

# **FCC Test Report**

APPLICANT : CT Asia

**Mobile Phone EQUIPMENT** 

**BRAND NAME** : BLU

MODEL NAME : Life Pro

FCC ID : YHLBLULIFEPRO

**STANDARD** : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Aug. 30, 2013 and testing was completed on Sep. 18, 2013. We, SPORTON INTERNATIONAL (SHENZHEN) 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 (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Louis Wu / Manager

Louis Win

Approved by: Jones Tsai / Manager

## SPORTON INTERNATIONAL (SHENZHEN) INC.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPRO Page Number : 1 of 22 Report Issued Date: Sep. 24, 2013

Testing Laboratory 2353

: Rev. 01 Report Version



## **TABLE OF CONTENTS**

RE	VISIO	N HISTORY	3
su	MMAF	RY OF TEST RESULT	4
1.	GENI	ERAL DESCRIPTION	5
	1.1. 1.2. 1.3. 1.4. 1.5. 1.6. 1.7.	Product Specification of Equipment Under Test  Modification of EUT  Test Site	5 6 6
2.	2.1. 2.2. 2.3. 2.4.	Support Unit used in test configuration and system	
3.	3.1. 3.2.		12
		OF MEASURING EQUIPMENT	
		IX A. SETUP PHOTOGRAPHS	22

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPRO Report No.: FC383001



## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC383001	Rev. 01	Initial issue of report	Sep. 24, 2013

TEL : 86-755- 3320-2398 FCC ID : YHLBLULIFEPRO Page Number : 3 of 22
Report Issued Date : Sep. 24, 2013

Report No.: FC383001



**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	6.89 dB at
				15.630 MHz	
					Under limit
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	0.11 dB at
3.2	15.109	Radiated Effission	< 15.109 IIIIIIIS	PASS	239.520 MHz for
					Quasi-Peak

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPRO Page Number : 4 of 22
Report Issued Date : Sep. 24, 2013

Report No.: FC383001

## 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

eMobile Comm (Shanghai) Inc.

3938, Hu Qing Ping Road, Shanghai

## 1.3. Feature of Equipment Under Test

Pro	oduct Feature
Equipment	Mobile Phone
Brand Name	BLU
Model Name	Life Pro
FCC ID	YHLBLULIFEPRO
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	J660_BLU_L1A_S0821
EUT Stage	Production Unit

Remark:

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

Report No.: FC383001

SPORTON INTERNATIONAL (SHENZHEN) INC.

Page Number : 5 of 22 TEL: 86-755-3320-2398 Report Issued Date: Sep. 24, 2013 FCC ID: YHLBLULIFEPRO Report Version : Rev. 01



## 1.4. Product Specification of Equipment Under Test

Product Specifi	ication 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 GPS: 1.57542 GHz
Antenna Type	WWAN : PIFA 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 v3.0 + EDR: GFSK, π/4-DQPSK, 8-DPSK GPS: BPSK

Report No.: FC383001

## 1.5. Modification of EUT

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

: 6 of 22 Page Number TEL: 86-755-3320-2398 Report Issued Date: Sep. 24, 2013 FCC ID: YHLBLULIFEPRO Report Version : Rev. 01

### 1.6. Test Site

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.				
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.				
	TEL: +86-755- 3320-2398				
Toot Site No	Sporton	Sporton Site No. FCC Registration No.			
Test Site No.	CO01-SZ	03CH01-SZ	831040		

## 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.

TEL : 86-755- 3320-2398 FCC ID : YHLBLULIFEPRO Page Number : 7 of 22
Report Issued Date : Sep. 24, 2013

Report No.: FC383001

## 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.

Report No.: FC383001

: 8 of 22

Page Number

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	EMI	EMI
		AC	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</li>

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.

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755- 3320-2398 Report Issued Date: Sep. 24, 2013 FCC ID: YHLBLULIFEPRO Report Version: Rev. 01



Test Items	EUT Configure Mode	Function Type
A.C. Conducted		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera <fig.1></fig.1>
AC Conducted Emission	1/2	Mode 2: WCDMA band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <fig.2></fig.2>
Dadiotod		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera <fig.1></fig.1>
Radiated Emissions < 1GHz	1/2	Mode 2: WCDMA band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <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 <fig.2></fig.2>

#### Remark:

- 1. The worst case of AC is mode 2; only the test data of this mode was reported.
- 2. The worst case of RE < 1G is mode 2; only the test data of this mode was reported.
- 3. Link with Notebook means data application transferred mode between EUT and Notebook.

