

Report No.: FC381616

FCC Test Report

APPLICANT : CT Asia

: Mobile Phone **EQUIPMENT**

BRAND NAME : BLU

MODEL NAME : Dash Music 4.0

FCC ID : YHLBLUDASHMUS40

: FCC 47 CFR FCC Part 15 Subpart B STANDARD

CLASSIFICATION : Certification

The product was received on Aug. 16, 2013 and testing was completed on Sep. 05, 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 to be compliant 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: Louis Wu / Manager

Lunis Win

Approved 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: YHLBLUDASHMUS40



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC381616	Rev. 01	Initial issue of report	Sep. 09, 2013

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	9.24 dB at
					0.370 MHz
					Under limit
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	3.97 dB at
					35.820 MHz

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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

Ragentek (Huizhou) Electronics Co., Ltd.

B206-D, No.16 Huifeng East 2 Road, Zhongkai High-New Tchnology Park, Zhongkai High-New Zone, Huizhou City, Guangdong Province

1.3. Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Phone
Brand Name	BLU
Model Name	Dash Music 4.0
FCC ID	YHLBLUDASHMUS40
EUT supports Radios application	GSM/GPRS/WCDMA/HSPA/HSPA+(Downlink Only)/ WLAN 2.4GHz 802.11bgn/ Bluetooth v3.0 + EDR/ Bluetooth v4.0
HW Version	V2.2
SW Version	BLU-D272a-V02-GENERIC
EUT Stage	Identical Prototype

Remark:

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

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1.4. Product Specification of Equipment Under Test

Product Specifi	cation subjective to this standard
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Antenna Type	WWAN : Fixed Internal Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Downlink only) 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth v4.0: GFSK Bluetooth EDR: GFSK, \(\pi / 4-DQPSK, 8-DPSK)

1.5. Modification of EUT

No modifications are made to the EUT during all test items.

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1.6. Test Site

Test Site	SPORTON INTERNATIONAL (SHENZI	SPORTON INTERNATIONAL (SHENZHEN) INC.			
Test Site Location	lo. 3 Building, the third floor of south, Shahe River west, Fengzeyuan varehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.				
	TEL: +86-755- 3320-2398				
Test Site No.	Sporton Site No. FCC Registration No.				
iest site NO.	CO01-SZ	831040			

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

1.7. 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

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.

		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 notebook)	\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
AC Conducted	1/0	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Camera + Earphone + SIM 1 <fig. 1=""></fig.>
AC Conducted Emission 1/2 Mode 2 Radiated 1/2	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM 1 <fig. 2=""></fig.>	
	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Camera + Earphone + SIM 1 <fig. 1=""></fig.>
AC Conducted Emission 1/ Radiated Emissions < 1GHz		Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM 1 <fig. 2=""></fig.>
	2	Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM 1 <fig. 2=""></fig.>

Remark:

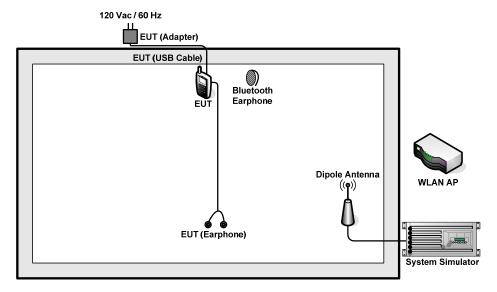
- 1. The worst case of AC Conducted Emission is mode 1; the test data of this mode is reported.
- 2. The USB link mode of AC Conducted Emission is mode 2; the test data of this mode is reported.
- 3. The worst case of Radiated Emissions < 1GHz is mode 2; only the test data of this mode is reported.
-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

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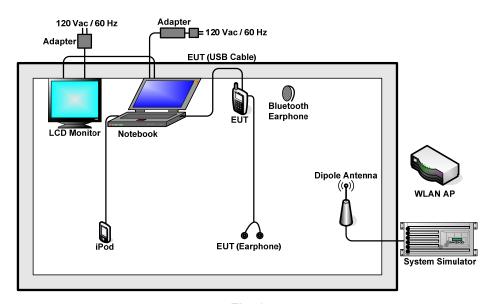


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2.2. Connection Diagram of Test System



<Fig. 1>



<Fig. 2>

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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.	System Simulator	Agilent	E5515C	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-612	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
5.	Bluetooth Earphone	Nokia	BH-108	N/A	N/A	N/A
6.	Bluetooth Earphone	Lenovo	LBH301	N/A	N/A	N/A
7.	Notebook	DELL	P08S	FCC DoC	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
8.	Notebook	Lenovo	G480	FCC DoC	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
9.	LCD Monitor	DELL	1707FPt	FCC DoC	Shielded, 1.2 m	Unshielded, 1.8 m
10.	LCD Monitor	DELL	E1910Hc	FCC DoC	Shielded, 1.2 m	Unshielded, 1.8 m
11.	iPod	Apple	MC525 ZP/A	FCC DoC	shielded, 1.0 m	N/A
12.	iPod	Apple	A1199	FCC DoC	shielded, 1.2 m	N/A

