

FCC RF EXPOSURE REPORT

For

Wireless controller

MODEL NUMBER: VEN-3S-3R-HC

FCC ID: 2ANSS-VEN-3S-3R-HC

REPORT NUMBER: 4788198318-4

ISSUE DATE: April 03, 2018

Prepared for

Guangzhou automation technology co.,ltd ROOM201,2ND BUILDING, 10TH HEPING ROAD,HUIJIANG VILLAGE,DASHI STREET,PANYU DISTRICT, GUANGZHOU.

Prepared by

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1. ATTESTATION OF TEST RESULTS

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Company Name: Guangzhou automation technology co.,ltd

Address: ROOM201,2ND BUILDING, 10TH HEPING ROAD,HUIJIANG

VILLAGE, DASHI STREET, PANYU DISTRICT, GUANGZHOU

Manufacturer Information

Company Name: Guangzhou automation technology co.,ltd

Address: ROOM201,2ND BUILDING, 10TH HEPING ROAD,HUIJIANG

VILLAGE, DASHI STREET, PANYU DISTRICT, GUANGZHOU

EUT Description

Product Name Wireless controller

Brand Name TIS

Model Name VEN-3S-3R-HC

Sample Status Good

Sample Received date November 25, 2017

Date Tested November 26, 2017 ~ March 30, 2018

APPLICABLE STANDARDS

STANDARD

TEST RESULTS Complies

Shemm, lun

Shawn Wen

DATE: April 03, 2018

FCC 47CFR§2.1091

KDB-447498 D01 V06

Tested By:	Checked By:

Kebo Zhang

Kelo. Thurs

Engineer Laboratory Leader

Approved By:

Stephen Guo

Laboratory Manager

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

Test Location	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.		
Address	Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China		
Accreditation Certificate	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. The Certificate Registration Number is 4102.01. UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The Designation Number is CN1187. UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. EMC Laboratory has been registered and fully described in a report filed with Industry Canada. The Company Number is 21320.		

Note: 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.

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/cm ²)	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	

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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) (the measured power value see Report: 4788198318-3 section 7.3)

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)

CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

WIFI2.4G (Worst case)						
Operating	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density	Limit
Mode	(dBm)	(dBm)	(dBm)	(dBi)	(W/ cm ²)	
802.11b	12.398	11.5±1	12.5	3.00	0.0000071	1
802.11g	10.310	9.5±1	10.5	3.00	0.0000045	1
802.11n20	10.803	10±1	11	3.00	0.0000050	1

Note: the calculated distance is 20cm.

END OF REPORT