



RF Exposure Evaluation Declaration

FCC ID: HD5-PX900A

APPLICANT: Honeywell International Inc
Honeywell Safety and Productivity Solutions

Application Type: Certification

Product: Printer

Model No.: PX940

Trademark: Honeywell

FCC Classification: Digital Transmission System (DTS)

Reviewed By:

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The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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Revision History

Report No.	Version	Description	Issue Date	Note
1812RSU031-U2	Rev. 01	Initial Report	2019-01-09	Valid

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name:	Printer
Model No.:	PX940
Brand Name:	Honeywell
Bluetooth Version:	v4.2 single mode (Only BLE)

1.2. Antenna Description

Antenna Type	Manufacturer	Frequency Band (MHz)	Max Peak Antenna Gain (dBi)
Chip Antenna	TAIYO YUDEN	2402 ~ 2480	1.3

2. RF Exposure Evaluation

2.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	f/1500	6
1500-100,000	--	--	1	30

f= Frequency in MHz

Calculation Formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

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

P_d is the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2.2. Test Result of RF Exposure Evaluation

Product	Printer
Test Item	RF Exposure Evaluation

Antenna Gain: Refer to clause 1.2.

Test Mode	Frequency Band (MHz)	Max Conducted Power (dBm)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)
Bluetooth-LE	2402 ~ 2480	0.69	0.0003	1

CONCULISON:

The max Power Density at R (20 cm) = $0.0003\text{mW/cm}^2 < 1\text{mW/cm}^2$.

So the EUT complies with the requirement.

_____ The End _____

Appendix A - Test Setup Photograph

Refer to “1812RSU031-UT” file.

Appendix B - EUT Photograph

Refer to “1812RSU031-UE” file.