FCC Test Report

APPLICANT : CT Asia

EQUIPMENT: Smart phone

BRAND NAME : BLU

MODEL NAME : ENERGY X

FCC ID : YHLBLUENERGYX

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Jun. 18, 2015 and testing was completed on Jul. 16, 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

Report No. : FC561807

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC561807	Rev. 01	Initial issue of report	Jul. 22, 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 1.23 dB at 0.570 MHz
3.2	15.109	ICES003 Section 6.2	Radiated Emission	< 15.109 limits < ICES003 6.2 limits	PASS	Under limit 2.38 dB at 102.090 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

Longcheer Technology (Shanghai) Co., Ltd.

Building 1, No.401, Caobao Rd., Xuhui District, Shanghai, P.R.China

1.3. Product Feature of Equipment Under Test

Product Feature					
Equipment	Smart phone				
Brand Name	BLU				
Model Name	ENERGY X				
FCC ID	YHLBLUENERGYX				
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only)/ WLAN 2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0 + EDR/Bluetooth v4.0 LE				
IMEI Code	Conduction: N/A Radiation: 865843022787557/865843022785700				
HW Version	LWDM034				
SW Version	BLU_E010U_V01_GENERIC				
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.

SPORTON INTERNATIONAL (SHENZHEN) INC.

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1.4. Product Specification subjective to this standard

Product Specification subjective to this standard				
	GSM850: 824.2 MHz ~ 848.8 MHz			
	GSM1900: 1850.2 MHz ~ 1909.8MHz			
	WCDMA Band V: 826.4 MHz ~ 846.6 MHz			
Tx Frequency	WCDMA Band 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			
Dy Francisco	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 : IFA Antenna			
Antenna Type	WLAN: IFA Antenna			
Antenna Type	Bluetooth : IFA Antenna			
	GPS : IFA Antenna			
	GSM: GMSK			
	GPRS: GMSK			
	EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK			
	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 v4.0 LE : GFSK			
	Bluetooth (1Mbps) : GFSK			
	Bluetooth (2Mbps) : π /4-DQPSK			
	Bluetooth (3Mbps) : 8-DPSK			
	GPS: BPSK			

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1.5. Modification of EUT

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

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
rest Site Location	TEL: +86-755-8637-9589
	FAX: +86-755-8637-9595
Took Cita 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 Oito No	Sporton Site No.	FCC/IC Registration No.			
Test Site No.	03CH01-SZ 831040/4086F				

Note: The test site complies with ANSI C63.4 2009 requirement.

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	EMI	
			RE<1G	RE≥1G	
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	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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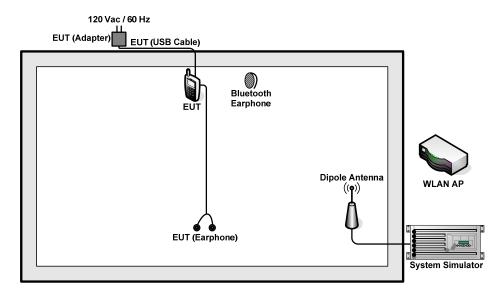
Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM1 <fig.1></fig.1>
AC Conducted Emission	1/2	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + 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: WCDMA Band II 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 Emissions ≥ 1GHz	2	Mode 1: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 <fig.2></fig.2>

Remark:

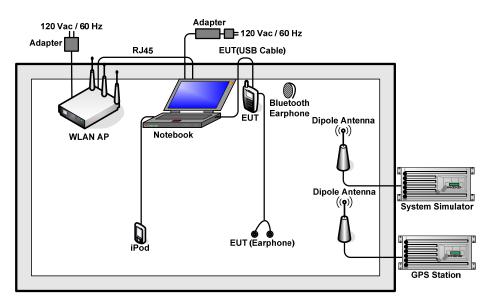
- 1. The worst case of AC is mode 2; and the USB Link mode of AC is mode 3, the test data of these modes are reported.
- 2. The worst case of RE < 1G is mode 3; only the test data of this mode is reported.
- 3. Data Link with notebook means data application transferred mode between EUT and notebook.

