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RF Exposure Evaluation Report

Product : WiFi module
Trade mark : wireless-tag

Model/Type reference : WT-01F

Serial Number : N/A

Report Number : EED32L00068902 FCC ID : 2AFOS-WT-01F

Date of Issue : May 14, 2019

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 KDB447498D01v06

Test result : PASS

Prepared for:

Wireless-tag Technology Co., LTD
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Prepared by:

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Reviewed by:	Ware Xin	Approved by:	ke In Tong
Date:	May 14, 2019	Report Seal	Kevin yang Check No.:3757542804









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2 Version

Version No.	Date	Description				
00	May 14, 2019		Original			
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	(5)	(E)	(6.)	6.		

















































































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General Information

4.1 Client Information

Applicant:	Wireless-tag Technology Co., LTD		
Address of Applicant:	Room 115-118, Building A, ChengshishanhaiCenter, No.11, Zhongxing Road, Bantian Sub-district, Longgang District, Shenzhen		
Manufacturer: Wireless-tag Technology Co., LTD			
Address of Manufacturer:	Room 115-118, Building A, ChengshishanhaiCenter, No.11, Zhongxing Road, Bantian Sub-district, Longgang District, Shenzhen		
Factory:	Wireless-tag Technology Co., LTD		
Address of Factory:	Room 115-118, Building A, ChengshishanhaiCenter, No.11, Zhongxing Road, Bantian Sub-district, Longgang District, Shenzhen		

4.2 General Description of EUT

Product Name:	WiFi module	/ 5	/12
Model No.(EUT):	WT-01E		(2)
Trade Mark:	wireless-tag		(6)
EUT Supports Radios application	IEEE 802.11b/g/n(HT20): 2412	2MHz to 2462MHz	

4.3 Product Specification subjective to this standard

Frequency Range:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz			
Modulation Type:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20): OFDM (64QAM, 16QAM, QPSK, BPSK)			
Number of Channels:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels			
Test Power Grade:	N/A			
Test Software of EUT:	ESP Series Modules FCC & CE Test Tool V2.2.3.exe (manufacturer declare)			
Antenna Type:	Spring Antenna			
Antenna Gain:	2.5dBi			
Power Supply:	DC 3.3V			
Conducted Dook Output	18.57dBm			
Conducted Peak Output Power:	The Conducted Peak Output Power data refer to the report EED32L00068901			
Sample Received Date:	Mar. 29, 2019			
Sample tested Date:	Apr. 04, 2019 to May 07, 2019			
The tested sample(s) and the	he sample information are provided by the client.			

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.















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FCC Designation No.: CN1164



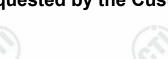
None.

4.6 Abnormalities from Standard Conditions

None

4.7 Other Information Requested by the Customer

None









































































5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)	
(A) Lim	its for Occupational	/Controlled Exposure	es		
0.3–3.0	614 1842/f	1.63 4.89/f	*(100) *(900/f²)	6	
30–300 300–1500	61.4	0.163	1.0 f/300	6	
1500-100,000			5	6	
(B) Limits t	or General Populati	on/Uncontrolled Exp	osure		
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	

A rough estimation of the expected exposure in power flux density on a given point can be made with the following equation:

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

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

R= distance to the centre of radiation of the antenna

EIRP = P*G

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. Therefore, the S of the device is calculated with R=20cm, and if it is below the limit S, then we can conclude the device complies with the rules.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually.



















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5.1.3 EUT RF Exposure Evaluation

Antenna Gain: 2dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Ch	nannel	Frequency (MHz)	Max Conducted Peak Output Power(dBm)	Gain (dBi)	EIRP* (dBm)	EIRP (mW)	R (cm)	S (mW/cm ²)	Limit (mW/cm²)	Result
M	liddle	2437	18.57	2.5	21.07	127.94	20	0.025	1.0	Pass





























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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00068901 for EUT external and internal photos.

*** End of Report ***

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