC ID: VIXAWSF100

Standards: 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

**Date of Receipt:** 2018-10-24

**Date of Test:** 2018-10-26 to 2018-11-02

**Date of Issue:** 2018-11-06

Test Result : PASS\*

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



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.

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## 2 Version

Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2018-11-06		Original		

Authorized for issue by:		
	Co. Ci	
	Leo Li /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	-



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## 4 General Information

## 4.1 General Description of EUT

Power supply:	Lithium Ion Battery: 11.1V 2000mAh rechargeable battery which charged by USB port DC 14V from adapter input AC 120V/60Hz		
	Adapter Model: BLJ15W140100P1-U		
	Input:AC100-240V~50/60Hz 0.6A Output:DC 14V 1000mA		
	Output.DC 14V 1000IIIA		
Cable:	DC cable: 150cm unshielded		
Bluetooth Version:	V4.2+EDR		
Operation Frequency	2402MHz to 2480MHz		
Spectrum Spread Technology	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type	GFSK, π/4DQPSK, 8DPSK		
Number of Channels	79		
Channel Spacing	1MHz		
Antenna Type	PCB Antenna		
Antenna Gain	0dBi		



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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 ≤ 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  $\le 7.5$  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

The Max. power (including tune-up tolerance) is  -0.65	dBm on the lowest channel	2.402	GHz (*)
-0.65 dBm logarithmic terms convert to numeric result			
According to the formula. calculate the test exclusion t			
[(max. power of channel, including tune-up tolerance [\f(GHz)]	e, mW)/(min. test separation	distance	, mm)] ·
General RF Exposure = (0.86 mW / 5 mm) x $\sqrt{2.402}$ GHz = 0.27			
SAR requirement:			
S = 3.0		(2)	
(1) < (2)			
So the SAR report is not required.			
(*) Max. power refer to Report No.:SZEM181000918202	)		

- End of the Report -