



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

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Report No.: SZEM180700634003
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Human Exposure Report

Application No.:	SZEM1807006340CR
Applicant:	FUNCTION101 GROUP LLC
Address of Applicant:	7365 COMMERCIAL WAY SUITE 115, HENDERSON, Nevada 89011 United States
Manufacturer:	Shenzhen Topband Co., Ltd
Address of Manufacturer:	Topband Building, Liyuan Industrial Park, Shiyan, Bao'an, Shenzhen, Guangdong, China
Factory:	Shenzhen Topband Co., Ltd
Address of Factory:	Topband Building, Liyuan Industrial Park, Shiyan, Bao'an, Shenzhen, Guangdong, China
Equipment Under Test (EUT):	
EUT Name:	BentoStack Charge
Model No.:	F101-BSCHG, F101-BSCHS, F101-BSCHR *
*	Please refer to section 2.2 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark:	BentoStack
FCC ID:	2AQSFBSCHG
Standard(s) :	47 CFR PART 1, SUBPART I, SECTION 1.1310
Date of Receipt:	2018-07-23
Date of Test:	2018-07-24 to 2018-07-30
Date of Issue:	2018-07-30
Test Result:	Pass*

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



Keny Xu

EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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2 General Information

2.1 Details of E.U.T.

Power supply:	Capacity: 5000mAh/18.5Wh Input: DC 5V/2A, DC 9V/1.67A USB Output: DC 5V/2.4A Max Wireless Output: 5W, 10W Max
Cable:	USB to Type C charging line: 120cm, unshielded
Operation frequency:	114.2-173.8kHz
Modulation type:	Load modulation
Antenna type:	Inductive Loop Coil Antenna
Remark:	Tests were conducted in both load modes and the worst case(DC 5V/1A) is reported only.

2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple (provided by SGS)	A1357 W010A051	REF. No.: SEA0500
Adapter	SAMSUNG (provided by SGS)	EP-TA200	R37J8YA7W71DK3
Mobile Phone	SAMSUNG (provided by SGS)	SM-G9500	R28J9140LPB

Remark:

Model No.: F101-BSCHG, F101-BSCHS, F101-BSCHR

Only the model F101-BSCHG was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on color, appearance.

2.3 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, 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.

- Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

3 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date (yyyy-mm-dd)
1	Electric Field Meter	Schaffner	EMC20	EMC068	2019-03-21

4 Test Results

4.1 RF Exposure test

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

Measurement Distance: 4cm

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: 24.0 °C Humidity: 52% 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 mobile phone built-in battery charge level at 5%, 50% and 100%.

4.1.2 Measurement Data**Output Voltage=DC 5V; The max output power =5W; Calculation of resistor value=5Ω****Electric Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)	50% Limit (V/m)
153.5kHz	4	Side 1	5.75	307
		Side 2	5.57	307
		Side 3	6.10	307
		Side 4	5.97	307
		Top	7.14	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
153.5kHz	4	Side 1	0.0861	0.815
		Side 2	0.0979	0.815
		Side 3	0.0974	0.815
		Side 4	0.0865	0.815
		Top	0.0970	0.815



Mobile phone built-in battery level has been charged at 5%, 50% and 100%.

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			5%	50%	100%	
153.5kHz	4	Side 1	5.53	5.26	5.10	307
		Side 2	5.37	5.11	4.95	307
		Side 3	5.87	5.59	5.42	307
		Side 4	5.75	5.47	5.30	307
		Top	6.87	6.54	6.34	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			5%	50%	100%	
153.5kHz	4	Side 1	0.0798	0.0751	0.0711	0.815
		Side 2	0.0907	0.0853	0.0808	0.815
		Side 3	0.0903	0.0849	0.0805	0.815
		Side 4	0.0802	0.0754	0.0715	0.815
		Top	0.0899	0.0846	0.0801	0.815

5 Photographs

5.1 Test photos

Please refer to RF exposure setup.

5.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -