

Report No. : FC251703

FCC Test Report

APPLICANT: Brightstar Corporation

EQUIPMENT: GSM Mobile Phone

BRAND NAME : Avvio

MODEL NAME : Avvio 831 FCC ID : WVBA831

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on May 17, 2012 and completely tested on Jul. 25, 2012. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager





SPORTON INTERNATIONAL (KUNSHAN) INC. No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831 Page Number : 1 of 21
Report Issued Date : Aug. 02, 2012

Report Version : Rev. 01



TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
SU	ΜΜΔΕ	RY OF TEST RESULT	4
		ERAL DESCRIPTION	
٠.	1.1.	Applicant	
	1.1.	Manufacturer	
	1.3.	Feature of Equipment Under Test	
	1.4.	Test Site	
	1.5.	Applied Standards	
	1.6.	Ancillary Equipment List	
_			
2.	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	
	2.1.	Test Mode	
		Connection Diagram of Test System	10
	2.3.	Test Software	11
3.	TEST	RESULT	12
	3 1	Test of AC Conducted Emission Measurement	
	3.2.	Test of Radiated Emission Measurement	
4.	LIST	OF MEASURING EQUIPMENT	20
5.	UNC	ERTAINTY OF EVALUATION	21
ΑP	PEND	IX A. PHOTOGRAPHS OF EUT	
ΔΡ	PEND	IX B. SETUP PHOTOGRAPHS	

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC251703	Rev. 01	Initial issue of report	Aug. 02, 2012

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831 Page Number : 3 of 21
Report Issued Date : Aug. 02, 2012
Report Version : Rev. 01



SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.107	7.2.4	AC Conducted Emission	< 15.107 limits < RSS-Gen table 2 limits	PASS	Under limit 18.52 dB at 0.370 MHz
3.2	15.109	7.2.3.2	Radiated Emission	< 15.109 limits or < RSS-Gen table 1 limits (Section 6)	PASS	Under limit 6.64 dB at 480.080 MHz For Quasi-peak

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831 Page Number : 4 of 21
Report Issued Date : Aug. 02, 2012
Report Version : Rev. 01



1. General Description

1.1. Applicant

Brightstar Corporation

9725 NW 117th Ave., Miami, Florida, United States

1.2. Manufacturer

Shanghai Huaqin Telecom Technology Co., Ltd.

Building 12, 399 Keyuan Road, Pudong district, Shanghai, China

1.3. Feature of Equipment Under Test

	Product Feature
Equipment	GSM Mobile Phone
Brand Name	Avvio
Model Name	Avvio 831
FCC ID	WVBA831
EUT supports Radios application	GSM / EGPRS (Downlink Only) / WCDMA / HSPA / WLAN 11bg / Bluetooth
HW Version	W92_MB_V4.0
SW Version	ZW92D_099A_V0_0_0
EUT Stage	Production Unit

Remark:

The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831

Page Number : 5 of 21 Report Issued Date: Aug. 02, 2012

Report Version : Rev. 01

Product Specification subjective to this standard GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz **Tx Frequency** WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz 802.11b/g: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz **Rx Frequency Range** WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz 802.11b/g: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz FM: 88 MHz ~ 108 MHz WWAN: Fixed Internal Antenna **Antenna Type** WLAN: PIFA Antenna Bluetooth: PIFA Antenna GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK (Downlink Only) WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) Type of Modulation 802.11b : DSSS (BPSK / QPSK / CCK) 802.11g: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth (1Mbps): GFSK Bluetooth 2.1 EDR (2Mbps) : π /4-DQPSK Bluetooth 2.1 EDR (3Mbps): 8-DPSK FΜ

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831 Page Number : 6 of 21
Report Issued Date : Aug. 02, 2012
Report Version : Rev. 01



1.4. Test Site

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.				
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.				
Test Site Location	Test Site Location TEL: +86-0512-5790-0158				
	FAX: +86-0512-5790-0958				
Tool Cita No	Sporton	Site No.	FCC/IC Registration No.		
Test Site No.	CO01-KS	03CH01-KS	149928/4086E-1		

1.5. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2003
- · IC RSS-Gen Issue 3

