FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT: Mobile Phone

BRAND NAME : BLU

MODEL NAME : Life Play 2

FCC ID : YHLBLULIFEPLAY2

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Jun. 21, 2014 and testing was completed on Aug. 22, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) 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 (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.

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Testing Laboratory
2353

Report No.: FR462105B

Report Issued Date: Aug. 22, 2014
Report Version: Rev. 01

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR462105B	Rev. 01	Initial issue of report	Aug. 22, 2014

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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	15.209(a) & 15.247(d)	Pass	Under limit 13.21 dB at 71.710 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 11.70 dB at 0.970 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

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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

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1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Mobile Phone			
Brand Name	BLU			
Model Name	Life Play 2			
FCC ID	YHLBLULIFEPLAY2			
	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+ (Downlink Only)/			
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40/			
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE			
HW Version	LIFE PLAY 2_MAINBOARD_P2			
SW Version	LIFE PLAY 2_0202_V8360			
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	-1.67 dBm (0.0007 W)			
Antenna Type	PIFA Antenna type with gain 1.56 dBi			
Type of Modulation	Bluetooth LE : GFSK			

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1.5 Modification of EUT

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

1.6 Testing Location

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				
Test Site No.	Sporton	Site No.	FCC Registration No.		
rest Site No.	TH01-SZ	CO01-SZ	831040		

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Test Site		SPORTON INTERNATIONAL (KUNSHAN) INC.	
Test	Sito	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.	
Location	Site on	TEL: +86-0512-5790-0158	
Location		FAX: +86-0512-5790-0958	
Test Site N	la.	Sporton Site No.	FCC Registration No.
rest Site N	10.	03CH01-KS	149928

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 C63.4-2003

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.

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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	Frequency	Data Rate / Modulation
Channel		GFSK
		1Mbps
Ch00	2402MHz	-2.08 dBm
Ch19	2440MHz	-1.83 dBm
Ch39	2480MHz	<mark>-1.67</mark> 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.

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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 4.0 – LE / GFSK					
Conducted	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps					
TCs	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps					
105	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps					
Radiated	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					
AC	Mode 1: CSM950 Idle + Phieteeth Link + W/ ANT ink + Earnhane + Patteny + USP Cable					
Conducted	Mode 1: GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + Battery + USB Cable (Charging from Adapter)					
Emission	(Charging from Adapter)					
Remark:						
For Radi	For Radiated TCs, the tests were performance with adapter, earphone and USB cable.					

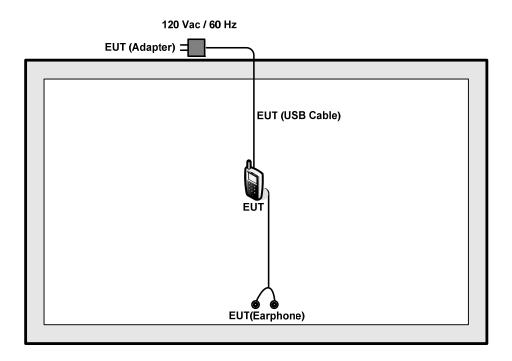
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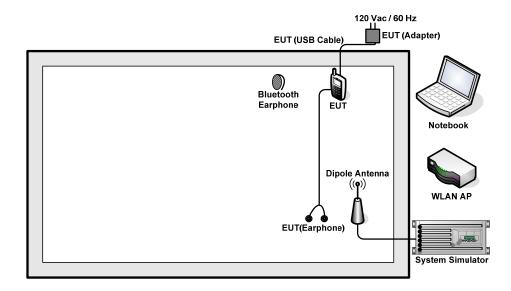


2.3 Connection Diagram of Test System

<Bluetooth 4.0 - LE Tx Mode>



<AC Conducted Emission Mode>



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2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station	R&S	CMW500	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	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-108	PYAHS-107W	N/A	N/A

2.5 EUT Operation Test Setup

For Bluetooth v4.0 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.

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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)

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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



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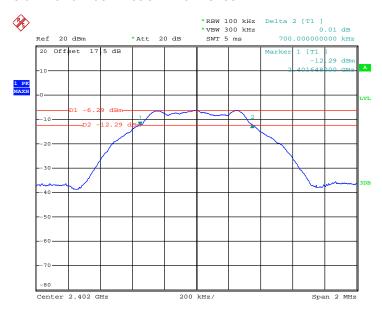
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3.1.5 Test Result of 6dB Bandwidth

Test Mode :	Bluetooth v4.0 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	0.700	0.5	Pass
19	2440	0.700	0.5	Pass
39	2480	0.706	0.5	Pass

6 dB Bandwidth Plot on Channel 00

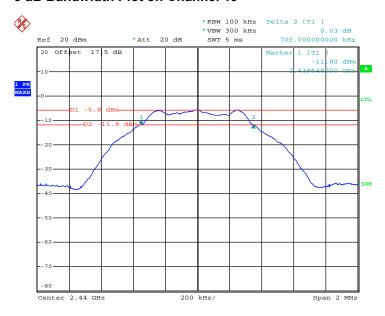


Date: 23.JUL.2014 01:53:32

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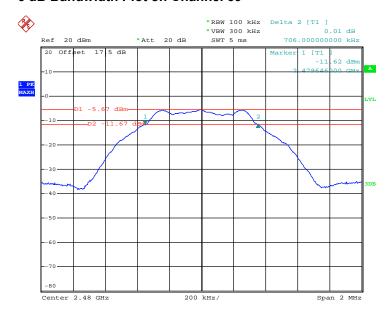
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6 dB Bandwidth Plot on Channel 19



Date: 23.JUL.2014 02:03:48

6 dB Bandwidth Plot on Channel 39



Date: 23.JUL.2014 02:11:53

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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.

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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

- 1. 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



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3.2.5 Test Result of Peak Output Power

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

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		RF Power (dBm)			
Channel	Frequency	GFSK	Max. Limits	Pass/Fail	
	(MHz)	1 Mbps	(dBm)		
00	2402	-2.08	30.00	Pass	
19	2440	-1.83	30.00	Pass	
39	2480	-1.67	30.00	Pass	

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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.

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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



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3.3.5 Test Result of Power Spectral Density

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26 ℃
Test Engineer :	Fly Liang	Relative Humidity :	50~53%

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Channal	Frequency	Power I	Max. Limits	Dage/Fail	
Channel	(MHz)	(MHz) PSD/100kHz (dBm) PSD/3kHz (dBm		(dBm/3kHz)	Pass/Fail
00	2402	-6.28	-20.87	8	Pass
19	2440	-5.80	-20.43	8	Pass
39	2480	-5.65	-20.18	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.

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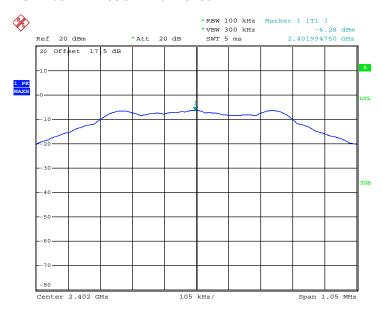
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3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD 100kHz Plot on Channel 00

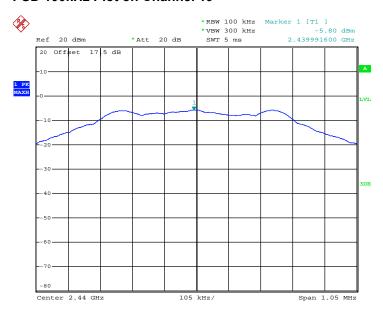


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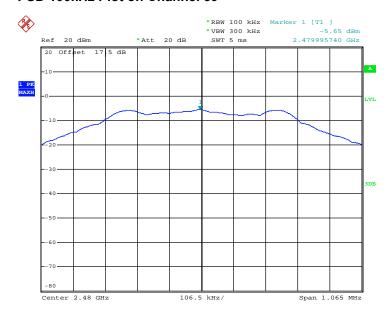
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PSD 100kHz Plot on Channel 19



Date: 23.JUL.2014 02:04:53

PSD 100kHz Plot on Channel 39



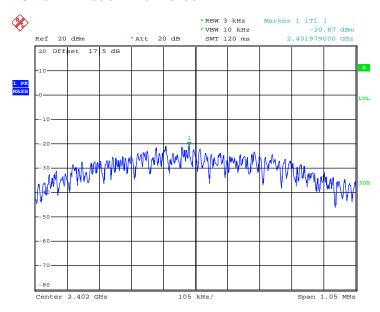
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3.3.7 Test Result of Power Spectral Density Plots (3kHz)

PSD 3kHz Plot on Channel 00

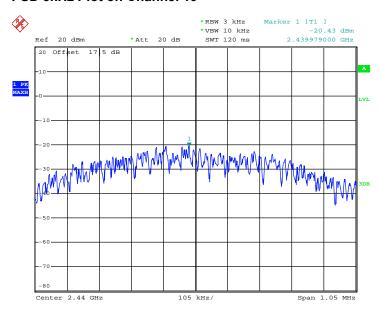


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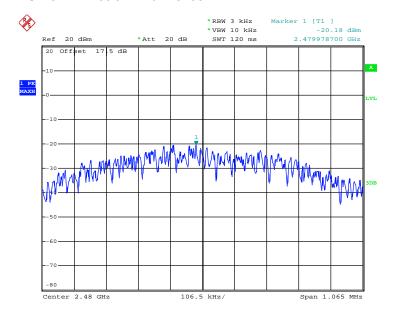
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PSD 3kHz Plot on Channel 19



Date: 23.JUL.2014 02:04:25

PSD 3kHz Plot on Channel 39



Date: 23.JUL.2014 02:13:20

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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.

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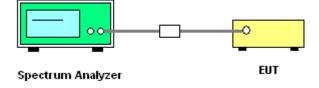
3.4.2 Measuring Instruments

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

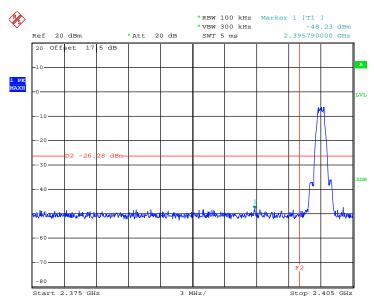


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3.4.5 Test Result of Conducted Band Edges

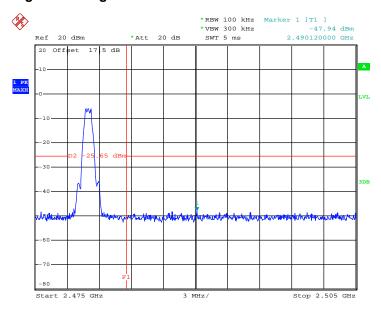
Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26℃
Test Channel :	00 and 39	Relative Humidity :	50~53%
		Test Engineer :	Fly Liang

Low Band Edge Plot on Channel 00



Date: 22.AUG.2014 14:17:42

High Band Edge Plot on Channel 39



Date: 22.AUG.2014 14:18:41

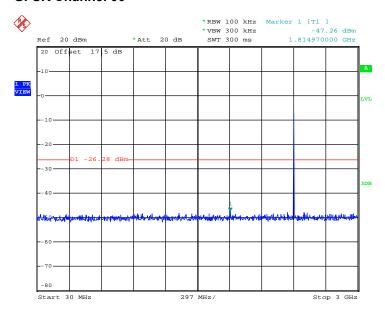
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3.4.6 Test Result of Conducted Spurious Emission

Test Mode :	Bluetooth v4.0 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

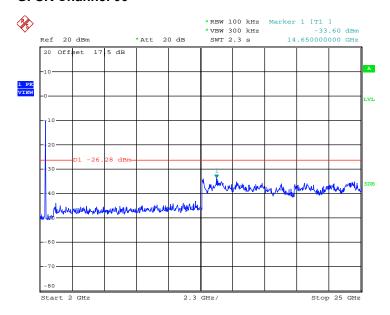


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Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00



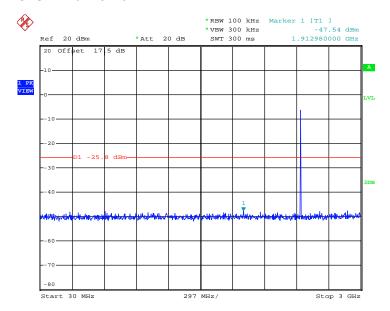
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Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26℃
Test Channel :	19	Relative Humidity :	50~53%
		Test Engineer :	Fly Liang

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

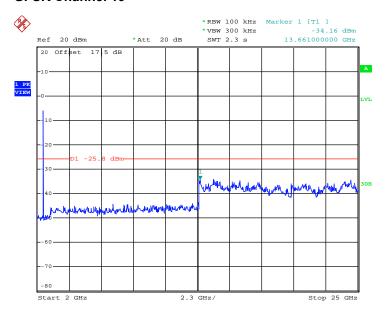


Date: 23.JUL.2014 02:06:03

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



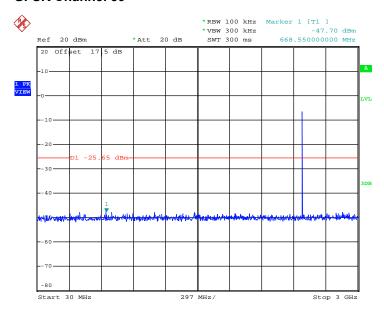
Date: 23.JUL.2014 02:06:21

TEL: 86-755- 3320-2398 FCC ID: YHLBLULIFEPLAY2 Report No.: FR462105B

Test Mode :	Bluetooth v4.0 LE	Temperature :	24~26℃
Test Channel :	39	Relative Humidity :	50~53%
		Test Engineer :	Fly Liang

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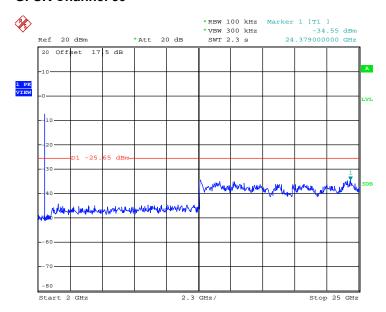
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



Date: 23.JUL.2014 02:15:02

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



Date: 23.JUL.2014 02:15:20

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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.

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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.

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- 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	60.06	0.38	2.66	3kHz	

3.5.4 Test Setup

For radiated emissions below 30MHz



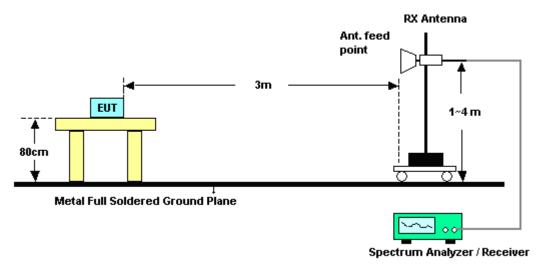
For radiated emissions from 30MHz to 1GHz



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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.

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3.5.6 Test Result of Radiated Spurious at Band Edges

Test Mode :	Mode 1	Temperature :	22~23°C
Test Channel :	00	Relative Humidity :	42~43%
		Test Engineer :	Star Wei

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	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)	
2342.49	48.37	-25.63	74	50.22	31.88	2.61	36.34	166	55	Peak
2337.72	35.71	-18.29	54	37.58	31.88	2.59	36.34	166	55	Average

	ANTENNA POLARITY: VERTICAL												
Frequency	requency Level Over Limit Read Antenna Cable Preamp Ant Table R									Remark			
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2321.97	48.38	-25.62	74	50.36	31.86	2.59	36.43	119	55	Peak			
2335.74	35.75	-18.25	54	37.62	31.88	2.59	36.34	119	55	Average			

Test Mode :	Mode 3	Temperature :	22~23°C
Test Channel :	39	Relative Humidity :	42~43%
		Test Engineer :	Star Wei

	ANTENNA POLARITY : HORIZONTAL												
Frequency	uency Level Over Limit Read Antenna Cable Preamp Ant Table R												
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos				
(MHz)	(dBµV /m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)				
2483.68	49.12	-24.88	74	50.15	32.08	2.68	35.79	129	57	Peak			
2486.74	36.29	-17.71	54	37.32	32.08	2.68	35.79	129	57	Average			

	ANTENNA POLARITY: VERTICAL											
Frequency	uency Level Over Limit Read Antenna Cable Preamp Ant Table R											
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos			
(MHz)	(dBµV /m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)			
2483.86	48.62	-25.38	74	49.65	32.08	2.68	35.79	114	70	Peak		
2483.62	36.21	-17.79	54	37.24	32.08	2.68	35.79	114	70	Average		

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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 :	22~23°C				
Test Channel :	00	Relative Humidity :	42~43%				
Test Engineer :	Star Wei	Polarization :	Horizontal				
	1. 2402 MHz is fundam	1. 2402 MHz is fundamental signal which can be ignored.					
Remark :	2. Average measureme	ent 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	92.27	-	-	93.74	31.96	2.65	36.08	166	55	Peak
2402	92.18	-	-	93.65	31.96	2.65	36.08	166	55	Average
4804	45.02	-28.98	74	43.74	34.09	3.78	36.59	100	0	Peak

Note: Other harmonics are lower than background noise.

Test Mode :	Mod	le 1	Temperature :	22~23°C
Test Channel :	00		Relative Humidity :	42~43%
Test Engineer :	Star	Wei	Polarization :	Vertical
	1.	2402 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	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	$(dB\mu V/m)$	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
2402	88.81	-	-	90.28	31.96	2.65	36.08	118	55	Peak
2402	88.5	-	-	89.97	31.96	2.65	36.08	118	55	Average
4804	44.74	-29.26	74	43.46	34.09	3.78	36.59	200	130	Peak

Note: Other harmonics are lower than background noise.

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Test Mode :	Mode 2	Temperature :	22~23°C
Test Channel :	19	Relative Humidity :	42~43%
Test Engineer :	Star Wei	Polarization :	Horizontal
	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
	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	91.7	-	-	92.92	32.03	2.66	35.91	117	325	Peak
2440	91.45	-	-	92.67	32.03	2.66	35.91	117	325	Average
4880	44.29	-29.71	74	43.33	34.02	3.78	36.84	200	305	Peak
7320	44.97	-29.03	74	43.42	35.73	4.74	38.92	100	0	Peak

Note: Other harmonics are lower than background noise.

Test Mode :	Mode 2	Temperature :	22~23°C
Test Channel :	19	Relative Humidity :	42~43%
Test Engineer :	Star Wei	Polarization :	Vertical
	1. 2440 MHz is fu	ndamental signal which can be	ignored.
Remark :	2. Average measu	urement 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)	
2440	91.7	-	-	92.92	32.03	2.66	35.91	117	325	Peak
2440	91.45	-	-	92.67	32.03	2.66	35.91	117	325	Average
4880	44.29	-29.71	74	43.33	34.02	3.78	36.84	200	305	Peak
7320	44.97	-29.03	74	43.42	35.73	4.74	38.92	100	0	Peak

Note: Other harmonics are lower than background noise.

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Test Mode :	Mode 3 Temperature :		22~23°C			
Test Channel :	39	Relative Humidity :	42~43%			
Test Engineer :	Star Wei	Polarization :	Horizontal			
2480 MHz is fundamental signal which can be ignored.						
Remark :	2. Average measurement	Average measurement was not performed if peak level went lower than				
	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)	
71.71	26.79	-13.21	40	53.57	5.4	0.47	32.65	200	0	Peak
299.66	28.03	-17.97	46	46.6	13	0.81	32.38	-	-	Peak
480.08	24.19	-21.81	46	37.84	17.3	1.22	32.17	-	-	Peak
600.36	23	-23	46	35.19	18.65	1.18	32.02	-	-	Peak
722.58	24.72	-21.28	46	35.7	19.61	1.41	32	-	-	Peak
960.23	25.84	-28.16	54	35.07	20.76	1.72	31.71	-	-	Peak
2480	94.57	-	-	95.61	32.08	2.67	35.79	129	57	Peak
2480	92.78	-	-	93.82	32.08	2.67	35.79	129	57	Average
4960	44.15	-29.85	74	43.59	33.93	3.78	37.15	100	206	Peak
7440	47.46	-26.54	74	45.79	35.78	4.8	38.91	200	0	Peak

Note: Other harmonics are lower than background noise.

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Test Mode :	Mode 3 Temperature :		22~23°C			
Test Channel :	39	Relative Humidity :	42~43%			
Test Engineer :	Star Wei	Polarization :	Vertical			
	1. 2480 MHz is fundament	2480 MHz is fundamental 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	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)	
44.55	26.25	-13.75	40	48.41	10.2	0.31	32.67	100	0	Peak
83.35	25.21	-14.79	40	49.75	7.5	0.6	32.64	-	-	Peak
119.24	24.38	-19.12	43.5	44.56	11.88	0.58	32.64	-	-	Peak
239.52	25.74	-20.26	46	46.53	10.85	0.84	32.48	-	-	Peak
600.36	21.97	-24.03	46	34.16	18.65	1.18	32.02	-	-	Peak
960.23	27.21	-26.79	54	36.44	20.76	1.72	31.71	-	-	Peak
2480	92.27	-	-	93.31	32.08	2.67	35.79	114	70	Peak
2480	92.21	-	-	93.25	32.08	2.67	35.79	114	70	Average
4960	45.32	-28.68	74	44.76	33.93	3.78	37.15	200	300	Peak
7440	48.17	-25.83	74	46.5	35.78	4.8	38.91	100	0	Peak

Note: Other harmonics are lower than background noise.

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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.

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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.
- Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

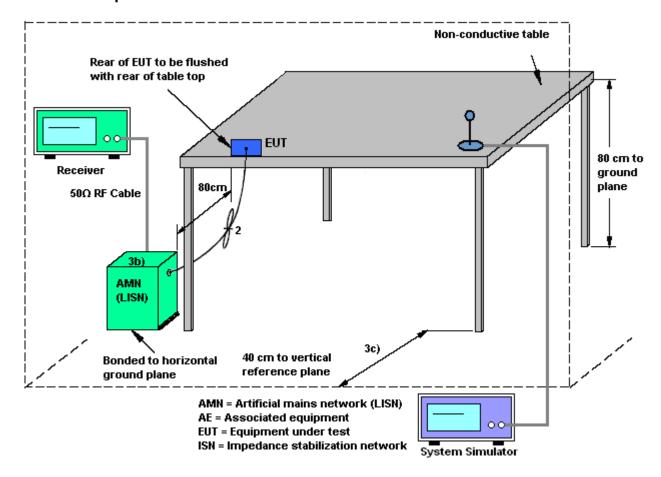
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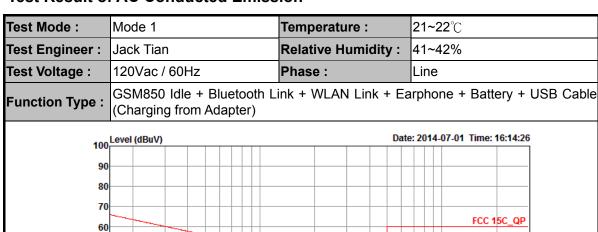
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3.6.4 Test Setup



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3.6.5 Test Result of AC Conducted Emission



Site : CO01-SZ

0.15 .2

Condition: FCC 15C_QP LISN_L_20140304 LINE

.5

Project : (FR) 462105

Mode : Mode 1

50

20 10

IMEI : 354147040136690/354147040163694

	_	_ ,	Over	Limit	Read	LISN	Cable	_ ,
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
1	0.17	36.96	-18.20	55.16	26.40	0.22	10.34	Average
2	0.17	47.26	-17.90	65.16	36.70	0.22	10.34	QP
3	0.49	28.56	-17.58	46.14	18.10	0.30	10.16	Average
4	0.49	42.86	-13.28	56.14	32.40	0.30	10.16	QP
5	0.97	33.80	-12.20	46.00	23.40	0.25	10.15	Average
6 *	0.97	44.30	-11.70	56.00	33.90	0.25	10.15	QP
7	1.20	25.91	-20.09	46.00	15.50	0.25	10.16	Average
8	1.20	33.91	-22.09	56.00	23.50	0.25	10.16	QP
9	6.42	25.36	-24.64	50.00	14.70	0.39	10.27	Average
10	6.42	36.66	-23.34	60.00	26.00	0.39	10.27	QP
11	26.84	32.33	-17.67	50.00	18.60	3.15	10.58	Average
12	26.84	42.43	-17.57	60.00	28.70	3.15	10.58	QP

