



RF Exposure Evaluation Report

Equipment : WirelessHD Transmitter
Brand Name : EPSON
Model No. : WiT4-G0
FCC ID : BKMAE-WIT4G0
Standard : 47 CFR Part 2.1091
Applicant : SEIKO EPSON CORPORATION
3-3-5 Owa Suwa-shi Nagano-Ken 392-8502, Japan
Manufacturer : SEIKO EPSON CORPORATION Toyoshina office
6925 Tazawa, Toyoshina Azumino-shi, Nagano
399-8285 Japan

The product sample received on Dec. 04, 2015 and completely tested on Jan. 13, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with 47 CFR Part 2.1091, and pass the limit.

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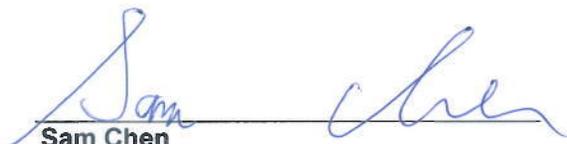

Sam Chen
SPORTON INTERNATIONAL INC.





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1 General Description

1.1 EUT General Information

The Channel Plan(s)	
Low-rate PHY (LRP) Band	Channel 2 LRP: 60.16275-60.79725 GHz Channel 3 LRP: 62.32275-62.95725 GHz
High-rate PHY (HRP) Band	Channel 2 HRP: 60.48 GHz Channel 3 HRP: 62.64 GHz

1.2 Testing Location

Testing Location		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-327-0973
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

2 Maximum Permissible Exposure

2.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Method

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$



2.3 Calculated Result and Limit

Exposure Environment	General Population / Uncontrolled Exposure					
Temp	20.5°C		Humidity	32%		
Test Engineer	Owen Hsu		Test Date	Dec. 21, 2015		
Test results						
Maximum EIPR Power of Test Frequency (GHz)	Average EIRP Power (dBm)	Average EIRP Power (mW)	Power Density (S) (mW/cm²)	Separation Distance (cm)	Limit of Power Density (S) (mW/cm²)	
LRP 60.7925 GHz	22.41	174.35	0.035	20	1.00	
HRP 60.48 GHz	30.60	1148.34	0.229	20	1.00	