

Test Report No. : FC3N2801

FCC Test Report

APPLICANT : CT Asia

EQUIPMENT: Mobile Phone

BRAND NAME : BLU

MODEL NAME : Dash Jr. 4.0

FCC ID : YHLBLUDASHJR40

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Nov. 28, 2013 and testing was completed on Jan. 02, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown to be compliant with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Louis Wu / Manager

Louis Win

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755- 3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 1 of 23
Report Issued Date : Jan. 09, 2014

Testing Laboratory 2353



TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
SU	MMAF	RY OF TEST RESULT	4
		ERAL DESCRIPTION	5
	1.1. 1.2.	Manufacturer	5
	1.3. 1.4.	Product Specification of Equipment Under Test	6
	1.5. 1.6. 1.7.		7
2.		CONFIGURATION OF EQUIPMENT UNDER TEST	
	2.1.2.2.2.3.2.4.	Connection Diagram of Test System Support Unit used in test configuration and system	10
3.	TEST	「RESULT	12
	3.1. 3.2.		
4.	LIST	OF MEASURING EQUIPMENT	22
5.	UNCI	ERTAINTY OF EVALUATION	23
ΑP	PEND	IX A. SETUP PHOTOGRAPHS	

TEL: 86-755- 3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 2 of 23
Report Issued Date : Jan. 09, 2014

Report No.: FC3N2801



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC3N2801	Rev. 01	Initial issue of report	Jan. 09, 2014

TEL: 86-755- 3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 3 of 23 Report Issued Date : Jan. 09, 2014

Report No.: FC3N2801



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	8.90 dB at
					0.160 MHz
					Under limit
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	0.81 dB at
3.2	13.109	Nadiated Emission	< 13.109 mmis	1 700	864.200 MHz
					for Quasi-Peak

TEL: 86-755-3320-2398 FCC ID: YHLBLUDASHJR40

: 4 of 23 Page Number

Report Issued Date: Jan. 09, 2014 Report Version : Rev. 01



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

Fortune Ship Technology (HK) Limited

Rm.402, B District, TCL King Electronics Company, No. 33th. NanhaiRoad, Nanshan District, Shenzhen, P.R.C

Report No.: FC3N2801

1.3. Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Phone
Brand Name	BLU
Model Name	Dash Jr. 4.0
FCC ID	YHLBLUDASHJR40
EUT supports Radios application	GSM/GPRS/WLAN2.4GHz 802.11b/g/n HT20 Bluetooth v2.1 + EDR
HW Version	7631-MB-V0.2
SW Version	BLU-D140-V01-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.

SPORTON INTERNATIONAL (SHENZHEN) INC. : 5 of 23 Page Number TEL: 86-755-3320-2398 Report Issued Date: Jan. 09, 2014 FCC ID: YHLBLUDASHJR40 Report Version : Rev. 01

FCC Test Report No. : FC3N2801

1.4. Product Specification of Equipment Under Test

Product Specification subjective to this standard					
Tx Frequency	GSM850 : 824.2 MHz ~ 848.8 MHz GSM1900 : 1850.2 MHz ~ 1909.8MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz				
Rx Frequency	GSM850 : 869.2 MHz ~ 893.8 MHz GSM1900 : 1930.2 MHz ~ 1989.8 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz				
Antenna Type	WWAN : Fixed Internal Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna				
Type of Modulation	GSM: GMSK GPRS: GMSK 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth v2.1 BR (1Mbps): GFSK Bluetooth v2.1 EDR (2Mbps): π /4-DQPSK Bluetooth v2.1 EDR (3Mbps): 8-DPSK				

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TEL: 86-755- 3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 6 of 23
Report Issued Date : Jan. 09, 2014

1.5. Modification of EUT

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

1.6. Test Site

Test Site	SPORTON INTERN	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					
Took Cita No	Sporton	Site No.	FCC Registration No.			
Test Site No.	CO01-SZ	03CH01-SZ	831040			

1.7. Applied Standards

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

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2003

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

TEL: 86-755-3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 7 of 23 Report Issued Date : Jan. 09, 2014

Report No.: FC3N2801



2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

		Те	_	on
Item	EUT Configuration	EMI AC		EMI RE≥1G
1.	Charging Mode (EUT with adapter)			Note 1
2.	Data application transferred mode		\square	\boxtimes
	(EUT connected with notebook)			

Abbreviations:

EMI AC: AC conducted emissions

EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz

• EMI RE < 1G: EUT radiated emissions < 1GHz

Note 1: Testing for this mode is not required or not the worst case.

Remark: For signal above 1GHz, the worst case was test item 2.

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755- 3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 8 of 23 Report Issued Date : Jan. 09, 2014

Report No.: FC3N2801



EUT Configure **Test Items Function Type** Mode Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1 <Fig.1> Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable AC Conducted (Charging from Adapter) + Earphone + MPEG4 + SIM 1 1/2 Emission <Fig.1> Mode 3: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM 1 <Fig.2> Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1 <Fig.1> Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable Radiated (Charging from Adapter) + Earphone + MPEG4 + SIM 1 1/2 Emissions < 1GHz <Fig.1> Mode 3: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM 1 <Fig.2> Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable Radiated (Data Link with Notebook) + Earphone + SIM 1 2 $Emissions \geq 1GHz$ <Fig.2>

Remark:

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

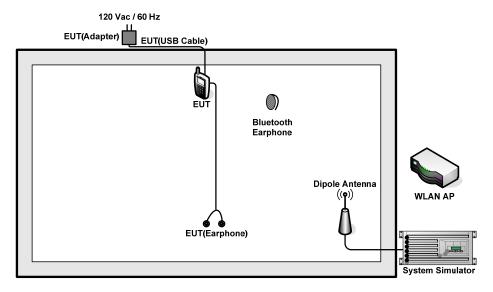
TEL: 86-755-3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 9 of 23 Report Issued Date : Jan. 09, 2014

Report No.: FC3N2801

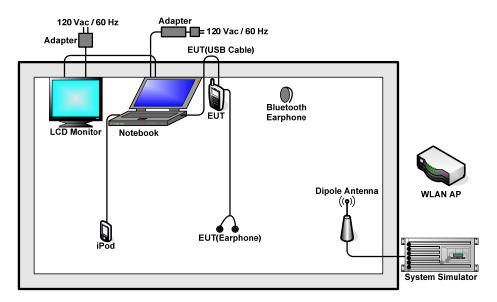


Report No.: FC3N2801

2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

TEL: 86-755-3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 10 of 23 Report Issued Date: Jan. 09, 2014 Report Version : Rev. 01

2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Agilent	E5515C	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-815	KA2DIR815A1	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
4.	Notebook	DELL	Vostro1440	FCC DoC	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
5.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 0.9 m DC O/P: Shielded, 1.8 m
6.	Monitor	DELL	IN1940MWB	FCC DoC	Shielded, 1.2m	Unshielded, 1.8 m
7.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
8.	iPod nano 8GB	Apple	MC690 ZP/A	FCC DoC	Shielded, 1.2m	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM idle mode during the testing. The EUT was synchronized to the BCCH, and was in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- Execute the program, "Winthrax" under WIN7 installed in notebook for files transfer with EUT via USB cable.
- 2. Execute "Video player" to play MPEG4 files.
- 3. Turn on camera to capture images.

SPORTON INTERNATIONAL (SHENZHEN) INC. TEL: 86-755-3320-2398

FCC ID: YHLBLUDASHJR40

Page Number : 11 of 23 Report Issued Date : Jan. 09, 2014

Report No.: FC3N2801

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission	Conducted	limit (dBuV)
(MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

- 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.

SPORTON INTERNATIONAL (SHENZHEN) INC. TEL: 86-755-3320-2398

FCC ID: YHLBLUDASHJR40

Report Issued Date : Jan. 09, 2014 Report Version : Rev. 01

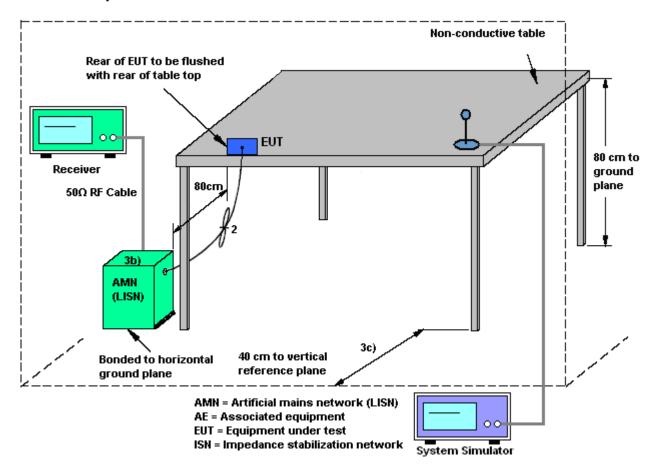
Page Number

: 12 of 23



Report No.: FC3N2801

3.1.4 Test Setup

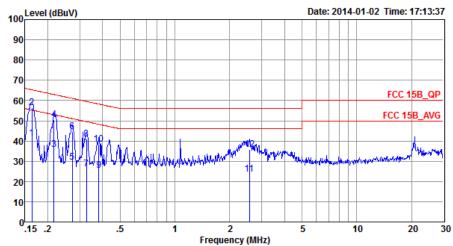


TEL: 86-755- 3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 13 of 23
Report Issued Date : Jan. 09, 2014
Report Version : Rev. 01



3.1.5 Test Result of AC Conducted Emission

Mode 1	Temperature :	24~25 ℃		
Henry Chen	Relative Humidity :	45~46%		
120Vac / 60Hz	Phase :	Line		
GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter)				
+ Earphone + Camera + SIM	11			
	Henry Chen 120Vac / 60Hz GSM850 Idle + Bluetooth Id	Henry Chen Relative Humidity : 120Vac / 60Hz Phase :		



Site : CO01-SZ Condition: FCC 15B_QP LISN_L_20130328 LINE Project : (FC) 3N2801

Mode : Mode 1

				Over	Limit	Read	LISN	Cable	
		Freq	Level	Limit	Line	Level	Factor	Loss	Remark
		MHz	dBuV	dB	dBuV	dBu₹	dB	dB	
1		0.16	41.20	-14.10	55.30	30.80	0.06	10.34	Average
2	*	0.16	56.40	-8.90	65.30	46.00	0.06	10.34	QP
3		0.22	35.65	-17.31	52.96	25.29	0.08	10.28	Average
4		0.22	50.55	-12.41	62.96	40.19	0.08	10.28	QP
5		0.27	29.52	-21.51	51.03	19.21	0.09	10.22	Average
6		0.27	44.82	-16.21	61.03	34.51	0.09	10.22	QP
7		0.33	26.10	-23.43	49.53	15.80	0.11	10.19	Average
8		0.33	40.90	-18.63	59.53	30.60	0.11	10.19	QP
9		0.38	25.30	-22.95	48.25	15.00	0.12	10.18	Average
10		0.38	38.30	-19.95	58.25	28.00	0.12	10.18	QP
11		2.57	23.65	-22.35	46.00	13.20	0.25	10.20	Average
12		2.57	35.95	-20.05	56.00	25.50	0.25	10.20	QP

TEL: 86-755-3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 14 of 23 Report Issued Date: Jan. 09, 2014 Report Version : Rev. 01

