

C Test Report No. : FC330701

FCC Test Report

APPLICANT : CT Asia

EQUIPMENT: Mobile phone

BRAND NAME : BLU

MODEL NAME : Studio 5.3S MARKETING NAME : Studio 5.3S

FCC ID : YHLBLUSTUDIO53S

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Mar. 07, 2013 and completely tested on Mar. 28, 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.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC330701	Rev. 01	Initial issue of report	Mar. 29, 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 13.35 dB at 2.920 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 4.36 dB at 107.600 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

Beijing Benywave technology Co., Ltd

NO 55, Jiachuang second road, zhongguancun science Park OPTO-Mechatronicd Industrial Park, Tongzhou District, Beijing, China

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1.3. Feature of Equipment Under Test

	Product Feature
Equipment	Mobile phone
Brand Name	BLU
Model Name	Studio 5.3S
Marketing Name	Studio 5.3S
FCC ID	YHLBLUSTUDIO53S
EUT supports Radios application	GSM/GPRS/WCDMA/HSPA/WLAN 11bgn /Bluetooth
HW Version	P1.1
SW Version	593713_8742_V000005
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.

1.4. Product Specification of Equipment Under Test

Product Specification 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 Range	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 GPS: 1.57542 GHz FM: 88 MHz ~ 108 MHz				
Antenna Type	WWAN : Fixed Internal Antenna WLAN : Chip Antenna Bluetooth : Chip Antenna				
Type of Modulation	GSM: GMSK GPRS: GMSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth BDR (1Mbps): GFSK Bluetooth EDR (2Mbps): \pi /4-DQPSK Bluetooth EDR (3Mbps): 8-DPSK GPS: BPSK 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			
Tool Cita 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

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	Test Condition			
Item	EUT Configuration	EMI AC	EMI RE<1G	EMI RE≥1G		
1.	Charging Mode (EUT with adapter)	\boxtimes				
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

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Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1 <fig1></fig1>
AC Conducted	1/2	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM 1 <fig1></fig1>
Emission	1/2	Mode 3: WCDMA band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + FM Rx + SIM 1 <fig2></fig2>
		Mode 4: WCDMA band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with PC) + Earphone + GPS Rx + SIM 1 <fig. 3=""></fig.>
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1 <fig1></fig1>
Radiated	1/2	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM 1 <fig1></fig1>
Emissions < 1GHz	1/2	Mode 3: WCDMA band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + FM Rx + SIM 1 <fig2></fig2>
		Mode 4: WCDMA band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with PC) + Earphone + GPS Rx + SIM 1 <fig. 3=""></fig.>
Radiated	410	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1 <fig1></fig1>
Emissions ≥ 1GHz	1/2	Mode 2: WCDMA band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with PC) + Earphone + GPS Rx + SIM 1 <fig. 3=""></fig.>

Remark:

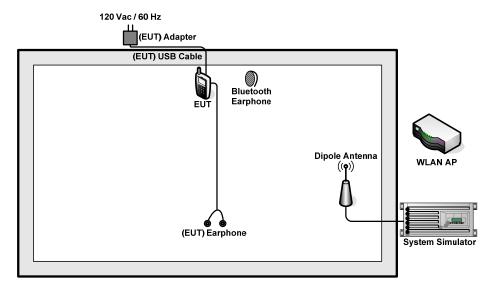
- 1. The worst case of AC Conducted Emission is mode 1; the test data of this mode was reported.
- 2. The USB Link mode of AC Conducted Emission is mode 4; the test data of this mode was also reported.
- 3. The worst case of Radiated Emissions is mode 1; the test data of this mode was reported.
- 4.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

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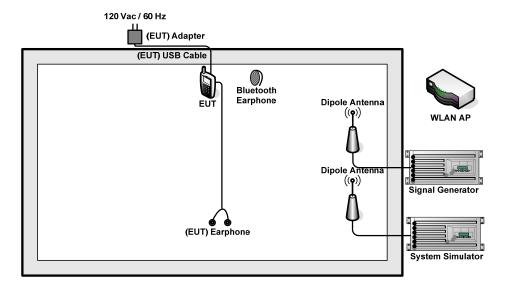


