



Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR220600026203

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Human Exposure Report

Application No.: FYCR2206000262AT
Applicant: Protempo US limited, DBA Outdoor Tech
Address of Applicant: 32 Executive Park, Suite 110, Irvine, California, 92614, United States
Manufacturer: Hamedata Technology Co., Limited
Address of Manufacturer: 1-3 F & 6-8F, BLDG#A, Changfang Industrial Park, No.2 Guihua 5th Road, Pingshan District, Shenzhen
Factory: Hunan Hametech Technology co., Limited
Address of Factory: Building#1~5, Innovation Science Park, High Tech. Industrial Development District, Wuxi Town, Luxi County, Hunan Province
Equipment Under Test (EUT):
EUT Name: Power Bank
Model No.: Latch OT2976
Trade Mark: Outdoor Tech
FCC ID: 2A2L8-OT2976
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt: 2022-06-30
Date of Test: 2022-07-04 to 2022-07-12
Date of Issue: 2022-08-19

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above

Winkey Wang

Winkey Wang
EMC Technical Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-08-19		Original

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



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3 General Information

3.1 Details of E.U.T.

Power Supply:	Lithium-ion rechargeable battery (DC 3.7V 5000mAh) which can be charged from Type-C port. Type-C Input: 5V/3A,9V/2A Type-C Output: 5V/2.4A Wireless charger output: 5W/7.5W. When USB-C and WPC output at the same time, both are 5W.
Operation frequency:	114.20kHz to 149.60kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Mi	MDY-11-EP	REF. No.SEA05M02F
Type-C Cable	SGS	N/A	REF. No.SEA07C00
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00



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3.3 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.

3.4 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.

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
1	3m Anechoic Chamber	CRT	N/A	SEM001-13	2022-07-12
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	SEM022-20	2023-04-01

Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W).
Final test	01	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W).



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5 Test Results

5.1 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).

5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1020 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.



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5.1.2 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		
125 kHz which is the worst case within the operation frequency range	15	Side 1	0.052	0.062	0.075	0.815	0.163
		Side 2	0.056	0.068	0.080		
		Side 3	0.058	0.071	0.080		
		Side 4	0.060	0.072	0.086		
		Top	0.064	0.073	0.089		

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	15	Side 1	0.072	0.060	0.048	0.815	0.163
		Side 2	0.075	0.063	0.050		
		Side 3	0.079	0.066	0.052		
		Side 4	0.077	0.064	0.051		
		Top	0.081	0.069	0.056		

- End of the Report -



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