RF EXPOSURE REPORT

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

Manufacturer or Supplier	C&A Marketing, Inc.
Address	114 Tived Lane East, Edison NJ 08837
Product	Sprocket Studio Plus Photo Printer
Brand Name	HP
Model	HPISPS4X6
Additional Model & Model Difference	N/A
Date of tests	Mar. 31, 2022 ~ Jun. 15, 2022

☒ **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 Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager/ EMC Department
	 Date: Jun. 21, 2022

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2205WDG0350	Original release	Jun. 21, 2022

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1. CERTIFICATION

PRODUCT:	Sprocket Studio Plus Photo Printer
BRAND NAME:	HP
MODEL NO.:	HPISPS4X6
ADDITIONAL MODEL:	N/A
FCC ID:	2AD2W-HPISPS4X6
TEST SAMPLE:	ENGINEERING SAMPLE
APPLICANT:	C&A Marketing, Inc.
TESTED DATES:	Mar. 31, 2022 ~ Jun. 15, 2022
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:

Frequency Band	Antenna Gain (dBi)	Antenna Type
Wi-Fi 2.4GHz	0	PCB Antenna
BT	0	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)
BT (GFSK)	2402-2480MHz	4	+-2	2	6
BT (8DPSK)	2402-2480MHz	1	+-2	-1	3
BT-LE (GFSK)	2402-2480MHz	3	+-1	2	4
802.11b	2412-2462MHz	16	+-2	14	18
802.11g	2412-2462MHz	13	+-2	11	15
802.11n HT20	2412-2462MHz	13	+-2	11	13

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT (GFSK)	2402	4.55
BT (8DPSK)	2402	1.85
BT-LE (GFSK)	2402	2.62
802.11b	2412	16.43
802.11g	2412	13.48
802.11n HT20	2412	13.68

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
BT	6	0	20	0.000792	1.0
Wi-Fi 2.4GHz	18	0	20	0.012552	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

(0.000792/1)+(0.012552/1) = 0.013344<1, which is less than the “1” limit.

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