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

1.6. Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	Signal Generator	R&S	SMR40	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
4.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
5.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A
6.	PC	DELL	MT380	FCC DoC	N/A	Unshielded, 1.8 m
7.	Monitor	DELL	E1910Hc	FCC DoC	Shielded, 1.2 m	Unshielded, 1.8 m
8.	(USB) Mouse	DELL	N231	FCC DoC	Shielded, 1.8 m	N/A
9.	(USB) Keyboard	DELL	SK-8115	FCC DoC	Shielded, 1.8 m with Core	N/A
10.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A
11.	Printer	HP	Laser Jet 1018	FCC DoC	Shielded, 1.8 m	Unshielded, 1.8 m

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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831 Page Number : 7 of 21
Report Issued Date : Aug. 02, 2012
Report Version : Rev. 01

2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 KHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

		Те	st Condition	on
Item	EUT Configuration	EMI AC	EMI RE<1G	EMI RE≥1G
1.	Charging Mode (EUT with adapter)			Note 1
2.	Data application transferred mode (EUT with PC)	\boxtimes	\boxtimes	\boxtimes

Abbreviations:

EMI AC: AC conducted emissions

EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz

EMI RE < 1G: EUT radiated emissions < 1GHz

Note 1: Testing for this mode is not required or not the worst case.

Remark: For signal above 1GHz, the worst case was test item 2.

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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831

: 8 of 21 Page Number Report Issued Date: Aug. 02, 2012

Report No.: FC251703

Report Version : Rev. 01



Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + Earphone +USB Cable (Charging from Adapter) + Camera <fig.1></fig.1>
A.C. Conducted		Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + Earphone +USB Cable (Charging from Adapter) + MP3 <fig.1></fig.1>
AC Conducted Emission	1/2	Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + Earphone +USB Cable (Charging from Adapter) + FM Rx <fig.2></fig.2>
		Mode 4: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone +USB Cable (Data Link with PC) <fig.3></fig.3>
	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + Earphone +USB Cable (Charging from Adapter) + Camera <fig.1></fig.1>
Radiated		Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + Earphone +USB Cable (Charging from Adapter) + MP3 <fig.1></fig.1>
Emissions < 1GHz		Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + Earphone +USB Cable (Charging from Adapter) + FM Rx <fig.2></fig.2>
		Mode 4: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone +USB Cable (Data Link with PC) <fig.3></fig.3>
Radiated Emissions ≥ 1GHz	2	Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone +USB Cable (Data Link with PC) <fig.3></fig.3>

Remark:

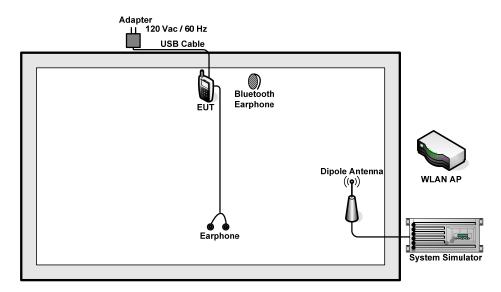
- 1. The worst case of AC Conducted Emission is mode 4; only the test data of this mode was reported.
- 2. The worst case of Radiated Emissions is mode 4; only the test data of this mode was reported.
- 3. Link with PC means data application transferred mode between EUT and PC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831 Page Number : 9 of 21
Report Issued Date : Aug. 02, 2012
Report Version : Rev. 01

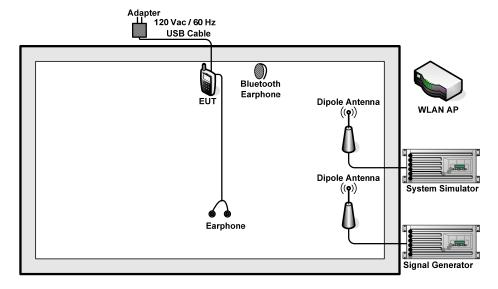


Report No.: FC251703

2.2. Connection Diagram of Test System



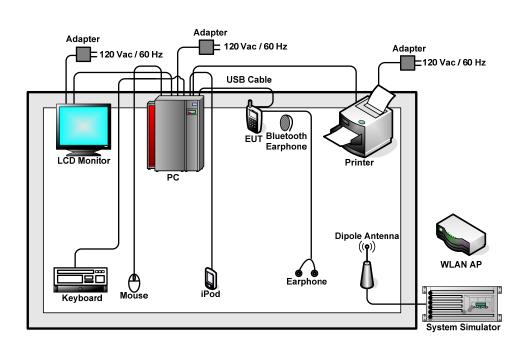
<Fig.1>



<Fig.2>

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831

Page Number : 10 of 21 Report Issued Date: Aug. 02, 2012 Report Version : Rev. 01



