

Human Exposure Report

Application No.: FYCR2204000053AT
Applicant: Spigen Korea Co., Ltd.
Address of Applicant: Spigen HQ-A, 446, Bongeunsa-ro, Gangnam-gu, Seoul, 06153, South Korea
Manufacturer: Spigen Korea Co., Ltd.
Address of Manufacturer: Spigen HQ-A, 446, Bongeunsa-ro, Gangnam-gu, Seoul, 06153, South Korea
Factory: Spigen Korea Co., Ltd.
Address of Factory: Spigen HQ-A, 446, Bongeunsa-ro, Gangnam-gu, Seoul, 06153, South Korea
Equipment Under Test (EUT):
EUT Name: OneTap SmartLock Noiseless Wireless Car Charger for Galaxy Z Fold
Model No.: GTS12W
Trade Mark: 
FCC ID : 2AFKNGTS12W
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1093
Date of Receipt: 2022-04-06
Date of Test: 2022-04-09 to 2022-06-02
Date of Issue: 2022-07-04

Test Result :	Pass*
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Kidd Yang
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-06-06		Original
02		2022-07-04		Update the Equipments Used during Test

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



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2 General Information

2.1 Details of E.U.T.

Power supply:	Powered by car charger with Model:GTS12W Input:DC12-24V Output:DC5V,3A; DC9V,2A;DC12V,1.5A
Cable(s):	Type-C cable: 145cm unshielded
Output Power:	5W/7.5W/10W/15W
Antenna Type:	Loop Antenna
Modulation Type:	Load Modulation
Operating frequency:	110.4KHz-136.6KHz
Remark:	This device has been tested DC12V, DC24V and the worst status of full load and the device has been tested with load at 5W(Nexus mobile phone), 7.5W(Apple mobile phone) and 10W(E-Loading), 15W(SAMSUNG mobile phone), the worst case DC24V,15W is reported only.

2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA16J00
E-loading	SGS	N/A	REF. No.SEA42A00



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2.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

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.

2.4 Test 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.

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 Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-12-23
2	Electric and Magnetic Field Probe - Analyzer(3kHz-30MHz)	Narda	EHP-200AC	SEM022-20	2023-04-01

Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(5W),Input 12V DC
Pre-scan	01	Charge mode_Keep the EUT charging(7.5W),Input 12V DC
Pre-scan	02	Charge mode_Keep the EUT charging(10W),Input 12V DC
Pre-scan	03	Charge mode_Keep the EUT charging(15W),Input 12V DC
Pre-scan	04	Charge mode_Keep the EUT charging(5W),Input 24V DC
Pre-scan	05	Charge mode_Keep the EUT charging(7.5W),Input 24V DC
Pre-scan	06	Charge mode_Keep the EUT charging(10W),Input 24V DC
Final test	07	Charge mode_Keep the EUT charging(15W),Input 24V DC



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4 Test Results

4.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091

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: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1015 mbar

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



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4.1.2 Measurement Data

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		
123.8 KHz	4	Side 1	0.311	0.347	0.413	0.815	0.163
		Side 2	0.327	0.360	0.434		
		Side 3	0.323	0.355	0.427		
		Side 4	0.352	0.387	0.468		
		Top	0.361	0.403	0.479		

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		
125.1 KHz	4	Side 1	0.438	0.366	0.298	0.815	0.163
		Side 2	0.468	0.392	0.319		
		Side 3	0.457	0.382	0.311		
		Side 4	0.500	0.418	0.341		
		Top	0.512	0.429	0.349		



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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		
123.6 KHz	6	Side 1	0.263	0.295	0.348	0.815	0.163
		Side 2	0.277	0.308	0.370		
		Side 3	0.271	0.301	0.362		
		Side 4	0.300	0.331	0.397		
		Top	0.309	0.344	0.409		

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		
124.7 KHz	6	Side 1	0.375	0.312	0.254	0.815	0.163
		Side 2	0.398	0.331	0.269		
		Side 3	0.388	0.323	0.262		
		Side 4	0.426	0.354	0.288		
		Top	0.440	0.366	0.298		



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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		
121.6 KHz	8	Side 1	0.228	0.256	0.302	0.815	0.163
		Side 2	0.237	0.267	0.319		
		Side 3	0.230	0.256	0.308		
		Side 4	0.256	0.288	0.344		
		Top	0.263	0.294	0.349		

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		
122.8 KHz	8	Side 1	0.312	0.261	0.217	0.815	0.163
		Side 2	0.326	0.273	0.227		
		Side 3	0.315	0.264	0.220		
		Side 4	0.347	0.291	0.242		
		Top	0.359	0.301	0.250		



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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		
127.6 KHz	10	Side 1	0.177	0.200	0.236	0.815	0.163
		Side 2	0.187	0.210	0.249		
		Side 3	0.179	0.202	0.238		
		Side 4	0.203	0.226	0.272		
		Top	0.206	0.228	0.278		

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		
122.2 KHz	10	Side 1	0.250	0.210	0.169	0.815	0.163
		Side 2	0.264	0.222	0.179		
		Side 3	0.253	0.212	0.171		
		Side 4	0.282	0.237	0.191		
		Top	0.287	0.241	0.195		



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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		
128.2 KHz	15	Side 1	0.106	0.118	0.143	0.815	0.163
		Side 2	0.113	0.125	0.151		
		Side 3	0.108	0.126	0.145		
		Side 4	0.119	0.137	0.162		
		Top	0.122	0.136	0.166		

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		
124.6 KHz	15	Side 1	0.147	0.124	0.098	0.815	0.163
		Side 2	0.152	0.128	0.102		
		Side 3	0.145	0.122	0.097		
		Side 4	0.166	0.140	0.111		
		Top	0.168	0.141	0.112		



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5 Photographs- RF exposure Setup photos

Refer to Appendix – RF exposure setup Photos for FYCR2204000053AT

- End of the Report -



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