



Human Exposure Report

Application No.: SZEM2008007554CR
Applicant: DongGuan city JIESHUI electronic co., Ltd.
Address of Applicant: No.152, LiYaTang Industrial Area, LinChun Village, TangXia Town, DongGuan, 523711, China
Manufacturer: DongGuan city JIESHUI electronic co., Ltd.
Address of Manufacturer: No.152, LiYaTang Industrial Area, LinChun Village, TangXia Town, DongGuan, 523711, China
Factory: DongGuan city JIESHUI electronic co., Ltd.
Address of Factory: No.152, LiYaTang Industrial Area, LinChun Village, TangXia Town, DongGuan, 523711, China
Equipment Under Test (EUT):
EUT Name: Race Pro 10W Wireless Charger-(vent/dash)
Model No.: JS-WQC-021, CY3287WLCCH, CY3288WLCCH ♣
♣ Please refer to section 2.1 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark: JSE, CYGNETT
FCC ID: 2AQAE-JSWQC021
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1093
Date of Receipt: 2020-08-05
Date of Test: 2020-08-08 to 2020-08-22
Date of Issue: 2020-08-28

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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

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

Report No.: SZEM200800755402
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-08-28		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 5V/2A; DC 9V/2A Output: 5W(DC 5V/1A), 7.5W(DC 7.5V1A), 10W(DC 9V/1.12A)
Antenna Type:	Loop Antenna
Modulation Type:	Load Modulation
Operation Frequency:	111.378kHz to 151.603kHz
Remark:	This devices had been tested the worst status of full load and the device has been tested with load at 5W,7.5W, and 10W, the worst case 10W(9V/1.12A) is reported only.

Remark:

Model No.: JS-WQC-021, CY3287WLCCH, CY3288WLCCH

The model JS-WQC-021 and CY3287WLCCH were tested. Since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference as below:

Model No.	Brand name	Base type
JS-WQC-021	JSE	Vent
CY3288WLCCH	CYGNETT	Vent
CY3287WLCCH	CYGNETT	Dashboard/windscreen

2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Car charger	Xiaomi	XM010A028	REF. No.:SEA0732
iPhone 8	Apple	A1863	F4GVQ656JC6D
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	R28J9140LPB



2.3 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle section, Science & Technology Park, 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

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. 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: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

• 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.



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3 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2020-11-27



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4 Test Results

4.1 RF Exposure test

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

Measurement Distance: 0/2/4/6/8/10/15cm

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: 23.2 °C Humidity: 53 % RH Atmospheric Pressure: 1015 mbar

EUT Operation:

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.



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4.1.2 Measurement Data for CY3287WLCCH

Output Voltage=DC 9V; The max output power =10W;Calculation of resistor value=8.1Ω

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
125 kHz	0	Side 1	0.2402	0.815
		Side 2	0.2006	0.815
		Side 3	0.2171	0.815
		Side 4	0.1995	0.815
		Top	0.1738	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
125 kHz	2	Side 1	0.2042	0.815
		Side 2	0.1665	0.815
		Side 3	0.1867	0.815
		Side 4	0.1576	0.815
		Top	0.1425	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
125 kHz	4	Side 1	0.1695	0.815
		Side 2	0.1332	0.815
		Side 3	0.1606	0.815
		Side 4	0.1324	0.815
		Top	0.1211	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
125 kHz	6	Side 1	0.1407	0.815
		Side 2	0.1132	0.815
		Side 3	0.1301	0.815
		Side 4	0.1086	0.815
		Top	0.1030	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
125 kHz	8	Side 1	0.1111	0.815
		Side 2	0.0940	0.815
		Side 3	0.1014	0.815
		Side 4	0.0879	0.815
		Top	0.0793	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
125 kHz	10	Side 1	0.0844	0.815
		Side 2	0.0742	0.815
		Side 3	0.0771	0.815
		Side 4	0.0677	0.815
		Top	0.0626	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
125 kHz	15	Side 1	0.0413	0.815
		Side 2	0.0373	0.815
		Side 3	0.0382	0.815
		Side 4	0.0346	0.815
		Top	0.0309	0.815

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
125 kHz	0	Side 1	0.2492	0.2384	0.2346	0.815
		Side 2	0.2118	0.1980	0.1936	0.815
		Side 3	0.2278	0.2120	0.2077	0.815
		Side 4	0.2085	0.1983	0.1934	0.815
		Top	0.1869	0.1726	0.1674	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
125 kHz	2	Side 1	0.2159	0.2000	0.1963	0.815
		Side 2	0.1788	0.1665	0.1618	0.815
		Side 3	0.1974	0.1825	0.1783	0.815
		Side 4	0.1699	0.1594	0.1558	0.815
		Top	0.1517	0.1364	0.1317	0.815