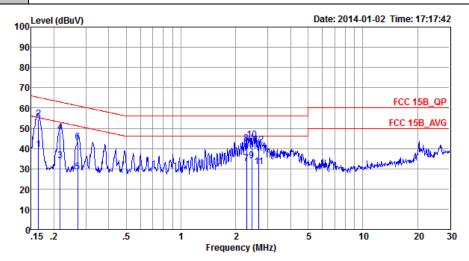


Test Mode: Mode 1 Temperature: 24~25°C

Test Engineer: Henry Chen Relative Humidity: 45~46%

Test Voltage: 120Vac / 60Hz Phase: Neutral

Function Type: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1



Site : CO01-SZ

Condition: FCC 15B_QP LISN_N_20130328 NEUTRAL

Project : (FC)3N2801 Mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBu∇	dB	dB	
1	0.16	39.48	-15.77	55.25	29.10	0.04	10.34	Average
2 *	0.16	54.58	-10.67	65.25	44.20	0.04	10.34	QP
3	0.22	34.02	-18.94	52.96	23.70	0.04	10.28	Average
4	0.22	47.92	-15.04	62.96	37.60	0.04	10.28	QP
5	0.27	28.36	-22.76	51.12	18.10	0.04	10.22	Average
6	0.27	43.26	-17.86	61.12	33.00	0.04	10.22	QP
7	2.30	32.46	-13.54	46.00	22.19	0.07	10.20	Average
8	2.30	42.46	-13.54	56.00	32.19	0.07	10.20	QP
9	2.45	33.87	-12.13	46.00	23.60	0.07	10.20	Average
10	2.45	44.37	-11.63	56.00	34.10	0.07	10.20	QP
11	2.68	30.88	-15.12	46.00	20.59	0.08	10.21	Average
12	2.68	41.88	-14.12	56.00	31.59	0.08	10.21	QP

TEL: 86-755- 3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 15 of 23
Report Issued Date : Jan. 09, 2014
Report Version : Rev. 01



 Test Mode :
 Mode 3
 Temperature :
 24~25°C

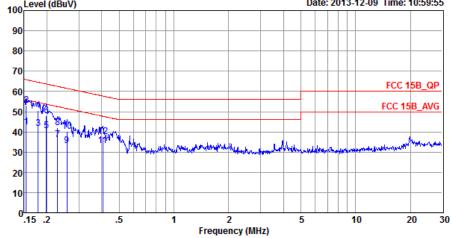
 Test Engineer :
 Henry Chen
 Relative Humidity :
 45~46%

 Test Voltage :
 120Vac / 60Hz
 Phase :
 Line

 Function Type :
 GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with

Notebook) + Earphone + SIM 1

Date: 2013-12-09 Time: 10:59:55



Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20130328 LINE

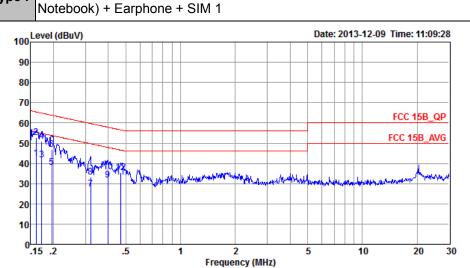
Project : (FC) 3N2801 Mode : Mode 3

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu₹	dB	dBu₹	dBu₹	dB	dB	
1 2	0.15		-13.37	55.78	32.00	0.06		Average
3 *	0.10	41.87	-12.77 -12.68	65.78 54.55	42.60 31.49			Average
4 5	0.18 0.20		-14.18 -13.13	64.55 53.67	39.99 30.20	0.07 0.07	10.31 10.27	QP Average
6 7	0.20 0.23		-15.83 -16.16	63.67 52.48	37.50 26.00	0.07	10.27 10.24	QP Average
8 9	0.23		-20.46 -18.20	62.48 51.51	31.70 23.00	0.08	10.24	QP Average
10 11	0.26 0.41		-21.20 -14.44	61.51 47.73	30.00	0.09	10.22	_
12	0.41		-20.14	57.73	27.30	0.12	10.17	_

TEL: 86-755- 3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 16 of 23
Report Issued Date : Jan. 09, 2014
Report Version : Rev. 01



24~25℃ Test Mode: Mode 3 Temperature: Relative Humidity: 45~46% Test Engineer: Henry Chen Phase: Test Voltage : 120Vac / 60Hz Neutral GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type:



: CO01-SZ

Condition: FCC 15B_QP LISN_N_20130328 NEUTRAL Project : (FC)3N2801

Mode : Mode 3

	F	req	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	1	MHz	dBu∇	dB	dBu∀	dBu∇	dB	dB	
1	0	.16	42.48	-12.95	55.43	32.10	0.04	10.34	Average
2	• 0	.16	52.78	-12.65	65.43	42.40	0.04	10.34	QP
3	0	.17	41.56	-13.30	54.86	31.20	0.04	10.32	Average
4	0	.17	51.06	-13.80	64.86	40.70	0.04	10.32	QP
5	0	.20	37.92	-15.88	53.80	27.60	0.04	10.28	Average
6	0	.20	46.72	-17.08	63.80	36.40	0.04	10.28	QP
7	0	.32	27.33	-22.38	49.71	17.10	0.04	10.19	Average
8	0	.32	33.33	-26.38	59.71	23.10	0.04	10.19	QP
9	0	.40	31.71	-16.19	47.90	21.50	0.04	10.17	Average
10	0	.40	35.71	-22.19	57.90	25.50	0.04	10.17	QP
11	0	.47	33.20	-13.34	46.54	23.00	0.04	10.16	Average
12	0	.47	35.40	-21.14	56.54	25.20	0.04	10.16	QP

TEL: 86-755-3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 17 of 23 Report Issued Date: Jan. 09, 2014 Report Version : Rev. 01

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

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

3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak
 values of EUT will be reported. Otherwise, the emission will be repeated by using the
 quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

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TEL: 86-755- 3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 18 of 23 Report Issued Date : Jan. 09, 2014

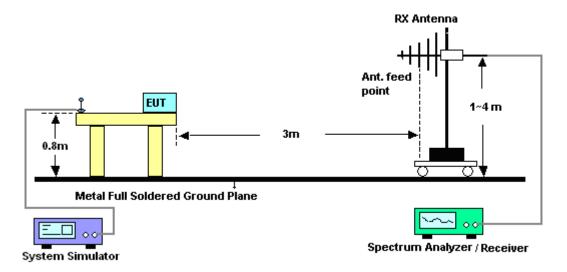
Report No.: FC3N2801



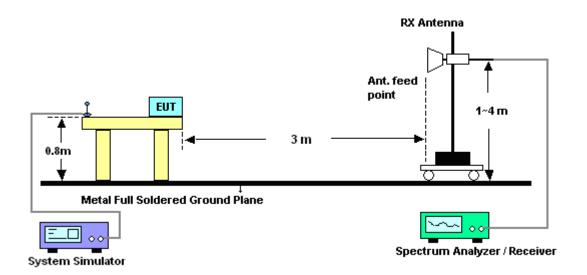
Report No.: FC3N2801

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



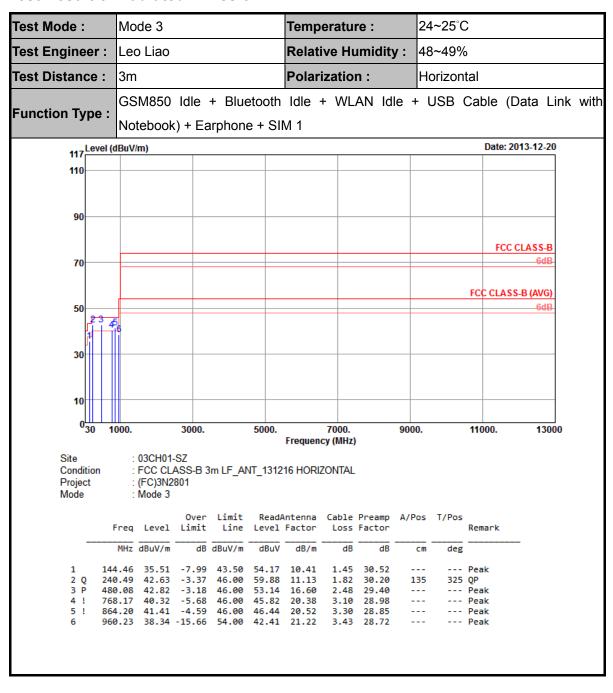
For radiated emissions above 1GHz



TEL: 86-755-3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 19 of 23 Report Issued Date: Jan. 09, 2014 Report Version : Rev. 01



3.2.5. Test Result of Radiated Emission



TEL: 86-755- 3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 20 of 23
Report Issued Date : Jan. 09, 2014
Report Version : Rev. 01

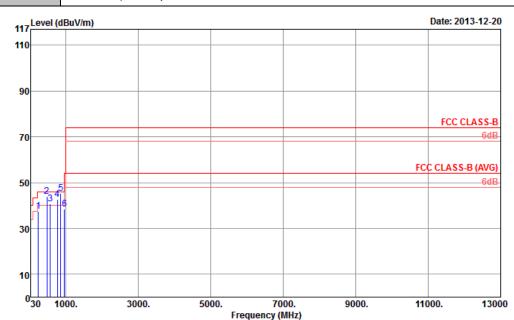


Test Mode: Mode 3 Temperature: 24~25°C

Test Engineer: Leo Liao Relative Humidity: 48~49%

Test Distance: 3m Polarization: Vertical

Function Type: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM 1



Site : 03CH01-SZ

Condition : FCC CLASS-B 3m LF_ANT_131216 VERTICAL

Project : (FC)3N2801 Mode : Mode 3

	Freq	Level				Antenna Factor				T/Pos	Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	239.52	37.40	-8.60	46.00	54.71	11.07	1.82	30.20			Peak
2 P	480.08	44.07	-1.93	46.00	54.39	16.60	2.48	29.40			Peak
3 !	576.11	40.84	-5.16	46.00	49.15	18.21	2.71	29.23			Peak
4 !	768.17	42.77	-3.23	46.00	48.27	20.38	3.10	28.98			Peak
5 Q	864.20	45.19	-0.81	46.00	50.22	20.52	3.30	28.85	132	254	QP
6	960.23	38.53	-15.47	54.00	42.60	21.22	3.43	28.72			Peak

TEL: 86-755- 3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 21 of 23
Report Issued Date : Jan. 09, 2014
Report Version : Rev. 01



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
ESCIO TEST Receiver	R&S	1142.8007.03	100724	9kHz~3GHz	Mar. 28, 2013	Dec. 09, 2013~ Jan. 02, 2014	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 28, 2013	Dec. 09, 2013~ Jan. 02, 2014	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 28, 2013	Dec. 09, 2013~ Jan. 02, 2014	Mar. 27, 2014	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	N/A	Nov. 19, 2013	Dec. 09, 2013~ Jan. 02, 2014	Nov. 18, 2014	Conduction (CO01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	Apr. 04, 2013	Dec. 20, 2013	Apr. 03, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Dec. 20, 2013	Oct. 25, 2014	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30MHz~2GHz	Dec. 26, 2012	Dec. 20, 2013	Dec. 25, 2013	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz-3000MHz GAIN 30db	Mar. 28, 2013	Dec. 20, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 28, 2013	Dec. 20, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Turn Table	EM Electronice	EM 1000	N/A	0 ~ 360 degree	N/A	Dec. 20, 2013	N/A	Radiation (03CH01-SZ)
Antenna Mast	EM Electronice	EM 1000	N/A	1 m - 4 m	N/A	Dec. 20, 2013	N/A	Radiation (03CH01-SZ)

TEL: 86-755- 3320-2398 FCC ID: YHLBLUDASHJR40 Page Number : 22 of 23
Report Issued Date : Jan. 09, 2014
Report Version : Rev. 01



FCC Test Report

5. Uncertainty of Evaluation

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

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

Report No.: FC3N2801

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

Measuring Uncertainty for a Level of	3.90
Confidence of 95% (U = 2Uc(y))	3.90

SPORTON INTERNATIONAL (SHENZHEN) INC.Page Number: 23 of 23TEL: 86-755- 3320-2398Report Issued Date: Jan. 09, 2014FCC ID: YHLBLUDASHJR40Report Version: Rev. 01