TEL : 86-755- 3320-2398 FCC ID : YHLBLULIFEPRO Page Number : 9 of 22 Report Issued Date : Sep. 24, 2013

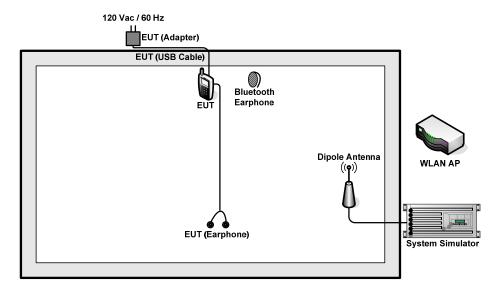
Report Version

: Rev. 01

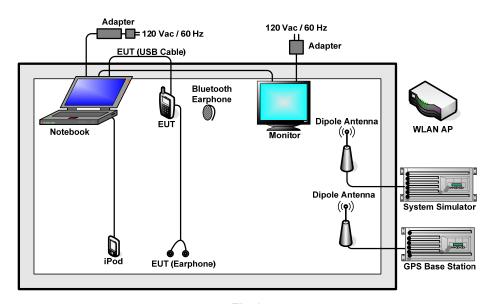
Report No.: FC383001



## 2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPRO

: 10 of 22 Page Number Report Issued Date: Sep. 24, 2013

: Rev. 01 Report Version

## 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	E5515C	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	T&E	GS-50	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	ADIVIE	MP9000	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-link	DIR-612	N/A	N/A	Unshielded, 1.8 m
5.	WLAN AP	D-link	DIR-615	N/A	N/A	Unshielded, 1.8 m
6.	Bluetooth Earphone	lenovo	BH-108	N/A	N/A	N/A
7.	Bluetooth Earphone	Nokia	BH-108	2010DP1340	N/A	N/A
8.	Notebook	lenovo	P08S	FCC DoC	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
9.	Notebook	DELL	P08S	FCC DoC	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
10.	Monitor	DELL	1707FPt	FCC DoC	shielded, 1.2 m	Unshielded, 1.8 m
11.	Monitor	DELL	IN1940MWB	FCC DoC	shielded, 1.2 m	Unshielded, 1.8 m
12.	iPod	Apple	MC525 ZP/A	FCC DoC	Shielded, 1.0 m	N/A

## 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.
- 2. Turn on GPS function to make the EUT receive continuous signals from GPS station.
- 3. Turn on camera to capture images.

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TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPRO

Page Number : 11 of 22
Report Issued Date : Sep. 24, 2013

Report No.: FC383001

### 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		

<sup>\*</sup>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.

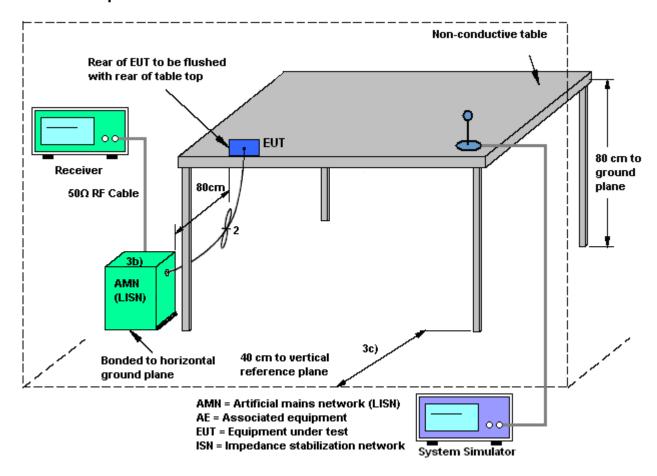
TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPRO

Page Number : 12 of 22
Report Issued Date : Sep. 24, 2013

Report No.: FC383001



## 3.1.4 Test Setup

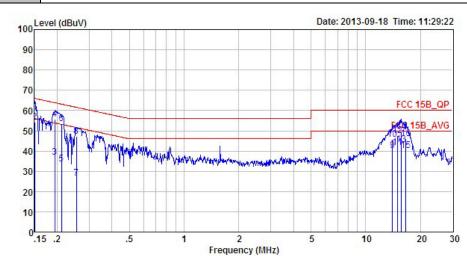


TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPRO Page Number : 13 of 22
Report Issued Date : Sep. 24, 2013



### 3.1.5 Test Result of AC Conducted Emission

	Test Mode :	Mode 2	Temperature :	23~24℃
	Test Engineer :	Henry Chen	Relative Humidity :	49~50%
	Test Voltage :	120Vac / 60Hz	Phase :	Line
	Function Type	WCDMA band V Idle + Blue	etooth Idle + WLAN Idl	e + USB Cable (Data Link with
Fur	Function Type :	Notebook) + Earphone + GF	'S Rx	



: CO01-SZ

Condition: FCC 15B\_QP LISN\_L\_20130328 LINE Project : (FC) 383001

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	-	MHz	dBu∇	dB	dBu∇	dBuV	dB	dB	-
1		0.15	35.22	-20.78	56.00	24.80	0.06	10.36	Average
2		0.15	54.42	-11.58	66.00	44.00	0.06	10.36	QP
3		0.19	37.05	-16.79	53.84	26.70	0.07	10.28	Average
4		0.19	55.65	-8.19	63.84	45.30	0.07	10.28	QP
5		0.21	33.73	-19.41	53.14	23.40	0.07	10.26	Average
6		0.21	53.33	-9.81	63.14	43.00	0.07	10.26	QP
7		0.25	26.51	-25.09	51.60	16.20	0.09	10.22	Average
8		0.25	47.31	-14.29	61.60	37.00	0.09	10.22	QP
9		14.06	40.28	-9.72	50.00	28.99	0.88	10.41	Average
10		14.06	45.58	-14.42	60.00	34.29	0.88	10.41	QP
11		14.99	41.73	-8.27	50.00	30.39	0.91	10.43	Average
12		14.99	47.53	-12.47	60.00	36.19	0.91	10.43	QP
13	*	15.63	43.11	-6.89	50.00	31.70	0.97	10.44	Average
14		15.63	49.41	-10.59	60.00	38.00	0.97	10.44	QP
15		16.66	40.15	-9.85	50.00	28.60	1.04	10.51	Average
16		16.66	46.25	-13.75	60.00	34.70	1.04	10.51	QP

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPRO

: 14 of 22 Page Number Report Issued Date: Sep. 24, 2013

Report No.: FC383001

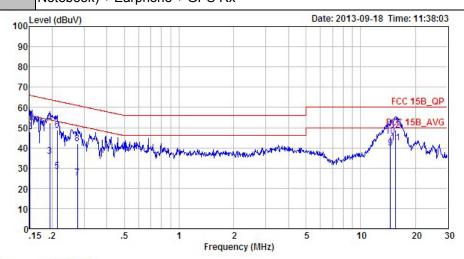
: Rev. 01 Report Version



**23~24**℃ Test Mode: Mode 2 Temperature : 49~50% Henry Chen Relative Humidity: Test Engineer: 120Vac / 60Hz Phase: Test Voltage : Neutral

Report No.: FC383001

WCDMA band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + GPS Rx



: CO01-SZ

Condition: FCC 15B QP LISN N 20130328 NEUTRAL

Project : (FC) 383001

		Freq	Level	Over	Limit Line	Read Level	LISN	Cable Loss	Remark
	-	MHz	dBu∀	dB	dBu∇	dBu∇	dB	dB	-
1		0.15	31.40	-24.60	56.00	21.00	0.04	10.36	Average
2		0.15	48.10	-17.90	66.00	37.70	0.04	10.36	QP
3		0.19	35.62	-18.22	53.84	25.30	0.04	10.28	Average
4		0.19	52.32	-11.52	63.84	42.00	0.04	10.28	QP
5		0.21	28.50	-24.60	53.10	18.20	0.04	10.26	Average
6		0.21	48.60	-14.50	63.10	38.30	0.04	10.26	QP
7		0.28	25.25	-25.69	50.94	15.00	0.04	10.21	Average
8		0.28	42.25	-18.69	60.94	32.00	0.04	10.21	QP
9		14.59	39.92	-10.08	50.00	29.00	0.50	10.42	Average
10		14.59	45.62	-14.38	60.00	34.70	0.50	10.42	QP
11	*	15.55	42.29	-7.71	50.00	31.30	0.55	10.44	Average
12		15.55	48.69	-11.31	60.00	37.70	0.55	10.44	QP

Page Number : 15 of 22 TEL: 86-755-3320-2398 Report Issued Date: Sep. 24, 2013 FCC ID: YHLBLULIFEPRO Report Version : Rev. 01

## 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

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPRO Page Number : 16 of 22 Report Issued Date : Sep. 24, 2013

Report No.: FC383001

## 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 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.
- 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.
- 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 $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