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2.2. Connection Diagram of Test System



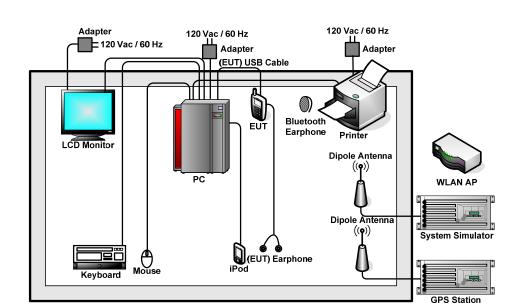
<Fig1>



<Fig2>

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<Fig. 3>

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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.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
3.	Signal generator	R&S	SMR40	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
5.	PC	DELL	MT320	FCC DoC	N/A	Unshielded, 1.8 m
6.	PC	DELL	DCSM	FCC DoC	N/A	Unshielded, 1.8 m
7.	Monitor	DELL	E1910Hc	FCC DoC	Shielded, 1.2m	Unshielded, 1.8 m
8.	(USB)Keyboard	DELL	SK-8115	FCC DoC	Shielded, 1.8 m with core	N/A
9.	(USB)Mouse	DELL	N231	FCC DoC	Shielded, 1.8 m	N/A
10.	(USB)Mouse	DELL	MO56UC	FCC DoC	Shielded, 1.8 m	N/A
11.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A
12.	Print	HP	Laser Jet 1018	FCC DoC	Shielded, 1.8 m	Unshielded, 1.8 m
13.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A
14.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	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 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 PC for files transfer with EUT via USB cable.
- 2. Turn on GPS function to make the EUT receive continuous signals from GPS station.
- 3. Turn on FM function to make the EUT receive continuous signals from Signal generator.
- 4. Execute "Video Player" to play MPEG4 files.
- 5. 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.
- 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.

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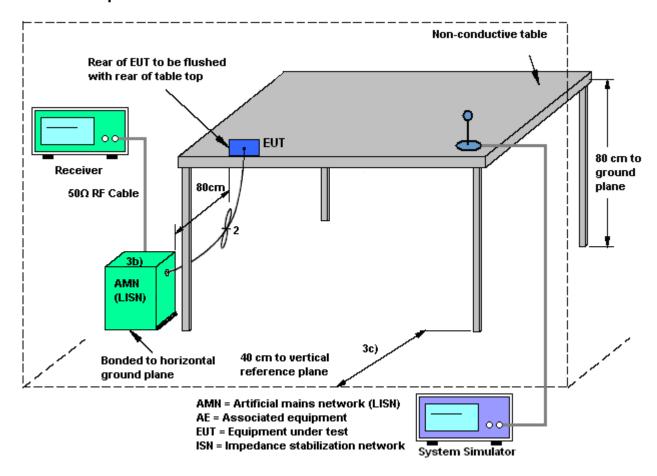
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3.1.4 Test Setup



