FCC RF Test Report

APPLICANT : CT Asia : Tablet PC EQUIPMENT

BRAND NAME : BLU

MODEL NAME : Life View 8.0

FCC ID : YHLBLULIFEVIEW8

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Jul. 22, 2014 and testing was completed on Dec. 29, 2014. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (KUNSHAN) INC.

No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8



Report No.: FR472201B

2627

Page Number

Report Issued Date: Jan. 04, 2015

Report Version

: Rev. 01

TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
SU	MMA	RY OF TEST RESULT	4
1		IERAL DESCRIPTION	
-	1.1	Applicant	
	1.2	Manufacturer	
	1.3	Product Feature of Equipment Under Test	
	1.4	Product Specification subjective to this standard	
	1.5	Modification of EUT	
	1.6	Testing Location	6
	1.7	Applicable Standards	6
2	TES	T CONFIGURATION OF EQUIPMENT UNDER TEST	7
	2.1	Descriptions of Test Mode	7
	2.2	Test Mode	8
	2.3	Connection Diagram of Test System	g
	2.4	Support Unit used in test configuration and system	
	2.5	EUT Operation Test Setup	
	2.6	Measurement Results Explanation Example	
3	TES	T RESULT	11
	3.1	6dB Bandwidth Measurement	11
	3.2	Peak Output Power Measurement	14
	3.3	Power Spectral Density Measurement	
	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	
4	LIST	OF MEASURING EQUIPMENT	40
5	UNC	ERTAINTY OF EVALUATION	41
ΔΡ	PENI	DIX A. RADIATED SPURIOUS EMISSION	
- TI	· LIVE	AND A LABOR ED OF ORIOGO EMICOION	

APPENDIX B. SETUP PHOTOGRAPHS

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Report No. : FR472201B

Report Version : Rev. 01

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR472201B	Rev. 01	Initial issue of report	Jan. 04, 2015

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 3 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

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/3kHz	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	Pass Pass 15.247(d)		Under limit 13.62 dB at 2493.880 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 8.94 dB at 0.500 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 4 of 41

Report Issued Date : Jan. 04, 2015 Report Version : Rev. 01

General Description 1

1.1 Applicant

CT Asia

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

1.2 Manufacturer

Ragentek Technology

D10/D11, No.3188, Xiupu Road, PuDong District, Shanghai

1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Tablet PC			
Brand Name	BLU			
Model Name	Life View 8.0			
FCC ID	YHLBLULIFEVIEW8			
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			
HW Version	V2.0			
SW Version	BLU_L810a_V04_GENERIC			
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.

1.4 Product Specification subjective to this standard

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	-3.23 dBm (0.0005 W)			
Antenna Type / Gain	Chip Antenna with gain -1 dBi			
Type of Modulation	Bluetooth v4.0 LE : GFSK			

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8

: 5 of 41 Page Number Report Issued Date: Jan. 04, 2015

Report No.: FR472201B

Report Version : Rev. 01

1.5 Modification of EUT

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

1.6 Testing Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.			
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China			
Test Site Location	TEL: +86-0512-5790-0158			
	FAX: +86-0512-5790-0958			
Toot Site No	Sporton	Site No.	FCC Registration No.	
Test Site No.	TH01-KS	CO01-KS	149928	

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. China				
	TEL: +86-755- 3320-2398				
Took Cita No	Sporton Site No. FCC Registration No.				
Test Site No.	03CH01-SZ	831040			

1.7 Applicable 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 v03r02
- ANSI C63.4-2009
- ANSI C63.10-2009

Remark:

- 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.

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 6 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

2 Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

The RF output power was recorded in the following table:

	Frequency	Bluetooth v4.0 LE RF Output Power
Channal		Data Rate / Modulation
Channel		GFSK
		1Mbps
Ch00	2402MHz	-3.47 dBm
Ch19	2440MHz	-3.23 dBm
Ch39	2480MHz	-3.30 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 (Z plane as worst plane) from all possible combinations.
- b. AC power line Conducted Emission was tested under maximum output power.

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 7 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

2.2 Test Mode

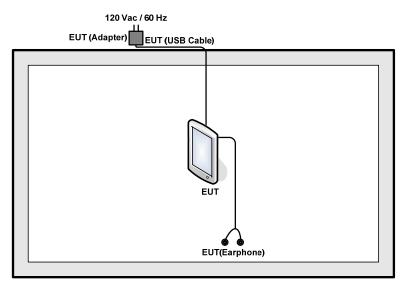
The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Summary table of Test Cases					
Test Item	Data Rate / Modulation					
rest item	Bluetooth v4.0 LE / GFSK					
Conducted	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps					
TCs	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps					
ics	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. CCM950 Idle Divistanth Link Wil AND ink Formhone USD Coble					
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 adapter, earphone and USB cable.					

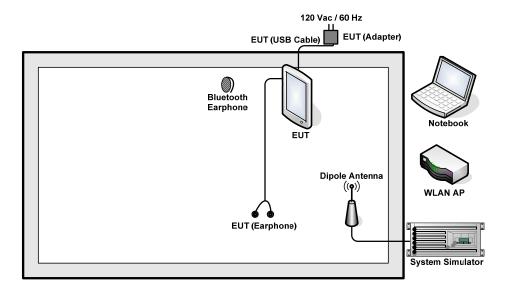
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 8 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

2.3 Connection Diagram of Test System

<Bluetooth v4.0 LE Tx Mode>



<AC Conducted Emission Mode>



TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 9 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

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	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
3.	Notebook	Lenovo	G480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A

2.5 EUT Operation Test Setup

For Bluetooth v4.0 LE 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.

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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6 dB.

Offset (dB) = RF cable loss (dB) = 6 (dB).

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 10 of 41 Report Issued Date : Jan. 04, 2015

Report No.: FR472201B

Report Version : Rev. 01

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

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
- 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) = 100 kHz. 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



TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 11 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

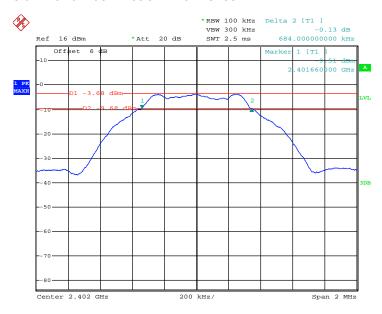
3.1.5 Test Result of 6dB Bandwidth

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~25 ℃
Test Engineer :	Issac Song	Relative Humidity :	49~51%

Report No.: FR472201B

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
00	2402	0.684	0.5	Pass
19	2440	0.684	0.5	Pass
39	2480	0.688	0.5	Pass

6 dB Bandwidth Plot on Channel 00



Page Number

Report Version

: 12 of 41

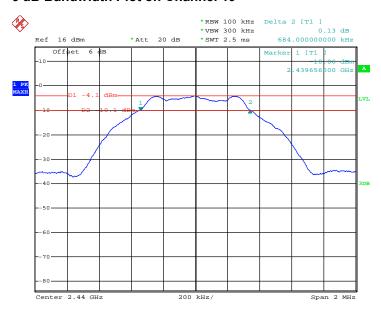
: Rev. 01

Report Issued Date: Jan. 04, 2015

Date: 23.AUG.2014 22:22:23

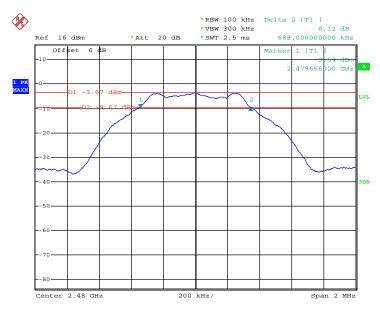
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8

6 dB Bandwidth Plot on Channel 19



Date: 23.AUG.2014 22:36:59

6 dB Bandwidth Plot on Channel 39



Date: 23.AUG.2014 22:39:38

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 13 of 41
Report Issued Date : Jan. 04, 2015

Report No.: FR472201B

Report Version : Rev. 01

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 v03r02.
- 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: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 14 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

3.2.5 Test Result of Peak Output Power

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~25 ℃
Test Engineer :	Issac Song	Relative Humidity :	49~51%

		R	F Power (dBm)	
Channel	Frequency (MHz)	GFSK	Max. Limits	Dana/Fail
	(IVITIZ)	1 Mbps	(dBm)	Pass/Fail
00	2402	-3.47	30.00	Pass
19	2440	-3.23	30.00	Pass
39	2480	-3.30	30.00	Pass

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8

: 15 of 41 Page Number Report Issued Date: Jan. 04, 2015

Report No.: FR472201B

Report Version : Rev. 01

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.

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 v03r02
- 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 (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 16 of 41
Report Issued Date : Jan. 04, 2015

Report No.: FR472201B

Report Version : Rev. 01

3.3.5 Test Result of Power Spectral Density

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~25 ℃
Test Engineer :	Issac Song	Relative Humidity :	49~51%

Channal	Frequency	Power Density Max. Limits		Power Density		Dage/Fail
Channel	(MHz)	PSD/100kHz (dBm)	PSD/3kHz (dBm)	(dBm/3kHz)	Pass/Fail	
00	2402	-3.58	-18.34	8	Pass	
19	2440	-3.37	-18.26	8	Pass	
39	2480	-3.39	-18.20	8	Pass	

Note:

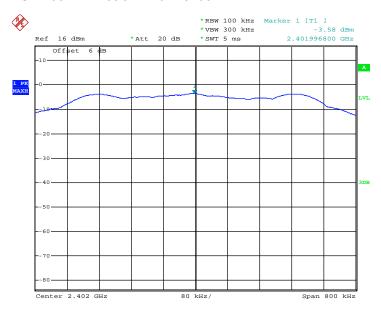
- 1. Measured power density (dBm) has offset with cable loss.
- 2. The Measured power density (dBm)/ 100kHz is reference level and used as 20dBc down for Conducted Band Edges and Conducted Spurious Emission limit line.

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 17 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

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

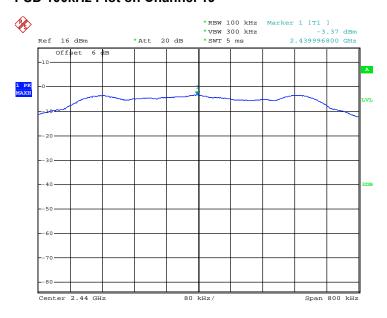
PSD 100kHz Plot on Channel 00



Date: 23.AUG.2014 22:54:29

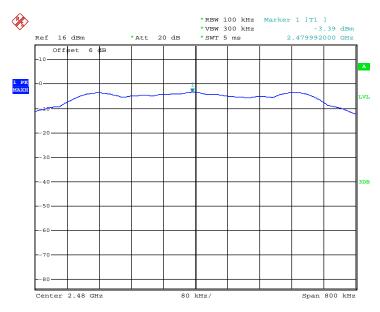
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 18 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

PSD 100kHz Plot on Channel 19



Date: 23.AUG.2014 22:53:42

PSD 100kHz Plot on Channel 39

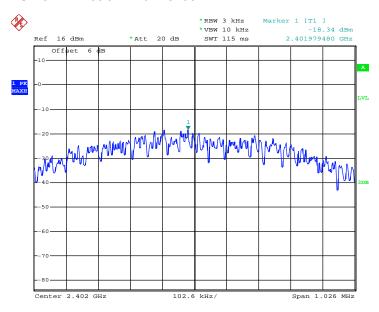


Date: 23.AUG.2014 22:52:39

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 19 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

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

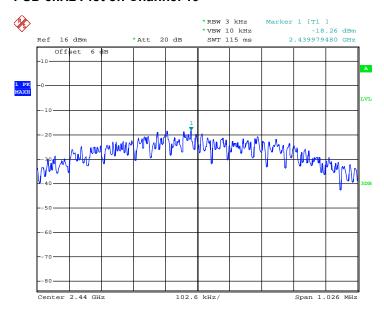
PSD 3kHz Plot on Channel 00



Date: 23.AUG.2014 22:46:43

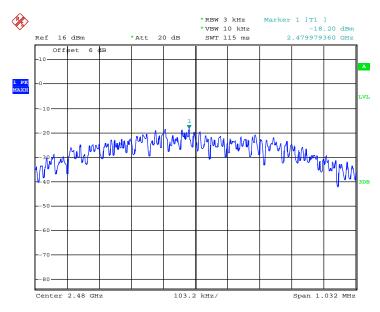
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 20 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

PSD 3kHz Plot on Channel 19



Date: 23.AUG.2014 22:48:11

PSD 3kHz Plot on Channel 39



Date: 23.AUG.2014 22:49:27

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 21 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

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.

