

Report No.: FR3O0901B

FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT: Mobile Phone

BRAND NAME : BLU

MODEL NAME : Life Pure

FCC ID : YHLBLULIFEPURE

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Oct. 09, 2013 and testing was completed on Oct. 17, 2013. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures 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: Joseph Lin / Supervisor

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.

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 1 of 47

Testing Laboratory 2353

Report Issued Date : Nov. 04, 2013
Report Version : Rev. 01



TABLE OF CONTENTS

RE	VISIO	N HISTORY	3			
SU	MMAI	RY OF TEST RESULT	4			
1	GEN	GENERAL DESCRIPTION				
	1.1	Applicant	ı			
	1.2	Manufacturer				
	1.3	Feature of Equipment Under Test				
	1.4	Product Specification of Equipment Under Test				
	1.5	Modification of EUT				
	1.6	Testing Site				
	1.7	Applied Standards				
2	TES	T CONFIGURATION OF EQUIPMENT UNDER TEST	7			
	2.1	Descriptions of Test Mode				
	2.2	Test Mode	8			
	2.3	Connection Diagram of Test System	9			
	2.4	Support Unit used in test configuration and system	10			
	2.5	EUT Operation Test Setup	10			
	2.6	Measurement Results Explanation Example	11			
3	TEST RESULT					
	3.1	6dB Bandwidth Measurement	12			
	3.2	Peak Output Power Measurement	15			
	3.3	Power Spectral Density Measurement	17			
	3.4	Conducted Band Edges and Spurious Emission Measurement				
	3.5	Radiated Band Edges and Spurious Emission Measurement				
	3.6	AC Conducted Emission Measurement				
	3.7	Antenna Requirements	45			
4	LIST	OF MEASURING EQUIPMENT	46			
5	UNC	ERTAINTY OF EVALUATION	47			

APPENDIX A. SETUP PHOTOGRAPHS

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Report Issued Date: Nov. 04, 2013

Report No.: FR3O0901B



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR3O0901B	Rev. 01	Initial issue of report	Nov. 04, 2013

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 3 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.2	15.247(b)(1)	Peak Output Power	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	≤ 20dBc	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 13.59 dB at 2495.680 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 5.55 dB at 0.500 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 4 of 47

Report Issued Date : Nov. 04, 2013 Report Version : Rev. 01

Report No.: FR3O0901B



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

Gionee Communication Equipment Co., Ltd.

21/F, Times Technology Building, No. 7028, Shennan Avenue, Futian District, Shenzhen, China

Report No.: FR3O0901B

1.3 Feature of Equipment Under Test

Product Feature				
Equipment	Mobile Phone			
Brand Name	BLU			
Model Name	Life Pure			
FCC ID	YHLBLULIFEPURE			
	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+/			
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n HT20/HT40/			
	Bluetooth v3.0 + EDR/Bluetooth v4.0 + LE			
HW Version	LIFE PLAY X_Mainboard_P3			
SW Version	BLU_X100i_v09_GENERIC			
EUT Stage	Identical Prototype			

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

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard			
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz		
Number of Channels	40		
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)		
Maximum Output Power to Antenna	0.05 dBm (0.00101 W)		
Antenna Type	PIFA Antenna with gain 0.30 dBi		
Type of Modulation	Bluetooth 4.0 - LE : GFSK		

SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 5 of 47TEL: 86-755- 3320-2398Report Issued Date: Nov. 04, 2013FCC ID: YHLBLULIFEPUREReport Version: Rev. 01

1.5 Modification of EUT

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

1.6 Testing Site

Test Site SPORTON INTERNATIONAL (SHENZHEN) INC.					
Tool	0:10	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse,			
Test Location	Site	Nanshan District, Shenzhen, Guangdong, P.R.C.			
Location		TEL: +86-755-	3320-2398		
Took Cite N			Sporton Site No	o.	FCC Registration No.
Test Site N	10.	TH01-SZ	03CH01-SZ	CO01-SZ	831040

Note: The test site complies with ANSI C63.4 2003 requirement.

1.7 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01
- ANSI C63.4-2003

Remark:

- **1.** All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 6 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



2 Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

The RF output power was recorded in the following table:

		Bluetooth 4.0 – LE RF Output Power
Channal	Eroguenov	Data Rate / Modulation
Channel	el Frequency	GFSK
		1Mbps
Ch00	2402MHz	-0.78 dBm
Ch19	2440MHz	<mark>0.05</mark> dBm
Ch39	2480MHz	-1.98 dBm

- a. The EUT has been associated with peripherals 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 (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Y plane as worst plane) from all possible combinations.
- b. AC power line Conducted Emission was tested under maximum output power.