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
125 kHz	4	Side 1	0.1800	0.1679	0.1645	0.815
		Side 2	0.1437	0.1277	0.1235	0.815
		Side 3	0.1736	0.1627	0.1576	0.815
		Side 4	0.1452	0.1316	0.1273	0.815
		Top	0.1301	0.1184	0.1141	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
125 kHz	6	Side 1	0.1511	0.1376	0.1342	0.815
		Side 2	0.1262	0.1105	0.1069	0.815
		Side 3	0.1424	0.1270	0.1225	0.815
		Side 4	0.1208	0.1065	0.1013	0.815
		Top	0.1118	0.0959	0.0918	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
125 kHz	8	Side 1	0.1243	0.1104	0.1053	0.815
		Side 2	0.1061	0.0937	0.0888	0.815
		Side 3	0.1123	0.1002	0.0958	0.815
		Side 4	0.1002	0.0870	0.0821	0.815
		Top	0.0910	0.0794	0.0751	0.815



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
125 kHz	10	Side 1	0.0976	0.0875	0.0832	0.815
		Side 2	0.0864	0.0735	0.0693	0.815
		Side 3	0.0883	0.0760	0.0721	0.815
		Side 4	0.0787	0.0637	0.0600	0.815
		Top	0.0747	0.0634	0.0583	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
125 kHz	15	Side 1	0.0540	0.0403	0.0352	0.815
		Side 2	0.0497	0.0367	0.0330	0.815
		Side 3	0.0513	0.0388	0.0340	0.815
		Side 4	0.0449	0.0345	0.0303	0.815
		Top	0.0417	0.0264	0.0214	0.815



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Measurement Data for JS-WQC-021

Output Voltage=DC 9V; The max output power =10W;Calculation of resistor value=8.1Ω

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
125 kHz	0	Side 1	0.2318	0.815
		Side 2	0.1985	0.815
		Side 3	0.2214	0.815
		Side 4	0.1902	0.815
		Top	0.1677	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
125 kHz	2	Side 1	0.1970	0.815
		Side 2	0.1648	0.815
		Side 3	0.1904	0.815
		Side 4	0.1503	0.815
		Top	0.1375	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
125 kHz	4	Side 1	0.1635	0.815
		Side 2	0.1318	0.815
		Side 3	0.1637	0.815
		Side 4	0.1262	0.815
		Top	0.1169	0.815



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
125 kHz	6	Side 1	0.1357	0.815
		Side 2	0.1120	0.815
		Side 3	0.1326	0.815
		Side 4	0.1035	0.815
		Top	0.0994	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
125 kHz	8	Side 1	0.1072	0.815
		Side 2	0.0930	0.815
		Side 3	0.1035	0.815
		Side 4	0.0838	0.815
		Top	0.0765	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
125 kHz	10	Side 1	0.0815	0.815
		Side 2	0.0735	0.815
		Side 3	0.0786	0.815
		Side 4	0.0646	0.815
		Top	0.0604	0.815



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
125 kHz	15	Side 1	0.0399	0.815
		Side 2	0.0369	0.815
		Side 3	0.0389	0.815
		Side 4	0.0330	0.815
		Top	0.0298	0.815

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
125 kHz	0	Side 1	0.2448	0.2298	0.2248	0.815
		Side 2	0.2078	0.1941	0.1903	0.815
		Side 3	0.2306	0.2186	0.2141	0.815
		Side 4	0.1990	0.1853	0.1814	0.815
		Top	0.1808	0.1679	0.1633	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
125 kHz	2	Side 1	0.2090	0.1945	0.1894	0.815
		Side 2	0.1751	0.1616	0.1579	0.815
		Side 3	0.2023	0.1892	0.1845	0.815
		Side 4	0.1593	0.1445	0.1399	0.815
		Top	0.1502	0.1350	0.1312	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
125 kHz	4	Side 1	0.1739	0.1635	0.1598	0.815
		Side 2	0.1431	0.1276	0.1226	0.815
		Side 3	0.1765	0.1637	0.1592	0.815
		Side 4	0.1381	0.1224	0.1174	0.815
		Top	0.1287	0.1131	0.1086	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
125 kHz	6	Side 1	0.1488	0.1371	0.1335	0.815
		Side 2	0.1212	0.1074	0.1038	0.815
		Side 3	0.1414	0.1304	0.1262	0.815
		Side 4	0.1140	0.1009	0.0972	0.815
		Top	0.1085	0.0948	0.0911	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
125 kHz	8	Side 1	0.1198	0.1059	0.1024	0.815
		Side 2	0.1037	0.0908	0.0869	0.815
		Side 3	0.1160	0.1014	0.0974	0.815
		Side 4	0.0947	0.0803	0.0767	0.815
		Top	0.0871	0.0757	0.0718	0.815



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
125 kHz	10	Side 1	0.0912	0.0766	0.0725	0.815
		Side 2	0.0863	0.0742	0.0693	0.815
		Side 3	0.0905	0.0769	0.0724	0.815
		Side 4	0.0768	0.0608	0.0565	0.815
		Top	0.0693	0.0554	0.0514	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
125 kHz	15	Side 1	0.0495	0.0345	0.0303	0.815
		Side 2	0.0472	0.0362	0.0325	0.815
		Side 3	0.0488	0.0361	0.0312	0.815
		Side 4	0.0438	0.0281	0.0237	0.815
		Top	0.0408	0.0285	0.0251	0.815

5 Photographs- RF exposure Setup photos

Refer to RF Exposure Setup Photos.

- End of the Report -