



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

SZEMC-TRF-01 Rev. A/1

Report No.: : SZCR231200422802

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# Human Exposure Report

**Application No.:** SZCR2312004228AT  
**Applicant:** Peak Design  
**Address of Applicant:** 2325 3rd st Suite 410, San Francisco, California, 94107 United States  
**Manufacturer:** Peak Design  
**Address of Manufacturer:** 2325 3rd st Suite 410, San Francisco, California, 94107 United States  
**Factory:** E-Power Technology Global Co. Ltd.  
**Address of Factory:** 91, Ying Shen Road, Liang Ying Village, Chao Nan District, Shantou City, Guangdong Province, 515141, China.

### Equipment Under Test (EUT):

**EUT Name:** Wireless Charging Stand  
**Model No.:** M-CS-BK-2  
**Trade Mark:** Peak Design  
**FCC ID:** 2AZ94MCSBK2  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
47 CFR PART 2, Subpart J, Section 2.1091  
**Date of Receipt:** 2023-12-21  
**Date of Test:** 2023-12-28 to 2024-01-16  
**Date of Issue:** 2024-01-22

<b>Test Result :</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above

Keny Xu  
EMC Laboratory Manager



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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-01-22		Original

Authorized for issue by:				
		Leo Li/Project Engineer		
		Eric Fu/Reviewer		



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## 2 General Information

### 2.1 Details of E.U.T.

Power supply:	Input: DC 9V/2.25A Output:5W/7.5W/10W/15W
Cable(s):	Type-C cable: 200cm shielded
Operation frequency:	114.4kHz to 148.2kHz (for 5W/7.5W/10W output) 356.8kHz to 369.6kHz (for 15W output)
Modulation type:	Load modulation
Antenna type:	Loop Antenna

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

### 2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
E-loading	SGS	N/A	REF. No.SEA42A00
E-loading	Peak Design	N/A	Client supply
iPhone 8	Apple	A1863	REF. No.SEA16M00
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00
iPhone 13	Apple	MLDYCH/A	REF. No.SEA16Q00
Adapter	XIAOMI	MDY-12-ED	REF. No.SEA05P06G



### 2.3 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, 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:

#### • 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 (Member No. 1937)

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.

Shenzhen EMC laboratory 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: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### • 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.

### 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	3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-04-01
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	SEM022-20	2024-03-31



## 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: 20cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	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).





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### 4.1.1 E.U.T. Operation

#### Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1000 mbar

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

### 4.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(5W)
Pre-scan	01	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(10W)
Final test	03	Charge mode_Keep the EUT charging(15W)



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**4.1.3 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		
360.2 kHz which is the worst case within the operation frequency range	20	Side 1	0.042	0.084	0.097	0.815	0.163
		Side 2	0.039	0.080	0.086		
		Side 3	0.044	0.087	0.099		
		Side 4	0.028	0.075	0.085		
		Top	0.039	0.132	0.154		

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		
360.2 kHz which is the worst case within the operation frequency range	20	Side 1	0.122	0.102	0.050	0.815	0.163
		Side 2	0.105	0.088	0.045		
		Side 3	0.120	0.101	0.053		
		Side 4	0.107	0.090	0.045		
		Top	0.186	0.156	0.080		



**Electric Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)			50 % Limit (V/m)	10 % Limit (V/m)
			unload	Half load	full load		
360.2 kHz which is the worst case within the operation frequency range	20	Side 1	0.038	0.230	0.305	307	61.4
		Side 2	0.041	0.198	0.260		
		Side 3	0.034	0.247	0.327		
		Side 4	0.028	0.186	0.247		
		Top	0.038	0.437	0.578		

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50 % Limit (V/m)	10 % Limit (V/m)
			zero charge	intermediate charge	full charge		
360.2 kHz which is the worst case within the operation frequency range	20	Side 1	0.268	0.222	0.129	307	61.4
		Side 2	0.229	0.191	0.107		
		Side 3	0.287	0.238	0.134		
		Side 4	0.217	0.179	0.100		
		Top	0.511	0.422	0.247		

- End of the Report -



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