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 7 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



2.2 Test Mode

The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Summary table of Test Cases					
Toot Item	Data Rate / Modulation					
Test Item	Bluetooth 4.0 – LE / GFSK					
Conducted	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps					
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps					
TCs	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps					
Radiated	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps					
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps					
TCs	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps					
AC	Made 1: CSM950 Idle + Plusteeth Link + W/ AN Link + Fernhane + LISP Cable					
Conducted	Mode 1: GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable					
Emission	(Charging from Adapter)					
Remark: For	Radiated TCs, The tests were performance with USB Cable, Adapter and Earphone.					

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL : 86-755- 3320-2398 FCC ID : YHLBLULIFEPURE Page Number : 8 of 47
Report Issued Date : Nov. 04, 2013

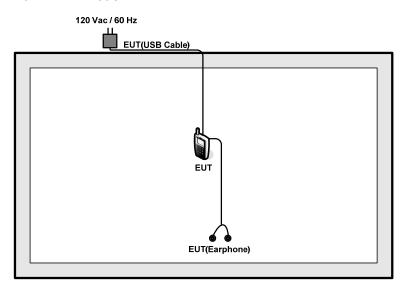
Report No.: FR3O0901B



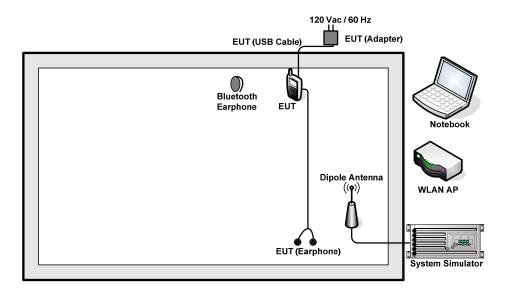
Report No.: FR3O0901B

Connection Diagram of Test System 2.3

<Bluetooth 4.0 - LE Tx Mode>



<AC Conducted Emission Mode>



TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 9 of 47 Report Issued Date: Nov. 04, 2013



2.4 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.	WLAN AP	D-Link	DIR-612	N/A	N/A	Unshielded, 1.8 m
	Notebook	DELL	P08S	FCC DoC	N/A	AC I/P:
3.						Unshielded, 1.8 m
J.						DC O/P:
						Shielded, 1.8 m
4.	DC Power Supply	TOPWORD	3303DR	N/A	N/A	Unshielded, 1.8 m
5.	Bluetooth	Nokia	BH-108	N/A	N/A	N/A
J.	Earphone	Nokia	ы 1-100	N/ <i>P</i> 1	IN/A	111/75

2.5 EUT Operation Test Setup

For Bluetooth function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 10 of 47 Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 7.5 dB and 10dB attenuator.

$$Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$$

= 7.5 + 10 = 17.5 (dB)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 11 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



3 **Test Result**

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

- The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Report No.: FR3O0901B

- Set to the maximum power setting and enable the EUT transmit continuously.
- Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. 4. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- 5. Measure and record the results in the test report.

3.1.4 Test Setup



Report Issued Date: Nov. 04, 2013 FCC ID: YHLBLULIFEPURE Report Version : Rev. 01

Page Number

: 12 of 47

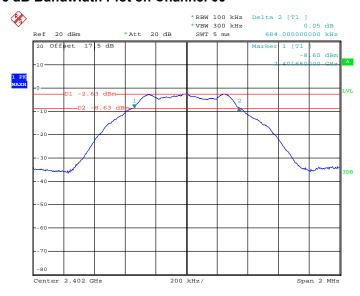


3.1.5 Test Result of 6dB Bandwidth

Test Mode :	Bluetooth 4.0 - LE	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
00	2402	0.684	0.5	Pass
19	2440	0.682	0.5	Pass
39	2480	0.682	0.5	Pass

6 dB Bandwidth Plot on Channel 00



Date: 15.OCT.2013 14:56:42

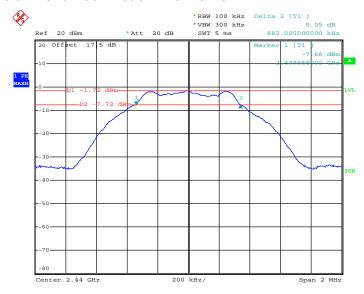
TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 13 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



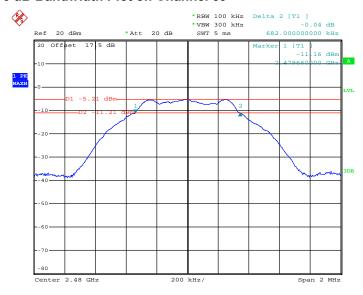
Report No. : FR3O0901B

6 dB Bandwidth Plot on Channel 19



Date: 15.OCT.2013 15:00:09

6 dB Bandwidth Plot on Channel 39



Date: 15.OCT.2013 15:02:46

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 14 of 47
Report Issued Date : Nov. 04, 2013



3.2 Peak Output Power Measurement

3.2.1 Limit of Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

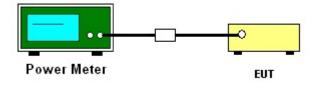
3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

- The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r01.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 15 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



