FCC Test Report

APPLICANT : CT Asia

EQUIPMENT: 3G Smart Phone

BRAND NAME : BLU

MODEL NAME : NEO 5.5

FCC ID : YHLBLUNEO55

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on May 29, 2015 and testing was completed on Jul. 03, 2015. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2009 and has been in 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 (SHENZHEN) 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 (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Testing Laboratory 2353

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC552903	Rev. 01	Initial issue of report	Jul. 28, 2015

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.107	ICES003 Section 6.1	AC Conducted Emission	< 15.107 limits < ICES003 6.1 limits	PASS	Under limit 3.04 dB at 0.520 MHz
3.2	15.109	ICES003 Section 6.2	Radiated Emission	< 15.109 limits < ICES003 6.2 limits	PASS	Under limit 3.61 dB at 34.050 MHz for Quasi-Peak

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1. General Description

1.1. Applicant

CT Asia

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

1.2. Manufacturer

SHENZHEN FORTUNESHIP TECHNOLOGY., LTD

6th Floor, Kingson Building, New Energy Innovation Industrial Park. No.1 ChuangSheng Road, Nanshen District, Shenzhen, P.R. China

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	3G Smart Phone
Brand Name	BLU
Model Name	NEO 5.5
FCC ID	YHLBLUNEO55
EUT supports Radios application	GSM/GPRS/EGPRS(Downlink Only)/ WCDMA/HSPA/HSPA+(Downlink Only)/ WLAN2.4GHz 802.11b/g/n HT20 Bluetooth v2.1+EDR
IMEI Code	Conduction: 352273017386340/352751013438420 Radiation: 352273017386340/352751013438420
HW Version	FS040-V2.0
SW Version	v01
EUT Stage	Pre-Production

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 subjective to this standard

Product Specification subjective to this standard					
Product Specif	-				
	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 IV : 1712.4 MHz ~ 1752.6 MHz				
	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz				
	802.11b/g/n: 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	WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz				
RX Frequency	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				
	WWAN : PIFA Antenna				
Antenna Type	WLAN : PIFA Antenna				
Antenna Type	Bluetooth : PIFA Antenna				
	GPS : PIFA Antenna				
	GSM: GMSK				
	GPRS: GMSK				
	EDGE: GMSK / 8PSK (Downlink Only)				
	WCDMA: QPSK (Uplink)				
	HSDPA: QPSK (Uplink)				
	HSUPA: QPSK (Uplink)				
Type of Modulation	HSPA+: 16QAM (Downlink Only)				
	802.11b: DSSS (DBPSK / DQPSK / CCK)				
	802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)				
	Bluetooth (1Mbps) : GFSK				
	Bluetooth (2Mbps) : π /4-DQPSK				
	Bluetooth (3Mbps): 8-DPSK				
	GPS: BPSK				

1.5. Modification of EUT

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

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1.6. Test Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.					
	1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili					
Test Site Location	Town, Nanshan District, Shenzhen, Guangdong, P. R. China					
Test Site Location	TEL: +86-755-8637-9589					
	FAX: +86-755-8637-9595					
Took Site No.	Sporton Site No.					
Test Site No.	CO01-SZ					

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.					
	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan					
Test Site Location	warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China					
	TEL: +86-755- 3320-2398					
Took Oite No	Sporton Site No. FCC/IC Registration					
Test Site No.	03CH01-SZ	831040/4086F				

1.7. Applicable 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 C63.4-2009
- IC ICES-003 Issue 5
- IC RSS-Gen Issue 4

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 C63.4-2009 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.

