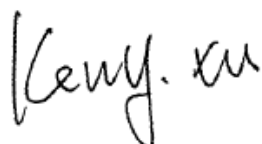


Human Exposure Report

Application No.: SZEM1904013373CR
Applicant: Design Pool Ltd
Address of Applicant: 2/F East Town Bldg 41 Lockhart Road, Wan Chai Hong Kong
Manufacturer: Design Pool Ltd
Address of Manufacturer: 2/F East Town Bldg 41 Lockhart Road, Wan Chai Hong Kong
Factory: ASAP Technology(Jiangxi) Co., Ltd.
Address of Factory: Ji'an Industrial Park Ji'an, Jiangxi China 343100
Equipment Under Test (EUT):
EUT Name: Wireless Charging Pad
Model No.: DROP03, DROPLT01 ♣
 ♣ Please refer to section 3.2 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark: Native Union
FCC ID: X3QDROP03
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
Date of Receipt: 2019-04-29
Date of Test: 2019-05-05 to 2019-05-16
Date of Issue: 2019-05-20

Test Result :	Pass*
----------------------	--------------

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



Keny Xu
 EMC Laboratory Manager



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

<i>Revision Record</i>				
Version	Chapter	Date	Modifier	Remark
01		2019-05-20		Original

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





2 Contents

1	COVER PAGE	1
1	COVER PAGE	1
2	CONTENTS	3
3	GENERAL INFORMATION	4
3.1	DETAILS OF E.U.T.	4
3.2	DESCRIPTION OF SUPPORT UNITS	4
3.3	TEST LOCATION.....	5
3.4	TEST FACILITY.....	5
3.5	DEVIATION FROM STANDARDS	5
3.6	ABNORMALITIES FROM STANDARD CONDITIONS.....	5
4	EQUIPMENTS USED DURING TEST.....	6
5	TEST RESULTS	7
5.1	RF EXPOSURE TEST	7
5.1.1	E.U.T. Operation	7
5.1.2	Measurement Data.....	8
6	PHOTOGRAPHS.....	10
6.1	TEST SETUP PHOTOS	10



3 General Information

3.1 Details of E.U.T.

Power supply: Input:DC 5.0V 2.0A 9.0V 1.67A 12V 1.5A
 Antenna Type: Loop Antenna
 Antenna Gain: 0dBi
 Modulation Type: Load Modulation
 Operation Frequency: 111.54kHz to 154.35kHz
 Remark: This device has been tested the worst status of full load and the device has been tested with load at 5W 10W, the worst case 10W is reported only.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	SAMSUNG	EP-TA200	R37J8YA7W71DK3
Micro USB Cable	PHILIPS	SWR2101	REF. No.SEA0700
Mobile Phone	SAMSUNG	SM-G9500	R28J9140LPB

Declaration of EUT Family Grouping:

Model No.: DROP03, DROPLT01

Only the model DROP03 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 name and material of cover.



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:

- **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.

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	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2020-02-06



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: 24.5 °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 at zero charge, intermediate charge, and full charge.



5.1.2 Measurement Data

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

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)	50% Limit (V/m)
152.5 kHz	15	Side 1	1.25	307
		Side 2	3.87	307
		Side 3	1.57	307
		Side 4	1.37	307
		Top	2.08	307

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
152.5 kHz	15	Side 1	0.0276	0.815
		Side 2	0.0247	0.815
		Side 3	0.0249	0.815
		Side 4	0.0251	0.815
		Top	0.0233	0.815



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	
152.5 kHz	15	Side 1	1.52	1.35	1.15	307
		Side 2	4.14	3.86	3.63	307
		Side 3	1.83	1.66	1.42	307
		Side 4	1.68	1.39	1.17	307
		Top	2.33	2.08	1.83	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	
152.5 kHz	15	Side 1	0.0373	0.0212	0.0078	0.815
		Side 2	0.0348	0.0214	0.0073	0.815
		Side 3	0.0337	0.0193	0.0058	0.815
		Side 4	0.0341	0.0218	0.0073	0.815
		Top	0.0359	0.0235	0.0094	0.815





6 Photographs

6.1 Test setup photos

Please refer to RF Exposure Setup Photos.

- End of the Report -