<Fig.3>

2.3. Test Software

The EUT was in GSM or WCDMA idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Execute the program, "Winthrax" under WINXP installed in PC for files transfer with EUT via USB cable.
- 2. Execute "Music Player" to play MP3 file.
- 3. Turn on camera to capture images.
- 4. Turn on FM function to keep EUT receiving continuous signals from Signal Generator.

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 KHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission	Conducted limit (dBuV)			
(MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30	60	50		

^{*}Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference. 6.
- 7. The frequency range from 150 KHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831

Page Number : 12 of 21 Report Issued Date: Aug. 02, 2012 Report Version

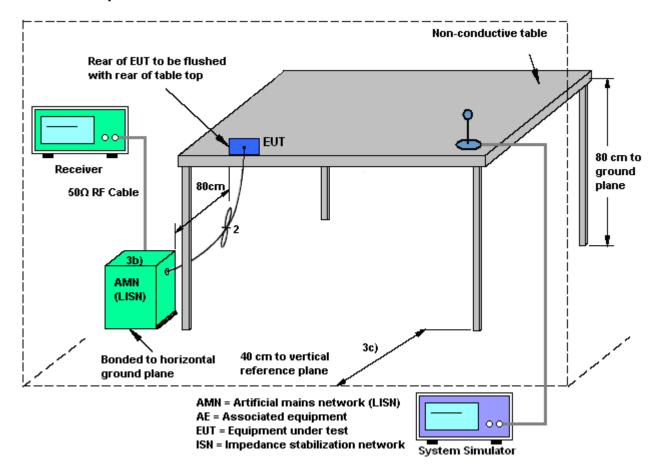
Report No.: FC251703

: Rev. 01



Report No.: FC251703

3.1.4 Test Setup



TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831

Page Number : 13 of 21 Report Issued Date: Aug. 02, 2012 : Rev. 01 Report Version





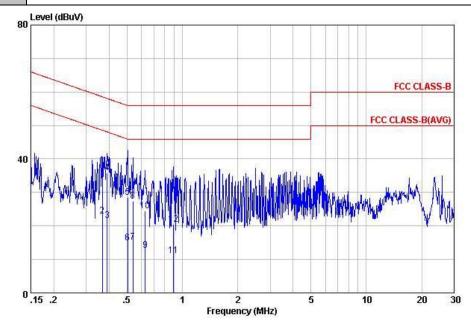
3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 4			Tempe	rature	:	19~20℃		
Test Engineer :	Tom Wang			Relativ	/e Hum	idity:	39~40%		
Test Voltage :	120Vac / 60)Hz		Phase	:		Line		
Function Type :	WCDMA Ba		+ Bluet	ooth Id	le + WL	AN Idle	e + Earpho	ne +USB Cable (D	ata
Remark :	All emissior	ns not repo	orted he	ere are	more th	nan 10 (dB below th	ne prescribed limit.	
40	A A A A A A A A A A A A A A A A A A A	3 ₅ 8					FCC	CLASS-B(AVG)	
	.15 .2 : C001-KS	.5	1		2 ncy (MHz)	5	10	20 30	
100000000000000000000000000000000000000	: FCC CLASS-B	LISN-10080	7 LINE						
mode	: mode 4		04400000		****				
85	Freq Lev	Over el Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark		
	MHz dB	uV dB	dBu∀	dBuV	dB	dB			
1	0.05.45	20 -29.85			-0.08	111 18	Average		

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831 Page Number : 14 of 21
Report Issued Date : Aug. 02, 2012
Report Version : Rev. 01



19~20℃ Test Mode: Mode 4 Temperature : Relative Humidity: 39~40% Test Engineer: Tom Wang 120Vac / 60Hz Phase: Test Voltage : Neutral WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone +USB Cable (Data Function Type: Link with PC) Remark: All emissions not reported here are more than 10 dB below the prescribed limit.