		Test Condition			
Item	EUT Configuration		EMI	EMI	
		AC	RE<1G	RE≥1G	
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	\boxtimes	
2.	Data application transferred mode				
	(EUT connected with notebook)				

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 + SIM1 <fig.1></fig.1>
AC Conducted Emission	1/2	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM2 <fig.1></fig.1>
		Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 <fig.2></fig.2>
	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM1 <fig.1></fig.1>
Radiated Emissions < 1GHz		Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM2 <fig.1></fig.1>
		Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 <fig.2></fig.2>
Radiated	4/0	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM1 <fig.1></fig.1>
Emissions ≥ 1GHz	1/2	Mode 2: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 <fig.2></fig.2>

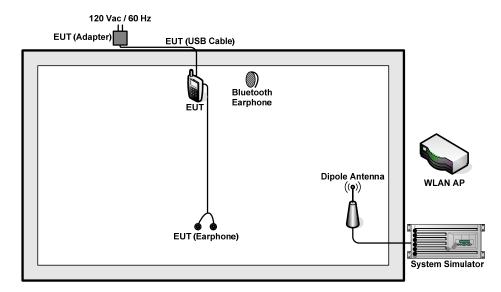
Remark:

- The worst case of AC is mode 2; and the USB Link mode of AC is mode 3, the test data of these modes are reported.
- 2. The worst case of RE < 1G is mode 1; and the USB Link mode of RE is mode 3, the test data of these modes are reported.
- Link with Notebook means data application transferred mode between EUT and Notebook.

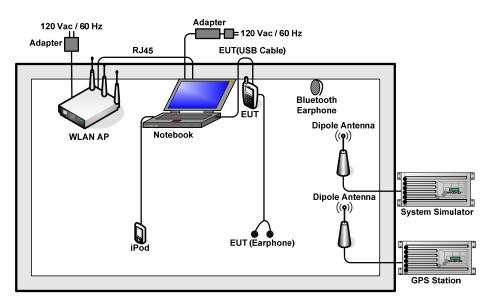
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2.2. Connection Diagram of Test System



<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	Agilent	8960	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-link	DIR-615	N/A	N/A	Unshielded,1.8m
4.	WLAN AP	D-link	DIR-628	KA2DIR628A2	N/A	Unshielded,1.8m
5.	WLAN AP	ASUSTek	RT-AC66U	MSQ- RTAC66U	N/A	Unshielded,1.2m with Core
6.	Bluetooth Earphone	Lenovo	LBH301	N/A	N/A	N/A
7.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
8.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8 m
9.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
10.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2 m	N/A
11.	iPod	Apple	MC525ZP/A	FCC DoC	Shielded, 1.0 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. Data application is transferred between Notebook and EUT via USB cable.
- 2. Turn on GPS function to make the EUT receive continuous signals from GPS station.
- 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

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

- 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 (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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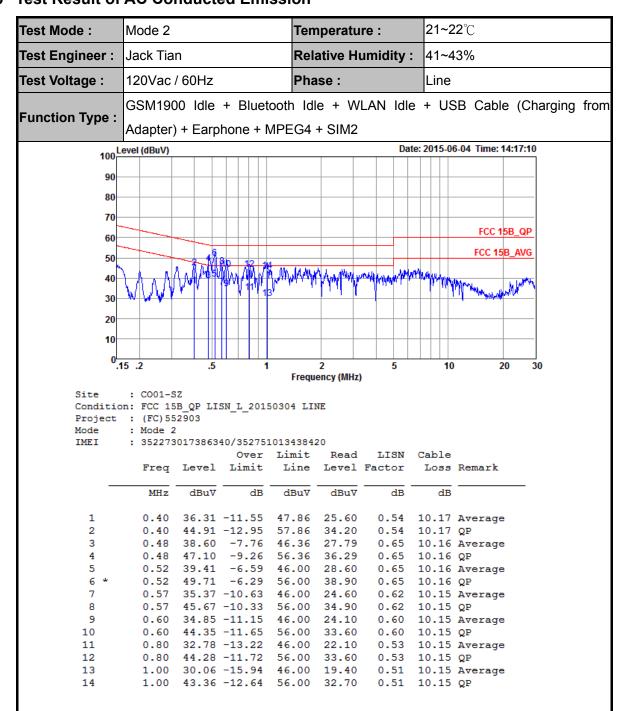
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3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission



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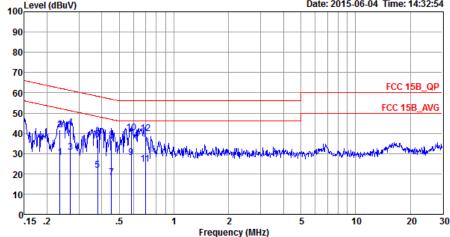


21~22℃ Test Mode: Mode 2 Temperature: Test Engineer: Jack Tian Relative Humidity: 41~43% Phase: 120Vac / 60Hz Test Voltage: Neutral GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Function Type: Adapter) + Earphone + MPEG4 + SIM2 100 Level (dBuV) Date: 2015-06-04 Time: 14:12:15 90 80 70 FCC 15B_QP 60 FCC 15B_AVG 50 40 30 20 10 10 30 Frequency (MHz) Site : CO01-SZ Condition: FCC 15B_QP LISN_N_20150304 NEUTRAL Project : (FC) 552903 Mode : Mode 2 IMEI : 352273017386340/352751013438420 Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark dBu∀ dB dBuV dBuV dB MHz dB 1 0.48 41.56 -4.80 46.36 30.80 0.60 10.16 Average 0.60 10.16 QP 0.48 46.16 -10.20 56.36 35.40 3 * 0.52 42.96 -3.04 46.00 32.20 0.60 10.16 Average 0.52 49.46 -6.54 56.00 38.70 0.60 39.93 -6.07 46.00 29.20 0.60 10.16 QP 0.58 10.15 Average 4 5 0.60 44.83 -11.17 56.00 34.10 0.58 10.15 QP 6 0.79 28.70 -17.30 46.00 18.00 0.79 37.60 -18.40 56.00 26.90 7 0.55 10.15 Average 0.55 10.15 QP 8 1.00 33.71 -12.29 46.00 23.00 0.56 10.15 Average 9 1.00 42.71 -13.29 56.00 32.00 1.46 28.74 -17.26 46.00 18.00 1.46 38.64 -17.36 56.00 27.90 10 0.56 10.15 QP 0.57 10.17 Average 0.57 10.17 QP 12

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21~22°C Test Mode: Mode 3 Temperature: Jack Tian **Relative Humidity:** 41~43% Test Engineer: 120Vac / 60Hz Phase: Test Voltage: Line WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + GPS Rx + SIM1 Date: 2015-06-04 Time: 14:32:54 90



Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20150304 LINE

Project : (FC) 552903

Mode : Mode 3

IMEI : 352273017386340/352751013438420

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
1	0.24	27.90	-24.36	52.26	17.10	0.54	10.26	Average
2	0.24	41.80	-20.46	62.26	31.00	0.54	10.26	QP
3	0.27	30.68	-20.48	51.16	19.89	0.56	10.23	Average
4	0.27	42.78	-18.38	61.16	31.99	0.56	10.23	QP
5	0.38	21.62	-26.68	48.30	10.89	0.55	10.18	Average
6	0.38	36.72	-21.58	58.30	25.99	0.55	10.18	QP
7	0.45	18.07	-28.78	46.85	7.30	0.61	10.16	Average
8	0.45	36.37	-20.48	56.85	25.60	0.61	10.16	QP
9	0.58	27.86	-18.14	46.00	17.10	0.61	10.15	Average
10 *	0.58	40.26	-15.74	56.00	29.50	0.61	10.15	QP
11	0.70	24.59	-21.41	46.00	13.90	0.54	10.15	Average
12	0.70	39.69	-16.31	56.00	29.00	0.54	10.15	QP

