FCC Test Report

APPLICANT : BLU Products, Inc.

EQUIPMENT: Mobile phone

BRAND NAME : BLU

MODEL NAME : DASH L2

FCC ID : YHLBLUDASHL2

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Mar. 25, 2016 and testing was completed on Apr. 25, 2016. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 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.

Prepared by: Ken Chen / Manager

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Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

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Testing Laboratory 2353

Report No.: FC632501

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC632501	Rev. 01	Initial issue of report	May 11, 2016

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.107	ICES003 Section 6.1	AC Conducted Emission	< 15.107 limits < ICES003 6.1 limits	PASS	Under limit 15.12 dB at 0.410 MHz
3.2	15.109	ICES003 Section 6.2	Radiated Emission	< 15.109 limits < ICES003 6.2 limits	PASS	Under limit 1.00 dB at 33.240 MHz for Quasi-Peak

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1. General Description

1.1. Applicant

BLU Products, Inc.

10814 NW 33rd St # 100 Doral, FL 33172

1.2. Manufacturer

BLU Products, Inc.

10814 NW 33rd St # 100 Doral, FL 33172

1.3. Product Feature of Equipment Under Test

	Product Feature			
Equipment	Mobile phone			
Brand Name	BLU			
Model Name	DASH L2			
FCC ID	YHLBLUDASHL2			
	GSM/GPRS/EGPRS(Downlink Only)/WCDMA/HSPA/			
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n HT20/HT40/			
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE			
IMEI Code	Conduction: 351771053544657/351771053544665			
INELCORE	Radiation: 351771053544657/351771053544665			
HW Version	S4023-MB-V2.1			
SW Version	BLU_DASHLII_GENERIC_V01_160317_1637			
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.

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1.4. Product Specification of Equipment Under Test

Standards-related Product Specification					
Otaliaa a	GSM850: 824.2 MHz ~ 848.8 MHz				
	GSM1900: 1850.2 MHz ~ 1909.8MHz				
	WCDMA Band V: 826.4 MHz ~ 846.6 MHz				
Tx Frequency	WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz				
1 x 1 requericy	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz				
	802.11b/g/n: 2412 MHz ~ 2462 MHz				
	Bluetooth: 2402 MHz ~ 2480 MHz				
	GSM850: 869.2 MHz ~ 893.8 MHz				
	GSM1900: 1930.2 MHz ~ 1989.8 MHz				
	WCDMA Band V: 871.4 MHz ~ 891.6 MHz				
	WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz				
Rx Frequency	WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz				
	802.11b/g/n: 2412 MHz ~ 2462 MHz				
	Bluetooth: 2402 MHz ~ 2480 MHz				
	GPS : 1.57542 GHz				
	FM: 88MHz - 108 MHz				
	WWAN : IFA Antenna				
Antenna Type	WLAN: PIFA Antenna				
Antenna Type	Bluetooth: PIFA Antenna				
	GPS : PIFA Antenna				
	GSM: GMSK				
	GPRS: GMSK				
	EDGE: GMSK / 8PSK(Downlink Only)				
	WCDMA: QPSK (Uplink)				
	HSDPA : QPSK (Uplink)				
	HSUPA : QPSK (Uplink)				
Type of Madulation	802.11b: DSSS (DBPSK / DQPSK / CCK)				
Type of Modulation	802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)				
	Bluetooth LE : GFSK				
	Bluetooth (1Mbps) : GFSK				
	Bluetooth (2Mbps) : π /4-DQPSK				
	Bluetooth (3Mbps) : 8-DPSK				
	GPS: BPSK				
	FM				

1.5. Modification of EUT

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

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1.6. Test Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.					
	1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town,					
	Nanshan District, Shenzhen, Guangdong, P. R. China					
Test Site Location	TEL: +86-755-8637-9589					
	FAX: +86-755-8637-9595					
Tool Cita No	Sporton Site No.					
Test Site No.	CO01-SZ					

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/IC Registration No.				
Test Site No.	03CH02-SZ	566869/4086F				

Note: The test site complies with ANSI C63.4 2014 requirement.

1.7. Applicable 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 C63.4-2014

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

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 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.

		Test Condition			
Item	EUT Configuration	EMI AC	EMI RE<1G	EMI RE≥1G	
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	\boxtimes	
2.	Data application transferred mode (EUT with notebook)	\boxtimes	\boxtimes	\boxtimes	

Abbreviations:

EMI AC: AC conducted emissions

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

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

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Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + Adapter + Earphone + Camera(Front) + SIM1 <fig.1></fig.1>
AC Conducted		Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + Adapter + Earphone + Camera(Back) + SIM2 <fig.1></fig.1>
Emission	1/2	Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + Adapter + Earphone + MPEG4 + SIM1 <fig.1></fig.1>
		Mode 4: WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + FM Rx + SIM2 <fig.2></fig.2>
	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + Adapter + Earphone + Camera(Front) + SIM1 <fig.1></fig.1>
Radiated		Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + Adapter + Earphone + Camera(Back) + SIM2 <fig.1></fig.1>
Emissions < 1GHz		Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + Adapter + Earphone + MPEG4 + SIM1 <fig.1></fig.1>
		Mode 4: WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + FM Rx + SIM2 <fig.2></fig.2>
Da diata d	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + Adapter + Earphone + Camera(Front) + SIM1 <fig.1></fig.1>
Radiated Emissions ≥ 1GHz		Mode 2: WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + FM Rx + SIM2 <fig.2></fig.2>

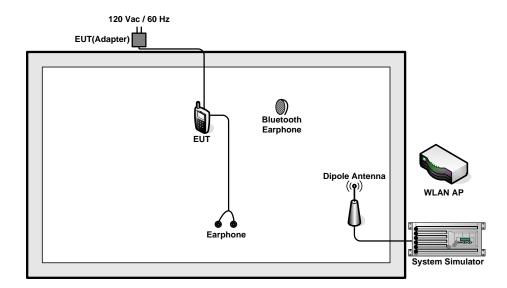
Remark:

- 1. The worst case of AC is mode 1; and the USB Link mode of AC is mode 4, the test data of these modes are reported.
- The worst case of RE < 1G is mode 1; and the USB Link mode of RE is mode 4, the test data of these modes are reported.
- **3.** Data Link with notebook means data application transferred mode between EUT and notebook.

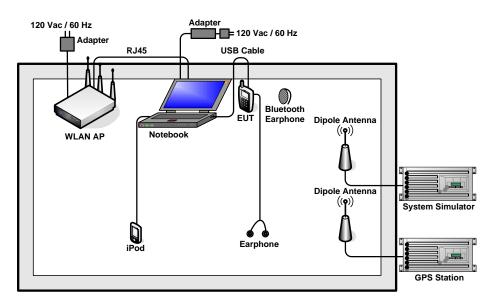
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2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

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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	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m
5.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
6.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
7.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
8.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
9.	iPod nano 8GB	Apple	MC690 ZP/A	FCC DoC	Shielded, 1.2 m	N/A
10.	Earphone	Apple	MC525 ZP/A	N/A	Unshielded, 1.0 m	N/A
11.	USB Cable	Motorola	SKN6378A	N/A	Shielded, 1.0 m	N/A

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2.4. EUT Operation Test Setup

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

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

- 1. Data application is transferred between notebook and EUT via USB cable.
- 2. Turn on GPS function to make the EUT receive continuous signals from GPS station.
- 3. Execute "Video player" to play MPEG4 files.
- 4. Turn on camera to capture images.
- 5. Turn on FM function.

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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

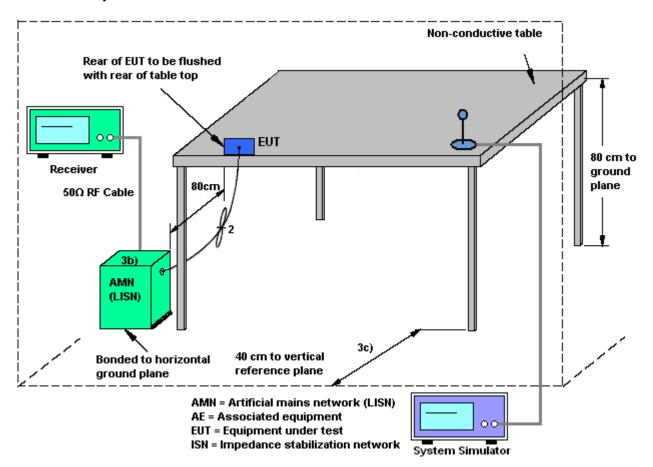
- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least
 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other 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.

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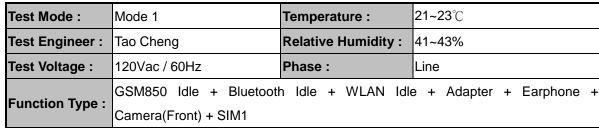
3.1.4 Test Setup

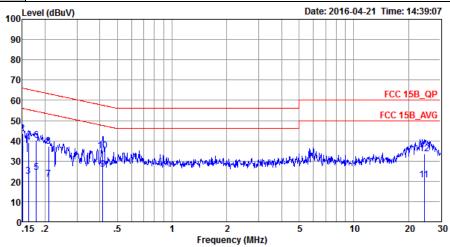


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3.1.5 Test Result of AC Conducted Emission





Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20160415 LINE

Project : (FC) 632501 Mode : Mode 1

IMEI : 351771053544657/351771053544665

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu∇	dB	dBu∇	dBu∇	dB	dB	
1	0.15	32.99	-23.01	56.00	22.20	0.43	10.36	Average
2	0.15	43.69	-22.31	66.00	32.90	0.43	10.36	QP
3	0.16	22.60	-32.74	55.34	11.80	0.46	10.34	Average
4	0.16	39.20	-26.14	65.34	28.40	0.46	10.34	QP
5	0.18	24.30	-30.25	54.55	13.50	0.48	10.32	Average
6	0.18	40.40	-24.15	64.55	29.60	0.48	10.32	QP
7	0.21	21.01	-32.22	53.23	10.20	0.53	10.28	Average
8	0.21	37.11	-26.12	63.23	26.30	0.53	10.28	QP
9 *	0.41	25.73	-21.82	47.55	15.00	0.56	10.17	Average
10	0.41	34.93	-22.62	57.55	24.20	0.56	10.17	QP
11	24.40	20.78	-29.22	50.00	9.40	0.82	10.56	Average
12	24.40	33.58	-26.42	60.00	22.20	0.82	10.56	QP

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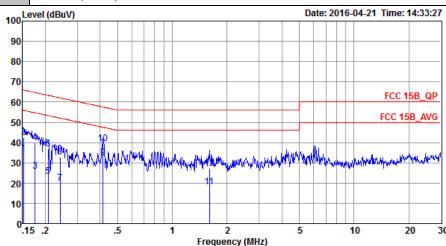


Test Mode: Mode 1 Temperature: 21~23℃

Test Engineer: Tao Cheng Relative Humidity: 41~43%

Test Voltage: 120Vac / 60Hz Phase: Neutral

Function Type: GSM850 Idle + Bluetooth Idle + WLAN Idle + Adapter + Earphone + Camera(Front) + SIM1



Site : CO01-SZ

Condition: FCC 15B_QP LISN_N_20160415 NEUTRAL

Project : (FC) 632501

Mode : Mode 1

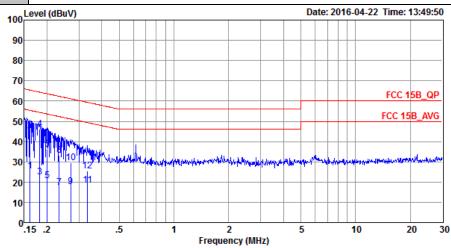
IMEI : 351771053544657/351771053544665

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu₹	dB	dB	
1	0.15	34.51	-21.40	55.91	23.70	0.45	10.36	Average
2	0.15	42.61	-23.30	65.91	31.80	0.45	10.36	QP
3	0.18	25.81	-28.87	54.68	15.01	0.48	10.32	Average
4	0.18	39.71	-24.97	64.68	28.91	0.48	10.32	QP
5	0.21	23.10	-30.22	53.32	12.29	0.52	10.29	Average
6	0.21	36.80	-26.52	63.32	25.99	0.52	10.29	QP
7	0.24	19.80	-32.24	52.04	9.00	0.55	10.25	Average
8	0.24	33.00	-29.04	62.04	22.20	0.55	10.25	QP
9 *	0.41	32.43	-15.12	47.55	21.70	0.56	10.17	Average
10	0.41	39.53	-18.02	57.55	28.80	0.56	10.17	QP
11	1.60	18.14	-27.86	46.00	7.39	0.57	10.18	Average
12	1.60	27.34	-28.66	56.00	16.59	0.57	10.18	QP

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Test Mode :	Mode 4	Temperature :	21~23℃			
Test Engineer :	Tao Cheng	Relative Humidity :	41~43%			
Test Voltage :	120Vac / 60Hz	Phase :	Line			
Function Type :	WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with					
	Notebook) + Earphone + GF					



Site : CO01-SZ

Condition: FCC 15B QP LISN L 20160415 LINE

Project : (FC) 632501

Mode

: Mode 4 : 351771053544657/351771053544665 IMEI

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
1	0.16	25.50	-29.88	55.38	14.71	0.45	10.34	Average
2	0.16	45.30	-20.08	65.38	34.51	0.45	10.34	QP
3	0.18	22.41	-31.96	54.37	11.61	0.49	10.31	Average
4 *	0.18	46.01	-18.36	64.37	35.21	0.49	10.31	QP
5	0.20	20.81	-32.77	53.58	10.00	0.52	10.29	Average
6	0.20	36.21	-27.37	63.58	25.40	0.52	10.29	QP
7	0.23	17.20	-35.15	52.35	6.40	0.54	10.26	Average
8	0.23	33.20	-29.15	62.35	22.40	0.54	10.26	QP
9	0.27	17.78	-33.34	51.12	7.00	0.56	10.22	Average
10	0.27	29.68	-31.44	61.12	18.90	0.56	10.22	QP
11	0.33	18.45	-30.90	49.35	7.70	0.56	10.19	Average
12	0.33	25.55	-33.80	59.35	14.80	0.56	10.19	QP

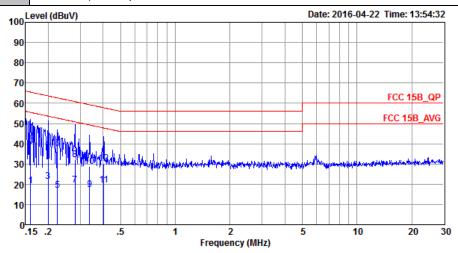
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Test Mode :	Mode 4	Temperature :	21~23℃							
Test Engineer :	Tao Cheng	Relative Humidity :	41~43%							
Test Voltage :	120Vac / 60Hz	Phase :	Neutral							
	WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link v									

Function Type: WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + FM Rx + SIM2



Site : CO01-SZ

Condition: FCC 15B_QP LISN_N_20160415 NEUTRAL

Project : (FC)632501 Mode : Mode 4

IMEI : 351771053544657/351771053544665

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu₹	dB	dBu∀	dBuV	dB	dB	
1	0.16	19.11	-36.36	55.47	8.30	0.46	10.35	Average
2 *	0.16	41.21	-24.26	65.47	30.40	0.46	10.35	QP
3	0.20	21.40	-32.22	53.62	10.60	0.51	10.29	Average
4	0.20	37.60	-26.02	63.62	26.80	0.51	10.29	QP
5	0.22	17.00	-35.66	52.66	6.20	0.53	10.27	Average
6	0.22	37.70	-24.96	62.66	26.90	0.53	10.27	QP
7	0.28	19.39	-31.42	50.81	8.59	0.58	10.22	Average
8	0.28	31.99	-28.82	60.81	21.19	0.58	10.22	QP
9	0.34	17.46	-31.81	49.27	6.70	0.57	10.19	Average
10	0.34	28.96	-30.31	59.27	18.20	0.57	10.19	QP
11	0.40	19.72	-28.05	47.77	9.00	0.55	10.17	Average
12	0.40	30.22	-27.55	57.77	19.50	0.55	10.17	QP

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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	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(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 (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB 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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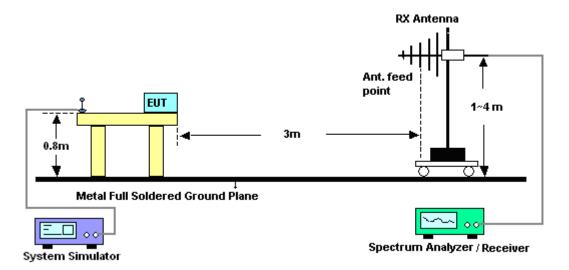
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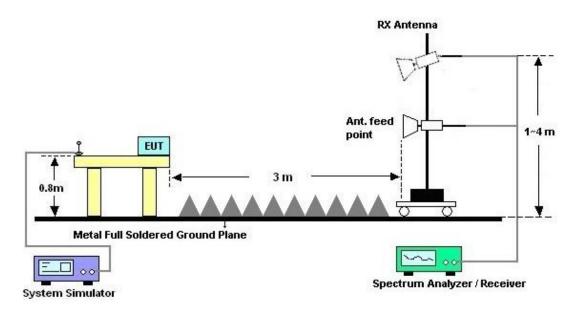
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

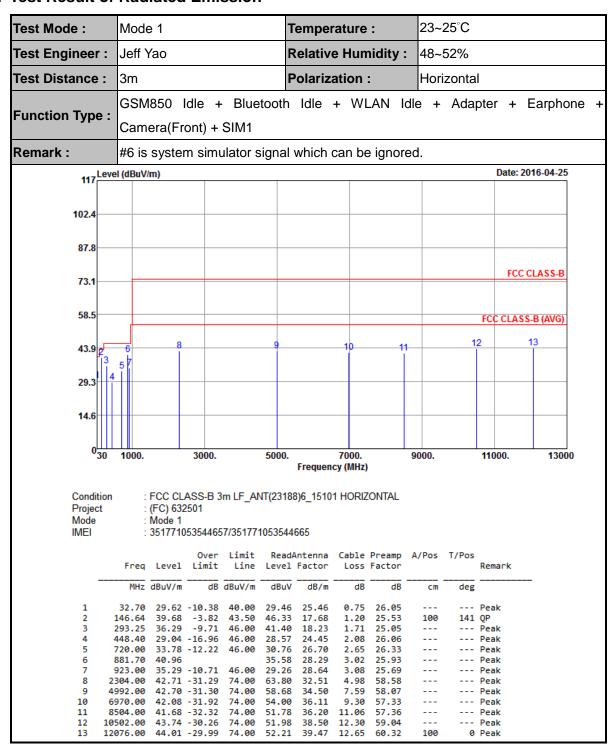


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3.2.5. Test Result of Radiated Emission



