

est Report No. : FC2D0601

FCC Test Report

APPLICANT : CT Asia

EQUIPMENT : **GSM** mobile phone

BRAND NAME : BLU

MODEL NAME : SPeedII

FCC ID : YHLBLUSPEEDII

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Dec. 06, 2012 and completely tested on Jan. 24, 2013. 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.

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUSPEEDII Page Number : 1 of 22 Report Issued Date : Jan. 25, 2013



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC2D0601	Rev. 01	Initial issue of report	Jan. 25, 2013

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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 13.82 dB at 21.370 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 6.02 dB at 96.930 MHz for Quasi-Peak

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1. General Description

1.1. Applicant

CT Asia

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

1.2. Manufacturer

Shanghai RheaTelecom Technologies Co., Ltd.

#198 Zhangheng Road, Building-10, 5F, Room01B, Zhangjiang Hi-Tech Pardk, Pudong, Shanghai

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1.3. Feature of Equipment Under Test

	Product Feature
Equipment	GSM mobile phone
Brand Name	BLU
Model Name	SPeedII
FCC ID	YHLBLUSPEEDII
EUT supports Radios application	GSM/GPRS/WCDMA/HSPA/Bluetooth
HW Version	K912_MB_H101_PBF
SW Version	H9DA1GH51JAMCR_4EM
EUT Stage	Production Unit

Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are two different types of EUT. They are single SIM card mobile and dual SIM card mobile. The others are the same including circuit design, PCB board, structure and all components. It is special to declare. After pre-scan two types of EUT, we found test result of the sample that dual SIM was the worst, so we choose dual SIM card mobile to perform all tests.

1.4. Product Specification of Equipment Under Test

Product Specific	ication subjective to this standard
	GSM850: 824.2 MHz ~ 848.8 MHz
	GSM1900: 1850.2 MHz ~ 1909.8MHz
Tx Frequency	WCDMA Band V: 826.4 MHz ~ 846.6 MHz
	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz
	Bluetooth: 2402 MHz ~ 2480 MHz
	GSM850: 869.2 MHz ~ 893.8 MHz
	GSM1900: 1930.2 MHz ~ 1989.8 MHz
Dy Fraguency Banga	WCDMA Band V: 871.4 MHz ~ 891.6 MHz
Rx Frequency Range	WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz
	Bluetooth: 2402 MHz ~ 2480 MHz
	FM: 88 MHz ~ 108 MHz
Antonna Typo	WWAN : Fixed Internal Antenna
Antenna Type	Bluetooth : PIFA Antenna
	GSM: GMSK
	GPRS: GMSK
	WCDMA: QPSK (Uplink)
	HSDPA: QPSK (Uplink)
Type of Modulation	HSUPA: QPSK (Uplink)
	Bluetooth BDR (1Mbps) : GFSK
	Bluetooth EDR (2Mbps) : π /4-DQPSK
	Bluetooth EDR (3Mbps) : 8-DPSK
	FM

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1.5. Test Site

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

1.6. 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.

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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.

Item	EUT Configuration			
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	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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Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1 <fig. 1=""></fig.>
AC Conducted	1/2	Mode 2: GSM1900 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM 1 <fig. 1=""></fig.>
Emission	1/2	Mode 3: WCDMA Band V Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + Earphone + FM Rx + SIM 1 <fig. 2=""></fig.>
		Mode 4: WCDMA Band II Idle + Bluetooth Idle + USB Cable (Data Link with PC) + Earphone + SIM 1 <fig. 3=""></fig.>
	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1 <fig. 1=""></fig.>
Radiated		Mode 2: GSM1900 Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM 1 <fig. 1=""></fig.>
Emissions < 1GHz		Mode 3: WCDMA Band V Idle + Bluetooth Idle + USB Cable (Charging from Adapter) + Earphone + FM Rx + SIM 1 <fig. 2=""></fig.>
		Mode 4: WCDMA Band II Idle + Bluetooth Idle + USB Cable (Data Link with PC) + Earphone + SIM 1 <fig. 3=""></fig.>
Radiated Emissions ≥ 1GHz	2	Mode 1: WCDMA Band II Idle + Bluetooth Idle + USB Cable (Data Link with PC) + Earphone + SIM 1 <fig. 3=""></fig.>

Remark:

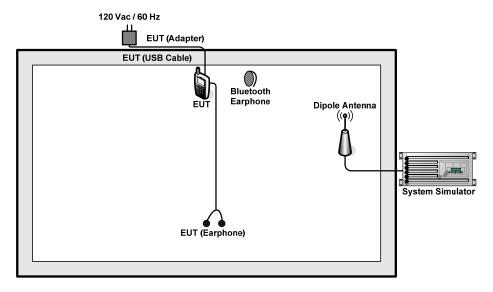
- 1. The worst case of AC Conducted Emission is mode 4; the test data of this mode was reported.
- 2. The worst case of Radiated Emissions is mode 4; only the test data of this mode was reported.
- 3. Data Link with PC means data application transferred mode between EUT and PC.

