



RF EXPOSURE REPORT

For

SMART VACUUM CLEANER

MODEL NUMBER: S11US0A00

**ADDITIONAL MODEL NUMBER: S11US0A01, S11CA0A00, S11CA0A01,
VS11US0000, VS11CA0000, VS11US0201, VS11US0200, VS11CA0210,
VS11US0001, VS11CA0001**

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Prepared for

Ecovacs Robotics Co Ltd

Prepared by

UL-CCIC COMPANY LIMITED

No. 2, Chengwan Road, Suzhou Industrial Park, People's Republic of China

Tel: +86 769 22038881

Fax: +86 769 33244054

Website: www.ul.com



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Ecovacs Robotics Co Ltd
Address: No. 108 Shihu Road West, Wuzhong Zone, Suzhou, 215168
P.R.China

Manufacturer Information

Company Name: Ecovacs Robotics Co Ltd
Address: No. 108 Shihu Road West, Wuzhong Zone, Suzhou, 215168
P.R.China

Factory Information

Company Name: Ecovacs Robotics Co Ltd
Address: No. 108 Shihu Road West, Wuzhong Zone, Suzhou, 215168
P.R.China

EUT Description

Product Name: SMART VACUUM CLEANER
Model Name: S11US0A00
Additional No.: S11US0A01, S11CA0A00, S11CA0A01, VS11US0000,
VS11CA0000, VS11US0201, VS11US0200, VS11CA0210,
VS11US0001, VS11CA0001
Sample Number: 2748831
Data of Receipt Sample: Dec. 11, 2019
Date Tested: Dec. 11, 2019~ Jan. 14, 2020

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Guidelines for Human Exposure IEEE C95.1	Complies

Prepared By:

Tom Tang

Tom Tang
Engineer Project Associate

Reviewed By:

Chris Zhong

Chris Zhong
Senior Project Engineer

Authorized By:

Scholl Zhang

Scholl Zhang
Laboratory Leader



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06 and FCC Guidelines for Human Exposure IEEE C95.1.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4829.01) UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1247) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 25056) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
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Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, People's Republic of China

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.



4. REQUIREMENT

LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
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/150	30
1500-100,000	--	--	1.0	30
Note 1: f = frequency in MHz, * means Plane-wave equivalent power density				
Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.				
Note 3: The limit value 1.0mW/cm ² is available for this EUT.				

MPE CALCULATION METHOD

$$S = PG / (4\pi R^2)$$

where: S = power density (in appropriate units, e.g. mW/ cm²)

P = power input to the antenna (in appropriate units, e.g., mW) (the measured power value refer to the tune-up document)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)



CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

WIFI (Worst case)							
Mode	Tune-up Power(P)		Antenna Gain		Power Density	Limit	Test Result
11N HT20	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	--
	19	79.43	2.3	1.70	0.027	1	Complies

Note: the calculated distance is 20cm.

END OF REPORT