Pacific Cycle Inc.

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

Model:
KT1545I

REPORT NUMBER:
191100696SHA-002

ISSUE DATE:
Jan 14, 2020

DOCUMENT CONTROL NUMBER:
TTRFFCCMPE-01_V1

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Total Quality. Assured.

TEST REPORT

Report no.: 191100696SHA-002

Applicant:	Pacific Cycle Inc. 4902 hammersley Road madison, WI 53711, USA
Manufacturer:	PINGHU WEIKESI CHILDREN TOYS CO.,LTD No.358 Yousheng Duan, Provincial Highway 01, Dushan Harbor Town, Pinghu, Zhejiang, China
FCC ID:	2ABGL-009

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:
KDB447498 D01 General RF Exposure Guidance v06 FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:	**REVIEWED BY:**
Project Engineer Stephanie Zhang	Reviewer Wakeyou Wang

TEST REPORT

Revision History

Report No.	Version	Description	Issued Date
191100696SHA-002	Rev. 01	Initial issue of report	Jan 14, 2020

TEST REPORT

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	6V Luxury Chevy Colorado Camo
Type/Model:	KT1545I
Description of EUT:	This is a toy car with Bluetooth module. There is only one model.
Rating:	Battery Charger: Input 120V,0.2A,50/60Hz; output:7VDC,0.8A
Category of EUT:	Class B
EUT type:	☐ Table top ☒ Floor standing
Software Version:	/
Hardware Version:	/
Sample received date:	11/10/2019
Date of test:	11/10/2019 – 12/29/2019

1.2 Technical Specification

Frequency Range:	2400MHz ~ 2483.5MHz
Support Standards:	Bluetooth 4.2 (BR+EDR)
Type of Modulation:	GFSK, π/4 DQPSK
Channel Number:	79 (0 - 78)
Channel Separation:	1 MHz
Antenna Information:	PCB Antenna, -0.58 dBi

1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN1175
	IC Registration Lab Registration code No.: 2042B-1
	VCCI Registration Lab Registration No.: R-4243, G-845, C-4723, T-2252
	NVLAP Accreditation Lab NVLAP LAB CODE: 200849-0
	A2LA Accreditation Lab Certificate Number: 3309.02

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2 MPE Assessment

Test result: Pass

2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (uT)	Equivalent plane wave power density S_{eq} (W/m^2)
0-1 Hz	-	$3,2 \times 10^4$	4×10^4	-
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	-
8-25 Hz	10 000	4 000/f	5 000/f	-
0,025-0,8 kHz	250/f	4/f	5/f	-
0,8-3 kHz	250/f	5	6,25	-
3-150 kHz	87	5	6,25	-
0,15-1 MHz	87	0,73/f	0,92/f	-
1-10 MHz	$87/f^{1/2}$	0,73/f	0,92/f	-
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375\ f^{1/2}$	$0,0037\ f^{1/2}$	$0,0046\ f^{1/2}$	f/200
2-300 GHz	61	0,16	0,20	10

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0**

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2.2 Assessment Results

Power density (S) is calculated according to the formula:

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

Where S = power density in mW/cm^2

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 191100696SHA-001:
The maximum radiated power = -2.72dBm = 0.535mW;
Here R is chosen to be 20cm,

$S = P / (4\pi R^2) = 0.535 / (4 * 3.14 * 20 * 20) = 0.0001\ mW/cm^2 < 1\ mW/cm^2$

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Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.
To ensure compliance, operations at closer than this distance is not recommended.

********** END **********