



Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000040902

Page: 1 of 22

RF EXPOSURE EVALUATION REPORT

Application No.:	FYCR2210000409AT
Applicant:	Spigen Korea Co., Ltd.
Address of Applicant:	446, Bongeunsa-ro, Gangnam-gu, Seoul, 06153, Rep. of KOREA
Manufacturer:	Shenzhen Wireless Technology Co., Ltd.
Address of Manufacturer:	Floor 2,3,4 building A4, Fangxing Science and Technology park, NO.13 Baonan Road, Longgang street, Longgang District
Factory:	Shenzhen Wireless Technology Co., Ltd.
Address of Factory:	Floor 2,3,4 building A4, Fangxing Science and Technology park, NO.13 Baonan Road, Longgang street, Longgang District
Equipment Under Test (EUT):	
EUT Name:	* ITS12W Spigen OneTap Pro Wireless Car Charger *ITS35W Spigen OneTap Pro Wireless Car Charger *S310W Spigen OneTap Pro Wireless Magnetic Charging Stand *ITS68W Spigen OneTap Pro Wireless Car Charger for iPhone MagSafe Cup Holder Mount *ITT90W Spigen OneTap Pro Wireless Car Charger for Tesla (Screen Mount) *ITS35W-3 Spigen OneTap Pro 3 Wireless Car Charger Dashboard ITS12W/ITS35W/S310W/ITS68W/ITT90W/ITS35W-3
Model No.:	ITS12W/ITS35W/S310W/ITS68W/ITT90W/ITS35W-3
Trade Mark:	Spigen
FCC ID:	2AFKNITS12W
Standards:	47 CFR PART 1, Subpart I, Section 1.1310 47 CFR PART 2, Subpart J, Section 2.1093
Date of Receipt:	2022-10-20
Date of Evaluation:	2023-02-09
Date of Issue:	2023-02-09
Evaluation Result:	Pass*

* In the configuration evaluated, the EUT complied with the standards specified above.

Wenkey Wang

EMC Technical Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-02-09		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/Reviewer		



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2 Evaluation Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
RF Exposure	47 CFR PART 1, Subpart I, Section 1.1310	KDB 680106 D01 TCB Workshop Presentation November 2019 RF Exposure	CFR 47 Part 1.1310	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Declaration of EUT Family Grouping:

Model No.: ITS12W/ITS35W/S310W/ITS68W/ITT90W/ITS35W-3

Only the model ITS35W/S310W was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on back shell and accessories.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Input: DC5.0V/2A, DC9.0V/1.67V Output: WPC: 5W/7.5W
Cable(s):	Type-C cable: 113cm unshielded
Operation frequency:	110.1kHz to 150.16kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Huawei	HW-05920CHQ	K68247GBP14582
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
iPhone 12	Apple	MGGU3CH/A	REF. No.SEA16J00
E-loading	SGS	N/A	REF. No.SEA42A00



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4.3 Test modes description:

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(5W)
Final test	01	Charge mode_Keep the EUT charging(7.5W)

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
RF Exposure Evaluation	MF: 0.13dB, EF: 0.4dB

5 Equipments Used during Test

RF Exposure					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi- Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Electric and Magnetic Field Probe - Analyzer(3kHz-30MHz)	Narda	EHP-200AC	SEM022-20	2022/4/2	2023/4/1



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5.1 Evaluating Location

All tests were performed at:

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Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

5.2 Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.



