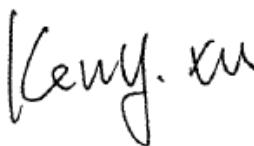


Report No.: SZEM200300186903
Page: 1 of 8

Human Exposure Report

Application No.:	SZEM2005003544CR
Applicant:	Dongguan Soonleader Electronics Co., Ltd
Address of Applicant:	No.2, 3rd Center Road, Puxinhu Business Street, Tangxia Town, Dongguan City, Guangdong Province, China
Manufacturer:	Dongguan Soonleader Electronics Co., Ltd
Address of Manufacturer:	No.2, 3rd Center Road, Puxinhu Business Street, Tangxia Town, Dongguan City, Guangdong Province, China
Factory:	Dongguan Soonleader Electronics Co., Ltd
Address of Factory:	No.2, 3rd Center Road, Puxinhu Business Street, Tangxia Town, Dongguan City, Guangdong Province, China
Equipment Under Test (EUT):	
EUT Name:	UV Sterilizer Magbox
Model No.:	UVC-AF018 ♣
•	Please refer to section 2.1 of this report which indicates which sample was actually tested and which were electrically identical.
FCC ID:	2AWEHUV-C-AF018
Standards:	47 CFR PART 1, Subpart I, Section 1.1310 47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt:	2020-05-09
Date of Test:	2020-05-12 to 2020-06-02
Date of Issue:	2020-06-04
Test Result :	Pass*

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



Keny Xu
EMC Laboratory Manager



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1 Contents

	Page
1 CONTENTS	2
2 GENERAL INFORMATION	3
2.1 DETAILS OF E.U.T	3
2.2 DESCRIPTION OF SUPPORT UNITS	3
2.3 TEST LOCATION	4
2.4 TEST FACILITY	4
2.5 DEVIATION FROM STANDARDS	4
2.6 ABNORMALITIES FROM STANDARD CONDITIONS	4
3 EQUIPMENTS USED DURING TEST.....	5
4 TEST RESULTS	6
4.1 RF EXPOSURE TEST	6
4.1.1 <i>E.U.T. Operation</i>	6
4.1.2 <i>Measurement Data.....</i>	7
5 PHOTOGRAPHS- RF EXPOSURE SETUP PHOTOS.....	8



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2 General Information

2.1 Details of E.U.T.

Power Supply:	Input: Type-C Port DC 5V/2A, 9V2A
	UV Light Output: 2W(MAX)
	WPC Output:
	5W(DC 5V/1A); 7.5W(DC 5V/1.5A); 10W(DC 9V/1.1A)
Cable:	Type C cable: 100cm unshielded
Antenna Type:	Loop Antenna
Modulation Type:	Load Modulation
Operation Frequency:	118.91kHz to 148.24kHz
Remark:	Tests were conducted in all three load modes and the worst case 10W(DC 9V/1.1A) is reported only.

Remark:

Model No.: UVC-AF018

Only the white sample was tested. Since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above samples, with only difference on appearance color.

2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	XIAOMI	MDY-10-EH	AA61904Q207433G
Adapter	SAMSUNG	EP-TA200	R37J8YA7W71DK3
iPhone 8	Apple	A1863	F4GVQ656JC6D
Mobile Phone	SAMSUNG	SM-G9500	R28J9140LPB



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2.3 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

2.4 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.

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.



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3 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2020-06-10
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2020-11-27



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4 Test Results

4.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

Measurement Distance: 15cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules.

The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

4.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 52 % RH Atmospheric Pressure: 1015 mbar

EUT Operation:

This device has been tested the worst status of full load and the device has been tested with load at zero charge, intermediate charge, and full charge.



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Report No.: SZEM200300186903
Page: 7 of 8

4.1.2 Measurement Data

Output Voltage=DC 9V; The max output power =10W; Calculation of resistor value=8.1Ω

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
123.44 kHz	15	Side 1	0.0897	0.815
		Side 2	0.0757	0.815
		Side 3	0.0712	0.815
		Side 4	0.0598	0.815
		Top	0.0985	0.815

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
123.44 kHz	15	Side 1	0.0885	0.0872	0.0829	0.815
		Side 2	0.0769	0.0796	0.0741	0.815
		Side 3	0.0733	0.0720	0.0696	0.815
		Side 4	0.0557	0.0575	0.0587	0.815
		Top	0.0956	0.0948	0.0924	0.815

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5 Photographs- RF exposure Setup photos

Please refer to RF exposure setup.

- End of the Report -



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