

SGS-CSTC Standards Technical Services Co., Ltd.

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RF Exposure Evaluation declaration

Application No.: SZEMO091207141RF

Applicant: Shinsei Industries Co., Ltd.

Address of Applicant: 4-12-15 Horifune, Kita-ku, Tokyo 114-0004, Japan

Manufacturer:Shinsei Industries Co., Ltd.Factory:Shinsei Industries Co., Ltd.

Address of 4-12-15 Horifune, Kita-ku, Tokyo 114-0004, Japan

Manufacturer/ Factory:

FCC ID: U6PBP000002

Fundamental Carrier 2402MHz~2480MHz

Frequency:

Equipment Under Test (EUT):

Name: Mobile Printer

Model No.: DP-2E Trade Mark: N/A

Date of Receipt: 22 December 2009

Date of Test: 22 December 2009 to 08 January 2010

Date of Issue: 11 January 2010

Test Result : PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Robinson Lo Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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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 in1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm2)	Average Time (Minutes)		
(A) Limits for Occupational/ Controled Exposures						
300-1500			F/300	6		
1500-100,000			5	6		
(B) Limits for General Population/ Uncontroled Exposures						
300-1500			F/1500	30		
1500-100,000			1	30		

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*pi*r2)

Where

Pd = power density in mW/cm2

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

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.

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2.2 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℃ and 78% RH.

2.3 Test Result of RF Exposure Evaluation

Antenna Gain: 2dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.585 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

		Output Pov	wer to Antenna	Power Density at R = 20 cm
Channel	Frequency (MHz)	dBm	mW	(mW/cm2)
Lowest	2402	3.17	2.075	0.000654
Middle	2441	3.47	2.223	0.000701
Highest	2480	3.11	2.046	0.000645

Remark:

The distance r (4th column) calculated from the Fries transmission formula is far shorter than 20 cm separation requirement.