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Report No.: SHEM111100151203
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MPE REPORT

According to
FCC Rules 47 CFR §2.1091 & FCC OET Bulletin 65 supplement C
For

Hansong(Nanjing) Technology Ltd.

Application No.: SHEM111100151203

Address of Applicant: Hansong(Nanjing) Technology Ltd.

Equipment Under Test (EUT):

NOTE: The following sample(s) submitted was/were identified on behalf of the client as

EUT Name: Wireless transmitter

Model No.: Xeo transmitter ID 4576121

Standards: FCC OET Bulletin 65 supplement C: 2001

Date of Receipt: Nov. 17, 2011

Date of Test: Nov. 21, 2011 to Jan 13, 2011

Date of Issue: Jan. 31, 2012

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

E&E Section Head
SGS-CSTC(Shanghai) Co., Ltd.

E&E EMC Engineer
SGS-CSTC(Shanghai) Co., Ltd.

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2 General Information

2.1 Client Information

Applicant: Hansong(Nanjing) Technology Ltd.
Address of Applicant: 8th Kangping Road, Jiangning Economy and Technology Development Zone, Nanjing, 201106, China
Manufacturer: Hansong(Nanjing) Technology Ltd.
Address of Manufacturer: 8th Kangping Road, Jiangning Economy and Technology Development Zone, Nanjing, 201106, China

2.2 General Description of E.U.T.

EUT Name: Wireless transmitter
Model No.: Xeo transmitter ID 4576121
Fundamental Frequency : 2412-2464 MHz

2.3 Details of E.U.T.

Hardware Version: VM1.0
Software Version: VM1.00
EUT Power Supply: DC 5.0V

2.4 Test Location

All tests were performed at SGS E&E EMC lab

SGS-CSTC EMC Laboratory, No.588 West Jindu Road, Songjiang District, Shanghai, China
Tel: +86 21 6191 5666 Fax: +86 21 6191 5655



2.5 Test Equipment Information

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	Spectrum Analyzer	Rohde & Schwarz	FSP-30	100324	2011-04-19	2012-04-18

2.6 Test Confident level

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2014-07-26.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2012-03-17.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2014-09-20.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3172 and C-3514 respectively. Date of Registration: 2009-11-30. Date of Expiry: 2012-03-17.



3 Test Standards and Limits

The Equipment under Test (EUT) has been tested at SGS's (own or subcontracted) laboratories.

The following table summarizes the specific reference documents such as harmonized standards or test specifications which were used for testing as SGS's (own or subcontracted) laboratories.

Identity	Document Title	Version
FCC Rules 47 CFR§2.1091	Radiofrequency radiation exposure evaluation:mobile devices	-
FCC OET Bulletin 65 supplement C	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields	2001

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

FCC LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

(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 ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

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



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4 Summary of Results

Frequency Band	Limit (mW/cm ²)	Result (mW/cm ²)	Verdict
2412-2464MHz	1.0	0.031	Pass

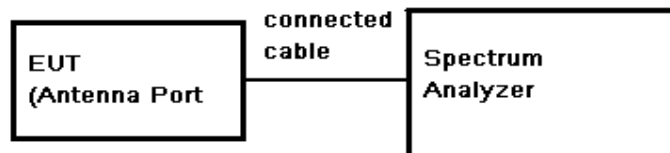
5 Measurement and Calculation

5.1 Maximum transmit power

Test Date: Nov 24, 2011

EUT Operation:: Test in fixing frequency operating mode at lowest, middle and highest frequency.

Test Configuration:



Test Results

Tx frequency (MHz)	Temp. (°C)	Voltage (V)	A level (dBm)		P(power) e.i.r.p. (dBm)	Max Out Power (mW)
			Cable Loss (dB)	Read level (dBm)		
2412	22	5.00	0.5	21.41	21.91	155.24
2438	22	5.00	0.5	20.19	20.69	117.22
2464	22	5.00	0.5	19.57	20.07	101.62

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5.2 SAR Calculation

Test Results: MPE Limit Calculation: the EUT's operating frequencies 2412MHz to 2464MHz; the highest power is Low channel(2412MHz). The Measured maximum radiated power is 21.91 dBm(155.24mW).with maximum peak gain is 0.0dBi. Duty factor is 100%

Equation from page 19 of OET 65, Edition 97-01

$$S = PG * \text{Duty factor} / 4\pi R^2$$

P =Power Input to antenna (155.24mWatts)

G =Antenna Gain (1.0numeric)

R = distance to the center of radiation of antenna (in meter) = 20cm

$$S = (155.24 * 1 * 1) / (4\pi * 20^2) = 0.031 \text{ mW/cm}^2$$

$$\text{MPE limit} = 1.0 \text{ mW/cm}^2$$

Note:

$$1) P (\text{Watts}) = 10^{\frac{\text{dBm}}{10}} / 1000$$

$$2) G (\text{Antenna gain in numeric}) = 10^{\text{Antenna gain in dBi} / 10}$$



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6 EUT Constructional Photos



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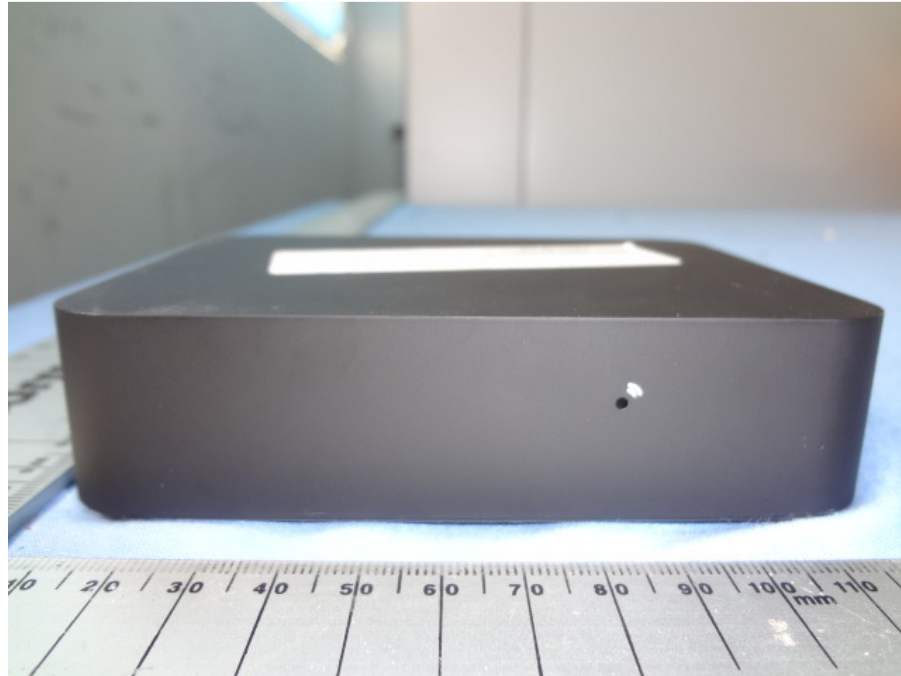


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THE END OF REPORT

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