Site : COOl-KS

Condition: FCC CLASS-B LISN-100807 NEUTRAL

mode : mode 4

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
<u> </u>	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.37	38.01	-20.55	58.56	27.91	-0.08	10.18	QP
2	0.37	23.01	-25.55	48.56	12.91	-0.08	10.18	Average
2	0.39	21.71	-26.37	48.08	11.60	-0.08	10.19	Average
4	0.39	35.91	-22.17	58.08	25.80	-0.08	10.19	QP -
4 5 6 7	0.50	28.63	-27.37	56.00	18.50	-0.08	10.21	QP
6	0.50	14.93	-31.07	46.00	4.80	-0.08	10.21	Average
7	0.54	15.13	-30.87	46.00	5.00	-0.08		Average
8	0.54	27.33	-28.67	56.00	17.20	-0.08	10.21	QP
9	0.63	12.65	-33.35	46.00	2.50	-0.08	10.23	Average
10	0.63	24.55	-31.45	56.00	14.40	-0.08	10.23	
11	0.89	11.17	-34.83	46.00	1.01	-0.09	10.25	Average
12	0.89	20.47	-35.53	56.00	10.31	-0.09	10.25	QP

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831 Page Number : 15 of 21
Report Issued Date : Aug. 02, 2012
Report Version : Rev. 01

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

See list of measuring instruments of this test report.

3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- For each suspected emission, the EUT was arranged to its worst case and then tune the 5. antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum 6. Hold Mode.
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dBuV/m) = 20 log Emission level (uV/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831

Page Number : 16 of 21 Report Issued Date: Aug. 02, 2012

Report No.: FC251703

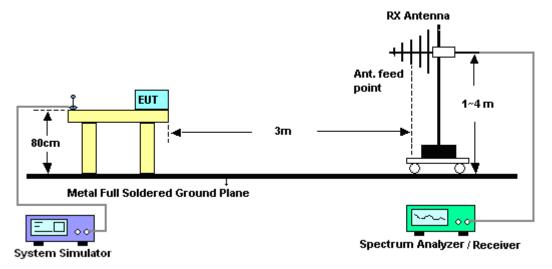
Report Version : Rev. 01



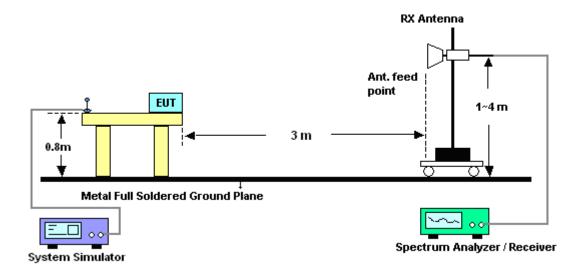
Report No.: FC251703

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



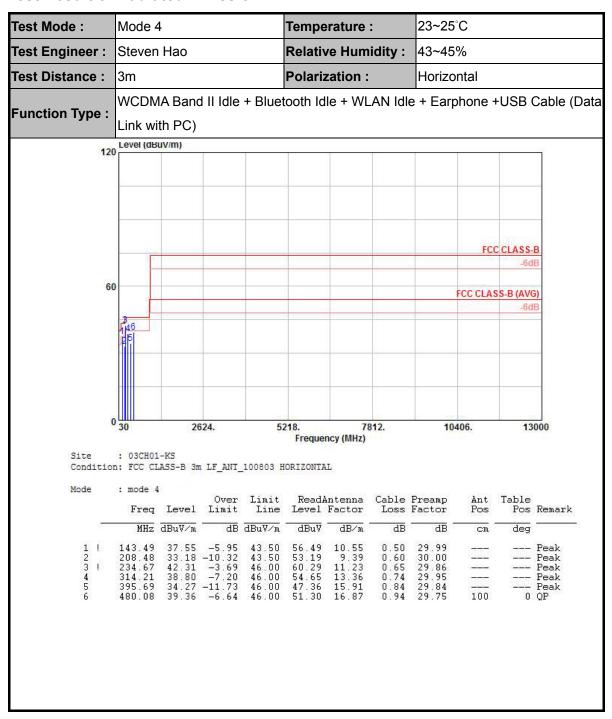
SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831

