Telephone: +86 (0) 21 61915666 Fax: +86 (0) 21 61915655 Report No.: SHEM111100153205

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MPE REPORT

According to

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

Hansong(Nanjing) Technology Ltd.

Application No.: SHEM111100153205

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 volume master

Brand Name: SONAB

Model No.: Cloud9 CVM

Standards: FCC OET Bulletin 65 supplement C: 2001

Date of Receipt: Nov. 23, 2011

Date of Test: Nov. 24, 2011 to Feb 29, 2011

Date of Issue: Mar 06, 2011

Test Result : PASS*

* 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

Zenger Zhang

SGS-CSTC(Shanghai) Co., Ltd.

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Page 2 of 9

2 **Contents**

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			Page
1	CO	OVER PAGE	1
2	co	NTENTS	2
3	GE	NERAL INFORMATION	3
	3.1	CLIENT INFORMATION	3
	3.2	DETAILS OF E.U.T.	3
	3.3	TEST LOCATION	3
	3.4	TEST CONFIDENT LEVEL	4
4	TE	ST STANDARDS AND LIMITS	5
5	SU	MMARY OF RESULTS	6
6	ME	ASUREMENT AND CALCULATION	6
	6.1	MAXIMUM TRANSMIT POWER	6
	6.2	SAR CALCULATION	7
7	EU	T CONSTRUCTIONAL PHOTOS	8

Telephone: +86 (0) 21 61915666 Report No.: SHEM111100153205 +86 (0) 21 61915655 Fax:

Page 3 of 9 ee.shanghai@sgs.com

3	General Infor	mation				
3.1	Client Information					
	Applicant: Hansong(Nanjing) Technology Ltd.					
	Applicant Address:	8 th Kangping Road, Jiangning Economy and Technology Development Zone,Nanjing,201106,China				
	Manufacturer:	Hansong(Nanjing) Technology Ltd.				
	Manufacturer Address:	8 th Kangping Road, Jiangning Economy Zone,Nanjing,201106,China	and Technology Development			
3.2	Details of	f E.U.T.				
	EUT Name:	Wireless volume master				
	Brand Name:	SONAB				
	Model No:	Cloud9 CVM				
	Power Supply:	9.0VDC				
	AC adaptor:	Manufacturer:CLICK				
		Model: CPS012A090100*				
		INPUT: 100-240V~50/60Hz 0.4A				
		OUTPUT: 9VDC,1.0A				
	Frequency Band	2412-2464 MHz				
	Channels :	Channel Description:				
		Channel of Tranmitter	Frequency(MHz)			
		1	2412			
		2	2438			
		3	2464			
	Modulation Type:	QPSK				
	Antenna:	A & B				
		Remark: A and B do not work at same ti	me.			

3.3 **Test Location**

All tests were performed at SGS E&E EMC lab

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.

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Page 4 of 9 ee.shanghai@sgs.com

3.4 **Test Confident level**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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.

Telephone: +86 (0) 21 61915666 Fax: +86 (0) 21 61915655 Report No.: SHEM111100153205

ee.shanghai@sgs.com

Page 5 of 9

4 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
	Evaluating Compliance with FCC Guidelines for	
FCC OET Bulletin 65 supplement C	Human Exposure to Radiofrequency	2001
	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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Page 6 of 9 ee.shanghai@sgs.com

5 **Summary of Results**

For antenna A

Frequency Band	Limit (mW/cm²)	Result (mW/cm²)	Verdict	
2412-2464MHz	1.0	0.0047	Pass	

For antenna B

Frequency Band	Limit (mW/cm²)	Result (mW/cm²)	Verdict
2412-2464MHz	1.0	0.0028	Pass

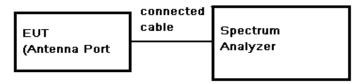
Measurement and Calculation 6

6.1 Maximum transmit power

Test Date: Dec 05, 2011

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

Test Configuration:



Test Results

For Antenna A

СН	Frequency (MHz)	Reading Power(dBm)	Cable Loss (dB)	Correction Factor (dB)	Output Power (dBm)	Output Power (mW)	Limit (dBm)	Result
LOW	2412	2.87	0.9	10.00	13.77	23.82	30	PASS
MID	2438	1.60	0.9	10.04	12.50	17.78	30	PASS
HIGH	2464	1.61	0.9	10.00	12.51	17.82	30	PASS

For Antenna B

CH	Frequency (MHz)	Reading Power(dBm)	Cable Loss (dB)	Correction Factor (dB)	Output Power (dBm)	Output Power (mW)	Limit (dBm)	Result
LOW	2412	0.65	0.9	10.00	11.55	14.29	30	PASS
MID	2438	0.31	0.9	10.00	11.21	13.21	30	PASS
HIGH	2464	0.40	0.9	9.96	11.26	13.37	30	PASS

Note: the BW correction factor is 10 log [(6 dB BW of emission)/ (analyzer RBW)].

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Page 7 of 9 ee.shanghai@sgs.com

SAR Calculation 6.2

For Antenna A:

Test Results: MPE Limit Calculation: the EUT's operating frequencies 2412MHz to 2464MHz; the highest power is High channel(2412MHz). The Measured maximum radiated power is 13.77 dBm(23.82mW).with maximum peak gain is 0.0dBi. Duty factor is 100%

Equation from page 18 of OET 65, Edition 97-01

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

P = Power Input to antenna (23.82mWatts)

G =Antenna Gain (1numeric)

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

 $S = (23.82 *1*1)/(4\pi *20^2) = 0.0047 \text{mW/cm}^2$

For Antenna B:

Test Results: MPE Limit Calculation: the EUT's operating frequencies 2412MHz to 2464MHz; the highest power is High channel(2412MHz). The Measured maximum radiated power is 11.55 dBm(14.29mW).with maximum peak gain is 0dBi. Duty factor is 100%

Equation from page 18 of OET 65, Edition 97-01

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

P = Power Input to antenna (14.29mWatts)

G =Antenna Gain (1numeric)

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

 $S = (14.29 *1*1)/(4\pi *20^2) = 0.0028 \text{mW/cm}^2$

MPE limit = 1.0mW/cm²

Note:

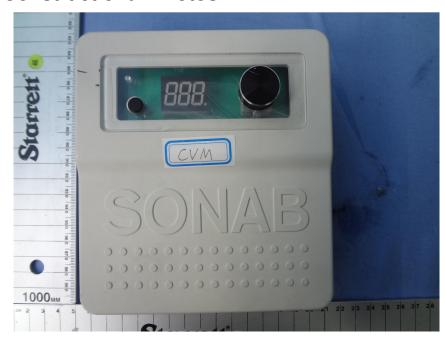
1) P (Watts)= 10^{10} / 1000

2) G (Antenna gain in numeric) = 10[^] (Antenna gain in dBi /10)

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Page 8 of 9 ee.shanghai@sgs.com

EUT Constructional Photos



Front View



Back View

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Page

9 of 9



Top View



Rear View

THE END OF REPORT

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