

Report No.: FC392412

# **FCC Test Report**

APPLICANT : CT Asia

**GSM & WCDMA Mobile Phone EQUIPMENT** 

BRAND NAME : BLU

MODEL NAME : Advance 4.5

FCC ID : YHLBLUADVANCE45

: FCC 47 CFR FCC Part 15 Subpart B STANDARD

CLASSIFICATION : Certification

The product was received on Sep. 24, 2013 and testing was completed on Oct. 16, 2013. 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: YHLBLUADVANCE45

: 1 of 21 Page Number Report Issued Date: Oct. 30, 2013

Testing Laboratory 2353

: Rev. 01 Report Version



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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC392412	Rev. 01	Initial issue of report	Oct. 30, 2013

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**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	7.84 dB at
					0.190 MHz
					Under limit
3.2	15.109	15.109 Radiated Emission	< 15.109 limits	PASS	1.07 dB at
3.2			< 15.109 littiitS		105.660 MHz
					for Quasi-Peak

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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

#### BEIJING BENYWAVE TECHNOLOGY CO., LTD.

NO.55 Jiachang 2 road, OPTO-Mechatronics Industrial Park, Tongzhou district, Beijing 101111

### 1.3. Feature of Equipment Under Test

	Product Feature
Equipment	GSM & WCDMA Mobile Phone
Brand Name	BLU
Model Name	Advance 4.5
FCC ID	YHLBLUADVANCE45
EUT supports Radios application	GSM/GPRS/WCDMA/HSPA/HSPA+(Downlink Only) WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth v3.0 + EDR/ Bluetooth v 4.0
HW Version	TBW8100_P1_001
SW Version	700010_9230_V000015
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.

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## 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 WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz 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 WCDMA Band V: 871.4 MHz ~ 891.6 MHz 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			
Antenna Type	WWAN : Fixed Internal Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna			
Type of Modulation	GSM: GMSK GPRS: GMSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+ :16QAM (Downlink Only) 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth v4.0+LE: GFSK Bluetooth v3.0+EDR: GFSK, π/4-DQPSK, 8-DPSK GPS: BPSK			

### 1.5. Modification of EUT

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

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#### 1.6. Test Site

Test Site	SPORTON INTERI	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						
Toot Site 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.

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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 C63.4-2003 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.

		Test Condition				
Item	EUT Configuration	EMI	EMI	EMI		
		AC	RE<1G	RE≥1G		
1.	Charging Mode (EUT with adapter)	$\boxtimes$	$\boxtimes$	Note 1		
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

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.

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Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM1
AC Conducted	1/2	<fig.1></fig.1>
Emission	2	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 <fig.2></fig.2>
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM1
Radiated	1/2	<fig.1></fig.1>
Emissions < 1GHz		Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 <fig.2></fig.2>
Radiated Emissions ≥ 1GHz	2	Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 <fig.2></fig.2>

#### Remark:

- 1. The worst case of AC is mode 2; only the test data of this mode is reported.
- 2. The worst case of RE < 1G is mode 2; only the test data of this mode is reported.
- 3. Link with Notebook means data application transferred mode between EUT and Notebook.

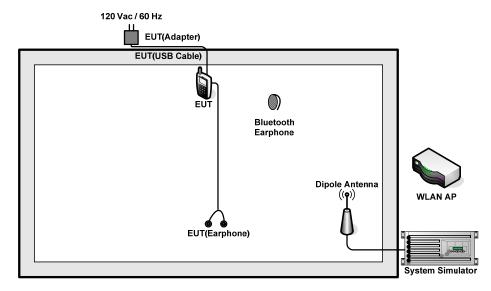
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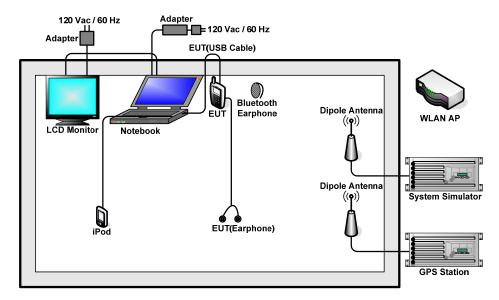


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## 2.2. Connection Diagram of Test System



<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	Agilent	E5515C	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	T&E	GS-50	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-612	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-Link	DIR-615	N/A	N/A	Unshielded, 1.8 m
5.	Bluetooth Earphone	Nokia	BH-108	N/A	N/A	N/A
6.	Notebook	DELL	P08S	FCC DoC	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
7.	Monitor	DELL	1707FPt	FCC DoC	Shielded, 1.2m	Unshielded, 1.8 m
8.	Monitor	DELL	IN1940MWB	FCC DoC	Shielded, 1.2m	Unshielded, 1.8 m
9.	iPod	Apple	MC525 ZP/A	FCC DoC	Shielded, 1.0m	N/A

### 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 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.

- 1. Execute the program, "Winthrax.exe" under WIN7 installed in notebook for files transfer with EUT via USB cable.
- 2. Turn on GPS function to make the EUT receive continuous signals from GPS station.
- 3. Turn on camera to capture images.