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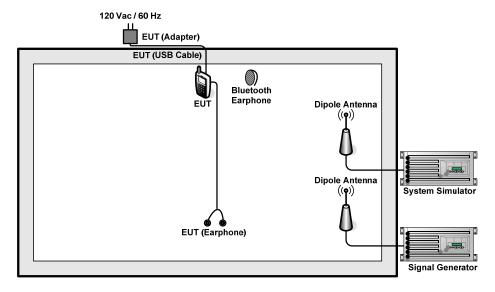


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2.2. Connection Diagram of Test System

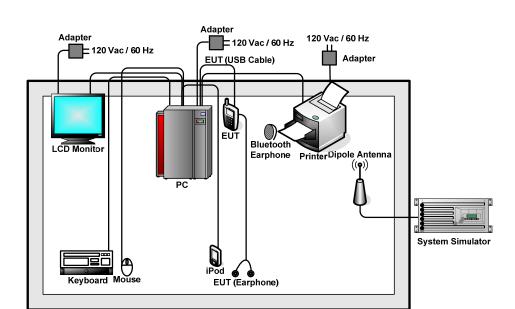


<Fig. 1>



<Fig. 2>

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<Fig. 3>

2.3. Support Unit used in test configuration and system

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.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
4.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A
5.	PC	Dell	DCSM	FCC DoC	N/A	Unshielded, 1.8 m
6.	PC	Dell	MT320	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) Mouse	Dell	MO56UC	FCC DoC	Shielded, 1.8 m	N/A
10.	(USB) Keyboard	Dell	SK-8115	FCC DoC	Shielded, 1.8 m with core	N/A
11.	Printer	HP	Laser Jet 1018	FCC DoC	Shielded, 1.8 m	Unshielded, 1.8 m
12.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A

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2.4. 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, and the following programs installed in the EUT were programmed during the test.

- 1. Execute the program, "Winthrax" under WIN7 installed in PC for files transfer with EUT via USB cable.
- 2. Turn on FM function to make the EUT receive continuous signals from signal generator.
- 3. Execute "Video Player" to play MPEG4 files.
- 4. Turn on camera to capture images.

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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.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 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.

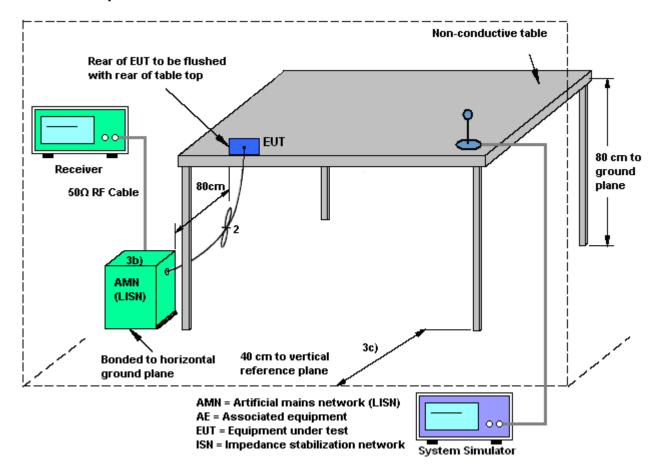
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3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 4			Temp	erature	:	19~20℃		
Test Engineer :	Tom Wang			Relati	ve Hun	nidity:	39~40%		
Test Voltage :	120Vac / 60H	lz		Phase	:		Line		
Function Type:	WCDMA Bar	nd II Idl	e + B	luetoot	h Idle	+ USB	Cable (D	ata Link v	with PC) +
Function Type :	WCDMA Band II Idle + Bluetooth Idle + USB Cable (Data Link with PC) + Earphone + SIM 1 All emissions not reported here are more than 10 dB below the prescribed limit.								
Remark :	All emissions	not repo	orted h	ere are	more t	han 10 d	dB below t	he prescrit	oed limit.
80	Level (dBuV)								7
#1965									
									=======================================
								FCC CLASS-E	3
							FCC	CLASS-B(AVG)
work								12	
40	My A							AR 11	
	W . A . A .	Arran Mille	MIRNA.	(c.)		اللا السيمان	n national the		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I KANAMAN	MMAA,	(MANDAMAN)	LANDAN			MI NA	
	4			like	Milhiti. acut to				
O									
,	.15 .2	.5	1		e 2 2 (MHz)	5	10	20	30
Condition	: C001-KS : FCC CLASS-B L1 : (FC) 2D0601	[SN-111230	LINE						
	: Mode 4								
	Freq Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss R	emark		
<u>**</u>	MHz dBuV	dB	dBuV	dBuV	dB	dB -	<u> </u>		
1 2		-23.59	62.74	29.00	-0.07	10.22 A 10.22 Q	P.		
3 4 5	0.35 19.27	-28.10 -29.60 -26.81	58.87 48.87 56.00	20.60 9.10 19.01	-0.08 -0.08 -0.10	10.25 Q 10.25 Å 10.28 Q	verage		
5 6 7	1.10 20.69 15.97 34.07	-25.31 -15.93	46.00 50.00	10.51 23.68	-0.10 0.00	10.28 A 10.39 A	verage verage		
8 9 10	16.75 34.81	-24.13 -15.19 -23.69	60.00 50.00 60.00	25.48 24.38 25.88	0.00 0.01 0.01	10.39 Q 10.42 A 10.42 Q	verage		
11 12	21.37 36.18	-13.82 -18.92	50.00	25.58 30.48	0.09	10.51 Å 10.51 Q	verage		
SEC A-MONEY									