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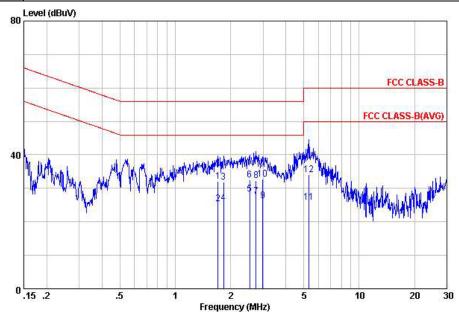
3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	1	Temperature	:	19~20℃			
Test Engineer :	Tom Wang	F	Relative Hum	nidity:	39~40%			
Test Voltage :	120Vac / 60Hz	F	Phase :		Line			
F	GSM850 Idle + Blu	etooth Idle	e + WLAN Idle	e + USE	3 Cable (Ch	narging fr	om Adap	
Function Type :	+ Earphone + Camera + SIM 1							
Remark :	All emissions not re	eported he	re are more t	han 10	dB below th	ne prescr	ibed limit	
80	Level (dBuV)							
						79. DI 281.		
						FCC CLASS-	-B	
					FCC (CLASS-B(AV	G)	
		ار ن	and the later of t	July (VA)				
40	I what I was VIII	LAMA A L	·		Whitely of the second	Maria Maria	MAN .	
	.15 .2 .5	1	2 Frequency (MHz)	5	10	20	30	
O Site Condition	.15 .2 .5 : C001-KS :: FCC CLASS-B LISN-L20 : (FC) 330701 : Mode 1	9,53	10.00 mm		May luke appear		30	
Site Condition Project	: C001-KS h: FCC CLASS-B LISN-L20 : (FC) 330701	130306 LINE r Limit	10.00 mm		10		30	
Site Condition Project	: C001-KS h: FCC CLASS-B LISN-L20 : (FC) 330701 : Mode 1 Ove Freq Level Limi	130306 LINE r Limit	Frequency (MHz) Read LISN	5	10		30	

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Test Mode :	Mode 1	Temperature :	19~20℃				
Test Engineer :	Tom Wang	Relative Humidity :	39~40%				
Test Voltage :	120Vac / 60Hz	Phase :	Neutral				
Function Type :	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter)						
Function Type :	+ Earphone + Camera + SIM 1						
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.						



: C001-KS

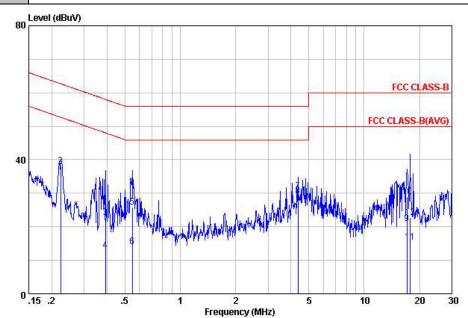
Condition: FCC CLASS-B LISN-N20130306 NEUTRAL Project : (FC) 330701 mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
-	MHz	dBu₹	dB	dBu₹	dBuV	dB	dB	
1	1.71	32.20	-23.80	56.00	21.80	0.10	10.30	QP
2	1.71	25.40	-20.60	46.00	15.00	0.10	10.30	Average
3	1.83	31.90	-24.10	56.00	21.50	0.10	10.30	
1 2 3 4 5 6 7 8	1.83	25.60	-20.40	46.00	15.20	0.10	10.30	Average
5	2.54	28.22	-17.78	46.00	17.79	0.12		Average
6	2.54	32.42	-23.58	56.00	21.99	0.12	10.31	QP
7	2.75	27.64	-18.36	46.00	17.21	0.12	10.31	Average
8	2.75	32.24	-23.76	56.00	21.81	0.12	10.31	QP
9	2.99	26.26	-19.74	46.00	15.80	0.14	10.32	Average
10	2.99	32.66	-23.34	56.00	22.20	0.14	10.32	QP
11	5.30	25.84	-24.16	50.00	15.30	0.20	10.34	Average
12	5.30	34.14	-25.86	60.00	23.60	0.20	10.34	

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Test Mode :	Mode 4	Temperature :	19~20℃							
Test Engineer :	Tom Wang	Relative Humidity :	39~40%							
Test Voltage :	120Vac / 60Hz	Phase :	Line							
Function Type :	WCDMA band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with									
Function Type : PC) + Earphone + GPS Rx + SIM 1										
Remark :	All emissions not reported h	All emissions not reported here are more than 10 dB below the prescribed limit.								