FCC RF Test Report

3.2.5 Test Result of Peak Output Power

Test Mode :	Bluetooth 4.0 - LE	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Erroguenov		RF Power (dBm)					
Channel Frequency		GFSK	Max. Limits	Doog/Foil			
	(MHz)	1 Mbps	(dBm)	Pass/Fail			
00	2402	-0.78	30.00	Pass			
19	2440	0.05	30.00	Pass			
39	2480	-1.98	30.00	Pass			

TEL : 86-755- 3320-2398 FCC ID : YHLBLULIFEPURE Page Number : 16 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

Report No.: FR3O0901B

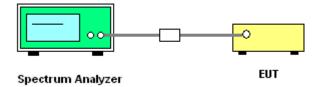
3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

- The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 6. Measure and record the results in the test report.
- 7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 17 of 47TEL: 86-755- 3320-2398Report Issued Date: Nov. 04, 2013FCC ID: YHLBLULIFEPUREReport Version: Rev. 01



FCC RF Test Report

3.3.5 Test Result of Power Spectral Density

Test Mode :	Bluetooth 4.0 - LE	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

Report No.: FR3O0901B

Channal	Frequency	Power	Max. Limits	Dage/Fail		
Channel	(MHz)	PSD/100kHz (dBm) PSD/3kHz (dBm)		(dBm/3kHz)	Pass/Fail	
00	2402	-2.64	-16.84	8	Pass	
19	2440	-1.70	-15.95	8	Pass	
39	2480	-5.22	-19.45	8	Pass	

Note:

- 1. Measured power density (dBm) has offset with cable loss.
- The Measured power density (dBm)/ 100kHz is reference level and used as 20dBc down for Conducted Band Edges and Conducted Spurious Emission limit line.

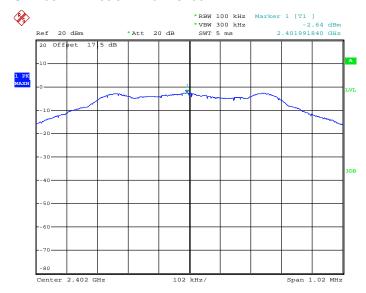
SPORTON INTERNATIONAL (SHENZHEN) INC. Page Number : 18 of 47 TEL: 86-755-3320-2398 Report Issued Date: Nov. 04, 2013

FCC ID : YHLBLULIFEPURE Report Version : Rev. 01



3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD 100kHz Plot on Channel 00



Date: 15.OCT.2013 14:57:11

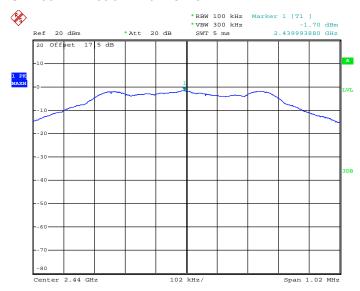
TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 19 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



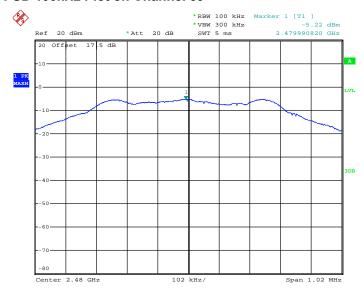
Report No.: FR3O0901B





Date: 15.OCT.2013 15:00:38

PSD 100kHz Plot on Channel 39



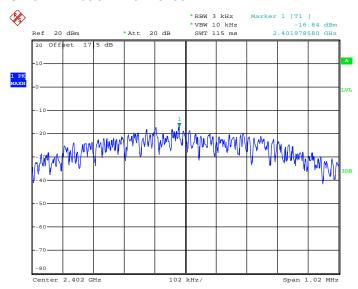
Date: 15.0CT.2013 15:03:15

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 20 of 47
Report Issued Date : Nov. 04, 2013



3.3.7 Test Result of Power Spectral Density Plots (3kHz)

PSD 3kHz Plot on Channel 00



Date: 15.OCT.2013 14:57:02

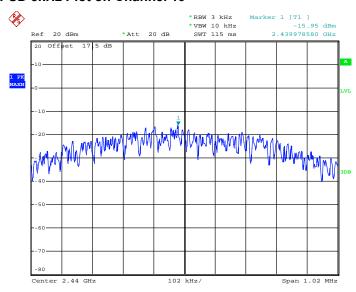
TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 21 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



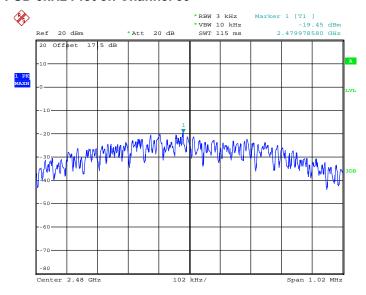
Report No.: FR3O0901B

PSD 3kHz Plot on Channel 19



Date: 15.OCT.2013 15:00:29

PSD 3kHz Plot on Channel 39



Date: 15.OCT.2013 15:03:06

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 22 of 47
Report Issued Date : Nov. 04, 2013



