

RF Exposure Evaluation Declaration

產品名稱(中文)：Lifeprint 3x4.5 Photo Printer

型 號：LP002

廠 牌：Lifeprint

申請者：DSGLOBAL CO., LTD.

地 址：2F, 107, Gasan digital 2-ro, Geumcheon-gu, Seoul, 08505, Korea

樣 品 日 期：Sep. 27, 2017

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本測試報告只針對受測產品有效
本測試報告非經德凱認證同意不可局部複製使用

低功率射頻電機量測報告證明書

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產品名稱	Lifeprint 3x4.5 Photo Printer
申請者	DSGLOBAL CO., LTD.
地址	2F, 107, Gasan digital 2-ro, Geumcheon-gu, Seoul, 08505, Korea
製造廠商	(1) DSGLOBAL CO., LTD. (2) DSGLOBAL VINA CO., LTD
製造地址	(1) 2F, 107, Gasan digital 2-ro, Geumcheon-gu, Seoul, 08505, Korea (2) Lot XN3-1E, Dai An Expansion Industrial Zone, Lai Cach Town, Cam Giang District, Hai Duong Province, Vietnam
待測物電壓	Mode 1: AC 110V / 60Hz(Power by PC) Mode 2: DC 7.4V(Power by Battery)
測試電壓	Mode 1: AC 110V / 60Hz(Power by PC) Mode 2: DC 7.4V(Power by Battery)
商標或廠牌	Lifeprint
型式號	LP002
試驗標準	低功率射頻電機技術規範 (105 年 08 月 23 日)
試驗結果	符合

註：本測試報告只針對受測產品有效



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1. RF Exposure Evaluation

1.1. Limits

According to NCC LP0002 section 5.20 : 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 5.20.2

職業性/可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3-3.0	614	1.63	*100	6
3-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500	-----	-----	f/300	6
1,500-100,000	-----	-----	5.0	6

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

一般人/不可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3-3.0	614	1.63	*100	30
3-30	1842/f	4.89/f	*180/f ²	30
30-300	27.5	0.073	1.0	30
300-1,500	-----	-----	f/1500	30
1,500-100,000	-----	-----	1.0	30

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

Pd id the limit of MPE, 1 mW/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.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

WiFi

Product	Lifepoint 3x4.5 Photo Printer
Test Mode	Transmit
Test Condition	RF Exposure Evaluation

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber are 1.8 dBi or 1.51 in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11b (ANT 0+1)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
1	2412	106.9055	0.03211
6	2437	108.3927	0.03256
11	2462	104.2317	0.03131

IEEE 802.11g (ANT 0+1)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
1	2412	193.1968	0.05804
6	2437	279.2544	0.08389
11	2462	205.1162	0.06162

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	Lifeprint 3x4.5 Photo Printer
Test Mode	Transmit
Test Condition	RF Exposure Evaluation

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber are 2.43 dBi or 1.75in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11n (20MHz) (ANT 0+1)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
1	2412	177.0109	0.05317
6	2437	274.7894	0.08255
11	2462	175.3881	0.05269

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

BT 2.0

Product	Lifeprint 3x4.5 Photo Printer
Test Mode	Transmit
Test Condition	RF Exposure Evaluation

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.8dBi or 1.51 in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

GFSK			
Bluetooth Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
00	2402	6.8865	0.00207
39	2441	8.5310	0.00256
78	2480	8.6497	0.00260

$\pi/4$ DQPSK			
Bluetooth Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
00	2402	4.6559	0.00140
39	2441	6.3973	0.00192
78	2480	6.2951	0.00189

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	Lifeprint 3x4.5 Photo Printer
Test Mode	Transmit
Test Condition	RF Exposure Evaluation

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.8dBi or 1.51 in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

8DQPSK			
Bluetooth Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
00	2402	6.5766	0.00198
39	2441	6.8549	0.00206
78	2480	6.7608	0.00203

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².