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2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA idle mode during the testing. The EUT was synchronized to the BCCH, and was 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 WIN7 installed in notebook for files transfer with EUT via USB cable / iPod.
- 2. 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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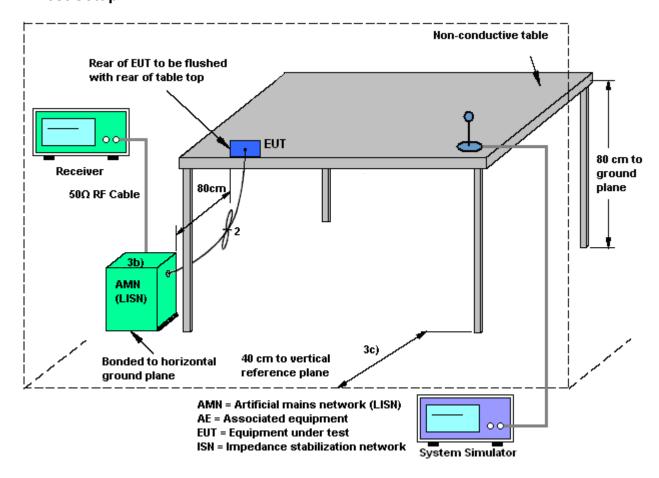
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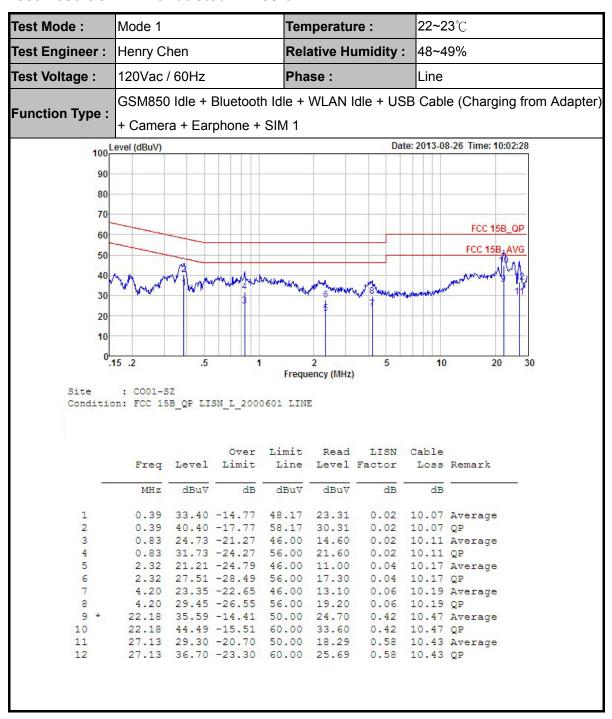
3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission



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22~23℃ Test Mode: Mode 1 Temperature: Henry Chen **Relative Humidity:** 48~49% Test Engineer: 120Vac / 60Hz Phase: Test Voltage: Neutral GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) Function Type: + Camera + Earphone + SIM 1 100 Level (dBuV) Date: 2013-08-26 Time: 10:09:28 90 80 70 FCC 15B_QP 60 FCC 15B_AVG 50 40 30 20 10 Frequency (MHz) : C001-SZ Condition: FCC 15B QP LISN N 2000601 NEUTRAL Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark MHz dBuV dB dBuV dBuV dB dB 1 0.33 35.58 -13.95 49.53 25.49 0.02 10.07 Average 40.28 -19.25 59.53 30.19 39.19 -9.24 48.43 29.10 2 0.33 40.28 -19.25 0.02 10.07 QP 0.02 10.07 Average 0.37 0.37 43.09 -15.34 58.43 33.00 0.02 10.07 QP 0.84 27.33 -18.67 46.00 17.20 0.84 31.53 -24.47 56.00 21.40 0.02 10.11 Average 0.02 10.11 QP 5 4.09 28.26 -17.74 46.00 18.01 0.06 10.19 Average 8 4.09 33.76 -22.24 56.00 23.51 0.06 10.19 QP 9 22.30 37.10 -12.90 50.00 26.01 0.63 10.46 Average 22.30 44.50 -15.50 60.00 33.41 0.63 10.46 QP 10