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

Report No.: FR3O0901B

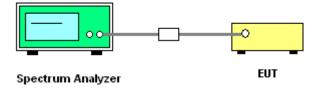
3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedure

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



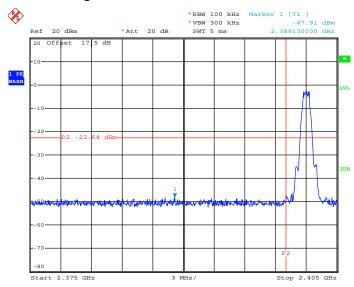
SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 23 of 47TEL: 86-755- 3320-2398Report Issued Date: Nov. 04, 2013FCC ID: YHLBLULIFEPUREReport Version: Rev. 01



3.4.5 Test Result of Conducted Band Edges

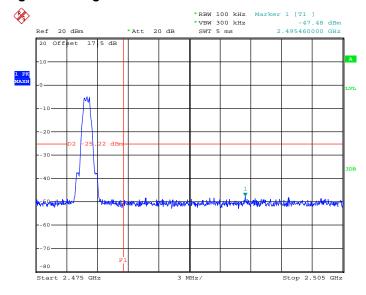
Test Mode :	Bluetooth 4.0 - LE	Temperature :	24~26 ℃
Test Channel :	00 and 39	Relative Humidity :	50~53%
		Test Engineer :	Fly Liang

Low Band Edge Plot on Channel 00



Date: 15.OCT.2013 14:57:25

High Band Edge Plot on Channel 39



Date: 15.OCT.2013 15:03:29

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 24 of 47

Report No.: FR3O0901B

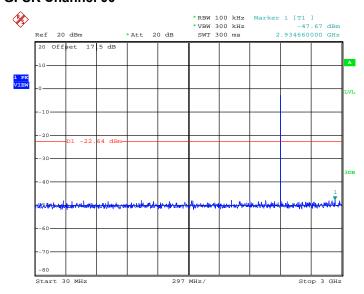
Report Issued Date : Nov. 04, 2013
Report Version : Rev. 01



3.4.6 Test Result of Conducted Spurious Emission

Test Mode :	Bluetooth 4.0 - LE	Temperature :	24~26 ℃
Test Channel :	00	Relative Humidity :	50~53%
		Test Engineer :	Fly Liang

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00



Date: 15.OCT.2013 14:57:44

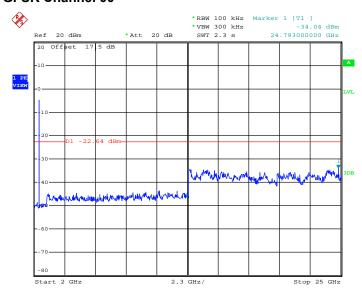
TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 25 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



Report No.: FR3O0901B

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00

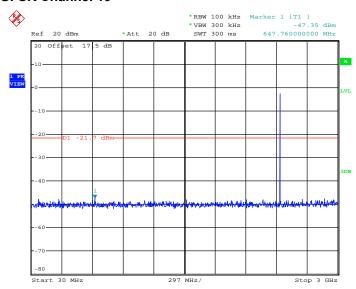


Date: 15.OCT.2013 14:58:03

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 26 of 47
Report Issued Date : Nov. 04, 2013

Test Mode :	Bluetooth 4.0 - LE	Temperature :	24~26 ℃
Test Channel :	19	Relative Humidity :	50~53%
		Test Engineer :	Fly Liang

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



Date: 15.0CT.2013 15:00:58

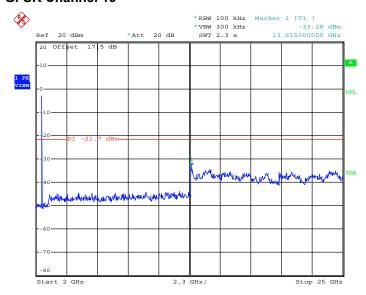
TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 27 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



Report No.: FR3O0901B

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19

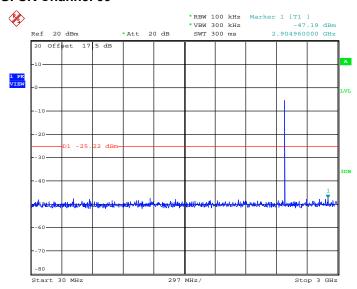


Date: 15.OCT.2013 15:01:16

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 28 of 47
Report Issued Date : Nov. 04, 2013

Test Mode :	Bluetooth 4.0 - LE	Temperature :	24~26 ℃
Test Channel :	39	Relative Humidity :	50~53%
		Test Engineer :	Fly Liang

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



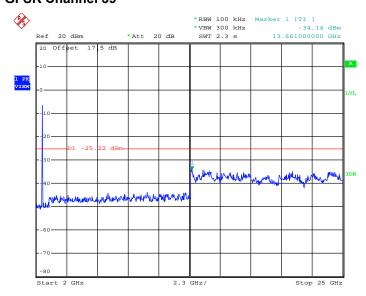
Date: 15.OCT.2013 15:03:48

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 29 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



Date: 15.OCT.2013 15:04:07

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 30 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
0.009 - 0.490	2400/F(kHz)	300		
0.490 – 1.705	24000/F(kHz)	30		
1.705 – 30.0	30	30		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

3.5.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 31 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B

3.5.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r01.
- 2. 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. A pre-amp and a high pass filter are used for the test in order to get better signal level.

