

Report No.: SZEM191101977604 Page: 1 of 7

SAR Evaluation Report

Application No.:	SZEM1911019776CR	
Applicant:	The Coleman Company	
Address of Applicant:	3600 N Hydraulic Wichita Kansas United States 67219	
Manufacturer:	The Coleman Company, Inc.	
Address of Manufacturer:	3600 N Hydraulic, Wichita KS 67219 USA	
Factory:	Ningbo Changrong Lighting & Electronics Technology Co., Ltd	
Address of Factory:	Xidian Town, Ninghai, Ningbo, Zhejiang, China 315613	
Equipment Under Test (EUT):		
EUT Name:	Rechargeable Bluetooth Speaker	
Model No.:	2000035456	
Trade mark:	COLEMAN® ONESOURCETM	
FCC ID:	2APLV-2000035456	
Standards:	47 CFR Part 1.1310	
	47 CFR Part 2.1093	
	KDB447498D01 General RF Exposure Guidance v06	
Date of Receipt:	2019-11-01	
Date of Test:	2019-11-01 to 2019-12-06	
Date of Issue:	2019-12-10	
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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2 Version

	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		2019-12-10		Original	

Authorized for issue by:		
	Calvin Weng	
	Calvin Weng /Project Engineer	
	Evic Fu	
	Eric Fu /Reviewer	—



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General Information 4

4.1 General Description of EUT

DC3.7V by lithium-ion battery
Recharge input: DC5V2.4A
USB output: DC5V/2A
USB type C cable: 50cm unshielded cable
2402MHz to 2480MHz
5.0
GFSK, π/4DQPSK
Frequency Hopping Spread Spectrum(FHSS)
79
1MHz
PCB antenna
0dBi
2402MHz to 2480MHz
5.0
GFSK
40
2MHz
PCB antenna
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:

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.



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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 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

The Max. power (including tune-up tolerance) is 2.98 dBm on the middle channel 2.441 GHz (*) 2.98 dBm logarithmic terms convert to numeric result is nearly 1.99 mW According to the formula. calculate the test exclusion thresholds:

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

General RF Exposure = (1.99 mW / 5 mm) x $\sqrt{2.441}$ GHz = 0.62	(1)
SAR requirement:	
<i>S</i> = 3.0	(2)
(1) < (2)	
So the SAR report is not required.	

(*) Max. power refer to Report No.:SZEM191101977602



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For BLE

The Max. power (including tune-up tolerance) is 4.94 dBm on the lowest channel 2.402 GHz (*) 4.94 dBm logarithmic terms convert to numeric result is nearly 3.12 mW According to the formula. calculate the test exclusion thresholds: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [Vf(GHz)] *General RF Exposure = (3.12 mW / 5 mm) x \sqrt{2.402} GHz = 0.97 (1) SAR requirement:* S = 3.0 (2) (1) < (2) So the SAR report is not required.

(*) Max. power refer to Report No.:SZEM191101977603

- End of the Report -



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