RF EXPOSURE REPORT

Applicant	Pacific Industries Limited.
Address	Unit 10, 10/F., CDW Building, 382-392 Castle Peak Road, Tsuen Wan, N.T., HK

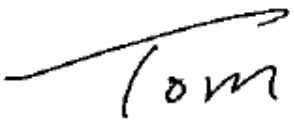
Manufacturer or Supplier	Super Happy Fun Fun, Inc.
Address	11044 Research Blvd, Suite C-220, Austin, TX 78759 U.S.A.
Product	SureShot HD Gaming Platform – Set Top Unit
Brand Name	SureShot HD
Model	2017-888-ST-002A
Additional Model & Model Difference	N/A
Date of tests	Aug. 08, 2016 ~ Aug. 12, 2016

☒ **FCC Part 2 (Section 2.1091)**

☒ **KDB 447498 D01**

☒ **IEEE C95.1**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Tom Chen Project Engineer / EMC Department	Approved by Glyn He Supervisor / EMC Department
	 Date: Jul. 11, 2017

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification

TABLE OF CONTENTS

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS160808N009	Original release	Aug. 12, 2016
FS170502N013	Based on the original report FS160808N009, added switch to DC input, change model number and FCC ID number. Don't retest after engineer evaluated.	Jul. 11, 2017

1. CERTIFICATION

FCC ID:	SMEST001A-A
PRODUCT:	SureShot HD Gaming Platform – Set Top Unit
BRAND NAME:	SureShot HD
MODEL NO.:	2017-888-ST-002A
ADDITIONAL NO.:	N/A
TEST SAMPLE:	Engineering Sample
APPLICANT:	Pacific Industries Limited.
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm^2)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	…	…	F/1500	30
1500-100,000	…	…	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Mode	Transmitter Circuit	Peak Gain (dBi)	Antenna Type
BT	Chain 0	2.0	Wire Antenna
WIFI	Chain 0	2.0	Wire Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT (GFSK)	2402-2480MHz	3	+-2	1	5
BT (8DPSK)	2402-2480MHz	2	+-2	0	4
BT-LE (GFSK)	2402-2480MHz	1	+-2	-1	3
802.11b	2412-2462MHz	16	+-2	14	18
802.11g	2412-2462MHz	13	+-2	11	15
802.11n HT20	2412-2462MHz	12	+-2	10	14
802.11n HT40	2422-2452MHz	11	+-2	9	13

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT (GFSK)	2402	3.27
BT (8DPSK)	2402	2.21
BT-LE (GFSK)	2440	2.00
802.11b	2412	16.44
802.11g	2462	13.16
802.11n HT20	2462	12.67
802.11n HT40	2452	11.82

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
BT 2402-2480	5	2.0	20	0.00100	1.0
WiFi 2412-2462	18	2.0	20	0.01989	1.0

CONCLUSION:

The BT and WLAN can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 + ……etc. < 1

CPD = Calculation power density

LPD = Limit of power density

(0.00100/1)+(0.01989/1) = 0.02089<1, which is less than the “1” limit.

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