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 v03r02.
- 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 (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 22 of 41
Report Issued Date : Jan. 04, 2015

: Rev. 01

Report Version

3.4.5 Test Result of Conducted Band Edges

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~25 ℃
Test Channel :	00 and 39	Relative Humidity :	49~51%
		Test Engineer :	Issac Song

Report No.: FR472201B

Page Number

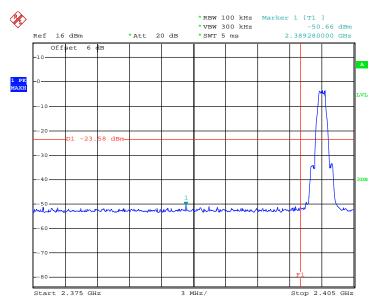
Report Version

: 23 of 41

: Rev. 01

Report Issued Date: Jan. 04, 2015

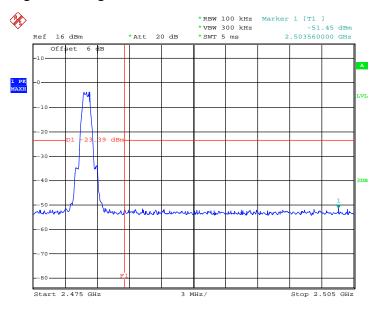
Low Band Edge Plot on Channel 00



Date: 23.AUG.2014 23:03:39

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8

High Band Edge Plot on Channel 39



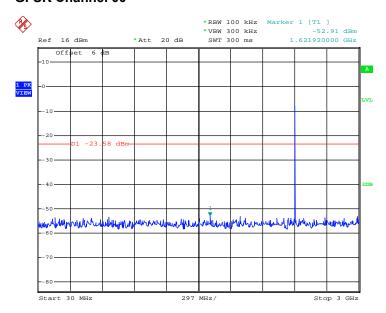
Date: 23.AUG.2014 23:06:57

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 24 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

3.4.6 Test Result of Conducted Spurious Emission

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~25 ℃
Test Channel :	00	Relative Humidity :	49~51%
		Test Engineer :	Issac Song

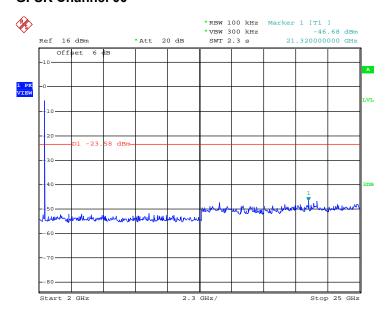
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00



Date: 23.AUG.2014 23:19:40

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 25 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

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



Date: 23.AUG.2014 23:22:17

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 26 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~25℃
Test Channel :	19	Relative Humidity :	49~51%
		Test Engineer :	Issac Song

Report No.: FR472201B

Page Number

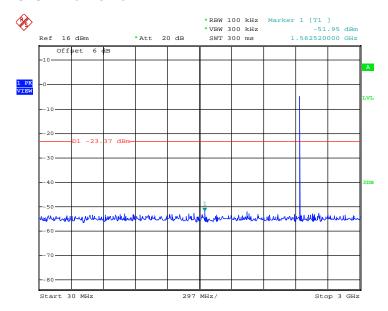
Report Version

: 27 of 41

: Rev. 01

Report Issued Date: Jan. 04, 2015

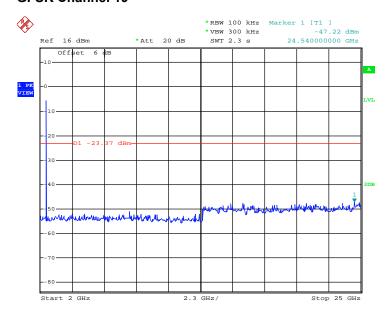
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



