

RF EXPOSURE REPORT

Applicant	C&A Marketing, INC.
Address	114 Tived Lane East. Edison, NJ 08837, USA

Manufacturer or Supplier	C&A Marketing, INC.
Address	114 Tived Lane East. Edison, NJ 08837, USA
Product	Sprocket Photobooth
Brand Name	
Model	HPISPPB
Additional Model & Model Difference	NA
Date of tests	Sep. 18, 2023 ~ Oct. 26, 2023

- ☒ FCC Part 2 (Section 2.1091)
- ☒ FCC Part 1 (Section 1.1310)
- ☒ KDB 447498 D01 V06
- ☒ IEEE C95.1

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

Tested by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	

Date: Dec. 26, 2023

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Test Report No.: FM2309WDG0108

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2309WDG0108	Original release	Dec. 26, 2023

1. CERTIFICATION

PRODUCT:	Sprocket Photobooth
BRAND NAME:	
MODEL NO.:	HPISPPB
ADDITIONAL MODEL:	NA
FCC ID:	2AD2W-PHOTOBOOTH
TEST SAMPLE:	ENGINEERING SAMPLE
APPLICANT:	C&A Marketing, INC.
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01 V06
	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

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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:

Frequency Band	Antenna Gain (dBi)	Antenna Type
Wi-Fi 2.4GHz	3.38	PCB Antenna
Wi-Fi 5GHz (5150-5250MHz)	2.27	PCB Antenna
Wi-Fi 5GHz (5725-5850MHz)	3.26	PCB 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)
Wi-Fi 2.4GHz	2412-2462MHz	16	+2	14	18
Wi-Fi 5GHz(Band1)	5150-5250MHz	14	+2	12	16
Wi-Fi 5GHz(Band4)	5725-5850MHz	11	+2	9	13

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
Wi-Fi 2.4GHz	2462	16.31
Wi-Fi 5GHz(Band1)	5240	13.98
Wi-Fi 5GHz(Band4)	5755	10.75

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
Wi-Fi 2.4GHz	18	3.38	20	0.027336	1.0
Wi-Fi 5GHz	16	2.27	20	0.013358	1.0

CONCLUSION:

The Wi-Fi 2.4G and Wi-Fi 5G can't transmit simultaneously.

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