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21~22℃ Test Mode: Mode 3 Temperature: Test Engineer: Jack Tian Relative Humidity: 41~43% 120Vac / 60Hz Phase: Test Voltage: Neutral WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + GPS Rx + SIM1 100 Level (dBuV) Date: 2015-06-04 Time: 14:36:18 90 80 70 FCC 15B_QP 60 FCC 15B_AVG 50 30 20 10 .15 .2 10 5 20 30 Frequency (MHz) : CO01-SZ Condition: FCC 15B QP LISN N 20150304 NEUTRAL Project : (FC) 552903 Mode : Mode 3 TMET : 352273017386340/352751013438420 Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark dBuV dB dBuV dBu∀ MHz dB dB 1 0.25 29.10 -22.50 51.60 18.30 0.56 10.24 Average 0.25 41.70 -19.90 61.60 30.90 0.56 10.24 QP 2 3 0.35 28.45 -20.51 48.96 17.70 0.57 10.18 Average 0.35 38.35 -20.61 58.96 27.60 0.41 20.93 -26.71 47.64 10.20 0.57 10.18 QP 0.56 10.17 Average 4 0.57 5 0.41 35.73 -21.91 57.64 25.00 0.56 10.17 QP 7 0.46 18.35 -28.41 46.76 7.60 0.46 35.65 -21.11 56.76 24.90 7.60 0.59 10.16 Average 0.59 10.16 QP 8 0.57 25.14 -20.86 46.00 14.40 0.59 10.15 Average 0.57 35.54 -20.46 56.00 24.80 0.70 25.50 -20.50 46.00 14.80 0.59 10.15 QP 0.55 10.15 Average 10 11 0.70 36.50 -19.50 56.00 25.80 0.55 10.15 QP 12 *

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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	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

The measuring equipment is listed in the section 4 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 is a Bi-Log antenna and its 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 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 (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 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 (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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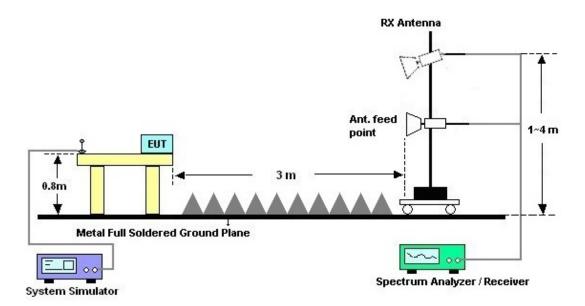
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

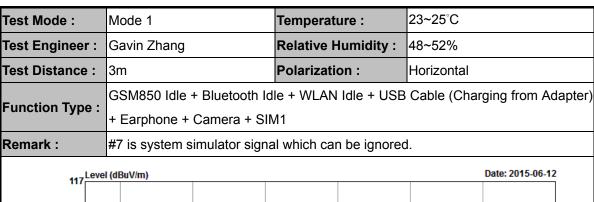


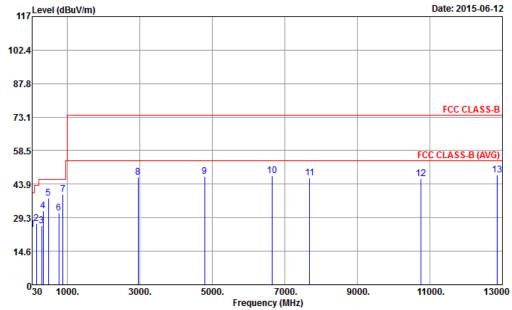
For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission





Site : 03CH01-SZ

Condition FCC CLASS-B 3m LF_ANT_141107 HORIZONTAL

Project (FC) 552903 Mode Mode 1

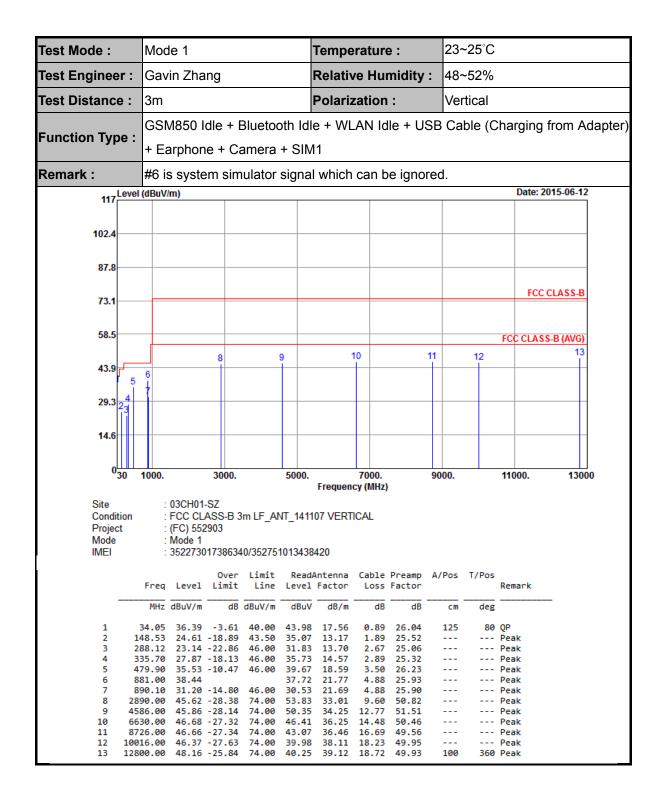
352273017386340/352751013438420 IMEI

			Over	Limit	Read/	Antenna	Cable	Preamp	A/Pos	T/Pos	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	34.59	24.08	-15.92	40.00	32.16	17.05	0.90	26.03			Peak
2	150.96	26.59	-16.91	43.50	37.26	12.93	1.91	25.51			Peak
3	288.12	25.77	-20.23	46.00	34.46	13.70	2.67	25.06			Peak
4	335.70	32.35	-13.65	46.00	40.21	14.57	2.89	25.32			Peak
5	479.90	37.74	-8.26	46.00	41.88	18.59	3.50	26.23	100	0	Peak
6	766.90	31.20	-14.80	46.00	31.17	21.77	4.50	26.24			Peak
7	881.00	39.31			38.59	21.77	4.88	25.93			Peak
8	2958.00	46.79	-27.21	74.00	54.85	33.06	9.77	50.89			Peak
9	4790.00	47.21	-26.79	74.00	50.88	34.38	12.80	50.85			Peak
10	6648.00	47.57	-26.43	74.00	47.30	36.24	14.50	50.47			Peak
11	7684.00	46.62	-27.38	74.00	45.61	36.37	15.33	50.69			Peak
12	10758.00	46.44	-27.56	74.00	41.22	38.66	17.17	50.61			Peak
13	12854.00	47.75	-26.25	74.00	39.88	39.09	18.74	49.96	100	200	Peak

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Test Engineer:

23~25°C Test Mode: Mode 3 Temperature:

Relative Humidity:

48~52%

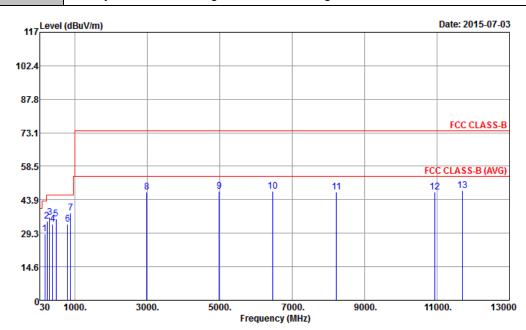
Test Distance: 3m Polarization: Horizontal

WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type:

Notebook) + Earphone + GPS Rx + SIM1

Remark: #7 is system simulator signal which can be ignored.

