



Human Exposure Report

Application No.: SZEM1911019924CR
Applicant: Chug, Inc.
Address of Applicant: 7157 Shady Oak Road Eden Prairie, Washington, Minnesota, United States 55344
Manufacturer: HANK ELECTRONICS VIETNAM LTD
Address of Manufacturer: No.7, 11 Street VSIP Tu Son Bac Ninh 16353 VIETNAM
Factory: HANK ELECTRONICS VIETNAM LTD
Address of Factory: No.7, 11 Street VSIP Tu Son Bac Ninh 16353 VIETNAM
Equipment Under Test (EUT):
EUT Name: Desk Organizers with Charger
Model No.: DO4T, DO1T, DO3C ♣
 ♣ Please refer to section 3.21 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark: Heyday
FCC ID: 2AO23-DO4T
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
Date of Receipt: 2019-11-06
Date of Test: 2019-11-09 to 2019-11-15
Date of Issue: 2019-11-20

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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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2019-11-20		Original

Authorized for issue by:			
		 <hr/> Bill Chen /Project Engineer	
		 <hr/> Eric Fu /Reviewer	



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3 General Information

3.1 Details of E.U.T.

Power Supply:	Adapter: Model:R481-1204000CU Input:AC 100-240V 50/60Hz 1.5A Output:DC 12V 4000mA Wireless output: 10W Max USB1 output: DC 5V/2.4A USB2 output: DC 5V/2.4A
Cable:	DC cable:150cm unshielded
Antenna Type:	Loop Antenna
Antenna Gain:	0dBi
Modulation Type:	Load Modulation
Operation Frequency:	112.5kHz to 148.1kHz
Remark:	This device has 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 is reported only.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 8	Apple	A1863	F4GVQ656JC6D
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	R28J9140LPB

Declaration of EUT Family Grouping:

Model No.: DO4T, DO1T, DO3C

Only the model DO4T was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model number and appearance.



3.3 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.

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**

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.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.



4 Equipments Used during Test

Item	Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
1	Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2019-05-07	2020-05-06



5 Test Results

5.1 RF Exposure test

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

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: 24.0 °C Humidity: 52% RH Atmospheric Pressure: 1015 mbar

EUT Operation:

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



5.1.2 Measurement Data

Output Voltage=DC 12V; The max output power =10W;C

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
144 kHz	15	Side 1	0.1384	0.815
		Side 2	0.0343	0.815
		Side 3	0.0591	0.815
		Side 4	0.0958	0.815
		Top	0.0667	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)
			zero charge	intermediate charge	full charge	
144 kHz	15	Side 1	0.1514	0.1379	0.1337	0.815
		Side 2	0.0476	0.0372	0.0320	0.815
		Side 3	0.0701	0.0584	0.0542	0.815
		Side 4	0.1089	0.0942	0.0898	0.815
		Top	0.0772	0.0632	0.0593	0.815





6 Photographs- RF exposure setup

Refer to RF Exposure Setup Photos.

- End of the Report -



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Shenzhen Branch (CN) EMC Laboratory

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