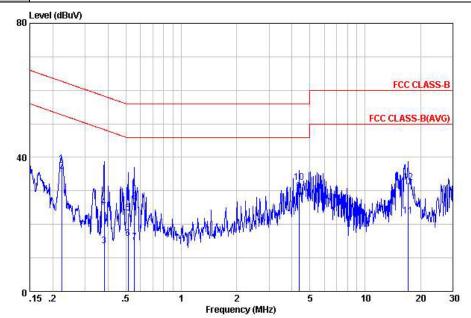
Site : C001-KS Condition: FCC CLASS-B LISN-L20130306 LINE Project : (FC) 330701 mode : Mode 4

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu₹	dB	dBu∀	dBuV	dB	dB	
1	0.22	36.30	-16.40	52.70	25.13	0.95	10.22	Average
2	0.22	38.10	-24.60	62.70	26.93	0.95	10.22	QP
3	0.39	22.84	-35.19	58.03	12.26	0.33	10.25	OP
4	0.39	12.84	-35.19	48.03	2.26	0.33	10.25	Average
1 2 3 4 5 6 7 8 9	0.55	25.84	-30.16	56.00	15.38	0.20	10.26	
6	0.55	14.14	-31.86	46.00	3.68	0.20	10.26	Average
7	4.36	30.51	-25.49	56.00	19.99	0.19	10.33	
8	4.36	29.21	-16.79	46.00	18.69	0.19	10.33	Average
9	17.11		-29.14	50.00	10.27	0.16		
10	17.11		-30.94	60.00	18.47	0.16	10.43	
11	17.85		-34.69	50.00	4.72	0.13		Average
12	17.85		-37.19	60.00	12.22	0.13	10.46	

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Test Mode :	Mode 4	Temperature :	19~20℃						
Test Engineer :	Tom Wang	Relative Humidity :	39~40%						
Test Voltage :	120Vac / 60Hz	Phase :	Neutral						
Function Type :	e + USB Cable (Data Link with								
Function Type :	PC) + Earphone + GPS Rx + SIM 1								
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.								



Site : C001-KS

Condition: FCC CLASS-B LISM-N20130306 NEUTRAL Project : (FC) 330701 mode : Mode 4

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
-	MHz	dBu₹	dB	dBuV	dBuV	dB	dB	
1 2 3 4 5 6 7 8 9 10 11 12	0.22 0.28 0.38 0.38 0.51 0.56 0.56 4.36 4.36 4.31	35.80 13.50 25.10 23.50 15.85 14.80 26.85 29.91 32.61 22.54	-24.50 -16.90 -34.75 -33.15 -32.50 -30.15 -31.20 -29.15 -16.09 -23.39 -27.46 -27.36	62.70 52.70 48.25 58.25 56.00 46.00 56.00 46.00 56.00 50.00	27.03 24.63 2.81 14.41 12.95 5.30 4.27 16.32 19.39 22.09 11.85 21.95	0.95 0.95 0.44 0.44 0.29 0.27 0.27 0.19 0.19	10.25 10.25 10.26 10.26 10.26 10.33 10.33	Average Average QP QP Average Average QP Average QP Average

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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 (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
		3
216 - 960	200	
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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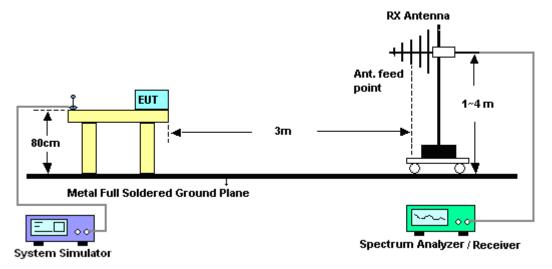
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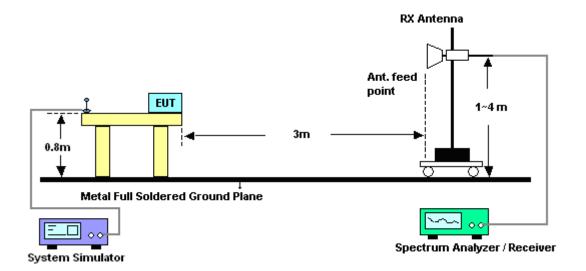
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