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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	Nokia	BH-108	PYAHS-107W	N/A	N/A
7.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8 m
8.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
9.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2 m	N/A
10.	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 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. 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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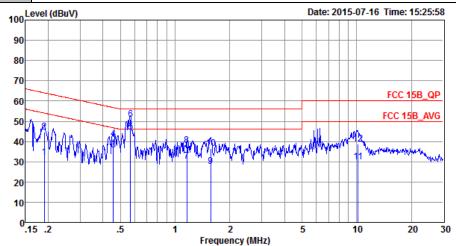
3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 2	Temperature :	21~23 ℃	
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%	
Test Voltage :	120Vac / 60Hz	Phase :	Line	
Eupotion Type	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from			
Function Type :	Adapter) + Earphone + MPEG4 + SIM2			



Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20150304 LINE

Project : (FC)561807 Mode : Mode 2 IMEI : N/A

	_		Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	TeAeT	Factor	Loss	Remark
	MHz	dBu∇	dB	dBu∀	dBu₹	dB	dB	
1	0.19	32.01	-22.01	54.02	21.20	0.50	10.31	Average
2	0.19	44.51	-19.51	64.02	33.70	0.50	10.31	QP
3	0.46	35.78	-10.98	46.76	25.00	0.62	10.16	Average
4	0.46	41.18	-15.58	56.76	30.40	0.62	10.16	QP
5	* 0.57	44.77	-1.23	46.00	34.00	0.62	10.15	Average
6	0.57	51.07	-4.93	56.00	40.30	0.62	10.15	QP
7	1.16	30.16	-15.84	46.00	19.50	0.50	10.16	Average
8	1.16	38.16	-17.84	56.00	27.50	0.50	10.16	QP
9	1.57	27.65	-18.35	46.00	16.99	0.48	10.18	Average
10	1.57	36.55	-19.45	56.00	25.89	0.48	10.18	QP
11	10.18	29.78	-20.22	50.00	18.90	0.55	10.33	Average
12	10.18	38.68	-21.32	60.00	27.80	0.55	10.33	QP

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Test Mode :	Mode 2		Temperatu	re:	21~2	3 ℃	
Test Engineer :	Jacky Yang		Relative H	umidity :	41~43%		
Test Voltage :	120Vac / 60Hz		Phase :		Neut	ral	
Function Type	WCDMA Band	II Idle + Blue	etooth Idle +	- WLAN Id	le + L	JSB Cable (Charging from
Function Type :	Adapter) + Earp	hone + MPE	EG4 + SIM2				
100 L	evel (dBuV)			Date:	2015-07	7-16 Time: 15:30	:55
90							
80							_
70	_						_
60						FCC 15B_0	<u>⊅P</u>
50	M. N. O.	8				FCC 15B_A\	<u>/G</u>
40	The world of the second		. 400			A abben .	_
30	A LAN ALLANDAM RELAK	That which is the state of the	hyog kulaaman Macalinin	talan kanan	VIVIT II	May May man	kulper!
20	3 5				+++		
10							_
0 .1	15 .2 .5	1	2	5	10	20	30
Site	: CO01-SZ		Frequency (MHz))			
	on: FCC 15B_QP LI	SN_N_2015030	4 NEUTRAL				
Project Mode	: (FC)561807 : Mode 2						
IMEI	: N/A						
	Freg Level		mit Read ine Level	LISN (Loss	Remark	
_		. <u> </u>					_
	MHz dBuV	dB d	lBuV dBuV	dB	dB		
1			.05 16.80			Average	
2			.05 30.80		10.28		
3 4		-30.54 51				Average	
5		-28.94 61 -27.21 47	.03 21.30 .15 9.21		10.22	Average	
6		-26.81 57			10.16	_	
7 *			.00 27.40			Average	
8	0.56 44.44		.00 33.70		10.15	_	
9	1.55 23.54	-22.46 46	.00 12.80	0.57	10.17	Average	
10			.00 20.80		10.17		
11			.00 13.20			Average	
12	9.91 35.92	-24.08 60	.00 24.90	0.70	10.32	QP	

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Test Mode :	Mode 3			Temper	Temperature :			21~23 ℃				
Test Engineer :	Jacky Yang			Relative Humidity :			4	41~43%				
Test Voltage :	120Vac / 60Hz			Phase :			Li	Line				
Function Type :	Notebook) + Earphone + GPS Rx + SIM1									`		
100	evel (dBuV)				Date: 2015-07-14 Tir					7-14 TIME	9: 11:23:2)
90								$\dashv \uparrow$	\top			
90 80												
										FCC	15B_QP	