Report No.: FR3O0901B

- 3. The EUT was placed on a turntable with 0.8 meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
- 6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \ge 1$ GHz for peak measurement. For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

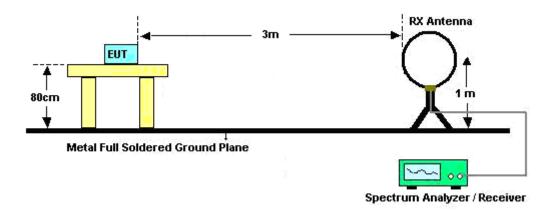
Band	Band Duty Cycle(%)		1/T(kHz)	VBW Setting	
Bluetooth 4.0 - LE	60.76	0.384	2.604	3kHz	



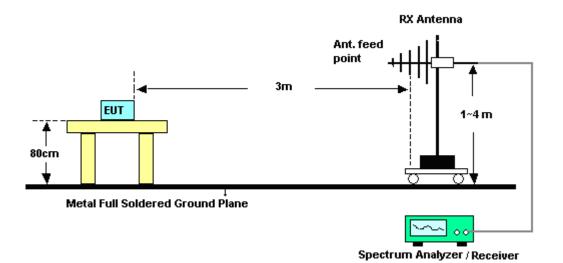
Report No.: FR3O0901B

3.5.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz

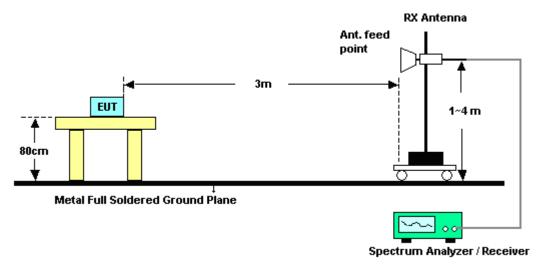


SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-3320-2398 FCC ID : YHLBLULIFEPURE Page Number : 33 of 47 Report Issued Date: Nov. 04, 2013



For radiated emissions above 1GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

TEL : 86-755- 3320-2398 FCC ID : YHLBLULIFEPURE Page Number : 34 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B

3.5.6 Test Result of Radiated Spurious at Band Edges

Test Mode :	Mode 1	Temperature :	24~25°C
Test Channel :	00	Relative Humidity :	48~49%
		Test Engineer :	Leo Liao

Report No.: FR3O0901B

	ANTENNA POLARITY : HORIZONTAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV /m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2386.32	46.67	-27.33	74	38.73	32.14	5.59	29.79	100	79	Peak
2386.23	37.31	-16.69	54	29.37	32.14	5.59	29.79	100	79	Average

	ANTENNA POLARITY: VERTICAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2366.88	47.07	-26.93	74	39.17	32.1	5.59	29.79	128	213	Peak
2386.14	37.49	-16.51	54	29.55	32.14	5.59	29.79	128	213	Average

Test Mode :	Mode 3	Temperature :	24~25°C
Test Channel :	39	Relative Humidity :	48~49%
		Test Engineer :	Leo Liao

	ANTENNA POLARITY : HORIZONTAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.53	52.24	-21.76	74	44.02	32.27	5.71	29.76	105	342	Peak
2495.77	40.3	-13.7	54	32.02	32.29	5.74	29.75	105	342	Average

	ANTENNA POLARITY: VERTICAL									
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2483.56	52.58	-21.42	74	44.36	32.27	5.71	29.76	122	351	Peak
2495.68	40.41	-13.59	54	32.13	32.29	5.74	29.75	122	351	Average

SPORTON INTERNATIONAL (SHENZHEN) INC. Page Number : 35 of 47 TEL: 86-755-3320-2398 Report Issued Date: Nov. 04, 2013 Report Version : Rev. 01

FCC ID : YHLBLULIFEPURE



3.5.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Note: Pre-scanned all test modes and only choose the worst case mode recorded in the test report for radiated spurious emission below 1GHz.