Date: 23.AUG.2014 23:24:51

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8

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



Date: 23.AUG.2014 23:27:32

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 28 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~25℃
Test Channel :	39	Relative Humidity :	49~51%
		Test Engineer :	Issac Song

Report No.: FR472201B

Page Number

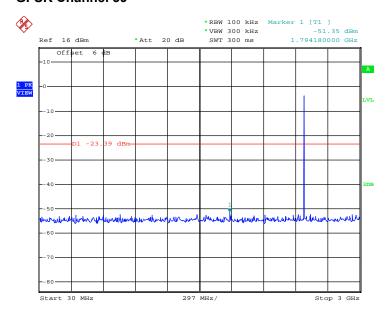
Report Version

: 29 of 41

: Rev. 01

Report Issued Date: Jan. 04, 2015

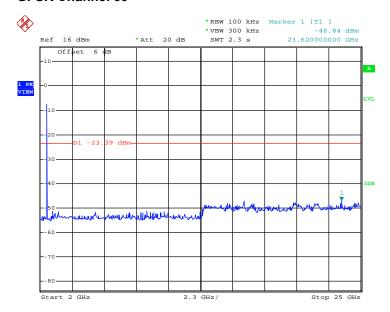
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



Date: 23.AUG.2014 23:29:27

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8

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



Date: 23.AUG.2014 23:31:01

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 30 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

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 (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 31 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

3.5.3 Test Procedures

- 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.
- 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.
- 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	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
Bluetooth v4.0 LE	60.50	0.38	2.63	3kHz

SPORTON INTERNATIONAL (KUNSHAN) INC.

FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8

TEL: 86-0512-5790-0158

Page Number : 32 of 41
Report Issued Date : Jan. 04, 2015

Report No.: FR472201B

Report Version : Rev. 01

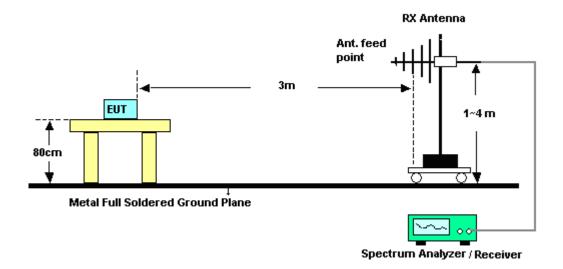
Report No. : FR472201B

3.5.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz

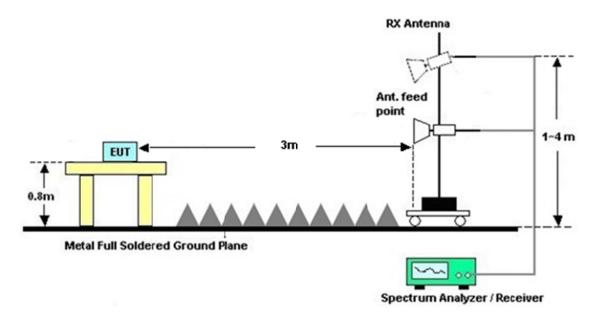


TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 33 of 41
Report Issued Date : Jan. 04, 2015

: Rev. 01

Report Version

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.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

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

Please refer to Appendix A.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 34 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

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

SPORTON INTERNATIONAL (KUNSHAN) INC.

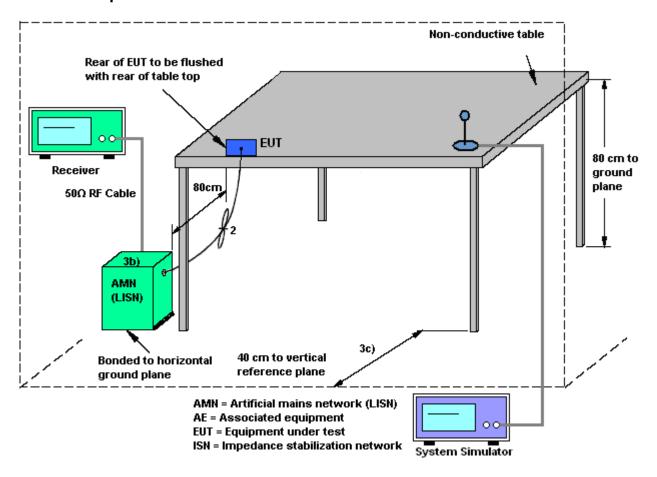
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 35 of 41
Report Issued Date : Jan. 04, 2015