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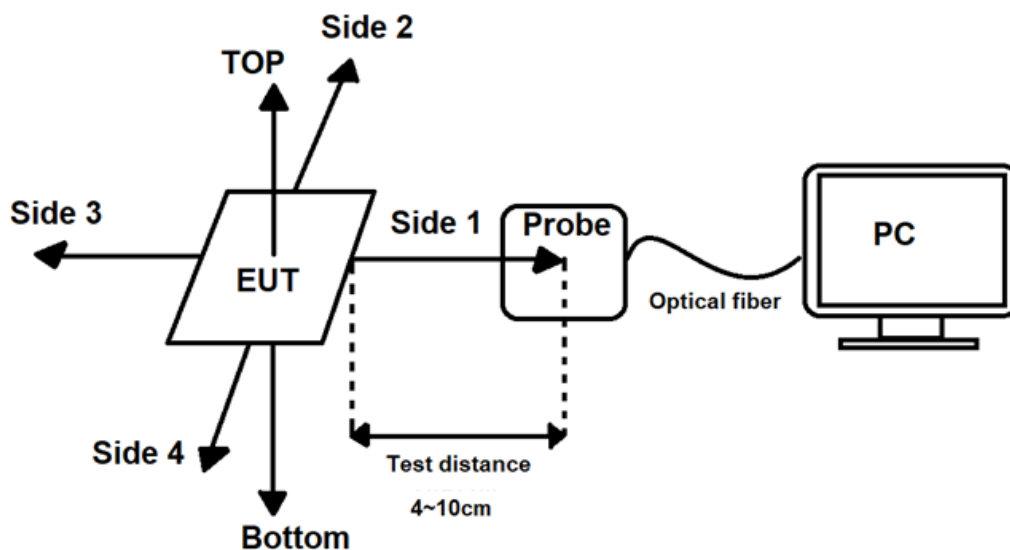
5.3 Deviation from Standards

None

5.4 Abnormalities from Standard Conditions

None

5.5 Test Block Diagram



6 Test Results

6.1 RF Exposure test

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

Measurement Distance: 0/2/4/6/8/10/12/14/16/18/20cm

Limit:

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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).

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

S = power density (mW/cm²)
 P = the net power delivered to the antenna (mW)
 G = gain of the antenna in linear scale
 d = distance between observation point and center of the radiator (cm)



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6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 51.4% RH Atmospheric Pressure: 1010 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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6.1.2 Measurement Data

Mode 01:

The max output power =7.5W

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
131.4 kHz which is the worst case within the operation frequency range	0	Side 1	0.206	0.229	0.275	0.815	0.163
		Side 2	0.169	0.186	0.226		
		Side 3	0.175	0.195	0.234		
		Side 4	0.132	0.151	0.179		
		Top	0.071	0.079	0.095		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
127.6 kHz which is the worst case within the operation frequency range	0	Side 1	0.283	0.238	0.197	0.815	0.163
		Side 2	0.226	0.190	0.157		
		Side 3	0.240	0.202	0.167		
		Side 4	0.179	0.150	0.124		
		Top	0.096	0.081	0.067		



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Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
131.4 kHz which is the worst case within the operation frequency range	2	Side 1	0.166	0.183	0.226	0.815	0.163
		Side 2	0.135	0.152	0.185		
		Side 3	0.143	0.159	0.194		
		Side 4	0.104	0.116	0.143		
		Top	0.063	0.072	0.090		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
127.6 kHz which is the worst case within the operation frequency range	2	Side 1	0.236	0.200	0.158	0.815	0.163
		Side 2	0.194	0.164	0.129		
		Side 3	0.206	0.175	0.138		
		Side 4	0.149	0.126	0.100		
		Top	0.087	0.073	0.058		



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Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
131.4 kHz which is the worst case within the operation frequency range	4	Side 1	0.136	0.153	0.184	0.815	0.163
		Side 2	0.113	0.125	0.154		
		Side 3	0.120	0.134	0.164		
		Side 4	0.085	0.098	0.114		
		Top	0.057	0.065	0.078		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
127.6 kHz which is the worst case within the operation frequency range	4	Side 1	0.187	0.157	0.127	0.815	0.163
		Side 2	0.153	0.128	0.104		
		Side 3	0.169	0.142	0.115		
		Side 4	0.119	0.100	0.081		
		Top	0.075	0.063	0.051		



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Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
131.4 kHz which is the worst case within the operation frequency range	6	Side 1	0.117	0.132	0.159	0.815	0.163
		Side 2	0.098	0.113	0.130		
		Side 3	0.105	0.118	0.143		
		Side 4	0.076	0.086	0.103		
		Top	0.049	0.056	0.072		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
127.6 kHz which is the worst case within the operation frequency range	6	Side 1	0.165	0.137	0.111	0.815	0.163
		Side 2	0.134	0.111	0.091		
		Side 3	0.150	0.125	0.101		
		Side 4	0.107	0.089	0.072		
		Top	0.066	0.055	0.044		