Site : CO01-SZ

0.15 .2

20 10

Condition: FCC 15B_QP LISN_L_20150304 LINE

Project : (FC)561807 Mode : Mode 3 IMEI : N/A

	Freq	Level	Limit	Limit	Level	Factor	Loss	Remark
	MHz	dBu₹	dB	dBu₹	dBu₹	dB	dB	
1	0.24	27.80	-24.46	52.26	17.00	0.54	10.26	Average
2	0.24	42.90	-19.36	62.26	32.10	0.54	10.26	QP
3	0.29	19.07	-31.52	50.59	8.30	0.56	10.21	Average
4	0.29	32.67	-27.92	60.59	21.90	0.56	10.21	QP
5	0.37	21.83	-26.69	48.52	11.10	0.55	10.18	Average
6	0.37	35.83	-22.69	58.52	25.10	0.55	10.18	QP
7	0.42	14.04	-33.33	47.37	3.30	0.57	10.17	Average
8	0.42	32.84	-24.53	57.37	22.10	0.57	10.17	QP
9	0.53	25.90	-20.10	46.00	15.10	0.65	10.15	Average
10 *	0.53	37.60	-18.40	56.00	26.80	0.65	10.15	QP
11	0.64	20.42	-25.58	46.00	9.70	0.57	10.15	Average
12	0.64	35.52	-20.48	56.00	24.80	0.57	10.15	QP

Frequency (MHz)

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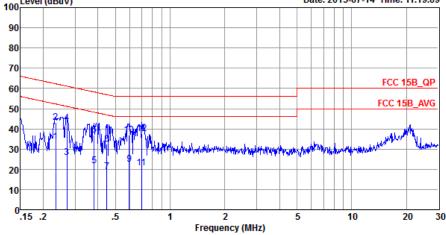
10

TION Cable

20



Test Mode :	Mode 3	Temperature :	21~23℃					
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%					
Test Voltage :	120Vac / 60Hz	Phase :	Neutral					
Function Type	WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with							
Function Type :	Notebook) + Earphone + GPS Rx + SIM1							
100 ^L	evel (dBuV)	Date: 2015-07-14 Time: 11:19:09						
90								
80								



Site : CO01-SZ

Condition: FCC 15B_QP LISN_N_20150304 NEUTRAL

Project : (FC)561807 Mode : Mode 3 IMEI : N/A

	Freq	Level	Over	Limit Line	Read Level	LISN	Loss	Remark
	MHz	dBuV	dB	dBu∀	dBuV	——dB	dB	
1	0.23	33.60	-18.70	52.30	22.80	0.54	10.26	Average
2	0.23	43.30	-19.00	62.30	32.50	0.54	10.26	QP
3	0.27	25.89	-25.23	51.12	15.10	0.57	10.22	Average
4	0.27	42.69	-18.43	61.12	31.90	0.57	10.22	QP
5	0.38	21.93	-26.32	48.25	11.19	0.56	10.18	Average
6	0.38	36.83	-21.42	58.25	26.09	0.56	10.18	QP
7	0.45	18.94	-27.95	46.89	8.20	0.58	10.16	Average
8	0.45	32.44	-24.45	56.89	21.70	0.58	10.16	QP
9	0.59	22.43	-23.57	46.00	11.70	0.58	10.15	Average
10	0.59	36.73	-19.27	56.00	26.00	0.58	10.15	QP
11	0.70	20.70	-25.30	46.00	10.00	0.55	10.15	Average
12 *	0.70	37.70	-18.30	56.00	27.00	0.55	10.15	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

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

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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 (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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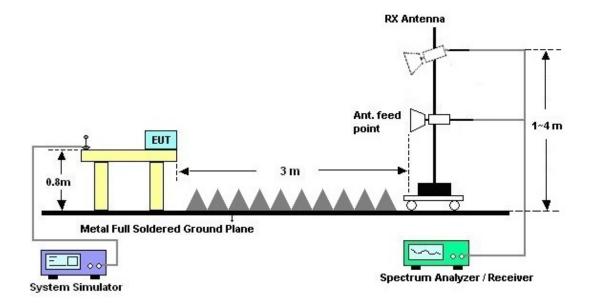
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

