



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090302

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Human Exposure Report

Application No.: SZCR2403000903AT
Applicant: JEM ACCESSORIES INC.
Address of Applicant: 32 Brunswick Avenue Edison New Jersey 08817 United States
Manufacturer: JEM ACCESSORIES INC.
Address of Manufacturer: 32 Brunswick Avenue Edison New Jersey 08817 United States
Equipment Under Test (EUT):
EUT Name: 3in1 Foldable Wireless Charger
Model No.: XWC8-1036-WHT("-XXX" is just modifier for marketing and color)
FCC ID: 2AHAS-XWC81036
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
 47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt: 2024-03-18
Date of Test: 2024-03-22 to 2024-04-12
Date of Issue: 2024-04-18

Test Result :	Pass*
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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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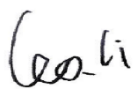
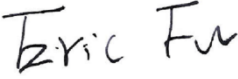
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-04-18		Original

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



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3 General Information

3.1 Details of E.U.T.

Power supply:	Input: 5V/2A 9V/3A Output 1 for Phone: 5W/7.5W/10W Output 2 for AirPods: 5W Output 3 for Apple Watch: 2.5W
Cable(s):	USB cable: 100cm unshielded
Operation frequency:	Output 1 for Phone: 115.0kHz to 134.8kHz Output 2 for AirPods: 119.98kHz to 161.73kHz Output 3 for Apple Watch: 326.92kHz to 329.20kHz & 1.70064MHz to 1.71536MHz
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.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	XIAOMI	MDY-10-EH	REF. No.SEA05L01F
E-loading	N/A	N/A	REF. No.SEA42A00
Earphone	Apple	A2566	REF. No.SEA10D00
Watch	Apple	Series 5	REF. No.SEA32A00
Watch	Apple	A2474	REF. No.SEA32A01
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
iPhone 12	Apple	MGGU3CH/A	REF. No.SEA16M00



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3.3 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.

3.4 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.



3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-04-01
2	MAGPy-8H3D+E3D	SPEAG	3061	SEM060-31	2025/04/11
3	MAGPy-DAS	SPEAG	3063	SEM060-32	2025/04/11

5 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W).
Pre-scan	01	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W).
Pre-scan	02	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 10W).
Pre-scan	03	Operation(Wireless):Keep the EUT pairing with other devices(Output2: 5W).
Pre-scan	04	Operation(Wireless):Keep the EUT pairing with other devices(Output3: 2.5W).



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Pre-scan	05	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W+Output2: 5W).
Pre-scan	06	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W+Output2: 5W).
Pre-scan	07	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 10W+Output2: 5W).
Pre-scan	08	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W+Output 3: 2.5W).
Pre-scan	09	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W+Output3: 2.5W).
Pre-scan	10	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 10W+Output 3: 2.5W).
Pre-scan	11	Operation(Wireless):Keep the EUT pairing with other devices(Output2: 5W+Output 3: 2.5W).
Pre-scan	12	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W+Output2: 5W+Output 3: 2.5W).
Pre-scan	13	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W+Output2: 5W+Output 3: 2.5W).
Final test	14	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 10W+Output2: 5W+Output 3: 2.5W).



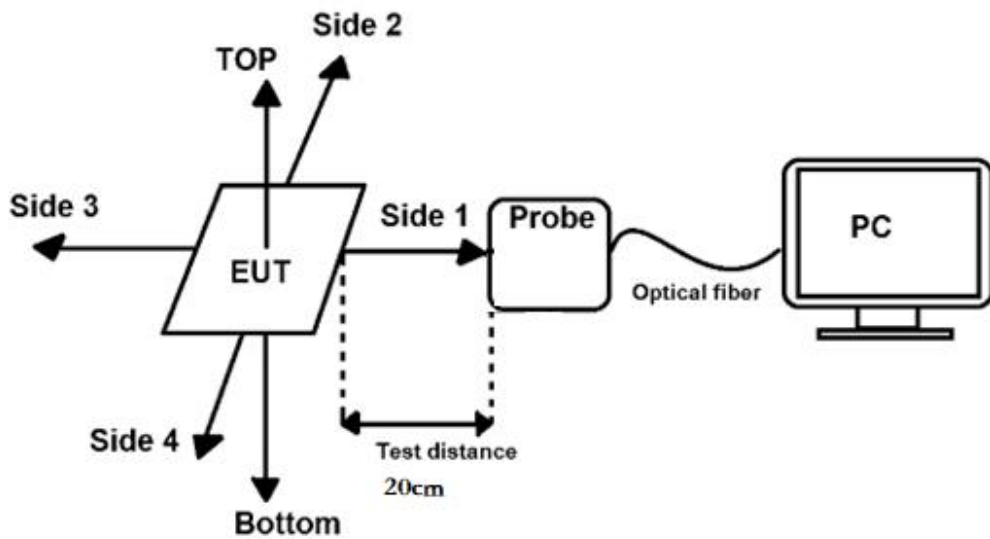
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6 Test Block Diagram



7 Test Results

7.1 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 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).

7.1.1 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



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phone, watch and earphone at zero charge, intermediate charge, and full charge.

7.1.2 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		
			132.2 kHz which is the worst case within the operation frequency range	20	Side 1		
Side 2	0.035	0.046	0.055				
Side 3	0.033	0.041	0.047				
Side 4	0.019	0.027	0.038				
Top(Output 1)	0.065	0.087	0.098				
Top(Output 2)	0.033	0.043	0.055				
Top(Output 3)	0.027	0.034	0.044				

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		
			132.2 kHz which is the worst case within the operation frequency range	20	Side 1		
Side 2	0.065	0.054	0.026				
Side 3	0.058	0.049	0.024				
Side 4	0.036	0.027	0.014				
Top(Output 1)	0.089	0.067	0.051				
Top(Output 2)	0.052	0.048	0.023				
Top(Output 3)	0.035	0.025	0.012				



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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		
			123.8 kHz which is the worst case within the operation frequency range	20	Side 1		
Side 2	0.033	0.051	0.089				
Side 3	0.043	0.065	0.083				
Side 4	0.028	0.056	0.082				
Top(Output 1)	0.049	0.073	0.095				
Top(Output 2)	0.045	0.063	0.081				
Top(Output 3)	0.029	0.062	0.077				

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		
			123.8 kHz which is the worst case within the operation frequency range	20	Side 1		
Side 2	0.066	0.055	0.037				
Side 3	0.072	0.062	0.034				
Side 4	0.057	0.033	0.028				
Top(Output 1)	0.092	0.069	0.055				
Top(Output 2)	0.071	0.059	0.031				
Top(Output 3)	0.056	0.037	0.024				





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8 Test Setup Photos

Refer to Appendix - Test Setup Photo for SZCR2403000903AT

- End of the Report -



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