

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

EMC-TRF-03 Rev 1.0

Report No.: GZCR210802091802 Page: 1 of 12 FCC ID: 2AZ94MCMAA

Human Exposure Report

Application No.:	GZCR2108020918AT
Applicant:	Peak Design
Address of Applicant:	2325 3rd St Suite 410 San Francisco CA 94107 United States
Manufacturer:	Peak Design
Address of Manufacturer:	2325 3rd StSuite 410San Francisco CA 94107 United States
Factory:	E-Power Technology Global Co. Ltd.
Address of Factory:	No.10, Fenghuangshan Road, Yantian Village, Fenggang District, Dongguan
	City, Guangdong Province, 523700, China.
Equipment Under Test (EUT)	:
EUT Name:	Wireless Charging Car Mount
Model No.:	M-CM-AA-BK-1, M-CM-AD-BK-1 🔺
*	Please refer to section 3 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	Peak Design
Standards:	47 CFR PART 1, Subpart I, Section 1.1310
	47 CFR PART 2, Subpart J, Section 2.1093
Date of Receipt:	2021-08-06
Date of Test:	2021-08-06 to 2021-08-09
Date of Issue:	2021-08-30
Test Result :	Pass*

* In the configuration tested, the EUT complied with the standards specified above

Foke. Jun

Kobe Jian EMC Laboratory Manager



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		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2021-09-06		Original

Authorized for issue by		
	Cot Mar	
	Curry Wu/Project Engineer	
	Riday Lin	
	RICKY LIU/REVIEWER	



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2 Evaluation Summary

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

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.: M-CM-AA-BK-1, M-CM-AD-BK-1

Only the model M-CM-AD-BK-1 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 color.



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4 General Information

4.1 Details of E.U.T.

	Powered by car charger with
Dewereyeehu	Model:SN-543-1PD
Fower suppry.	Input:DC12-24V
	Output:DC5V,3A; DC9V,2.22A;DC12V,1.67A
Output Power:	5W/7.5W/10W/15W
Cable(s):	Type C cable(Unshielded, 113cm)
Operation frequency:	110.08kHz to 129.26kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna
	This device has been tested the worst status of full load and the device has
Remark:	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
	15W is reported only.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
iPhone 8	Apple	A1863	REF. No.SEA16J00
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	REF. No.SEA16M01
E-loading	SGS	N/A	REF. No.SEA42A00

4.1 Measurement Uncertainty

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



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4.2 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Tel: +86 20 82155555 Fax: +86 20 82075059 No tests were sub-contracted.



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4.3 Test Facility

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

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

• FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

● ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.



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5 Equipments Used during Test

RF Exposure					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Electric and Magnetic	Narada	EHP-200A	1807200603	2021-01-25	2022-01-24
Field Analyzer	Indidud	LHF-200A	1802700003	2021-01-23	2022-01-24

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-08	2022-07-07
DMM	Fluke	73	EMC0007	2021-07-08	2022-07-07



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6 Test Results

6.1 RF Exposure test

Test Requirement:	47 CFR PART 1, Subpart I, Section 1.1310
	47 CFR PART 2, Subpart J, Section 2.1093

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

Remark: According to KDB publication 680106 section 3.c, the separation distance shall be measured from the geometric center of the probe head to the edge of the device, so test distance as above.

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/f²)	6						
30-300	61.4	0.163	1.0	6						
300-1500	/	/	f/300	6						
1500-100,000	/	/	5	6						
	(B) Limits for Genera	I Population/Uncontrolle	d Exposure							
0.3-1.34	614	1.63	*(100)	30						
1.34-30	824/f	2.19/f	*(180/f²)	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

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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).

6.1.1 E.U.T. Operation

Operating Environment:



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Tempe	erature:	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 load at zero charge, intermediate charge, and full charge.

6.1.2 Measurement Data

The max output power =15W

Magnetic Field Emissions

Operation frequency	Test Distance	Tost	Probe N	leasure Result	(A/m)	50 % Limit	10 % Limit
	(cm)	Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)
114.23 kHz which is the worst case within the operation frequency range		Side 1	0.332	0.276	0.226	0.815	0.163
	which the st case 4 in the 4 ration uency Top nge	Side 2	0.483	0.407	0.328		
		Side 3	0.427	0.357	0.290		
		Side 4	0.457	0.381	0.314		
		Тор	0.508	0.426	0.346		

Magnetic Field Emissions

Operation frequency	Test Distance	Toot	Probe N	leasure Result	(A/m)	50 % Limit	10 % Limit
	(cm)	Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)
114.23 kHz which is the worst case within the operation frequency range		Side 1	0.285	0.237	0.193		
		Side 2	0.412	0.343	0.281		
	C	Side 3	0.369	0.307	0.249	0.815	0.163
	0	Side 4	6ide 4 0.394	0.328	0.266		
	Тор	Тор	0.438	0.365	0.296		



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Magnetic Field Emissions

Operation frequency	Test Distance	Tost	Probe N	leasure Result	(A/m)	50 % Limit	10 % Limit
	(cm)	Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)
114.23kHz which is the worst case within the operation frequency range		Side 1	0.231	0.200	0.168		5 0.163
	s Side 2 Side 3 Ne Side 3 Side 4 Side 4 Cy Top	Side 2	0.342	0.286	0.237	0.815	
		Side 3	0.304	0.255	0.212		
		Side 4	0.320	0.268	0.223		
		Тор	0.361	0.303	0.252		

Magnetic Field Emissions

Operation frequency	Test Distance	Teet	Probe N	leasure Result	(A/m)	50 % Limit	10 % Limit
	(cm)	Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)
114.23 kHz which is the worst case within the operation frequency range		Side 1	0.193	0.162	0.131	0.815	0.163
		Side 2	0.274	0.231	0.188		
	10	Side 3	0.246	0.206	0.165		
		Side 4	0.259	0.217	0.174		
		Тор	0.286	0.242	0.197		



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Magnetic Field Emissions

Operation frequency	Test Distance	Toot	Probe N	leasure Result	(A/m)	50 % Limit	10 % Limit
	(cm)	Position	zero charge	intermediate charge	full charge	(A/m)	(A/m)
114.23 kHz which is the worst case within the operation frequency range	4.23 Side which Side the Side t case 15 n the Side ation Top uency Top	Side 1	0.113	0.095	0.078	0.815	0.163
		Side 2	0.166	0.139	0.111		
		Side 3	0.149	0.128	0.109		
		Side 4	0.156	0.126	0.102		
		Тор	0.169	0.143	0.115		

- End of the Report -



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of email: CNLDBccencesses.com Mt.188/kcm/kag.doineid/Fak.GuarghouEcommé&TechnologyDevelopmentDistrict,Guarghou,Chira 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn 中国・广州・经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.cchina@sgs.com