Report No.: FR472201B

Report Version : Rev. 01

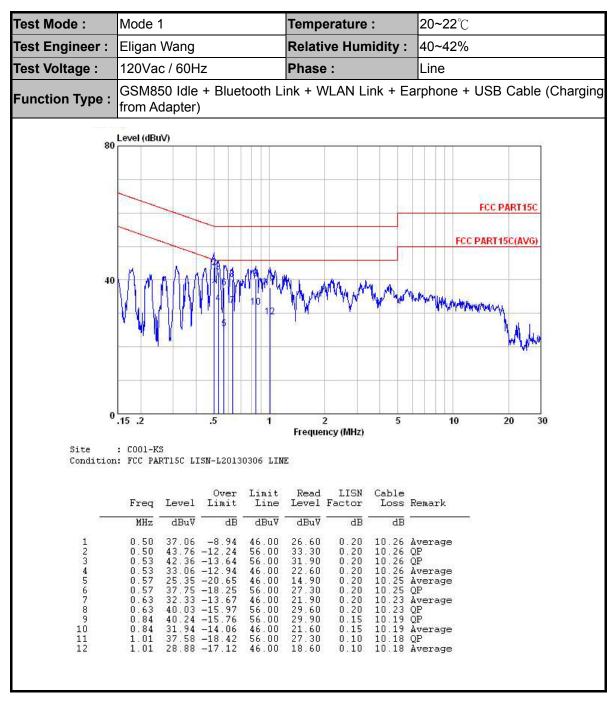


3.6.4 Test Setup



TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 36 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

3.6.5 Test Result of AC Conducted Emission

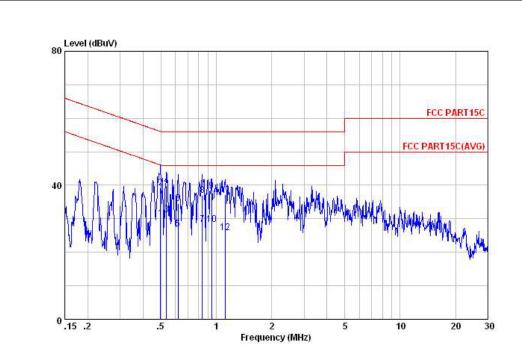


TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 37 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

Report No.: FR472201B

Test Engineer : Eligan Wang Relative Humidity : 40~42%	
Test Voltage: 120Vac / 60Hz Phase: Neutral	

GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable (Charging Function Type: from Adapter)



Site : C001-KS Condition: FCC PART15C LISN-N20130306 NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
<u> </u>	MHz	dBu₹	- dB	dBu∀	dBuV	dB	dB	Š.
1	0.50	30.17	-15.88	46.05	19.61	0.30	10.26	Average
2	0.50	39.17	-16.88	56.05	28.61	0.30	10.26	QP
3	0.53	31.14	-14.86	46.00	20.60	0.28	10.26	Average
4	0.53	39.84	-16.16	56.00	29.30	0.28	10.26	QP
1 2 3 4 5 6 7 8 9	0.62	27.06	-18.94	46.00	16.60	0.23	10.23	Average
6	0.62	34.56	-21.44	56.00	24.10	0.23	10.23	QP
7	0.84	28.24	-17.76	46.00	17.90	0.15	10.19	Average
8	0.84	36.94	-19.06	56.00	26.60	0.15	10.19	QP
9	0.94	38.40	-17.60	56.00	28.11	0.11	10.18	QP
10	0.94	28.20	-17.80	46.00	17.91	0.11	10.18	Äverage
11	1.12	37.18	-18.82	56.00	26.90	0.10	10.18	
12	1.12	25.88	-20.12	46.00	15.60	0.10		

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 38 of 41 Report Issued Date: Jan. 04, 2015 Report Version : Rev. 01

