

FCC COMPLIANCE REPORT

Order No. : STR-05-0025/E
Reference No. : F690501/LF-EMC000885
Applicant : SUNTEK WIRELESS Co., Ltd.
Address of Applicant : 3F, Tae Hyun Bldg., 664-2, Deungchon-3dong, Gangseo-gu, Seoul, 157-033, Korea

Equipment Under Test (EUT) :

Name : Word Message Pager
Model No. : STW-1093A
FCC ID : SZ71093A

Standards : FCC Part 15, Subpart B, Class B
ANSI C63.4:2003

Date of Receipt : 02 February 2005

Date of Test : 15 February 2005

Date of Issue : 16 February 2005

Test Result :	PASS
----------------------	-------------

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

Remarks :

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report shall not be reproduced except in full, without the written approval of the laboratory. 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.



Carl Lee
EMC DIV. Manager
SGS Testing Korea CO., LTD.

Contents

1. General Information

1.1 Manufacturer Information	3
1.2 General Description of EUT	3
1.3 Details of EUT	3
1.4 Description of Support Units	3
1.5 Cable List	3
1.6 System Configuration	4
1.7 Test Set-Up Configuration	4
1.8 Measurement Procedure	4
1.9 Standards Applicable for Testing	5
1.10 Summary of Results	5

2. Radio Disturbance

2.1 Test Results	6
2.2 Frequency Range	6
2.3 Limit Of Conducted And Radiated Emission	6
2.3.1 Limit Of Conducted Emission Of FCC Part 15, Subpart B	6
2.3.2 Limit Of Radiated Emission Of FCC Part 15, Subpart B	6
2.4 Test of Conducted Emission	7
2.4.1 Test Instruments	7
2.4.2 Test Site	7
2.4.3 Operating Environment	7
2.4.4 Measurement Data	7
2.5 Test of Radiated Emission	8
2.5.1 Test Instruments	8
2.5.2 Test Site	8
2.5.3 Operating Environment	8
2.5.4 Measurement Data	8
3. Photographs of Test	9
4. Photographs of Product	11

1. General Information

1.1 Applicant & Manufacturer Information

Applicant : SUNTEK WIRELESS Co., Ltd.
Address of Applicant : 3F, Tae Hyun Bldg., 664-2, Deungchon-3dong,
Gangseo-gu, Seoul, 157-033, Korea
Manufacturer : SUNTEK WIRELESS Co., Ltd.
Address of Manufacturer : 3F, Tae Hyun Bldg., 664-2, Deungchon-3dong,
Gangseo-gu, Seoul, 157-033, Korea

1.2 General Description of EUT

Name : Word Message Pager
Model No. : STW-1093A
FCC ID : SZ71093A
Serial No : None

1.3 Details of EUT

Operating Frequency : 929.0125MHz - 931.9875MHz
Tested Power Supply : DC 1.5V
Port : None
Description of Operating : Receive wireless signal and transform it to word message.
Modifications to the EUT : None

1.4 Description of Support Units

Product	Model No.	Serial No.	Manufacturer
-	-	-	-

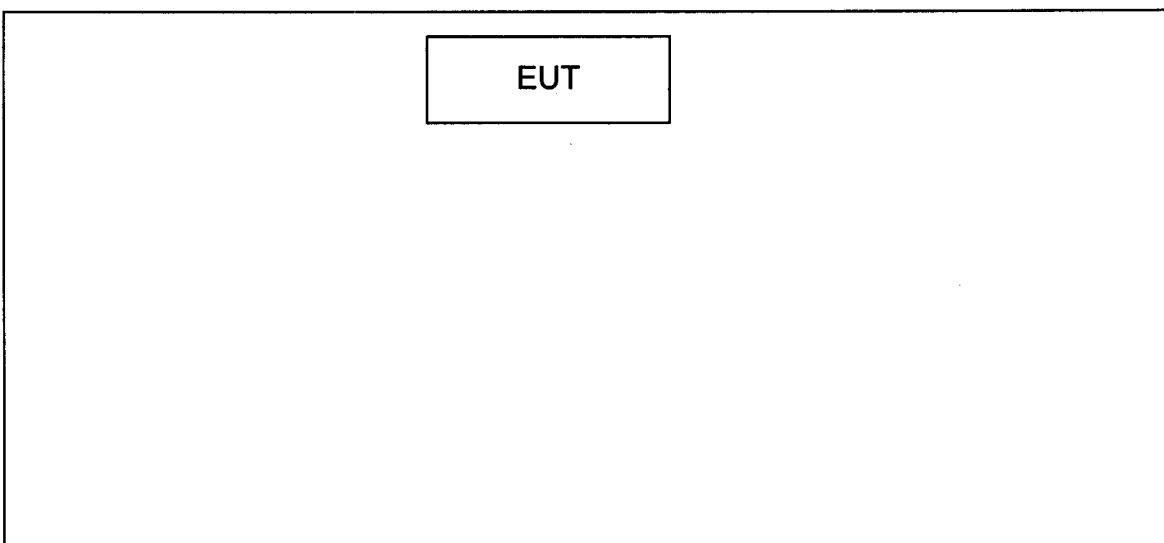
1.5 Cable List

Start		END		Cable Spec	
Name	I/O Port	Name	I/O Port	Length	Shield
-	-	-	-	-	-

1.6 System Configuration

Description	Model	Serial No.	Manufacturer
Logic Board	STW-1093A LOGIC	N/A	N/A
RF Board	STW-1093A 900RF	N/A	N/A