Test Mode :	Mode 1	Temperature :	24~25°C				
Test Channel :	00	Relative Humidity :	48~49%				
Test Engineer :	Leo Liao	Polarization :	Horizontal				
	1. 2402 MHz is fundamer	ntal signal which can be	e ignored.				
Remark :	2. Average measurement	Average measurement was not performed if peak level went lower than the					
	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2402	97.46	-	-	89.48	32.14	5.62	29.78	100	79	Peak
2402	95.5	-	-	87.52	32.14	5.62	29.78	100	79	Average
4804	37.6	-36.4	74	52.93	33.63	8.33	57.29	119	148	Peak

Note: Other harmonics are lower than background noise.

Test Mode :	Mode 1		Temperature :	24~25°C			
Test Channel :	00		Relative Humidity :	48~49%			
Test Engineer :	Leo Liao		Polarization :	Vertical			
	2402 MHz is fundamental signal which can be ignored.						
Remark :	2.	Average measurement was not performed if peak level went lower than the					
		average limit.					

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2402	97.01	-	-	89.03	32.14	5.62	29.78	128	213	Peak
2402	95.2	-	-	87.22	32.14	5.62	29.78	128	213	Average
4804	38.15	-35.85	74	53.48	33.63	8.33	57.29	119	148	Peak

Note: Other harmonics are lower than background noise.

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 36 of 47 Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B

Test Mode :	Mode 2	Temperature :	24~25°C				
Test Channel :	19	Relative Humidity :	48~49%				
Test Engineer :	Leo Liao	Polarization :	Horizontal				
	1. 2440 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement	2. Average measurement was not performed if peak level went lower than the					
	average limit.						

Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2440	94.91	-	-	86.81	32.22	5.65	29.77	100	76	Peak
2440	93.32	-	-	85.22	32.22	5.65	29.77	100	76	Average
4880	37.61	-36.39	74	52.57	33.8	8.41	57.17	110	245	Peak
7320	39.58	-34.42	74	51.4	35.32	10	57.14	184	225	Peak

Note: Other harmonics are lower than background noise.

Test Mode :	Mode 2		Temperature :	24~25°C			
Test Channel :	19		Relative Humidity :	48~49%			
Test Engineer :	Lec	Liao	Polarization :	Vertical			
	1.	2440 MHz is fundament	al signal which can be	ignored.			
Remark :	2.	. Average measurement was not performed if peak level went lower than the					

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2440	96.67	-	-	88.57	32.22	5.65	29.77	100	210	Peak
2440	95.02	-	-	86.92	32.22	5.65	29.77	100	210	Average
4880	37.6	-36.4	74	52.56	33.8	8.41	57.17	110	245	Peak
7320	39.3	-34.7	74	51.12	35.32	10	57.14	184	225	Peak

Note: Other harmonics are lower than background noise.

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 37 of 47 Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B

Test Mode :	Mode 3	Temperature :	24~25°C				
Test Channel :	39	Relative Humidity :	48~49%				
Test Engineer :	Leo Liao	Polarization :	Horizontal				
	1. 2480 MHz is fundament	al signal which can be	ignored.				
Remark :	2. Average measurement	Average measurement was not performed if peak level went lower than the					
	average limit.						

Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	
113.42	18.94	-24.56	43.5	36.08	12.15	1.33	30.62	-	-	Peak
167.74	16.96	-26.54	43.5	35.98	9.85	1.57	30.44	-	-	Peak
344.28	24.54	-21.46	46	37.65	14.6	2.14	29.85	-	-	Peak
602.3	26.85	-19.15	46	34.26	19.02	2.76	29.19	-	-	Peak
730.34	26.69	-19.31	46	32.27	20.42	3.03	29.03	-	-	Peak
946.65	27.57	-18.43	46	30.78	22.1	3.43	28.74	132	205	Peak
2480	96.84	-	-	88.62	32.27	5.71	29.76	105	342	Peak
2480	95.01	-	-	86.79	32.27	5.71	29.76	105	342	Average
4960	38.76	-35.24	74	53.28	34.01	8.49	57.02	150	135	Peak
7440	40.27	-33.73	74	51.85	35.37	10.04	56.99	175	260	Peak

Note: Other harmonics are lower than background noise.

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 38 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B

Test Mode :	Mode 3	Temperature :	24~25°C			
Test Channel :	39	Relative Humidity :	48~49%			
Test Engineer :	Leo Liao	Polarization :	Vertical			
	1. 2480 MHz is fundament	al signal which can be	ignored.			
Remark :	2. Average measurement was not performed if peak level went lower than the					
	average limit.					

Frequency	Level	Over Limit	Limit Line	Read	Antenna	Cable	Preamp	Ant	Table	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	Level (dBµV)	Factor (dB)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	
110.51	19.05	-24.45	43.5	36.16	12.2	1.32	30.63	-	-	Peak
259.89	17.01	-28.99	46	31.55	13.7	1.89	30.13	-	-	Peak
341.37	20.91	-25.09	46	34.04	14.6	2.13	29.86	-	-	Peak
418	21.7	-24.3	46	32.23	16.74	2.34	29.61	-	-	Peak
737.13	26.03	-19.97	46	31.53	20.48	3.04	29.02	-	-	Peak
869.05	26.58	-19.42	46	30.83	21.3	3.29	28.84	135	209	Peak
2480	97.56	-	-	89.34	32.27	5.71	29.76	122	351	Peak
2480	95.72	-	-	87.5	32.27	5.71	29.76	122	351	Average
4960	38.7	-35.3	74	53.22	34.01	8.49	57.02	150	135	Peak

Note: Other harmonics are lower than background noise.