Gavin Zhang



: 03CH01-SZ Site

Condition : FCC CLASS-B 3m LF_ANT_141107 HORIZONTAL

Project (FC) 552903 Mode Mode 3

IMEI : 352273017386340/352751013438420

			Over	Limit	Read/	Intenna	Cable	Preamp	A/Pos	T/Pos	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	
1	167.97	29.05	-14.45	43.50	40.53	11.93	2.01	25.42			Peak
2	226.29	34.63	-11.37	46.00	45.46	12.02	2.34	25.19			Peak
3	299.73	36.09	-9.91	46.00	44.30	14.10	2.73	25.04	100	200	Peak
4	388.90	33.20	-12.80	46.00	40.53	15.26	3.14	25.73			Peak
5	479.90	35.55	-10.45	46.00	39.69	18.59	3.50	26.23			Peak
6	799.80	33.31	-12.69	46.00	32.39	22.50	4.59	26.17			Peak
7	881.00	38.24			37.52	21.77	4.88	25.93			Peak
8	2980.00	47.41	-26.59	74.00	33.39	33.07	9.85	28.90			Peak
9	4984.00	47.64	-26.36	74.00	28.22	34.49	13.10	28.17			Peak
10	6470.00	47.53	-26.47	74.00	24.79	36.27	14.36	27.89			Peak
11	8218.00	47.30	-26.70	74.00	21.14	36.37	16.17	26.38			Peak
12	10930.00	47.37	-26.63	74.00	15.64	38.76	17.73	24.76			Peak
13	11694.00	47.78	-26.22	74.00	14.47	39.31	18.51	24.51	100	0	Peak

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23~25°C Test Mode: Mode 3 Temperature: Test Engineer: Gavin Zhang **Relative Humidity:** 48~52% Test Distance: Polarization: 3m Vertical WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + GPS Rx + SIM1 Remark: #7 is system simulator signal which can be ignored. 117 Level (dBuV/m) Date: 2015-07-03 102.4 87.8 FCC CLASS-B 73.1 58.5 FCC CLASS-B (AVG) 10 43.9 29.3 0<mark>30</mark> 13000 1000. 3000. 5000. 9000. 11000. Frequency (MHz) Site : 03CH01-SZ Condition : FCC CLASS-B 3m LF_ANT_141107 VERTICAL : (FC) 552903 Project Mode Mode 3 : 352273017386340/352751013438420 IMFI T/Pos Over Limit ReadAntenna Cable Preamp A/Pos Freq Level Limit Line Level Factor Remark Loss Factor MHz dBuV/m dB dBuV/m dB dBuV dB/m dB deg cm 41.07 24.75 -15.25 40.00 35.71 14.08 0.97 26.01 Peak 166.62 27.57 -15.93 43.50 39.01 11.97 2.01 25.42 ------ Peak 32.83 -13.17 298.65 46.00 41.07 14.07 2.73 25.04 --- Peak 479.90 33.52 -12.48 46.00 37.66 18.59 3.50 26.23 100 360 Peak 715.10 32.78 -13.22 46.00 34.20 Peak 797.00 32.13 -13.87 46.00 31.29 22.44 4.58 26.18 --- Peak 881.00 38.08 37.36 21.77 4.88 25.93 Peak --- Peak 2996.00 47.19 -26.81 74.00 33.15 33.09 9.85 28.90 4728.00 47.01 -26.99 74.00 28.15 34.33 12.74 28.21 Peak 6732.00 47.54 -26.46 74.00 24.28 36.21 14.54 27.49 Peak 11 8604.00 47.25 -26.75 74.00 20.63 36.32 16.43 26.13 --- Peak 10946.00 47.01 -26.99 48.82 -25.18 74.00 15.26 38.77 17.73 24.75 Peak

74.00

15.11

39.36

18.84

24.49

11754.00

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360 Peak

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2015	Jun. 12, 2015~ Jul. 03, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Sep. 25, 2014	Jun. 12, 2015~ Jul. 03, 2015	Sep. 24, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Jun. 12, 2015~ Jul. 03, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Jun. 12, 2015~ Jul. 03, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Jun. 12, 2015~ Jul. 03, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 05, 2015	Jun. 12, 2015~ Jul. 03, 2015	May 04, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Jun. 12, 2015~ Jul. 03, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 12, 2015~ Jul. 03, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 12, 2015~ Jul. 03, 2015	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Jan. 28, 2015	Jun. 04, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Jun. 04, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Jun. 04, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Sep. 29, 2014	Jun. 04, 2015	Sep. 28, 2015	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 24, 2014	Jun. 04, 2015	Oct. 23, 2015	Conduction (CO01-SZ)

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5. Uncertainty of Evaluation

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

Confidence of 95% (U = 2Uc(y))

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

Measuring Uncertainty for a Level of	2 0 4 5
Confidence of 95% (U = 2Uc(y))	3.9dB

SPORTON INTERNATIONAL (SHENZHEN) INC.

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