



Report No.: SZEM190301130802

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Human Exposure Report

Application No.: SZEM1903011308CR
Applicant: TESSCO Technologies
Address of Applicant: 375 W. Padonia Rd. Lutherville-Timonium, Maryland 21093, United States
Manufacturer: VENDEV MOBILE
Address of Manufacturer: 11126 McCormick Rd Hunt Valley, MD 21031 USA
Factory: Shenzhen Powerqi Technology Co., Ltd
Address of Factory: 2nd&3rd Floor, A4 Building, A Area, Fangxing Science Technology Park, No.13 Baonan Road, Longgang Street, Longgang District, Shenzhen

Equipment Under Test (EUT):

EUT Name: WIRELESS CAR KIT
Model No.: FC61
Trade Mark: VENDEV
FCC ID: 2ASH9-CARKIT2
Standards: 47 CFR PART 1, SUBPART I, SECTION 1.1310
Date of Receipt: 2019-03-04
Date of Test: 2019-03-06 to 2019-04-29
Date of Issue: 2019-05-01

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



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2 General Information

2.1 Details of E.U.T.

Power supply: Input: DC 5V, 2A, DC 9V, 1.67A
Output: DC 5V, 1A, DC 7.5V, 1A, DC 9V, 1A
Car Charger:
Input: DC 12-24V,
Output: DC 5V, 3A, DC 9V, 2A, DC 12V, 1.5A
Cable: USB Cable: 100cm, Unshielded
Operation frequency: 111.5kHz to 176.0kHz
Modulation type: Load Modulation
Antenna type: Loop Antenna
Antenna Gain: 0dBi
Remark: Tests were conducted in all three load modes and the worst case (DC 9V, 1A) is reported only.

2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	SAMSUNG	SM-G9500	R28J9140LPB
Mobile Phone	Apple	A1863	F4GVQ656JC6D
DC power	ZHAOXIN	RXN-305D	SEA2700



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2.3 Test Location

All tests were performed at:

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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:

- CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- 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.



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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 (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2020-06-10
2	Electric Field Meter	Schaffner	EMC20	EMC068	2020-03-21



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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: 0-15cm

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: 25.0 °C Humidity: 51 % RH Atmospheric Pressure: 1015 mbar

EUT Operation:

This device has been tested with mobile phone at zero charge, intermediate charge, and full charge.



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4.1.2 Measurement Data

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

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
132.6kHz	0	Side 1	11.59	11.22	10.68	307
		Side 2	13.85	13.64	13.16	307
		Side 3	7.63	7.25	6.85	307
		Side 4	7.01	6.75	6.29	307
		Top	31.13	30.88	30.47	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
132.6 kHz	0	Side 1	0.6818	0.6525	0.6041	0.815
		Side 2	0.4825	0.4578	0.3959	0.815
		Side 3	0.2972	0.2764	0.2253	0.815
		Side 4	0.4151	0.3868	0.3317	0.815
		Top	0.5302	0.4988	0.4464	0.815



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Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
132.6kHz	2	Side 1	10.98	10.75	10.31	307
		Side 2	12.26	11.81	11.43	307
		Side 3	7.17	6.89	6.51	307
		Side 4	6.36	6.02	5.63	307
		Top	29.16	28.85	28.32	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
132.6 kHz	2	Side 1	0.6538	0.6286	0.5777	0.815
		Side 2	0.4742	0.4438	0.3819	0.815
		Side 3	0.2835	0.2541	0.1974	0.815
		Side 4	0.3918	0.3647	0.3079	0.815
		Top	0.5136	0.4904	0.4438	0.815

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
132.6kHz	4	Side 1	9.98	9.63	9.16	307
		Side 2	11.54	11.23	10.68	307
		Side 3	6.68	6.36	5.94	307
		Side 4	5.64	5.36	4.92	307
		Top	27.91	27.58	27.13	307



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
132.6 kHz	4	Side 1	0.6091	0.5778	0.5175	0.815
		Side 2	0.4531	0.4219	0.3652	0.815
		Side 3	0.259	0.2368	0.1863	0.815
		Side 4	0.3734	0.3446	0.2797	0.815
		Top	0.4891	0.4674	0.4052	0.815

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
132.6kHz	6	Side 1	9.03	8.79	8.26	307
		Side 2	10.7	10.33	9.94	307
		Side 3	5.8	5.54	5.04	307
		Side 4	4.64	4.41	3.93	307
		Top	25.74	25.47	24.97	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
132.6 kHz	6	Side 1	0.5847	0.5597	0.4961	0.815
		Side 2	0.4132	0.3867	0.3208	0.815
		Side 3	0.2228	0.1985	0.1459	0.815
		Side 4	0.3512	0.3301	0.2694	0.815
		Top	0.4613	0.4325	0.3768	0.815



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Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
132.6kHz	8	Side 1	8.29	8.08	7.62	307
		Side 2	9.24	8.94	8.53	307
		Side 3	4.78	4.45	3.91	307
		Side 4	3.56	3.29	2.75	307
		Top	22.63	22.28	21.84	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
132.6 kHz	8	Side 1	0.5134	0.4922	0.4331	0.815
		Side 2	0.3341	0.3083	0.2446	0.815
		Side 3	0.1783	0.1532	0.0918	0.815
		Side 4	0.3045	0.2766	0.2259	0.815
		Top	0.3616	0.3394	0.2836	0.815

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
132.6kHz	10	Side 1	6.69	6.37	5.84	307
		Side 2	7.94	7.68	7.17	307
		Side 3	3.51	3.16	2.66	307
		Side 4	2.75	2.43	1.93	307
		Top	19.72	19.44	19.05	307



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
132.6 kHz	10	Side 1	0.4249	0.4008	0.3375	0.815
		Side 2	0.2658	0.2413	0.1877	0.815
		Side 3	0.1527	0.1269	0.0653	0.815
		Side 4	0.2334	0.2062	0.1518	0.815
		Top	0.2762	0.2484	0.196	0.815

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			zero charge	intermediate charge	full charge	
132.6kHz	15	Side 1	4.05	3.79	3.27	307
		Side 2	4.87	4.51	4.08	307
		Side 3	2.17	1.87	1.48	307
		Side 4	2.2	1.81	1.31	307
		Top	12.5	12.18	11.64	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
132.6 kHz	15	Side 1	0.2821	0.2546	0.2064	0.815
		Side 2	0.1713	0.1455	0.0926	0.815
		Side 3	0.0942	0.0636	0.0385	0.815
		Side 4	0.1616	0.1385	0.0773	0.815
		Top	0.1884	0.1563	0.0918	0.815



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5 Photographs- Test photos

Refer to test RF exposure setup photos.

- End of the Report -



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