



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM181200018902

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Human Exposure Report

Application No.: SZEM1812000189CR(SGS SZ No.:T51810300010EM)
Applicant: Lucky Group(H.K.) Limited
Address of Applicant: Building B, Lucky Industrial Park, Hongjin Road, Hongmei Town, Dongguan, China
Manufacturer: Shenzhen WUDOU MI Electronics Technology Co., Ltd
Buyer: D&B
Supplier: Lucky Group (H.K.) Limited
Equipment Under Test (EUT):
EUT Name: Wireless Charger Mouse Pad
Model No.: 17831
P.O. / Ref. No.: LBD80531
Country of Origin: China
Country of Destination: USA
FCC ID: 2ACO3-17831
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
Date of Receipt: 2018-12-06
Date of Test: 2018-12-10 to 2018-12-21
Date of Issue: 2018-12-26

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

Keny Xu

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EMC Laboratory

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2 General Information

2.1 Details of E.U.T.

Power supply: Input:DC5V/2A 9V/1.67A
Output:DC 5V/1A 9V/1A

Cable: USB cable:95cm unshielded

Antenna Type: Loop Antenna

Modulation Type: Load Modulation

Operation Frequency: 111.54kHz to 180.77kHz

Remark: 1)Tests were conducted in both load modes and the worst case (10W) is reported only.
2)Applicant provided two cables. The one is USB to DC port and the other one is with a AC/DC adapter. Both power supplies has been evaluated and the worst case(with AC/DC adapter) has been reported only.

2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1357 W010A051	REF. No.SEA0500
Mobile phone	SAMSUNG	SM-G9500	R28J9140LPB



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2.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

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:

• 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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2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

3 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	Shielding Room	SAEMC	MSR733	SEM001-09	2020-05-09
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2019-02-06



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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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4.1.2 Measurement Data

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

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
147.2 kHz	15	Side 1	0.0028	0.815
		Side 2	0.0037	0.815
		Side 3	0.0052	0.815
		Side 4	0.0046	0.815
		Top	0.0039	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	
147.2 kHz	15	Side 1	0.0026	0.0022	0.0023	0.815
		Side 2	0.0039	0.0036	0.0038	0.815
		Side 3	0.0054	0.0062	0.0055	0.815
		Side 4	0.0044	0.0046	0.037	0.815
		Top	0.0037	0.0034	0.0031	0.815

5 Photographs- RF exposure Setup photos

Refer to RF exposure setup.

- End of the Report -