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 39 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B

3.6 AC Conducted Emission Measurement

3.6.1 Limit 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 (MUz)	Conducted limit (dBμV)					
Frequency of emission (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.

3.6.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.6.3 Test Procedures

- 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.

FCC ID: YHLBLULIFEPURE

Report No.: FR3O0901B



Report No.: FR3O0901B

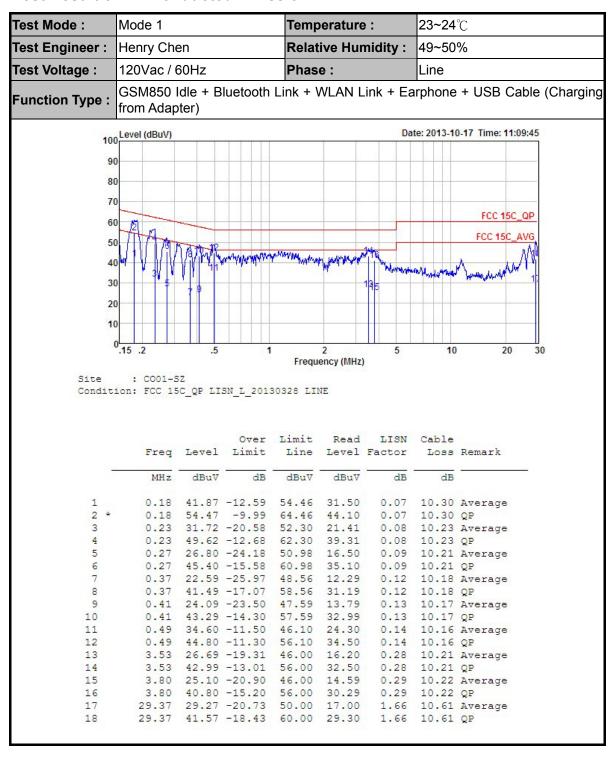
3.6.4 Test Setup



TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 41 of 47
Report Issued Date : Nov. 04, 2013



3.6.5 Test Result of AC Conducted Emission



TEL: 86-755-3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 42 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



Test Mode: Temperature: **23~24°**C Mode 1 Test Engineer : Henry Chen Relative Humidity: 49~50% 120Vac / 60Hz Test Voltage: Phase: Neutral GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable (Charging Function Type: from Adapter) 100 Level (dBuV) Date: 2013-10-17 Time: 11:19:56 90 80 70 FCC 15C_QP 60 FCC 15C 50 30 20 10 .15 .2 5 10 20 30 Frequency (MHz) Site : C001-SZ Condition: FCC 15C_QP LISN_N_20130328 NEUTRAL Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark dBuV dBuV dB dBuV MHz dB dB 0.41 36.21 -11.47 47.68 26.00 1 0.04 10.17 Average 0.41 45.21 -12.47 57.68 35.00 0.04 10.17 QP 0.45 38.70 -8.23 46.93 28.50 3 0.04 10.16 Average 46.90 -10.03 56.93 0.45 36.70 0.04 10.16 QP 0.50 40.50 -5.55 46.05 30.30 0.04 10.16 Average 0.50 50.20 -5.85 56.05 40.00 6 0.04 10.16 QP 0.59 32.99 -13.01 46.00 22.80 0.04 10.15 Average 0.59 42.29 -13.71 56.00 32.10 0.04 10.15 QP 8 9 0.62 35.29 -10.71 46.00 25.10 0.04 10.15 Average 10 0.62 45.19 -10.81 56.00 35.00 0.04 10.15 QP 0.66 31.69 -14.31 46.00 21.50 0.04 10.15 Average 11 0.66 43.39 -12.61 56.00 33.20 0.04 10.15 QP 35.29 -10.71 46.00 25.10 47.19 -8.81 56.00 37.00 0.72 13 0.04 10.15 Average 14 0.72 0.04 10.15 QP 0.77 34.78 -11.22 46.00 24.60 0.04 10.14 Average 0.77 46.68 -9.32 56.00 36.50 16 0.04 10.14 QP 0.80 33.89 -12.11 17 46.00 23.70 0.04 10.15 Average 0.04 10.15 QP 18 0.80 45.19 -10.81 56.00 35.00 19 0.89 33.58 -12.42 46.00 23.40 0.04 10.14 Average 0.89 46.18 -9.82 56.00 36.00 0.04 10.14 QP

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 43 of 47
Report Issued Date : Nov. 04, 2013