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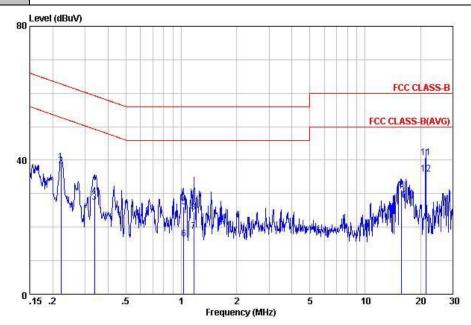
Test Mode: Mode 4 Temperature: 19~20°C

Test Engineer: Tom Wang Relative Humidity: 39~40%

Test Voltage: 120Vac / 60Hz Phase: Neutral

WCDMA Band II Idle + Bluetooth Idle + USB Cable (Data Link with PC) + Earphone + SIM 1

Remark: All emissions not reported here are more than 10 dB below the prescribed limit.



Site : COOl-KS

Condition: FCC CLASS-B LISN-111230 NEUTRAL

Project : (FC) 2D0601 mode : Mode 4

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
<u> </u>	MHz	dBu₹	₫B	dBu∀	dBuV	dB	dB	
1	0.22	39.35	-23.39	62.74	29.20	-0.07	10.22	OP
2	0.22	38.35	-14.39	52.74	28.20	-0.07	10.22	Average
3	0.34	27.37	-21.90	49.27	17.20	-0.08	10.25	Average
4	0.34	29.17	-30.10	59.27	19.00	-0.08	10.25	OP
2 3 4 5 6 7	1.03	26.09	-29.91	56.00	15.90	-0.09	10.28	ÖP
6	1.03	16.49	-29.51	46.00	6.30	-0.09	10.28	Average
7	1.17	18.69	-27.31	46.00	8.50	-0.09		Average
8	1.17	24.59	-31.41	56.00	14.40	-0.09		OP
8	15.80	31.16	-28.84	60.00	20.80	-0.03		ÖP
10	15.80	28.06	-21.94	50.00	17.70	-0.03	10.39	Average
11	21.37	40.78	-19.22	60.00	30.20	0.07	10.51	
12	21.37		-14.12	50.00	25.30	0.07	10.51	

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Test of Radiated Emission Measurement 3.2.

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

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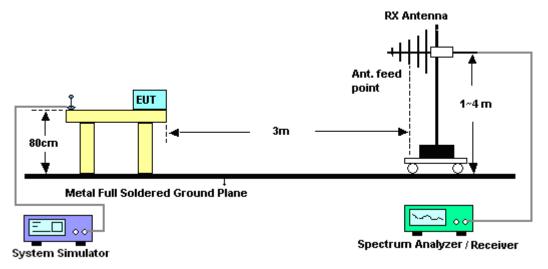
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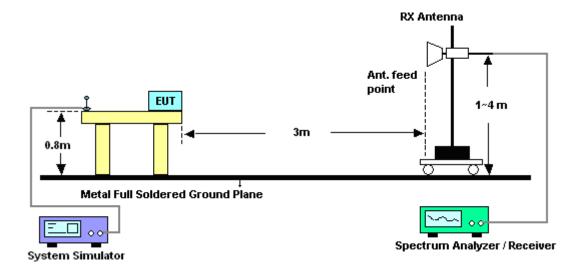
Report No.: FC2D0601

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

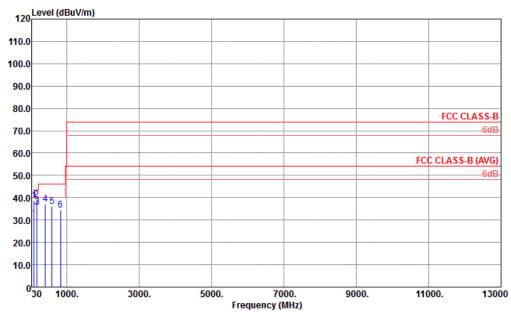


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3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 4	Temperature :	21~22°C					
Test Engineer :	Steven Hao	Relative Humidity :	42~43%					
Test Distance :	3m	Polarization :	Horizontal					
Function Type	WCDMA Band II Idle + B	luetooth Idle + USB	Cable (Data Link with PC) +					
Function Type :	Earphone + SIM 1							