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: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 39 of 41
Report Issued Date : Jan. 04, 2015

Report No.: FR472201B

Report Version : Rev. 01

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Oct. 28, 2014	Aug. 23, 2014~ Dec. 29, 2014	Oct. 27, 2015	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	30MHz~40GHz	Feb. 27, 2014	Aug. 23, 2014~ Dec. 29, 2014	Feb. 26, 2015	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Feb. 27, 2014	Aug. 23, 2014~ Dec. 29, 2014	Feb. 26, 2015	Conducted (TH01-KS)
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Dec. 26, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY522601 85	20Hz~26.5GHz	May 26, 2014	Dec. 26, 2014	May 25, 2015	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 09, 2014	Dec. 26, 2014	May 08, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	37877	30MHz~2GHz	Oct. 15, 2014	Dec. 26, 2014	Oct. 14, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Dec. 26, 2014	Oct. 14, 2015	Radiation (03CH01-SZ)
Double Ridged Horn Antenna	COM-POWER	AH-840	101073	18GHz~40GHz	Jun. 09, 2014	Dec. 26, 2014	Jun. 08, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Feb. 21, 2014	Dec. 26, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 08, 2014	Dec. 26, 2014	May 07, 2015	Radiation (03CH01-SZ)
AC Source(AVR)	Chroma	61601	616010001 985	100Vac~250Vac	Mar. 25, 2014	Dec. 26, 2014	Mar. 24, 2015	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Dec. 26, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Dec. 26, 2014	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 04, 2014	Dec. 29, 2014	May 03, 2015	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 25, 2014	Dec. 29, 2014	Oct. 24, 2015	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 25, 2014	Dec. 29, 2014	Oct. 24, 2015	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 25, 2014	Dec. 29, 2014	Oct. 24, 2015	Conduction (CO01-KS)

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 40 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.3 dB
of 95% (U = 2Uc(y))	2.5 dB

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

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

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 41 of 41
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

Appendix A. Radiated Spurious Emission

15C 2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2334.84	50.14	-23.86	74	38.32	32.54	8.43	29.15	200	48	Р	Н
		2386.95	39.98	-14.02	54	28.04	32.6	8.6	29.26	200	48	Α	Н
DI E	*	2402	81	-	-	69.06	32.6	8.6	29.26	200	48	Р	Н
BLE CH 00	*	2402	80.29	-	-	68.35	32.6	8.6	29.26	200	48	Α	Н
2402MHz		2319.72	50.58	-23.42	74	38.73	32.53	8.43	29.11	163	201	Р	V
2402111112		2361.3	39.94	-14.06	54	28.05	32.56	8.51	29.18	163	201	Α	V
	*	2402	79.07	-	-	67.13	32.6	8.6	29.26	163	201	Р	V
	*	2402	78.43	-	-	66.49	32.6	8.6	29.26	163	201	Α	V
		2343.57	50.52	-23.48	74	38.7	32.54	8.43	29.15	174	222	Р	Н
		2360.94	40.35	-13.65	54	28.46	32.56	8.51	29.18	174	222	Α	Н
	*	2440	80.33	-	-	68.19	32.65	8.69	29.2	174	222	Р	Н
	*	2440	79.59	-	-	67.45	32.65	8.69	29.2	174	222	Α	Н
		2489.28	50.34	-23.66	74	38	32.7	8.78	29.14	174	222	Р	Н
BLE		2493.88	40.38	-13.62	54	28.04	32.7	8.78	29.14	174	222	Α	Н
CH 19 2440MHz		2382	50.74	-23.26	74	38.87	32.58	8.51	29.22	100	226	Р	V
2440WII1Z		2361.84	40.06	-13.94	54	28.17	32.56	8.51	29.18	100	226	Α	V
	*	2440	80.13	-	-	67.99	32.65	8.69	29.2	100	226	Р	V
	*	2440	79.45	-	-	67.31	32.65	8.69	29.2	100	226	Α	V
		2498.8	50	-24	74	37.66	32.7	8.78	29.14	100	226	Р	V
		2490.44	40.21	-13.79	54	27.87	32.7	8.78	29.14	100	226	Α	V

