

Human Exposure Report

Application No.: SZEM1908017369CR
Applicant: Scosche Industries Inc
Address of Applicant: 1550 Pacific Ave, Oxnard, CA 93033, United States of America
Manufacturer: Scosche Industries Inc
Address of Manufacturer: 1550 Pacific Ave, Oxnard, CA 93033, United States of America
Factory: Shenzhen Wireless Technology Co., Ltd.
Address of Factory: 3rd Floor, A4 Building, Block A, Fangxing Science & Tech. Park, Longgang District, Shenzhen, China

Equipment Under Test (EUT):
EUT Name: Wireless Car Charger
Model No.: MGQ, MGQWDDP-AP2, MGQVP-AP2, MGQDWD-CP0, MGQWDDP-XTET, MGQVP-XTET, MGQWD-XTET, MGQD-XTET, MGQXX-XX (XX can be A-Z or 0-9, the first "XX" stands for mount base, the second "XX" stands for customer coder) ♣

♣ Please refer to section 3.1 of this report which indicates which model was actually tested and which were electrically identical.

Trade mark: SCOSCHE
FCC ID: IKQMGQ
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
 47 CFR PART 2, Subpart J, Section 2.1093

Date of Receipt: 2019-08-12
Date of Test: 2019-08-12 to 2019-08-14
Date of Issue: 2019-08-19

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



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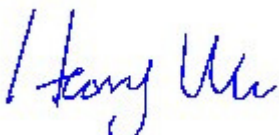
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Report No.: SZEM190801736902
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-08-19		Original

Authorized for issue by:				
				
		Harry Wu /Project Engineer		
				
		Eric Fu /Reviewer		



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3 General Information

3.1 Details of E.U.T.

Power supply: WPC: Input: DC5V,3A / DC9V,2A / DC12V,1.5A
Output: 5W/7.5W/10W/15W
Car charger model: CQA8
Input: DC12V, 1.8A
Output: DC3.6-6.5V, 3A / 6.5-9V, 2A / 9-12V, 1.5A, 2.0A Max.

Cable: Type C cable: 150cm, Unshielded

Operation Frequency: 110.577kHz to 147.115kHz

Modulation Type: Load Modulation

Antenna Type: Loop Antenna

Antenna Gain: 0dBi

Remark: Tests were conducted in all load modes and the worst case 15W(DC 9V/1.67A Input) is reported only.

Declaration of EUT Family Grouping:

Model No.: MGQ, MGQWDDP-AP2, MGQVP-AP2, MGQDWD-CP0, MGQWDDP-XTET,

MGQVP-XTET, MGQWD-XTET, MGQD-XTET, MGQXX-XX (XX can be A-Z or 0-9, the first "XX" stands for mount base, the second "XX" stands for customer coder)

Only the model MGQ was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model name, mount base and packaging.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 8	Apple	A1863	F4GVQ656JC6D
Mobile Phone	SAMSUNG	SM-G9500	R28J9140LPB
Mobile Phone	XIAOMI	M1902F1A	22006/K9SH018



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3.3 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.

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No tests were sub-contracted.

3.4 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.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.



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4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2020-06-10
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2020-05-06



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5 Test Results

5.1 RF Exposure test

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

Measurement Distance: 0/2/4/6/8/10/15cm

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).

5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 53 % RH Atmospheric Pressure: 1015 mbar

EUT Operation:

This device had been tested with mobile phone at zero charge, intermediate charge, and full charge.