1.7 Test Set-Up Configuration



1.8 Measurement Procedure

Conducted Emission Testing was performed according ANSI C63.4:2003 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2003 at the open field test site. The EUT was placed in a 0.8m high table along with the peripherals. The turn table was separated from the antenna distance 10meters. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for maximum.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Reported are maximized emission levels.

1.9 Standards Applicable for Testing

Table of tests to be carried out under FCC Part 15, Subpart B, CLASS B

Test Standards	Status
FCC Part 15,Subpart B, Class B	Applicable
Deviation from Standard	No Deviation

1.10 Summary of Results

The data collected shows that Model **STW-1093A** complies with Part 15.109 of FCC Technical Rules. The Level of frequency 129.73 MHz is 20.36 dBuV as worst one for radiated emission.

Radio Disturbance

2.1 Test Results

	Results
Conducted Emission	N/A
Radiated Emission	PASS

2.2 Frequency Range

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : 30 MHz - 1000 MHz, Above 1000MHz

2.3 Limits Of Conducted And Radiated Emission

2.3.1 Limit Of Conducted Emission Of FCC Part 15, Subpart B

FREQUENCY (MHz)	Class A	Class B
	Quasi - peak	Quasi - peak
0.45 – 1.705	1000uV(60dB)	250uV(48dB)
1.705 - 30.0	3000uV(69.5dB)	250uV(48dB)

2.3.2 Limit Of Radiated Emission Of FCC Part 15, Subpart B

FREQUENCY (MHz)	Class A (at 10m)*	Class B (at 3m)*
	uV/m(dBuV/m)	uV/m(dBuV/m)
30 - 88	90(39)	100(40)
88 - 216	150(43.5)	150(43.5)
216 - 960	210(46.4)	200(46)
Above 960	300(49.5)	500(54)

Note : (1) *Detector Function : Quasi-Peak

(2) The lower limit shall apply at the transition frequencies.

(3) Emission level (dBuV/m) = 20 log Emission level (uV/m).

(4) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

2.4. Test of Conducted Emission

2.4.1 Test Equipments

Equipment	Model No.	Manufacturer	Date of Calibration
Test Receiver	ESPC	R/S	Nov. 2004
LISN	3825/2	EMCO	Dec. 2004
Pulse Limiter	PL-01	PMM	Jul. 2004
Shield Room	3.0*6.0*2.5	Dail EMC	N/A

2.4.2 Test Site

Name and address : SGS Testing Korea Co., Ltd.
18-34, Sanbon-dong, Gunpo, Gyeonggi-do, Korea, 435-041

2.4.3 Operating Environment

Temperature : degree C Humidity : %RH
Atmospheric Pressure : mBar

2.4.4 Measurement Data

Measurement Bandwidth : 9kHz

Date of Test :

FREQ. (MHz)	LEVEL(dB μ V)		LINE	LIMIT(dB μ V)		MARGIN(dB μ V)	
	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average

Note : This test item is not applied because this product is supplied DC

Power from Battery.



See - Ho, Lee / Test Engineer

2.5 Test of Radiated Emission**2.5.1 Test Instruments**

Description	Model No.	Manufacturer	Date of Calibration
Test Receiver	ESVS 30	R & S	Jan. 2004
Spectrum Analyzer	E4411A	H.P	Oct. 2004
RF Amplifier	8447F	H.P	May. 2004
Horn Antenna	BBHA 9120D	Scaffner	May. 2004
Bilog Antenna	CBL6111C	Scaffner	Apr. 2004
RF Select s/w	CS201	DAIWA	Apr. 2004
Open Site	N/A	N/A	N/A
Spectrum Analyzer	8593E	Scaffner	Aug. 2004
RF Amplifier	8449B	H.P	May. 2004