Frequency (MHz)

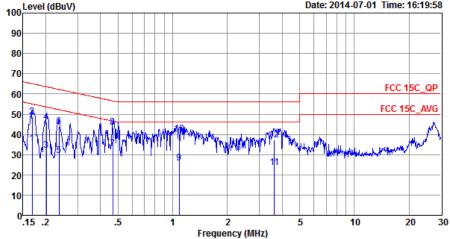
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Test Mode: Mode 1 Temperature: 21~22℃ Test Engineer: Jack Tian Relative Humidity: 41~42% Test Voltage: 120Vac / 60Hz Phase: Neutral GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + Battery + USB Cable Function Type: (Charging from Adapter) 100 Level (dBuV) Date: 2014-07-01 Time: 16:19:58 90 80



Site : CO01-SZ

Condition: FCC 15C_QP LISN_N_20140304 NEUTRAL

Project : (FR)462105 Mode : Mode 1

IMEI : 354147040136690/354147040163694

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∇	dBu∀	dB	dB	
1	0.17	35.26	-19.77	55.03	24.60	0.33	10.33	Average
2	0.17	48.86	-16.17	65.03	38.20	0.33	10.33	QP
3	0.20	32.11	-21.43	53.54	21.50	0.32	10.29	Average
4	0.20	46.11	-17.43	63.54	35.50	0.32	10.29	QP
5	0.24	29.39	-22.83	52.22	18.80	0.34	10.25	Average
6	0.24	43.99	-18.23	62.22	33.40	0.34	10.25	QP
7	0.47	32.96	-13.58	46.54	22.40	0.40	10.16	Average
8 *	0.47	43.46	-13.08	56.54	32.90	0.40	10.16	QP
9	1.09	25.69	-20.31	46.00	15.21	0.33	10.15	Average
10	1.09	40.19	-15.81	56.00	29.71	0.33	10.15	QP
11	3.62	23.67	-22.33	46.00	13.00	0.45	10.22	Average
12	3.62	37.37	-18.63	56.00	26.70	0.45	10.22	QP

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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.

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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 03, 2014	Jul. 23, 2014~ Aug. 22, 2014	Mar 02, 2015	Conducted (TH01-SZ)
Power Meter	Dare	RPR3006W	TH01SZ00018	0.3GHz~6GHz	Mar. 14, 2014	Jul. 23, 2014~ Aug. 22, 2014	Mar. 13, 2015	Conducted (TH01-SZ)
Power Sensor	Dare	RPR3006W	TH01SZ00019	0.3GHz~6GHz	Mar. 14, 2014	Jul. 23, 2014~ Aug. 22, 2014	Mar. 13, 2015	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 05, 2013	Jul. 29, 2014	Nov. 04, 2014	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 28, 2013	Jul. 29, 2014	Dec. 27, 2014	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 09, 2013	Jul. 29, 2014	Oct. 08, 2014	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Jan. 08, 2014	Jul. 29, 2014	Jan. 07, 2015	Radiation (03CH01-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 08, 2014	Jul. 29, 2014	Jan. 07, 2015	Radiation (03CH01-KS)
Active Horn Antenna	com-power	AHA-118	701030	1GHz~18GHz	Nov. 18, 2013	Jul. 29, 2014	Nov. 17, 2014	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Mar. 10, 2014	Jul. 29, 2014	Mar. 09, 2015	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161073	1MHz~1GHz	May 04, 2014	Jul. 29, 2014	May 03, 2015	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02371	1GHz~26.5GHz	Dec. 10, 2013	Jul. 29, 2014	Dec. 09, 2014	Radiation (03CH01-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 29, 2014	NCR	Radiation (03CH01-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jul. 29, 2014	NCR	Radiation (03CH01-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jul. 29, 2014	NCR	Radiation (03CH01-KS)
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Jul. 01, 2014	Feb. 20, 2015	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 04, 2014	Jul. 01, 2014	Mar. 03, 2015	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 04, 2014	Jul. 01, 2014	Mar. 03, 2015	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Dec. 17, 2013	Jul. 01, 2014	Dec. 16, 2014	Conduction (CO01-SZ)

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5 Uncertainty of Evaluation

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

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

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

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

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