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Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
131.4 kHz which is the worst case within the operation frequency range	8	Side 1	0.108	0.122	0.147	0.815	0.163
		Side 2	0.085	0.101	0.117		
		Side 3	0.093	0.107	0.125		
		Side 4	0.067	0.075	0.092		
		Top	0.048	0.060	0.068		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
127.6 kHz which is the worst case within the operation frequency range	8	Side 1	0.140	0.117	0.097	0.815	0.163
		Side 2	0.111	0.093	0.078		
		Side 3	0.124	0.104	0.086		
		Side 4	0.091	0.076	0.063		
		Top	0.057	0.048	0.040		



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Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
131.4 kHz which is the worst case within the operation frequency range	10	Side 1	0.088	0.102	0.122	0.815	0.163
		Side 2	0.070	0.084	0.096		
		Side 3	0.074	0.084	0.100		
		Side 4	0.059	0.070	0.081		
		Top	0.038	0.045	0.058		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
127.6 kHz which is the worst case within the operation frequency range	10	Side 1	0.117	0.099	0.079	0.815	0.163
		Side 2	0.094	0.079	0.064		
		Side 3	0.100	0.084	0.068		
		Side 4	0.078	0.065	0.053		
		Top	0.047	0.040	0.032		



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Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
131.4 kHz which is the worst case within the operation frequency range	12	Side 1	0.054	0.066	0.073	0.815	0.163
		Side 2	0.045	0.054	0.061		
		Side 3	0.044	0.056	0.064		
		Side 4	0.032	0.039	0.049		
		Top	0.022	0.027	0.032		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
127.6 kHz which is the worst case within the operation frequency range	12	Side 1	0.071	0.060	0.047	0.815	0.163
		Side 2	0.057	0.048	0.038		
		Side 3	0.059	0.049	0.039		
		Side 4	0.044	0.037	0.030		
		Top	0.029	0.024	0.019		



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Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
131.4 kHz which is the worst case within the operation frequency range	14	Side 1	0.038	0.043	0.056	0.815	0.163
		Side 2	0.030	0.034	0.042		
		Side 3	0.030	0.037	0.045		
		Side 4	0.029	0.036	0.042		
		Top	0.023	0.026	0.032		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
127.6 kHz which is the worst case within the operation frequency range	14	Side 1	0.046	0.039	0.031	0.815	0.163
		Side 2	0.041	0.034	0.027		
		Side 3	0.038	0.032	0.026		
		Side 4	0.031	0.026	0.021		
		Top	0.022	0.019	0.015		



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Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
131.4 kHz which is the worst case within the operation frequency range	16	Side 1	0.034	0.042	0.049	0.815	0.163
		Side 2	0.025	0.035	0.038		
		Side 3	0.026	0.035	0.036		
		Side 4	0.022	0.029	0.034		
		Top	0.016	0.023	0.026		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
127.6 kHz which is the worst case within the operation frequency range	16	Side 1	0.041	0.034	0.027	0.815	0.163
		Side 2	0.033	0.028	0.022		
		Side 3	0.032	0.027	0.021		
		Side 4	0.026	0.020	0.016		
		Top	0.021	0.016	0.013		



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Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
131.4 kHz which is the worst case within the operation frequency range	18	Side 1	0.031	0.039	0.048	0.815	0.163
		Side 2	0.025	0.032	0.036		
		Side 3	0.030	0.038	0.042		
		Side 4	0.025	0.033	0.039		
		Top	0.019	0.023	0.031		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
127.6 kHz which is the worst case within the operation frequency range	18	Side 1	0.036	0.030	0.024	0.815	0.163
		Side 2	0.033	0.027	0.022		
		Side 3	0.032	0.027	0.021		
		Side 4	0.025	0.021	0.017		
		Top	0.020	0.017	0.013		



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Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
125 kHz which is the worst case within the operation frequency range	20	Side 1	0.025	0.031	0.037	0.815	0.163
		Side 2	0.018	0.026	0.027		
		Side 3	0.021	0.030	0.034		
		Side 4	0.017	0.020	0.028		
		Top	0.020	0.025	0.027		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
125 kHz which is the worst case within the operation frequency range	20	Side 1	0.029	0.024	0.019	0.815	0.163
		Side 2	0.022	0.018	0.015		
		Side 3	0.024	0.020	0.016		
		Side 4	0.019	0.016	0.012		
		Top	0.017	0.014	0.011		



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7 Photographs- RF exposure Setup photos

Refer to Appendix – RF Exposure Setup Photo for FYCR2210000409AT

- End of the Report -



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