Report Version : Rev. 01

Report No.: FR3O0901B



Test Mode: 23~24°C Mode 1 Temperature: Test Engineer: Henry Chen Relative Humidity: 49~50% Test Voltage: 120Vac / 60Hz Phase: Neutral GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable (Charging Function Type: from Adapter) 100 Level (dBuV) Date: 2013-10-17 Time: 11:19:56 90 80 70 FCC 15C_QP 60 50 30 20 10 .15 .2 30 Frequency (MHz) : CO01-SZ Condition: FCC 15C QP LISN N 20130328 NEUTRAL Read LISN Cable Over Limit Freq Level Limit Line Level Factor Loss Remark dBuV dB dBuV dBuV dB MHz dB 0.04 10.15 Average 0.95 34.59 -11.41 46.00 24.40 21 22 0.95 47.69 -8.31 56.00 37.50 0.04 10.15 QP 0.99 34.19 -11.81 46.00 24.00 0.04 10.15 Average 23 24 0.99 47.49 -8.51 56.00 37.30 0.04 10.15 QP 25 1.03 31.39 -14.61 46.00 21.20 0.04 10.15 Average 44.89 -11.11 34.70 26 1.03 56.00 0.04 10.15 OP 27 1.12 33.30 -12.70 46.00 23.10 0.04 10.16 Average 1.12 47.20 -8.80 56.00 37.00 28 0.04 10.16 QP 32.20 -13.80 46.00 29 1.17 22.00 0.04 10.16 Average 1.17 47.00 -9.00 56.00 36.80 0.04 10.16 OP 30 31 1.22 29.71 -16.29 46.00 19.50 0.05 10.16 Average 45.21 -10.79 32 1.22 56.00 35.00 0.05 10.16 QP 31.81 -14.19 46.00 21.60 33 1.34 0.05 10.16 Average 34 1.34 43.81 -12.19 56.00 33.60 0.05 10.16 QP 35 25.72 -20.28 46.00 15.50 0.05 10.17 Average 1.44 39.82 -16.18 56.00 29.60 36 1.44 0.05 10.17 OP 27.13 35.16 -14.84 50.00 23.40 1.20 10.56 Average 37 27.13 44.26 -15.74 60.00 1.20 10.56 QP 38 32.50 39 29.37 33.05 -16.95 50.00 21.10 1.34 10.61 Average 40 29.37 44.95 -15.05 60.00 33.00 1.34 10.61 QP

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 44 of 47

Report Issued Date : Nov. 04, 2013

: Rev. 01

Report Version

Report No.: FR3O0901B



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 45 of 47
Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP30	101400	9kHz~30GHz	Mar. 28, 2013	Oct. 15, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	N/A	Mar. 28, 2013	Oct. 15, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Power Sensor	Anritsu	MA2411B	1207253	N/A	Mar. 28, 2013	Oct. 15, 2013	Mar. 27, 2014	Conducted (TH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY522601 85	20Hz~26.5GHz	Apr. 04, 2013	Oct. 17, 2013	Apr. 03, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Nov. 12, 2012	Oct. 17, 2013	Nov. 11, 2013	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30MHz~2GHz	Nov. 03, 2012	Oct. 17, 2013	Nov. 02, 2013	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz-3000MHz GAIN 30db	Mar. 28, 2013	Oct. 17, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 28, 2013	Oct. 17, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
SHF-EHF-Horn	Schwarzbeck	BBHA9170	BBHA9170 249	14GHz~40GHz	Nov. 23, 2012	Oct. 17, 2013	Nov. 22, 2013	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz-30MHz	Oct. 22, 2012	Oct. 17, 2013	Oct. 21, 2013	Radiation (03CH01-SZ)
Turn Table	EM Electronice	EM 1000	N/A	0 ~ 360 degree	N/A	Oct. 17, 2013	N/A	Radiation (03CH01-SZ)
Antenna Mast	EM Electronice	EM 1000	N/A	1 m - 4 m	N/A	Oct. 17, 2013	N/A	Radiation (03CH01-SZ)
ESCIO TEST Receiver	R&S	1142.8007.03	100724	9kHz~3GHz	Mar. 28, 2013	Oct. 17, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 28, 2013	Oct. 17, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 28, 2013	Oct. 17, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	N/A	Nov. 20, 2012	Oct. 17, 2013	Nov. 19, 2013	Conduction (CO01-SZ)

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPURE Page Number : 46 of 47 Report Issued Date : Nov. 04, 2013

Report No.: FR3O0901B



FCC RF Test Report

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.26
of 95% (U = 2Uc(y))	2.20

Report No.: FR3O0901B

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

Measuring Uncertainty for a Level of Confidence	2.54
of 95% (U = 2Uc(y))	2.34

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

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

Page Number : 47 of 47

TEL: 86-755- 3320-2398

Report Issued Date : Nov. 04, 2013

FCC ID : YHLBLULIFEPURE Report Version : Rev. 01