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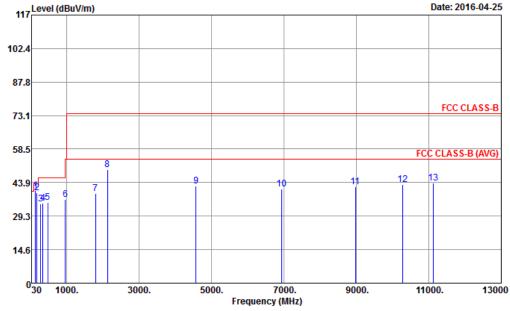
Test Mode :	Mode 1	ī	Temperature	:	23~25°C			
Test Engineer :	Jeff Yao	F	Relative Hun	nidity :	48~52%			
Test Distance :	3m	F	Polarization	:	Vertical			
Function Type :	GSM850 Idle - Camera(Front) +		Idle + Wi	LAN Idle	e + Ada _l	pter + Earphone +		
Remark: #6 is system simulator signal which can be ignored.								
117 Level	(dBuV/m)					Date: 2016-04-25		
102.4								
87.8								
73.1						FCC CLASS-B		
58.5						FCC CLASS-B (AVG)		
43.9	6 8 7	9	10	11	12	! 13		
29.3								
14.6								
030	1000. 3000.	5000.	7000. Frequency (MHz)		000.	11000. 13000		
Condition Project Mode IMEI	: (FC) 632501 : Mode 1	3m LF_ANT(2318) 57/351771053544		CAL				
	Over Freq Level Limit		Antenna Cable Factor Loss	Preamp A Factor	/Pos T/Pos	Remark		
	MHz dBuV/m dB	dBuV/m dBuV	dB/m dB	dB	cm deg			
2 3 1 4 4	33.24 39.00 -1.00 37.29 38.08 -1.92 46.37 39.92 -3.58 47.70 29.83 -16.17 660.50 31.80 -14.20	40.00 40.45 43.50 46.57 46.00 29.36	22.90 0.75 17.68 1.20 24.45 2.08	26.05 26.02 25.53 26.06 26.40				
6 8 7 9 8 23 9 49	881.70 41.33 125.10 35.46 -10.54 136.00 41.75 -32.25 144.00 43.87 -30.13	35.95 46.00 29.41 74.00 62.78 74.00 60.25	28.29 3.02 28.65 3.08 32.54 5.03 34.47 7.56	25.93 25.68 58.60 58.41	 100 0	Peak Peak Peak Peak		
11 85 12 104	22.00 40.98 -33.02 20.00 43.34 -30.66 34.00 43.65 -30.35 366.00 43.27 -30.73	74.00 53.45 74.00 51.96	36.22 11.06 38.45 12.26	59.02		Peak Peak Peak Peak		

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Report No.: FC632501

Test Mode :	Mode 4	Temperature :	23~25°C					
Test Engineer :	Jeff Yao	Relative Humidity :	48~52%					
Test Distance :	3m	Polarization :	Horizontal					
Function Type I	WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with							
Function Type :	Notebook) + Earphone + GPS Rx + FM Rx + SIM2							
Remark :	#8 is system simulator signa	al which can be ignore	d.					
117 Leve	(dBuV/m)	(dBuV/m)						



Condition : FCC CLASS-B 3m LF_ANT(23188)6_15101 HORIZONTAL

Project : (FC) 632501 Mode : Mode 4

: 351771053544657/351771053544665 IMEI

	Freq	Level	Over Limit			Antenna Factor					Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	143.13	40.29	-3.21	43.50	46.91	17.73	1.20	25.55	100	0	Peak
2	183.09	39.30	-4.20	43.50	47.07	16.07	1.50	25.34			Peak
3	286.23	34.47	-11.53	46.00	40.02	17.95	1.57	25.07			Peak
4	346.20	34.78	-11.22	46.00	38.07	20.16	1.95	25.40			Peak
5	479.90	35.35	-10.65	46.00	36.09	23.37	2.12	26.23			Peak
6	960.10	36.48	-17.52	54.00	29.73	29.01	3.15	25.41			Peak
7	1796.00	39.11	-34.89	74.00	62.81	30.36	4.46	58.52			Peak
8	2132.00	49.38			70.92	32.34	4.80	58.68			Peak
9	4574.00	42.51	-31.49	74.00	60.61	34.24	7.26	59.60			Peak
10	6932.00	40.92	-33.08	74.00	53.17	36.13	9.26	57.64			Peak
11	8978.00	41.93	-32.07	74.00	52.51	36.76	10.79	58.13			Peak
12	10278.00	42.91	-31.09	74.00	51.38	38.33	12.17	58.97			Peak
13	11116.00	43.64	-30.36	74.00	51.78	38.89	12.58	59.61	100	0	Peak