Page Number : 17 of 21 Report Issued Date: Aug. 02, 2012 : Rev. 01 Report Version



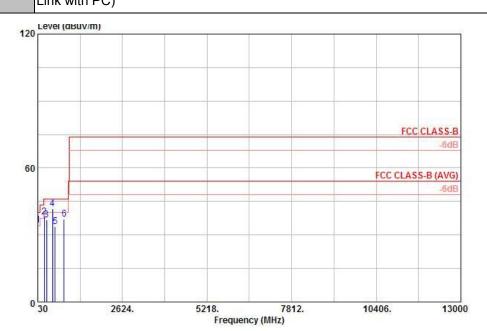
3.2.5. Test Result of Radiated Emission



TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831 Page Number : 18 of 21
Report Issued Date : Aug. 02, 2012
Report Version : Rev. 01



23~25°C Test Mode: Mode 4 Temperature : Steven Hao Relative Humidity: 43~45% Test Engineer: Test Distance : 3m Polarization: Vertical WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone +USB Cable (Data Function Type: Link with PC)



: 03CH01-KS Site

Condition: FCC CLASS-B 3m LF_ANT_100803 VERTICAL

Mode : mode 4

		Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	8	MHz	$\overline{\mathtt{dBuV/m}}$	dB	dBuV/m	dBuV	dB/m	dB	dB	CM	deg	A 18
1		33.88	34.55	-5.45	40.00	48.85	15.56	0.23	30.09			Peak
2		235.64	37.99	-8.01	46.00	55.90	11.29	0.65	29.85			Peak
3		303.54	36.64	-9.36	46.00	52.78	13.08	0.73	29.95		8-10-10-1	Peak
4	10	480.08	41.77	-4.23	46.00	53.71	16.87	0.94	29.75	100	50	Peak
5		565.44	33.75	-12.25	46.00	43.86	18.53	1.02	29.66	5 50 50 50	151 550 550 18	Peak
6		841.89	37.25	-8.75	46.00	45.19	20.43	1.28	29.65		3-1-1-1	Peak

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831

Page Number : 19 of 21 Report Issued Date: Aug. 02, 2012

Report No.: FC251703

Report Version : Rev. 01



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz	Jun. 01, 2012	May 25, 2012	May 31, 2013	Conduction (CO01-KS)
LISN	MessTec	AN3016	60103	9kHz~30MHz	Dec. 30, 2011	May 25, 2012	Dec. 29, 2012	Conduction (CO01-KS)
LISN	MessTec	AN3016	60105	9kHz~30MHz	Dec. 30, 2011	May 25, 2012	Dec. 29, 2012	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	N/A	Nov. 16, 2011	May 25, 2012	Nov. 15, 2012	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 09, 2011	Jul. 25, 2012	Nov. 08, 2012	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Jul. 25, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 08, 2011	Jul. 25, 2012	Dec. 07, 2012	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2012	Jul. 25, 2012	Jan. 05, 2013	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060007	30MHz~2GHz	Dec. 30, 2011	Jul. 25, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 30, 2011	Jul. 25, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10GHz~40GHz	Dec. 30, 2011	May 25, 2012~ Jul. 25, 2012	Dec. 29, 2012	-
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 30, 2011	May 25, 2012~ Jul. 25, 2012	Dec. 29, 2012	-

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831 Page Number : 20 of 21
Report Issued Date : Aug. 02, 2012
Report Version : Rev. 01



FCC Test Report

5. Uncertainty of Evaluation

<u>Uncertainty of Conducted Emission Measurement (150 KHz ~ 30 MHz)</u>

Managerina Unacetainty for a Lavel of	
Measuring Uncertainty for a Level of	2.26
Confidence of 95% (U = 2Uc(y))	2.20

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of	2.54		
Confidence of 95% (U = 2Uc(y))	2.04		

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	
Confidence of 95%	4.72
(U = 2Uc(y))	

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831 Page Number : 21 of 21
Report Issued Date : Aug. 02, 2012
Report Version : Rev. 01

Appendix A. Photographs of EUT

Please refer to Sporton report number EP251703 as below.

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: WVBA831 Page Number : A1 of A1
Report Issued Date : Aug. 02, 2012
Report Version : Rev. 01