

ACCREDITED
CERT #3816.01

Report No.: SZEM190601484202

Page: 1 of 10

# **Human Exposure Report**

**Application No.**: SZEM1906014842CR **Applicant:** Arconas Corporation

Address of Applicant: 5700 Keaton Crescent Mississauga Ontario Canada L8B0P8

Manufacturer: SHENZHEN EPQI TECHNOLOGY CO., LTD

Address of Manufacturer: Floor 6-9, Building 7, zhongyuntai Industrial Park, Yingrenshi Road

Crossing, Shiyan Town, Bao' an District, Shenzhen

Factory: SHENZHEN EPQI TECHNOLOGY CO., LTD

Address of Factory:

Floor 6-9, Building 7, zhongyuntai Industrial Park, Yingrenshi Road

Crossing, Shiyan Town, Bao' an District, Shenzhen

**Equipment Under Test (EUT):** 

**EUT Name:** wireless charger

Model No.: 19000
Trade mark: Arconas
FCC ID: 2ATO9-19000

Standards: 47 CFR PART 1, Subpart I, Section 1.1310

**Date of Receipt:** 2019-06-05

**Date of Test:** 2019-06-06 to 2019-06-14

**Date of Issue:** 2019-06-17

Test Result : Pass\*

Keny Xu EMC Laboratory Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above



Report No.: SZEM190601484202

Page: 2 of 10

	Revision Record									
Version	Chapter	Date	Modifier	Remark						
01		2019-06-17		Original						

Authorized for issue by:		
	Bim chen	
	Bill Chen /Project Engineer	_
	EvicFu	
	Eric Fu /Reviewer	



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Report No.: SZEM190601484202

3 of 10 Page:

# **Contents**

1	С	COVER PAGE	1
1	C	OVER PAGE	1
2	C	CONTENTS	3
3		GENERAL INFORMATION	
•		DETAILS OF E.U.T.	
		DESCRIPTION OF SUPPORT UNITS.	
	3.4		
	3.5	DEVIATION FROM STANDARDS	
		ABNORMALITIES FROM STANDARD CONDITIONS	
4	F	EQUIPMENTS USED DURING TEST	6
5	Т	EST RESULTS	7
	5 1	RF Exposure test	7
	J.1 5	5.1.1 E.U.T. Operation	1 7
		5.1.2 Measurement Data	
6	P	PHOTOGRAPHS	.10
	6.1	TEST SETUP PHOTOS	10



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Report No.: SZEM190601484202

Page: 4 of 10

# 3 General Information

## 3.1 Details of E.U.T.

Power supply: Model:DBS15Q

Input: AC 100-240V 50/60Hz 0.5A Output: DC 5V 2A/9V 2A/12V 1.5A

Cable: USB cable:95cm unshielded

Operation Frequency: 110.615KHz to 145.613KHz

Modulation Type: Load Modulation
Antenna Type: Loop Antenna

Antenna Gain: 0dBi

Remark: This device has been tested the worst status of full load and the device has

been tested with load at 5W,10W and 15W,the worst case 15W is reported

only.

# 3.2 Description of Support Units

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



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Report No.: SZEM190601484202

Page: 5 of 10

## 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.



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Report No.: SZEM190601484202

Page: 6 of 10

# 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



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Report No.: SZEM190601484202

Page: 7 of 10

# 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/cm²)	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/f²)	6				
30-300	61.4	0.163	1.0	6				
300-1500	/	1	f/300	6				
1500-100,000	/	/	5	6				
	(B) Limits for Genera	l Population/Uncontrolle	d Exposure					
0.3-1.34	614	1.63	*(100)	30				
1.34-30	824/f	2.19/f	*(180/f²)	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

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.



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<sup>\*=</sup>Plane-wave equivalent power density



Report No.: SZEM190601484202

Page: 8 of 10

## 5.1.2 Measurement Data

# Output Voltage=DC 12V; The max output power =15W; Calculation of resistor value=1.25 $\Omega$ Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)	50% Limit (V/m)
		Side 1	3.61	307
122 kHz	15	Side 2	2.05	307
		Side 3	3.79	307
		Side 4	2.23	307
		Тор	1.98	307

# **Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
122 kHz		Side 1	0.1594	0.815
		Side 2	0.1247	0.815
	15	Side 3	0.1662	0.815
		Side 4	0.1318	0.815
		Тор	0.0983	0.815



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Report No.: SZEM190601484202

9 of 10 Page:

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

## **Electric Field Emissions**

Operation	Test	Test	Probe Measure Result(V/m)			50%Limit
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(V/m)
	Side 2	Side 1	3.88	3.58	3.39	307
		Side 2	2.33	2.04	1.81	307
122 kHz		Side 3	4.05	3.74	3.51	307
		Side 4	2.52	2.29	2.06	307
		Тор	2.28	2.04	1.83	307

# **Magnetic Field Emissions**

Operation	Test	Test	Probe Measure Result(A/m)			50%Limit
frequency	Distance (cm)	Position	zero charge	intermediate charge	full charge	(A/m)
	Side 15 Side	Side 1	0.1713	0.1579	0.1435	0.815
		Side 2	0.1339	0.1225	0.1073	0.815
122 kHz		Side 3	0.1788	0.1649	0.1503	0.815
		Side 4	0.1419	0.1314	0.1163	0.815
		Тор	0.1074	0.0931	0.0783	0.815



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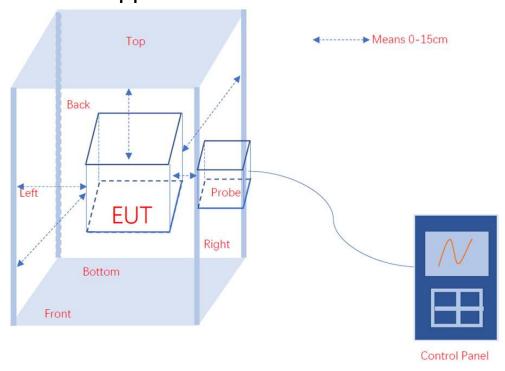


Report No.: SZEM190601484202

Page: 10 of 10

# 6 Photographs

# 6.1 Test setup photos



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