Site : 03CH01-KS

Condition : FCC CLASS-B 3m LF_ANT_100803 HORIZONTAL

Project : (FC) 2D0601 Mode : mode 4

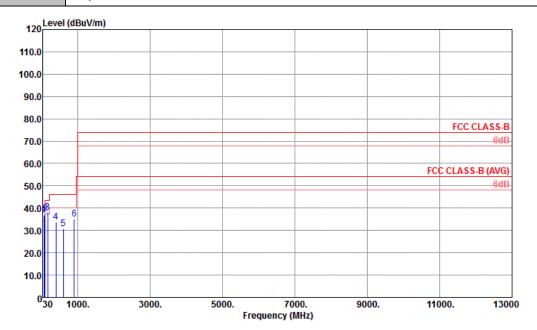
		Freq	Level		Limit Line							Remark
		MHz	$\overline{dBuV/m}$	dB	$\overline{\tt dBuV/m}$	dBuV	dB/m	d₿	dB	cm	deg	
1	!	96. 93	38.67	-4.83	43.50	61.69	10.03	0.57	33.62			Peak
2		169.68	39.02	-4.48	43.50	62.63	9.20	0.76	33.57	100	12	Peak
3		184. 23	35.83	-7.67	43.50	60.16	8.44	0.80	33.57			
4		403.45	37.14	-8.86	46.00	53. 27	16.02	1.15	33.30			Peak
4 5		594.54	36, 14	-9.86	46, 00	49, 12	18, 59	1.39	32, 96			Peak
6		829.28	34.59	-11.41	46.00	45.39	20.25	1.64	32.69			Peak

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21~22°C Test Mode: Mode 4 Temperature : Steven Hao Relative Humidity: 42~43% Test Engineer: Test Distance : 3m Polarization: Vertical WCDMA Band II Idle + Bluetooth Idle + USB Cable (Data Link with PC) + Function Type: Earphone + SIM 1



: 03CH01-KS Site

Condition : FCC CLASS-B 3m LF_ANT_100803 VERTICAL

Project : (FC) 2D0601

Mode : mode 4

		Freq	Level		Limit Line						T/Pos	Remark
		MHz	$\overline{\tt dBuV/m}$	dB	$\overline{\tt dBuV/m}$	dBuV	dB/m	dB	dB	cm	deg	
1	!	64. 92	36. 93	-3.07	40.00	64.82	5. 20	0.50	33. 59			Peak
2		96. 93	37.48	-6.02	43.50	60.50	10.03	0.57	33.62	124	160	QP
3	!	173.56	37.97	-5. 53	43.50	61.82	8.95	0.77	33.57			Peak
4		398.60	33.73	-12.27	46.00	49.91	15.98	1.15	33.31			Peak
5		599.39	30.70	-15.30	46.00	43.65	18.60	1.40	32.95			Peak
6		903, 00	35, 02	-10.98	46, 00	45, 22	20, 46	1, 77	32, 43			Peak

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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	Jan. 08, 2013	May 31, 2013	Conduction (CO01-KS)
LISN	MessTec	AN3016	60103	9kHz~30MHz	Dec. 29, 2012	Jan. 08, 2013	Dec. 28, 2013	Conduction (CO01-KS)
LISN	MessTec	AN3016	60105	9kHz~30MHz	Dec. 29, 2012	Jan. 08, 2013	Dec. 28, 2013	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	N/A	Nov. 15, 2012	Jan. 08, 2013	Nov. 14, 2013	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 08, 2012	Jan. 24, 2013	Nov. 07, 2013	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	100400	9kHz~30GHz	Jun. 01, 2012	Jan. 24, 2013	May 31, 2013	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 07, 2012	Jan. 24, 2013	Dec. 06, 2013	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2013	Jan. 24, 2013	Jan. 05, 2014	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1GHz	Jun. 01, 2012	Jan. 24, 2013	May 31, 2013	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 29, 2012	Jan. 24, 2013	Dec. 28, 2013	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10MHz~40GHz	Dec. 29, 2012	Jan. 08, 2013~ Jan. 24, 2013	Dec. 28, 2013	-
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 29, 2012	Jan. 08, 2013~ Jan. 24, 2013	Dec. 28, 2013	-

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5. Uncertainty of Evaluation

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

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

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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))	

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Appendix A. Photographs of EUT

Please refer to Sporton report number EP2D0601 as below.

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