27.13 32.33 -17.67 50.00 21.00

27.13 38.43 -21.57 60.00 27.10

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0.90 10.43 Average

0.90 10.43 QP



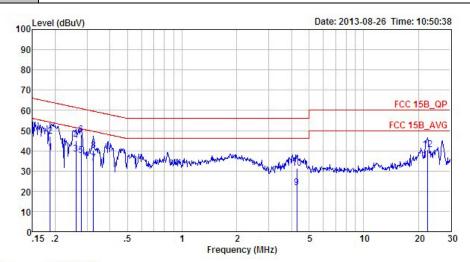
Test Mode: Mode 2 Temperature: 22~23°C

Test Engineer: Henry Chen Relative Humidity: 48~49%

Test Voltage: 120Vac / 60Hz Phase: Line

WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with

Function Type: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM 1



Site : CO01-SZ Condition: FCC 15B_QP LISN_L_2000601 LINE

Remark	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Level	Freq		
-	dB	dB	dBuV	dBuV	dB	dBuV	MHz	-	
Average	10.05	0.03	29.10	54.15	-14.97	39.18	0.19		1
QP	10.05	0.03	37.30	64.15	-16.77	47.38	0.19		2
Average	10.06	0.02	28.21	51.42	-13.13	38.29	0.26		3
QP	10.06	0.02	34.81	61.42	-16.53	44.89	0.26		4
Average	10.06	0.02	27.70	50.90	-13.12	37.78	0.28		5
QP	10.06	0.02	37.80	60.90	-13.02	47.88	0.28	*	6
Average	10.07	0.02	24.00	49.57	-15.48	34.09	0.33		7
QP	10.07	0.02	30.00	59.57	-19.48	40.09	0.33		8
Average	10.19	0.06	11.50	46.00	-24.25	21.75	4.29		9
QP	10.19	0.06	21.00	56.00	-24.75	31.25	4.29		10
Average	10.45	0.43	24.61	50.00	-14.51	35.49	22.54		11
QP	10.45	0.43	29.61	60.00	-19.51	40.49	22.54		12

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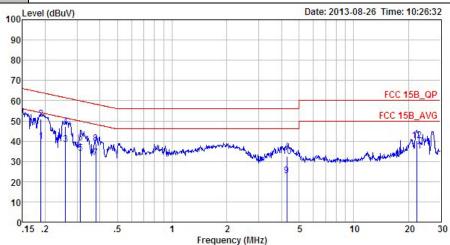


 Test Mode :
 Mode 1
 Temperature :
 22~23°C

 Test Engineer :
 Henry Chen
 Relative Humidity :
 48~49%

 Test Voltage :
 120Vac / 60Hz
 Phase :
 Neutral

 Function Type :
 WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM 1



Site : CO01-SZ Condition: FCC 15B_QP LISN_N_2000601 NEUTRAL

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	-	MHz	dBu∀	dB	dBu∇	dBuV	dB	dB	
1		0.19	39.77	-14.29	54.06	29.70	0.02	10.05	Average
2		0.19	51.07	-12.99	64.06	41.00	0.02	10.05	QP
3	4	0.26	38.48	-12.99	51.47	28.40	0.02	10.06	Average
4		0.26	47.08	-14.39	61.47	37.00	0.02	10.06	QP
5		0.31	33.78	-16.10	49.88	23.70	0.02	10.06	Average
6		0.31	39.08	-20.80	59.88	29.00	0.02	10.06	QP
7		0.38	31.89	-16.41	48.30	21.80	0.02	10.07	Average
8		0.38	38.79	-19.51	58.30	28.70	0.02	10.07	QP
9		4.29	23.06	-22.94	46.00	12.80	0.07	10.19	Average
10		4.29	32.36	-23.64	56.00	22.10	0.07	10.19	QP
11		22.18	34.89	-15.11	50.00	23.80	0.62	10.47	Average
12		22.18	40.09	-19.91	60.00	29.00	0.62	10.47	QP

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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 (MHz)	Field Strength (microvolts/meter)	Measurement Distance (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.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- 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 (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

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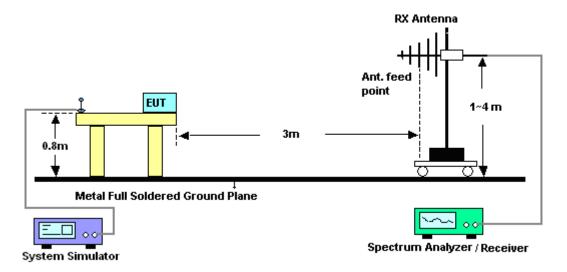
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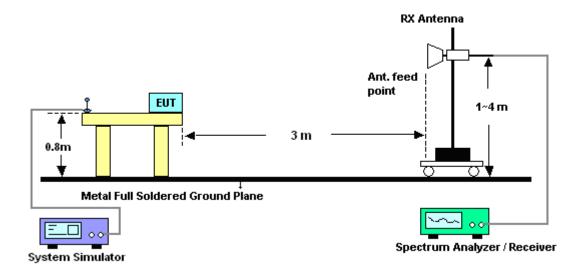
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



