RF Exposure Evaluation Report

Product	:	wireless management system
Trade mark	:	BLAZER international
Model/Type reference	:	CWL623
Serial Number	:	N/A
Report Number	:	EED32J00285302
FCC ID	:	PZTCWL623
Date of Issue	:	Jun. 27, 2018
Test Standards	:	47 CFR Part 1.1307(2015) 47 CFR Part 1.1310(2015) KDB447498D01v06
Test result	:	PASS

Prepared for:

Tiger Accessory Group LLC
6700 Wildlife Way, Long Grove, Illinois 60047, United States

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Zone, Bao'an 70 District,
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Tested by:	Tom chen (Test Project)	Compiled by:	Max liang (Project Engineer)
Reviewed by:	Kevin yang (Reviewer)	Approved by:	Sheek Luo (Lab supervisor)
Date:	Jun. 27, 2018		Check No.:2448734114

CENTRE TESTING INTERNATIONAL GROUP CO.,LTD. Report Seal

2 Version

Version No.	Date	Description
00	Jun. 27, 2018	Original

3 Contents

4 General Information

4.1 Client Information

Applicant:	Tiger Accessory Group LLC
Address of Applicant:	6700 Wildlife Way, Long Grove, Illinois 60047, United States
Manufacturer:	TOKING AUTO INDUSTRIAL INT' L CO., LTD.
Address of Manufacturer:	A-202, ZHONGTIAN MCC, TONGPU ROAD ACROSS XIDOUMEN ROAD, HANGZHOU 310012 CHINA
Factory:	ZHEJIANG LEIYA ELECTRONICS CO., LTD.
Address of Factory:	NO. 519, ROAD 15, BINHAI INDUSTRIAL PARK, WENZHOU, ZHEJIANG 325025, CHINA.

4.2 General Description of EUT

Product Name:	wireless management system
Model No.(EUT):	CWL623
Trade Mark:	BLAZER international
EUT Supports Radios application	BT4.0

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Test Power Grade:	N/A
Test Software of EUT:	BK RF Test_V1.3(manufacturer declare)
Antenna Type:	PCB
Antenna Gain:	2dBi
Software version:	V1.2(manufacturer declare)
Hardware version:	LY-APP40A-B.PCB(manufacturer declare)
Power Supply:	DC 12V
Conducted Peak Output Power:	-1.848dBm
	The Conducted Peak Output Power data refer to the report EEED32J00285301
Sample Received Date:	Dec. 14, 2017
Sample tested Date:	Dec. 14, 2017 to Jun. 27, 2018
The tested sample(s) and the sample information are provided by the client.	

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385

No tests were sub-contracted.

4.5 Deviation from Standards

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) 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

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.

5.1.3 EUT RF Exposure Evaluation

Antenna Gain: 2dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency (MHz)	Max Conducted Peak Output Power(dBm)	Gain (dBi)	EIRP* (dBm)	EIRP (mW)	R (cm)	S (mW/cm^2)	Limit (mW/cm^2)	Result
Lowest	2402	-1.848	2	0.152	1.04	20	0.0002	1.0	Pass

Note: Refer to report No. EEED32J00285301 for EUT test Max Conducted Peak Output Power value.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EEED32J00285301 for EUT external and internal photos.

*** End of Report ***