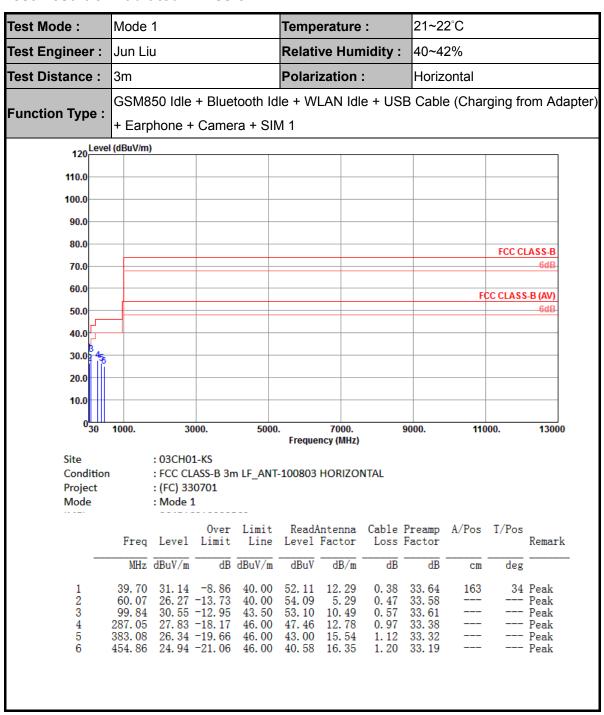


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3.2.5. Test Result of Radiated Emission



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Test Mode :	Mode 1	1			Temp	erature	:	21~2	2°C			
Test Engineer :	Jun Liu	ı			Relati	ve Hun	nidity:	40~4	2%			
Test Distance :	3m				Polari	zation	:	Vertic	al			
F 4' T	GSM8	50 Idle	+ Blue	tooth Id	lle + W	LAN Idl	e + USI	3 Cable	e (Char	ging fr	om Ada	pter)
Function Type :	+ Earp	+ Earphone + Camera + SIM 1										
120 Level	(dBuV/m)											
110.0												
100.0												
90.0												
80.0										FCC CI	ASS.R	
70.0										10001	-6dB	
60.0									FC	CC CLASS	-B (AV)	
50.0											6dB	
40.0												
30.0	6											
20.0												
10.0												
030	1000.	30	000.	5000		7000. ncy (MHz)	ç	9000.	110	00.	13000	
Site Condition Project Mode	:	: 03CH0: : FCC CL : (FC) 33 : Mode 1	ASS-B 3n 0701	n LF_ANT		VERTICA	L					
	Freq	Level		Limit Line	Read/ Level		Cable I Loss I	Preamp Factor	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	cm	deg		•
2 3 4 5	107. 60 127. 97 162. 89 403. 45 600. 36 900. 09	30. 37 31. 24	-4. 36 -9. 79 -13. 88 -15. 63 -14. 76 -15. 95	43. 50 43. 50 43. 50 46. 00 46. 00 46. 00	60. 63 54. 92 52. 98 46. 51 44. 20 40. 27	11. 53 11. 71 9. 47 16. 01 18. 59 20. 44	0. 58 0. 66 0. 74 1. 14 1. 39 1. 76	33. 60 33. 58 33. 57 33. 29 32. 94 32. 42	100 		QP Peak Peak Peak Peak Peak	