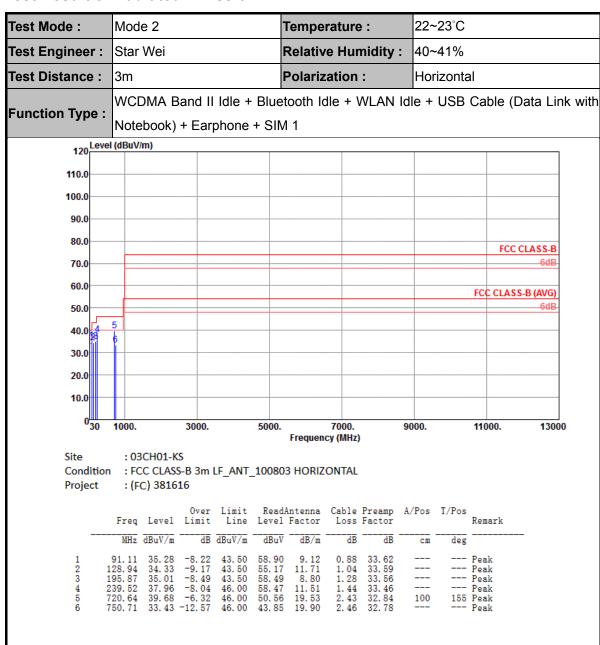
For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission



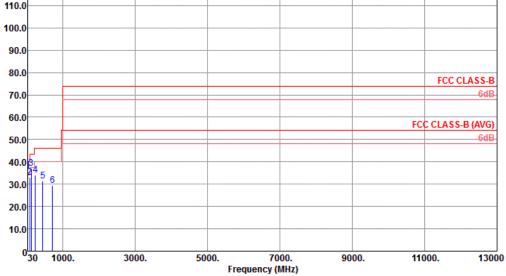
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22~23°C Test Mode: Mode 2 Temperature: **Relative Humidity:** 40~41% Test Engineer: Star Wei Polarization: Test Distance: 3m Vertical WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type:

Notebook) + Earphone + SIM 1 120 Level (dBuV/m) 110.0 100.0 90.0 80.0 FCC CLASS-B 70.0



Site : 03CH01-KS

Condition : FCC CLASS-B 3m LF_ANT_100803 VERTICAL

Project : (FC) 381616

Over Limit ReadAntenna Freq Level Limit Line Level Factor ReadAntenna Cable Preamp A/Pos T/Pos Remark Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m dB dB cm deg 14.65 9.12 11.71 0. 18 0. 88 1 ! 2 3 4 5 6 54.82 33.62 189 Peak 56. 62 58. 03 54. 75 46. 49 33. 62 33. 59 Peak Peak 1.04 --- Peak 1. 44 1. 95 2. 43 11.51 16.30 33. 46 33. 21 40.34 19.53

SPORTON INTERNATIONAL (KUNSHAN) INC.

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: Rev. 01 Report Version



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
ESCIO TEST Receiver	R&S	1142.8007. 03	100724	9kHz~3GHz	Mar. 28, 2013	Aug. 26, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 28, 2013	Aug. 26, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 28, 2013	Aug. 26, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	N/A	Nov. 20, 2012	Aug. 26, 2013	Nov. 19, 2013	Conduction (CO01-SZ)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 08, 2012	Sep. 05, 2013	Nov. 07, 2013	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	100400	9kHz~30GHz	May 23, 2013	Sep. 05, 2013	May 22, 2014	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 07, 2012	Sep. 05, 2013	Dec. 06, 2013	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2013	Sep. 05, 2013	Jan. 05, 2014	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1GHz	May 23, 2013	Sep. 05, 2013	May 22, 2014	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 29, 2012	Sep. 05, 2013	Dec. 28, 2013	Radiation (03CH01-KS)
Turn Table	MF	MF7802	N/A	0 ~ 360 degree	N/A	Sep. 05, 2013	N/A	Radiation (03CH01-KS)
Antenna Mast	MF	MF7802	N/A	1 m ~ 4 m	N/A	Sep. 05, 2013	N/A	Radiation (03CH01-KS)

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FCC Test Report

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))	2.26

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

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

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

Measuring Uncertainty for a Level of	4.70
Confidence of 95% (U = 2Uc(y))	4.72

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