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5.1.2 Measurement Data

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

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
129kHz	0	Side 1	6.62	6.45	6.2	307
		Side 2	3.2	2.95	2.75	307
		Side 3	7.76	7.54	7.35	307
		Side 4	3.94	3.77	3.52	307
		Top	3.02	2.78	2.54	307

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	
129 kHz	0	Side 1	0.5166	0.5051	0.4911	0.815
		Side 2	0.3467	0.3351	0.3225	0.815
		Side 3	0.6082	0.5960	0.5824	0.815
		Side 4	0.4403	0.4275	0.4139	0.815
		Top	0.3057	0.2948	0.2817	0.815



Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
129kHz	2	Side 1	6.29	6.12	5.94	307
		Side 2	2.92	2.75	2.52	307
		Side 3	7.49	7.32	7.07	307
		Side 4	3.68	3.41	3.16	307
		Top	2.61	2.33	2.15	307

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	
129 kHz	2	Side 1	0.4865	0.4745	0.4593	0.815
		Side 2	0.3119	0.2983	0.2839	0.815
		Side 3	0.5712	0.5586	0.5454	0.815
		Side 4	0.4084	0.3976	0.3852	0.815
		Top	0.2637	0.2482	0.2349	0.815





Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
129kHz	4	Side 1	5.96	5.73	5.48	307
		Side 2	2.69	2.49	2.31	307
		Side 3	7.15	6.93	6.7	307
		Side 4	3.42	3.14	2.95	307
		Top	2.46	2.22	2.04	307

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	
129 kHz	4	Side 1	0.4547	0.4444	0.4308	0.815
		Side 2	0.2810	0.2704	0.2580	0.815
		Side 3	0.5341	0.5207	0.5060	0.815
		Side 4	0.3754	0.3632	0.3508	0.815
		Top	0.2293	0.2179	0.2035	0.815

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
129kHz	6	Side 1	5.65	5.42	5.24	307
		Side 2	2.39	2.09	1.91	307
		Side 3	6.82	6.61	6.38	307
		Side 4	2.95	2.76	2.56	307
		Top	2.04	1.79	1.59	307



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	
129 kHz	6	Side 1	0.4202	0.4061	0.3936	0.815
		Side 2	0.2445	0.2336	0.2191	0.815
		Side 3	0.5013	0.4871	0.4728	0.815
		Side 4	0.3368	0.3238	0.3107	0.815
		Top	0.1938	0.1791	0.1660	0.815

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
129kHz	8	Side 1	5.05	4.75	4.53	307
		Side 2	1.91	1.67	1.46	307
		Side 3	6.33	6.02	5.78	307
		Side 4	2.45	2.14	1.97	307
		Top	1.44	1.26	1.01	307

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	
129 kHz	8	Side 1	0.3810	0.3703	0.3566	0.815
		Side 2	0.2092	0.1948	0.1824	0.815
		Side 3	0.4644	0.4528	0.4393	0.815
		Side 4	0.3023	0.2904	0.2768	0.815
		Top	0.1593	0.1452	0.1320	0.815



Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
129kHz	10	Side 1	4.62	4.38	4.13	307
		Side 2	1.45	1.24	1.04	307
		Side 3	5.92	5.63	5.41	307
		Side 4	2.13	1.94	1.71	307
		Top	1.19	0.86	0.63	307

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	
129 kHz	10	Side 1	0.3488	0.3387	0.3257	0.815
		Side 2	0.1684	0.1548	0.1421	0.815
		Side 3	0.4313	0.4161	0.4028	0.815
		Side 4	0.2708	0.2601	0.2454	0.815
		Top	0.1198	0.1052	0.0915	0.815



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Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
129kHz	15	Side 1	3.67	3.48	3.24	307
		Side 2	0.92	0.68	0.52	307
		Side 3	5.06	4.89	4.69	307
		Side 4	1.65	1.39	1.17	307
		Top	0.69	0.57	0.46	307

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	
129 kHz	15	Side 1	0.2774	0.2615	0.2469	0.815
		Side 2	0.0991	0.0860	0.0729	0.815
		Side 3	0.3608	0.3456	0.3332	0.815
		Side 4	0.2028	0.1912	0.1768	0.815
		Top	0.0675	0.0528	0.0397	0.815

6 Photographs

Please refer to RF Exposure setup photo.

- End of the Report -