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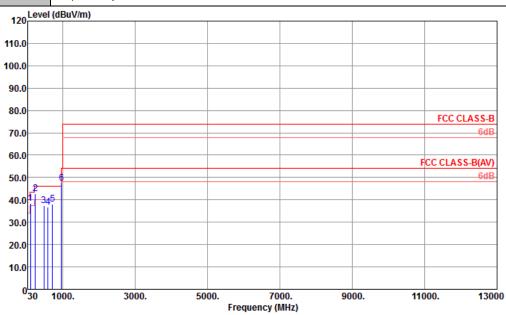
Test Mode :	Mode	4			Tempo	erature	:	21~2	2°C			
Test Engineer :	Jun Li	u			Relati	ve Hun	nidity :	40~42	40~42%			
Test Distance :	3m				Polari	zation	:	Horiz	ontal			
	WCDN	WCDMA band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link w									ata Link wit	
Function Type :	PC) +	PC) + Earphone + GPS Rx + SIM 1										
120 Leve	l (dBuV/m))										
110.0												
100.0												
90.0												
80.0										FCC CI	ASS-B	
70.0										10001	6dB	
60.0									FC	CC CLASS	-B (AV)	
50.0	6										6dB	
40.0												
30.0												
20.0												
10.0												
030	1000.	30	000.	5000		7000. ncy (MHz)		000.	110	00.	13000	
Site Conditior Project Mode	1	: 03CH0: : FCC CL : (FC) 33 : Mode 4	ASS-B 3n 0701	n LF_ANT								
	•		Over Limit	Limit Line		ntenna Factor	Cable H Loss H	-	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1 2 3 4 ! 5 6 !	60. 07 105. 66 164. 83 268. 62 480. 08 960. 23	32. 58 36. 12 40. 71 35. 20	-8. 76 -10. 92 -7. 38 -5. 29 -10. 80 -4. 08	40. 00 43. 50 43. 50 46. 00 46. 00 54. 00	59. 06 54. 33 59. 55 60. 85 50. 22 59. 81	5. 29 11. 27 9. 39 12. 33 16. 86 20. 78	0. 47 0. 58 0. 74 0. 94 1. 27 1. 76	33. 58 33. 60 33. 56 33. 41 33. 15 32. 43	200	0	Peak Peak QP Peak Peak Peak	

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21~22°C Test Mode: Mode 4 Temperature: Relative Humidity: 40~42% Test Engineer: Jun Liu Test Distance : 3m Polarization: Vertical WCDMA band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with

Function Type: PC) + Earphone + GPS Rx + SIM 1



: 03CH01-KS Site

Condition : FCC CLASS-B 3m LF_ANT-100803 VERTICAL

Project : (FC) 330701 Mode : Mode 4

		Freq	Level		Limit Line						T/Pos	Remark
	_	MHz	$\overline{\text{dBuV/m}}$	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	cm	deg	
1	!	107.60	38.60	-4. 90	43.50	60.09	11.53	0.58	33.60			Peak
2	!	239.52	42.64	-3.36	46.00	63.70	11.50	0.89	33.45	120	360	Peak
3		480.08	37.57	-8. 43	46.00	52.59	16.86	1. 27	33. 15			Peak
4		587.75	36.65	-9.35	46.00	49.66	18.57	1.37	32.95			Peak
5		720.64	38.09	-7.91	46.00	49.86	19.53	1.53	32.83			Peak
6		960. 23	47.36	-6.64	54.00	57. 25	20.78	1.76	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	Mar. 19, 2013	May 31, 2013	Conduction (CO01-KS)
LISN	MessTec	AN3016	60103	9kHz~30MHz	Dec. 29, 2012	Mar. 19, 2013	Dec. 28, 2013	Conduction (CO01-KS)
LISN	MessTec	AN3016	60105	9kHz~30MHz	Dec. 29, 2012	Mar. 19, 2013	Dec. 28, 2013	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	N/A	Nov. 15, 2012	Mar. 19, 2013	Nov. 14, 2013	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 08, 2012	Mar. 28, 2013	Nov. 07, 2013	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	100400	9kHz~30GHz	Jun. 01, 2012	Mar. 28, 2013	May 31, 2013	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 07, 2012	Mar. 28, 2013	Dec. 06, 2013	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2013	Mar. 28, 2013	Jan. 05, 2014	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1GHz	Jun. 01, 2012	Mar. 28, 2013	May 31, 2013	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 29, 2012	Mar. 28, 2013	Dec. 28, 2013	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10MHz~40GHz	Dec. 29, 2012	Mar. 19, 2013 ~Mar. 28, 2013	Dec. 28, 2013	-
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 29, 2012	Mar. 19, 2013 ~Mar. 28, 2013	Dec. 28, 2013	-
GPS Station	ADIVIC	MP9000	MP9000-1110 46	N/A	N/A	Mar. 19, 2013 ~Mar. 28, 2013	N/A	-

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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))	2.54

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 EP330701 as below.

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