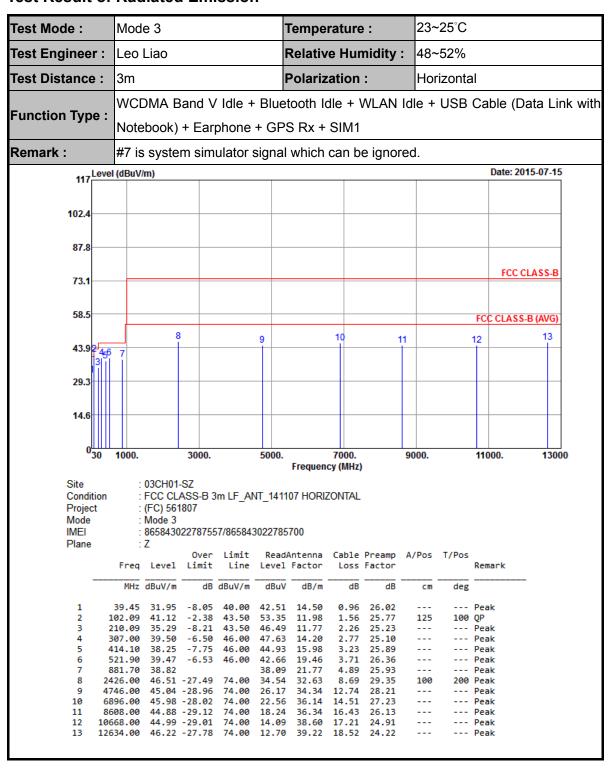


For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission



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23~25°C Test Mode: Mode 3 Temperature: Test Engineer: Leo Liao **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: 2015-07-15 102.4 87.8 FCC CLASS-B 73.1 58.5 FCC CLASS-B (AVG) 10 11 12 13 43.9 29.3 14.6 030 1000. 3000. 9000. 11000. 13000 Frequency (MHz) Site : 03CH01-SZ Condition : FCC CLASS-B 3m LF_ANT_141107 VERTICAL Project : (FC) 561807 Mode : Mode 3 : 865843022787557/865843022785700 IMFI Plane : Z 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 deg cm 36.03 -3.97 34.47 -9.03 360 Peak 39.18 40.00 46.09 15.01 0.95 26.02 100 102.09 43.50 46.70 11.98 1.56 25.77 --- Peak ---216.03 33.90 -12.10 46.00 44.97 2.29 25.22 Peak 11.86 479.90 34.71 -11.29 46.00 38.85 18.59 3.50 --- Peak 624.10 35.36 -10.64 46.00 37.93 19.84 4.01 26.42 --- Peak 715.10 881.70 34.91 -11.09 46.00 36.33 37.06 20.62 4.30 26.34 --- Peak 37.79 --- Peak 21.77 4.89 25.93 46.75 -27.25 2392.00 74.00 34.93 32.60 8.60 29.38 360 Peak --- Peak --- Peak 4732.00 46.00 -28.00 74.00 27.13 34.34 12.74 28.21 ---10 6880.00 45.73 -28.27 74.00 22.30 36.15 14.51 27.23 8508.00 44.89 -29.11 18.61 13.96 74.00 --- Peak 11 36.22 16.26 26.20 10584.00 44.81 -29.19 74.00 38.55 17.25 24.95 --- Peak 12 --- Peak 45.10 -28.90 74.00 11.45 12752.00 18.68

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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	100724	9kHz~3GHz	Jan. 28, 2015	Jul. 14, 2015~ Jul. 16, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Jul. 14, 2015~ Jul. 16, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Jul. 14, 2015~ Jul. 16, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Sep. 29, 2014	Jul. 14, 2015~ Jul. 16, 2015	Sep. 28, 2015	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 24, 2014	Jul. 14, 2015~ Jul. 16, 2015	Oct. 24, 2015	Conduction (CO01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2015	Jul. 15, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Sep. 25, 2014	Jul. 15, 2015	Sep. 24, 2015	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 06, 2015	Jul. 15, 2015	May 05, 2016	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Jul. 15, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Jul. 15, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Sep. 04, 2014	Jul. 15, 2015	Sep. 03, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Jul. 15, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 05, 2015	Jul. 15, 2015	May 04, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5G Hz	Jan. 28, 2015	Jul. 15, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Jul. 15, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 15, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 15, 2015	NCR	Radiation (03CH01-SZ)

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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	2.3dB
Confidence of 95% (U = 2Uc(y))	2.3uB

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

Measuring Uncertainty for a Level of	0.040
Confidence of 95% (U = 2Uc(y))	3.9dB

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