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : A1 of A6
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01



FCC RF Test Report

	1	1			1								
	*	2480	82.59	-	-	70.29	32.68	8.78	29.16	200	45	Р	Н
	*	2480	81.85	-	-	69.55	32.68	8.78	29.16	200	45	Α	Н
		2490.16	50.37	-23.63	74	38.03	32.7	8.78	29.14	200	45	Р	Н
BLE CH 39 2480MHz		2488.28	40.11	-13.89	54	27.77	32.7	8.78	29.14	200	45	Α	Н
	*	2480	81.58	-	-	69.28	32.68	8.78	29.16	130	232	Р	V
2400WIFIZ	*	2480	80.97	-	-	68.67	32.68	8.78	29.16	130	232	Α	V
		2497.28	50.73	-23.27	74	38.39	32.7	8.78	29.14	130	232	Р	V
		2499.76	40.29	-13.71	54	27.95	32.7	8.78	29.14	130	232	Α	V
Remark		o other spurious		Peak and	Average lim	it line.							

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : A2 of A6
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

15C 2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE		4804	35.25	-38.75	74	38.8	34.39	12.86	50.8	119	148	Р	Н
CH 00		1001	05.70	00.00	7.4	00.07	04.00	40.00	50.0	440	4.40	1	.,
2402MHz		4804	35.72	-38.28	74	39.27	34.39	12.86	50.8	119	148	Р	V
		4880	35.13	-38.87	74	38.36	34.43	12.92	50.58	110	245	Р	Н
BLE		7320	38.93	-35.07	74	38.87	36.23	14.71	50.88	184	225	Р	Н
CH 19 2440MHz		4880	34.48	-39.52	74	37.71	34.43	12.92	50.58	110	245	Р	٧
2440WITIZ		7320	39.48	-34.52	74	39.42	36.23	14.71	50.88	184	225	Р	٧
		4960	36.77	-37.23	74	39.5	34.48	13.1	50.31	150	135	Р	Н
BLE		7440	39.21	-34.79	74	39.04	36.28	14.77	50.88	175	260	Р	Н
CH 39 2480MHz		4960	34.96	-39.04	74	37.69	34.48	13.1	50.31	150	135	Р	٧
2400WITIZ		7440	36.9	-37.1	74	36.73	36.28	14.77	50.88	175	260	Р	٧

Remark

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : A3 of A6
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

15C Emission below 1GHz

2.4GHz BLE (LF)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		30.97	20.62	-19.38	40	32.1	18.4	0.86	30.74			Р	Н
		131.85	14.37	-29.13	43.5	31.45	11.88	1.77	30.73			Р	Н
		338.46	19.43	-26.57	46	32.72	14.2	2.91	30.4			Р	Н
		528.58	22.31	-23.69	46	30.94	17.57	3.72	29.92			Р	Н
		761.38	25.85	-20.15	46	31.11	19.8	4.48	29.54			Р	Н
2.4GHz		953.44	27.78	-18.22	46	30.22	21.24	5.03	28.71	200	0	Р	Н
BLE LF		31.94	20.99	-19.01	40	32.96	17.9	0.87	30.74	100	0	Р	V
		101.78	17.79	-25.71	43.5	35.63	11.36	1.56	30.76			Р	V
		256.98	16.7	-29.3	46	32.38	12.36	2.52	30.56			Р	V
		405.39	21.38	-24.62	46	32.31	16.17	3.2	30.3			Р	V
		739.07	26.74	-19.26	46	31.71	20.2	4.44	29.61			Р	V
		963.14	27.88	-26.12	54	30.21	21.3	5.07	28.7			Р	V
Remark	1. No	o other spurious	s found.	_							_		
INGILIALK	2. Al	l results are PA	SS against li	mit line.									

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : A4 of A6 Report Issued Date: Jan. 04, 2015 Report Version : Rev. 01

Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions
	shall not exceed the level of the fundamental frequency per 15.209(c).
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : A5 of A6
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level($dB\mu V/m$) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level(dB μ V/m) Limit Line(dB μ V/m)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : A6 of A6
Report Issued Date : Jan. 04, 2015

Report Version : Rev. 01