

ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No. : OT-219-RWD-068

Reception No. : 2109004037

Applicant : C&A Marketing Inc.

Address : 114 Tived Lane East, Edison, New Jersey, 08837, United States

Manufacturer : C&A Marketing Inc.

Address : 114 Tived Lane East, Edison, New Jersey, 08837, United States

Type of Equipment : Sprocket 3x4 Printer

FCC ID. : 2AD2W-HPISP3X4W

Model Name : HPISP3X4W

Serial number : N/A

Total page of Report : 6 pages (including this page)

Date of Incoming : September 01, 2021

Date of issue : September 30, 2021

SUMMARY

The equipment complies with the regulation; *FCC 47 CFR Part 1, 1.1310*

This test report only contains the result of a single test of the sample supplied for the examination.

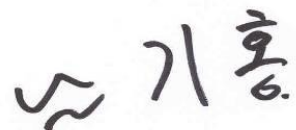
It is not a generally valid assessment of the features of the respective products of the mass-production.



Tested by
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ONETECH Corp.



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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-219-RWD-068	September 30, 2021	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : C&A Marketing Inc.

Address : 114 Tived Lane East, Edison, New Jersey, 08837, United States

Contact Person : Chaim, Piekarski / Chief Executive Officer

Telephone No. : +8482442000

FCC ID : 2AD2W-HPISP3X4W

Model Name : HPISP3X4W

Brand Name : hp

Serial Number : N/A

Date : September 30, 2021

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM DSS – PART 15 SPREAD SPECTRUM TRANSMITTER
E.U.T. DESCRIPTION	Sprocket 3x4 Printer
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

- . The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. GENERAL INFORMATION

2.1 Product Description

The C&A Marketing Inc., Model HPISP3X4W (referred to as the EUT in this report) is a Sprocket 3x4 Printer. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Sprocket 3x4 Printer		
Temperature Range	0 °C ~ 45 °C		
OPERATING FREQUENCY	Bluetooth LE	2 402 MHz ~ 2 480 MHz	
	Bluetooth	2 402 MHz ~ 2 480 MHz	
MODULATION TYPE	Bluetooth LE	GFSK for 1 Mbps	
	Bluetooth	GFSK for 1Mbps, $\pi/4$ -DQPSK for 2Mbps, 8-DPSK for 3Mbps	
RF OUTPUT POWER	Bluetooth LE	1.28 dBm	
	Bluetooth	1 Mbps	4.07 dBm
		2 Mbps	0.26 dBm
		3 Mbps	0.65 dBm
ANTENNA TYPE	Chip Antenna		
ANTENNA GAIN	1.8 dBi		
List of each Osc. or crystal Freq. (Freq. \geq 1 MHz)	24 MHz		

2.2 Alternative type(s)/model(s); also covered by this test report.

-. None

3. EUT MODIFICATIONS

-. None

4. RF EXPOSURE EVALUATION

4.1 RF Exposure Calculation

According to the FCC rule §1.1310, the limit for General Population/Uncontrolled exposure is 1 mW/cm² for the device operating 1 500 ~ 100 000 MHz.

4.2 EUT Description

Kind of EUT	Sprocket 3x4 Printer
Device Category	<input checked="" type="checkbox"/> Portable (< 20 cm separation) <input type="checkbox"/> Mobile (> 20 cm separation) <input type="checkbox"/> Others
Exposure Evaluation Applied	<input type="checkbox"/> MPE <input type="checkbox"/> SAR <input checked="" type="checkbox"/> SAR Test Exclusion Evaluation

4.3 Test Result of SAR Exclusion for Devices

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

$$[(\text{Max. Power of channel, including tune-up tolerance, mW})/(\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$$

$$= (3.21/5) \times \sqrt{2.48} = 1.01$$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

Mode	Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
BDR (1 Mbps)	2 480	4.07 ± 1.0	5.07	3.21	5	1.01
EDR (2 Mbps)	2 441	0.26 ± 1.0	1.26	1.34	5	0.42
EDR (3 Mbps)	2 441	0.65 ± 1.0	1.65	1.46	5	0.46
BLE	2 480	1.28 ± 1.0	2.28	1.69	5	0.53