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#	
SPORTON LAB.	FCC Test Report

Test Mode :	Mode 4		Temperature :	23~25°C	
Test Engineer :	Jeff Yao		Relative Humidity :	48~52%	
Test Distance :	3m		Polarization :	Vertical	
Function Type :			uetooth Idle + WLAN I PS Rx + FM Rx + SIM		able (Data Link with
Remark :	•	m simulator sign	al which can be ignore	d.	
117 Leve	el (dBuV/m)				Date: 2016-04-25
102.4					
87.8					
73.1					FCC CLASS-B
58.5	7			F	CC CLASS-B (AVG)
43.9	56	8 9	10 1	1 12	13
29.3					
14.6					
030	1000.	3000. 500	0. 7000. Frequency (MHz)	9000. 11	1000. 13000
Condition Project Mode IMEI	: (FC) 632 : Mode 4	2501 053544657/3517710538	3188)6_15101 VERTICAL 544665		
	Freq Level	Limit Line Lev	adAntenna Cable Preamp el Factor Loss Factor		emark
	MHz dBuV/m		uV dB/m dB dB	cm deg	
2	143.13 35.26	-8.24 43.50 41.	70 26.60 0.75 26.07 88 17.73 1.20 25.55	Pe 100 0 Pe Pe	eak
4	479.90 30.87	-15.13 46.00 31.		Pe	eak
6	960.10 37.29	-9.92 46.00 32. -16.71 54.00 30.	54 29.01 3.15 25.41	Pe	eak
	132.00 48.76 882.00 42.33	70. -31.67 74.00 62.	30 32.34 4.80 58.68 82 33.01 5.67 59.17	Pe	
		-29.42 74.00 60. -32.77 74.00 56.		100 0 Pe	
11 8	672.00 43.62	-30.38 74.00 53.	89 36.40 10.97 57.64	Pe	eak
			73 38.41 12.23 59.01 56 39.03 12.58 59.67	Pe	

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz;Ma x 30dBm	Oct. 20, 2015	Apr. 21, 2016~ Apr. 22, 2016	Oct. 19, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103892	9kHz~30MHz	Jan. 12, 2016	Apr. 21, 2016~ Apr. 22, 2016	Jan. 11, 2017	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103912	9kHz~30MHz	Jan. 12, 2016	Apr. 21, 2016~ Apr. 22, 2016	Jan. 11, 2017	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Aug. 07, 2015	Apr. 21, 2016~ Apr. 22, 2016	Aug. 06, 2016	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 20, 2015	Apr. 21, 2016~ Apr. 22, 2016	Oct. 19, 2016	Conduction (CO01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz; Max 30dBm	Oct. 20, 2015	Apr. 25, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Oct. 20, 2015	Apr. 25, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	May 06, 2015	Apr. 25, 2016	May 05, 2016	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 11, 2016	Apr. 25, 2016	Jan. 10, 2017	Radiation (03CH02-SZ)
Amplifier	HP	8447F	3113A04622	9kHz~1300MHz / 30 dB	Aug. 07, 2015	Apr. 25, 2016	Aug. 06, 2016	Radiation (03CH02-SZ)
Amplifier	Agilent	8449B	3008A01023	1GHz~26.5GHz	Oct. 20, 2015	Apr. 25, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Apr. 25, 2016	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Apr. 25, 2016	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Apr. 25, 2016	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

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5. Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of	E O dB
Confidence of 95% (U = 2Uc(y))	5.0 dB

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