2.5.2 Test Site**Name and address : SGS Testing Korea Co., Ltd.**

18-34, Sanbon-dong, Gunpo, Gyeonggi-do, Korea, 435-041

2.5.3 Operating Environment

Temperature : 5.7 degree C

Humidity : 41 %RH

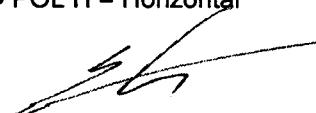
Atmospheric Pressure : 1005 mBar

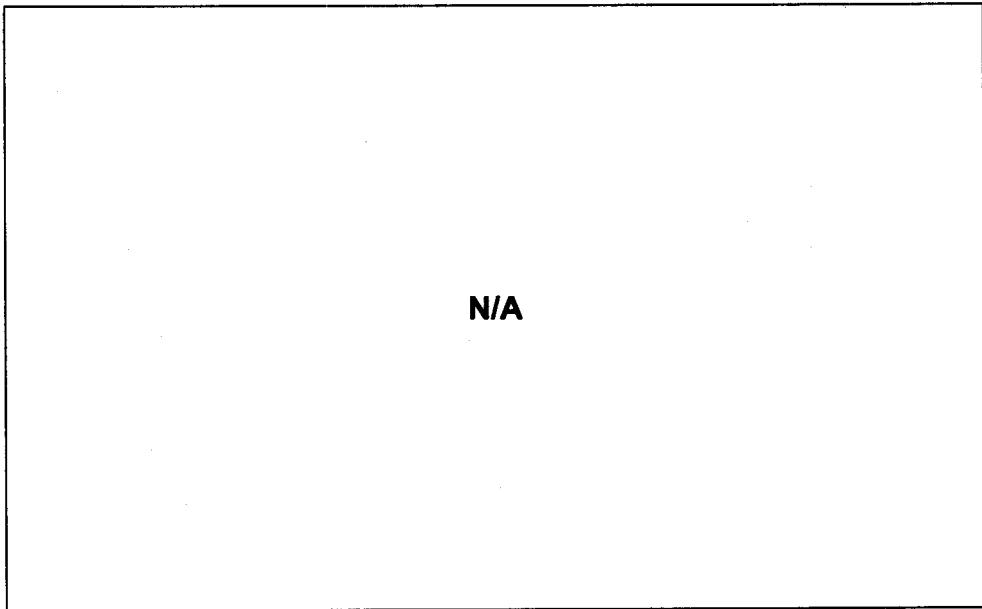
2.5.4 Measurement Data**Measurment Bandwidth : 100kHz****Date of Test : February 15 2005**

FREQ. (MHz)	LEVEL (dB μ V)	POL (H/V)	AF (dB)	CL (dB)	F/S (dB μ V/m)	LIMIT (dB μ V/m)	MARGIN (dB μ V)
36.51	3.5	H	15.25	1.36	20.11	30.0	9.89
47.69	4.5	H	9.37	1.65	15.52	30.0	14.48
75.82	4.6	H	7.24	2.22	14.06	30.0	15.94
84.99	5.1	H	8.64	2.35	16.09	30.0	13.91
129.73	5.8	H	11.72	2.85	20.36	30.0	9.64
157.84	4.7	H	10.81	3.17	18.68	30.0	11.32

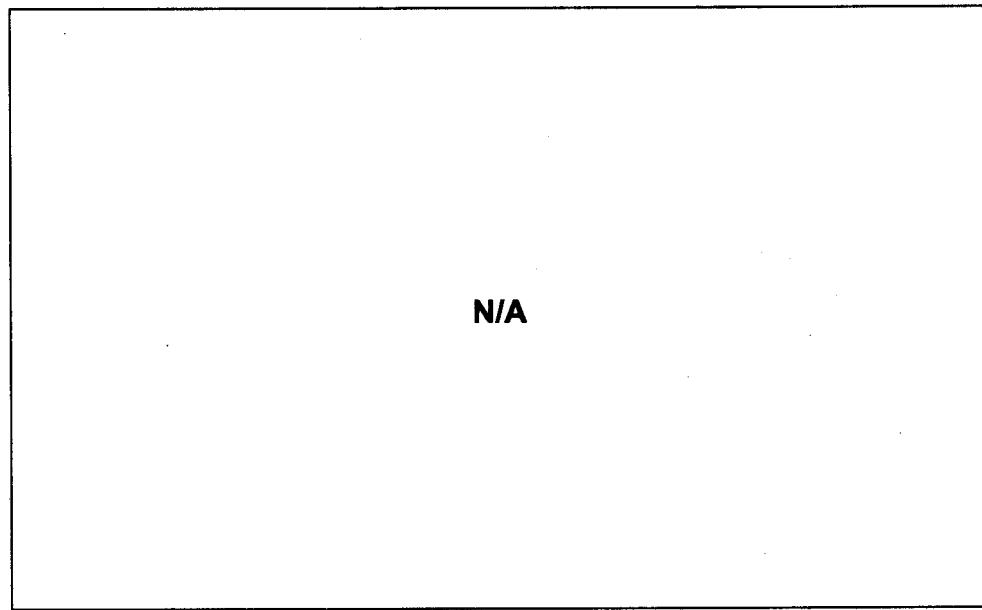
Note : • AF = Antenna Factor
• POL H = Horizontal• CL = Cable Loss
• POL V = Vertical

• F/S = Field Strength


See - Ho, Lee / Test Engineer

3. Photographs of Test**● Front View of Conducted Emission**A large, empty rectangular box with a thin black border, intended for a photograph of the front view of conducted emission.

N/A

● Rear View of Conducted EmissionA large, empty rectangular box with a thin black border, intended for a photograph of the rear view of conducted emission.

N/A

- **Front View of Radiated Emission**



- **Rear View of Radiated Emission**

