

FCC RF EXPOSURE REPORT

For

WI-FI TR RECEPTACLE, ENERGY MONITORING, 15A 120VAC

MODEL NUMBER: SQR44101WHW

FCC ID: 2AUCU-44101W

REPORT NUMBER: 4789139413.4-2

ISSUE DATE: September 18, 2019

Prepared for

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Prepared by

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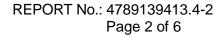




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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Schneider Electric (China) Co., Ltd., Shenzhen Branch
Address: Room 201, Building A, No. 1 Qianwanyi Road, Shengang

Cooperation Zone, Qianhai, Shenzhen, China

Manufacturer Information

Company Name: Schneider Electric (China) Co., Ltd., Shenzhen Branch Address: Room 201, Building A, No. 1 Qianwanyi Road, Shengang

Cooperation Zone, Qianhai, Shenzhen, China

EUT Information

EUT Name: WI-FI TR RECEPTACLE, ENERGY MONITORING, 15A 120VAC

Model: SQR44101WHW

Series Model: SQR44101LAW, SQR44101BKW

Model difference: All the same expect have different colors.

Sample Status: Normal Sample ID: 2530540

Sample Received Date: September 03, 2019
Date of Tested: September 04~18, 2019

APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC 47CFR§2.1091 KDB-447498 D01 V06 **PASS**

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06.

3. FACILITIES AND ACCREDITATION

3. FACILITIES AND ACCREDITATION								
	A2LA (Certificate No.: 4102.01)							
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.							
	has been assessed and proved to be in compliance with A2LA.							
	FCC (FCC Designation No.: CN1187)							
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.							
	Has been recognized to perform compliance testing on equipment subject							
	to the Commission's Delcaration of Conformity (DoC) and Certification							
	rules							
Accreditation	ISED(Company No.: 21320)							
Certificate	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.							
Continioato	has been registered and fully described in a report filed with							
	Industry Canada. The Company Number is 21320.							
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)							
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.							
	has been assessed and proved to be in compliance with VCCI, the							
	Membership No. is 3793.							
	Facility Name:							
	Chamber D, the VCCI registration No. is G-20019 and R-20004							
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011							

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.

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4. REQUIREMENT

LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure									
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time $ E ^2$, $ H ^2$ or S (minutes)					
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/150	30					
1500-100,000			1.0	30					

Note 1: f = frequency in MHz, * means Plane-wave equivalent power density

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Note 3: The limit value 1.0mW/cm² is available for this EUT.

MPE CALCULATION METHOD

 $S = PG/(4\pi R^2)$

where: S = power density (in appropriate units, e.g. mW/cm2)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

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CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

WIFI 2.4G (Worst case)									
Operating	Max. Tune up Power	Directional Gain		Power density	Limit				
Mode	(dBm)	(dBi)	(num)	(mW/ cm ²)					
802.11b	17	2.7	1.86	0.0186	1				

Note:

1. The calculated distance is 20cm.

END OF REPORT