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Report No.: SZEM181100971302

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SAR Evaluation Report

Application No.: SZEM1811009713CR
Applicant: eMoMo Technology Co., Ltd
Address of Applicant: Fourth Floor, Yonghe Building, Taiwan Industrial P Shiyuan, Baoan, Shenzhen, Guangdong, Shenzhen, China
Manufacturer: eMoMo Technology Co., Ltd
Address of Manufacturer: Fourth Floor, Yonghe Building, Taiwan Industrial P Shiyuan, Baoan, Shenzhen, Guangdong, Shenzhen, China
Factory: eMoMo Technology Co., Ltd
Address of Factory: Fourth Floor, Yonghe Building, Taiwan Industrial P Shiyuan, Baoan, Shenzhen, Guangdong, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: Remo Audio 4
Model No.: Remo4, Remo4.1, Remo4.1S, Remo4.2, Remo4.2S, Remo4.3, Remo4.4 ♣
 ♣ Please refer to section 4.1 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark: eMoMo
FCC ID: A4E-REMO412
Standards: 47 CFR Part 1.1307
 47 CFR Part 2.1093
 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2018-11-09
Date of Test: 2018-11-13 to 2018-11-19
Date of Issue: 2018-11-21

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu

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		2018-11-21		Original

Authorized for issue by:			
			
		_____ Leo Li /Project Engineer	
			
		_____ Eric Fu /Reviewer	



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4 General Information

4.1 General Description of EUT

Power supply:	DC 12V from adapter input AC 120V/60Hz Adapter Model:RSS1000-240120-W2E Input:AC100-240V~50/60Hz 0.6A Output: DC 12V 2.0A
Cable:	DC cable: 255cm unshielded Speaker cable:100cm unshielded*2 Subwoofer cable: 160cm unshielded
Bluetooth Version:	BT 4.1
Operation Frequency:	2402MHz to 2480MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Number of Channels:	79
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Channel Spacing:	1MHz
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi

Remark:

Model No.: Remo4, Remo4.1, Remo4.1S, Remo4.2, Remo4.2S, Remo4.3, Remo4.4

Only the model Remo4.1 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model name, color, and speaker size.



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.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.



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:

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ 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 ≤ 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 6.44 dBm on the middle channel 2.401 GHz (*)
6.44 dBm logarithmic terms convert to numeric result is nearly 4.41 mW

According to the formula. calculate the test exclusion thresholds:

$$\text{General RF Exposure} = \frac{\text{(Max. Power of channel, including tune-up tolerance, mW)} * \sqrt{f(\text{GHz})}}{\text{(min. test separation distance, mm)}}$$

$$\text{General RF Exposure} = (4.41 \text{ mW} / 5 \text{ mm}) * \sqrt{2.401 \text{ GHz}} = 1.37 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

$$(1) < (2)$$

So the SAR report is not required.

(*) Max. power refer to Report No.:SZEM181100971301

- End of the Report -