TEL : 86-755- 3320-2398 FCC ID : YHLBLULIFEPRO Page Number : 17 of 22

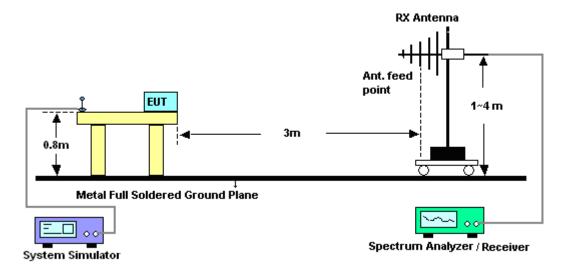
Report Issued Date : Sep. 24, 2013

Report No.: FC383001

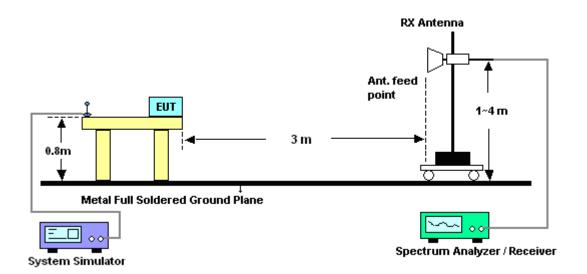


## 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



### For radiated emissions above 1GHz



TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPRO

: 18 of 22 Page Number Report Issued Date: Sep. 24, 2013

: Rev. 01 Report Version

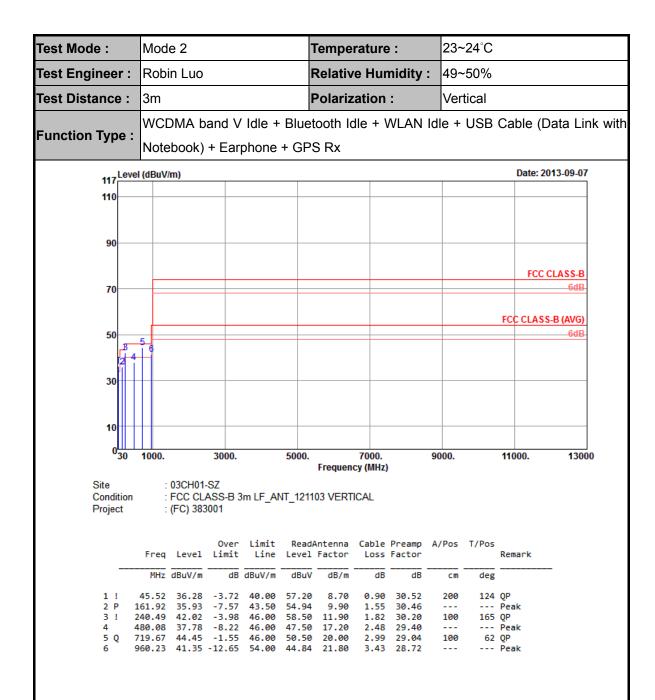
### 3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 2	2		7	Tempe	rature	<b>:</b>	23~	·24°C			
Гest Engineer :	Robin Luo				Relative Humidity :			: 49~	49~50%			
Test Distance :	3m				Polarization :		Hor	Horizontal				
	WCDMA band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link											
Function Type :	Notebook) + Earphone + GPS Rx											
Leve	I (dBuV/m) Date: 2013-09-07											
110												
90												
											FCC CLASS-B	
70										_	-6dB	
										FCC (	CLASS-B (AVG) 6dB	
50 3	5 6										-Vub	
J1	+											
30												
10										_		
030	1000.	2000		5000		7000		0000		4400	0 4300	
30	1000.	3000.		5000.	Frequen	7000. cy (MHz)	)	9000.		1100	0. 1300	
		CH01-SZ										
Site	: 030	71101 02			A2 HADI3							
Condition	: FC	C CLASS-B 3	Bm LF_AN	NT_1211	US HURIZ	ONTAL						
	: FC		3m LF_AN	NT_1211	US HUKIZ	ONTAL						
Condition	: FC	C CLASS-B 3 3) 383001	_					A/Pos	T/Pos			
Condition	: FC0 : (FC	C CLASS-B 3 3) 383001	Limit	Read	Antenna Factor	Cable		A/Pos	T/Pos	Remar	rk	
Condition	: FC0 : (FC	C CLASS-B 3 383001 Over evel Limit	Limit	Read	Antenna	Cable	Preamp	A/Pos	T/Pos deg	Remar	rk 	
Condition Project	: FCC : (FC Freq Le	C CLASS-B 3 383001 Over evel Limit	Limit Line dBuV/m	Read/ Level	Antenna Factor	Cable Loss	Preamp Factor		deg	Remar	rk 	
Condition Project	: FCC : (FC Freq Le MHz dBu 195.87 39 239.52 45	C CLASS-B 3 383001  Over Limit 407/m dB 9.58 -3.92 -0.11	Limit Line dBuV/m 43.50 46.00	Read/ Level dBuV 59.05 62.54	Antenna Factor dB/m 9.20 11.73	Cable Loss dB 1.68 1.82	Preamp Factor dB 30.35 30.20	cm	deg  254	Peak QP	rk 	
Condition Project  1 ! 1 2 Q 2 3 P 2 4 4	: FCC : (FC Freq Le MHz dBu 195.87 39 239.52 45 284.14 43	Over Limit 48 -3.58 -3.92	Limit Line dBuV/m 43.50 46.00 46.00	Read/ Level dBuV 59.05 62.54 58.33	Antenna Factor dB/m 9.20 11.73 13.20	Cable Loss dB 1.68 1.82 1.96	Preamp Factor dB		deg	Peak QP Peak Peak	rk 	
Condition Project  1 ! 1 2 Q 2 3 P 4 4 5 ! 7	: FCC : (FC Freq Le MHz dBu 195.87 39 239.52 45 284.14 43 880.08 32 719.67 45	Over Limit  Over Limit  Over 4  Over 2  Over 2  Over 2  Over 4  Over 2  Over 2  Over 2  Over 4  Over 4  Over 2  Over 4  Over 4	Limit Line dBuV/m 43.50 46.00 46.00 46.00 46.00	Read/ Level dBuV 59.05 62.54 58.33 42.64 51.80	Antenna Factor 	Cable Loss dB 1.68 1.82 1.96 2.48 2.99	Preamp Factor ————————————————————————————————————	cm  100	deg  254  32	Peak QP Peak		

TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPRO Page Number : 19 of 22 Report Issued Date : Sep. 24, 2013

Report Version : Rev. 01

Report No.: FC383001



Page Number : 20 of 22 Report Issued Date: Sep. 24, 2013 TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPRO : Rev. 01 Report Version



## 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC LISN	ETS-LINDGREN	3816/2SH	00103912	0.1MHz~108MHz	Feb. 28, 2011	Sep. 18, 2013	Feb. 27, 2014	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	ETS-LINDGREN	3816/2SH	00103892	0.1MHz~108MHz	Feb. 28, 2011	Sep. 18, 2013	Feb. 27, 2014	Conduction (CO01-SZ)
ESCIO TEST Receiver	R&S	1142.8007.0 3	100724	9K-3GHz	Mar. 08, 2011	Sep. 18, 2013	Mar. 07, 2014	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891N/A	N/A	Oct. 12, 2011	Sep. 18, 2013	Oct. 11, 2013	Conduction (CO01-SZ)
ESCI TEST Receiver	R&S	ESCI	100724	9K-3GHz	Mar. 28, 2013	Sep. 07, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP30	101362	9kHz~30GHz	Oct. 11, 2012	Sep. 07, 2013	Oct. 10, 2013	Radiation (03CH01-SZ)
Double Ridge Horn Amtenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 12, 2012	Sep. 07, 2013	Oct. 11, 2013	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30Mhz~2Ghz	Nov. 03, 2012	Sep. 07, 2013	Nov. 02, 2013	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9K-3000MHz GAIN 30db	Mar. 28, 2013	Sep. 07, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 28, 2013	Sep. 07, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Turn Table	EM Electronic	EM 1000	N/A	0 ~ 360 degree	N/A	Sep. 07, 2013	N/A	Radiation (03CH01-SZ)
Antenna Mast	EM electronic	EM 1000	N/A	1 m - 4 m	N/A	Sep. 07, 2013	N/A	Radiation (03CH01-SZ)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPRO Page Number : 21 of 22
Report Issued Date : Sep. 24, 2013

Report No.: FC383001



## FCC Test Report

## 5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.26
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Report No.: FC383001

### **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 35% (0 = 200(y))	

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

	4
Measuring Uncertainty for a Level of	4.72
Confidence of 95% (U = 2Uc(y))	4.72

SPORTON INTERNATIONAL (SHENZHEN) INC.

Page Number : 22 of 22

TEL: 86-755- 3320-2398

Report Issued Date : Sep. 24, 2013

FCC ID : YHLBLULIFEPRO : Rev. 01