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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.

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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		

<sup>\*</sup>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.

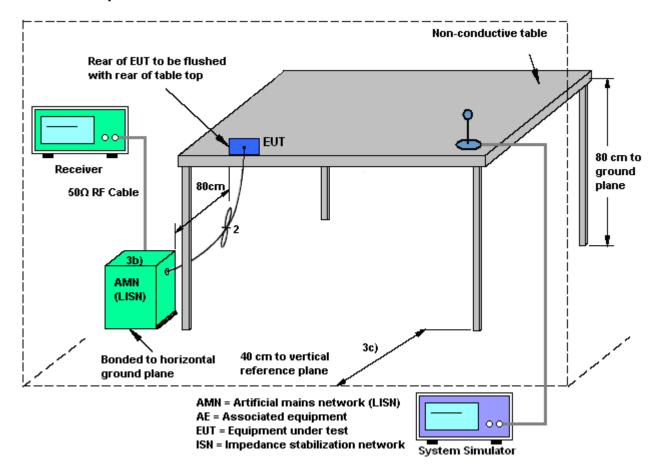
#### 3.1.3 Test Procedure

- 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.



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### 3.1.4 Test Setup

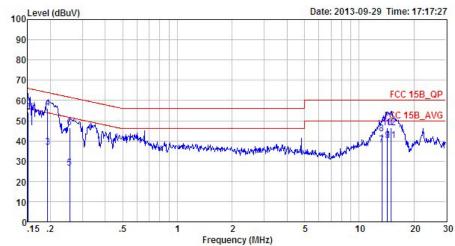


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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 2	Temperature :	<b>23~24</b> ℃		
Test Engineer :	Henry Chen	Relative Humidity :	49~50%		
Test Voltage :	120Vac / 60Hz	Phase :	Line		
Function Type	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with				
Function Type :	Notebook) + Earphone + GPS Rx + SIM1				
Data 2042 00 20 Terra 47.47.27					



Site : CO01-SZ

Condition: FCC 15B\_QP LISN\_L\_20130328 LINE Project : (FC) 392412 Mode : Mode 2

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	-	MHz	dBuV	dB	dBu∇	dBu∇	dB	dB	
1		0.15	33.52	-22.48	56.00	23.10	0.06	10.36	Average
2		0.15	54.42	-11.58	66.00	44.00	0.06	10.36	QP
3		0.19	36.75	-17.14	53.89	26.40	0.07	10.28	Average
4	*	0.19	56.05	-7.84	63.89	45.70	0.07	10.28	QP
5		0.25	26.41	-25.19	51.60	16.10	0.09	10.22	Average
6		0.25	46.41	-15.19	61.60	36.10	0.09	10.22	QP
7		13.34	37.84	-12.16	50.00	26.60	0.85	10.39	Average
8		13.34	43.54	-16.46	60.00	32.30	0.85	10.39	QP
9		14.29	40.30	-9.70	50.00	29.01	0.88	10.41	Average
10		14.29	46.50	-13.50	60.00	35.21	0.88	10.41	QP
11		14.91	40.13	-9.87	50.00	28.79	0.91	10.43	Average
12		14.91	46.63	-13.37	60.00	35.29	0.91	10.43	QP

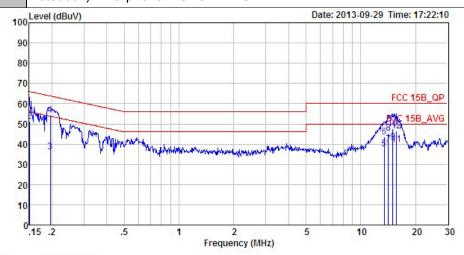
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**23~24**℃ Test Mode: Mode 2 Temperature: 49~50% Test Engineer: Henry Chen Relative Humidity: Phase: Test Voltage : 120Vac / 60Hz Neutral

WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + GPS Rx + SIM1



: C001-SZ

Condition: FCC 15B\_QP\_LISN\_N\_20130328 NEUTRAL Project : (FC) 392412

Mode : Mode 2

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	-	MHz	dBuV	dB	dBu∇	dBu∇	dB	dB	-
1		0.15	31.60	-24.40	56.00	21.20	0.04	10.36	Average
2		0.15	51.40	-14.60	66.00	41.00	0.04	10.36	QP
3		0.20	36.12	-17.68	53.80	25.80	0.04	10.28	Average
4		0.20	54.32	-9.48	63.80	44.00	0.04	10.28	QP
5		13.48	37.46	-12.54	50.00	26.60	0.47	10.39	Average
6		13.48	43.66	-16.34	60.00	32.80	0.47	10.39	QP
7		14.21	39.90	-10.10	50.00	29.00	0.49	10.41	Average
8		14.21	45.30	-14.70	60.00	34.40	0.49	10.41	QP
9	*	14.99	41.04	-8.96	50.00	30.10	0.51	10.43	Average
10		14.99	47.54	-12.46	60.00	36.60	0.51	10.43	QP
11		15.63	40.00	-10.00	50.00	29.00	0.56	10.44	Average
12		15.63	46.50	-13.50	60.00	35.50	0.56	10.44	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 (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 $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

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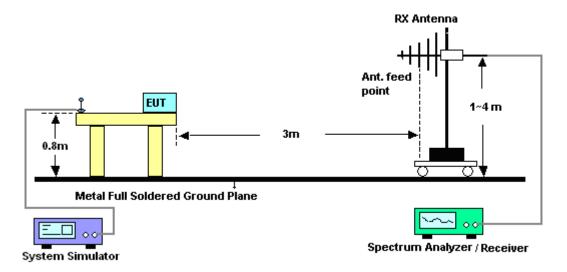
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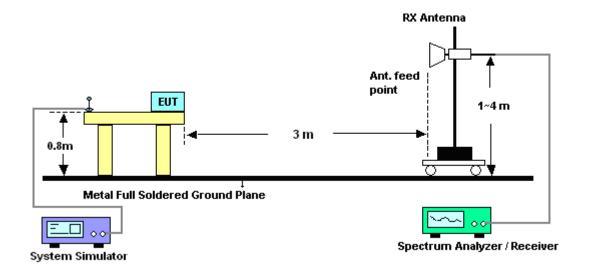
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### 3.2.4. Test Setup of Radiated Emission

#### For radiated emissions from 30MHz to 1GHz



#### For radiated emissions above 1GHz



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#### 3.2.5. Test Result of Radiated Emission

Test Mode:		Mod	le 2				Temp	eratur	e:	24	~25°C	;		
Test Engineer :		Leo	Liao				Relative Humidity :			: 48	48~49%			
Test Distanc	e:	3m				Polarization :			Но	Horizontal				
	,	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link w												
Function Typ	oe:	Notebook) + Earphone + GPS Rx + SIM1												
												D	ate: 2013-10-16	
	Level (d	IBuV/r	m)									De	ate: 2013-10-10	
110														
90		+												
													FCC CLASS-B	
70													-6dB	
												ECC (	CLASS-B (AVG)	
50												1000	-6dB	
	234	6												
30	5													
30														
10														
O.	30 10	000.		3000.		5000.	Frequen	7000.	1	9000.		11000	0. 1300	
Site		: 1	03CH01	-SZ			rrequen	Cy (milz)	,					
Condit Projec			FCC CL (FC) 392		m LF_Al	NT_1211	03 HORI	ZONTAL						
Mode	•		Mode 2	-712										
			1 1		Limit				Preamp	A/Pos	T/Pos	D	-1-	
			 dBuV/m		Line dBuV/m				Factor			Remar		
					•	dBuV		dB	dB	cm	deg			
1 Q 2 !	209	9.45	40.03	-3.47	43.50	59.21	9.40	1.72	30.65	136	269	QР		
					46.00 46.00				29.85 29.40			Peak OP		
3 P 4 !							20.08	2.99	29.04			Peak		

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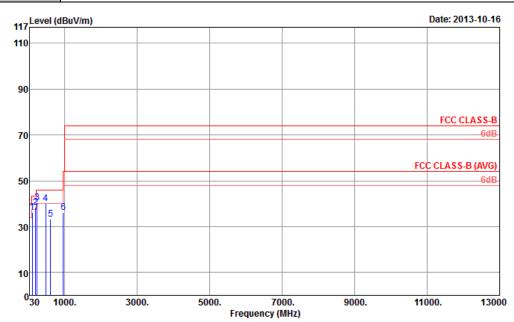


Test Mode: Mode 2 Temperature: 24~25°C

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

Test Distance: 3m Polarization: Vertical

Function Type: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1



Site : 03CH01-SZ

Condition : FCC CLASS-B 3m LF\_ANT\_121103 VERTICAL

Project : (FC) 392412 Mode : Mode 2

	Freq	Level				Antenna Factor			-	T/Pos	Remark
											KCIIIGI K
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	106.63	36.20	-7.30	43.50	53.61	11.93	1.30	30.64			Peak
2 P	195.87	38.56	-4.94	43.50	58.03	9.20	1.68	30.35	123	258	Peak
3 !	240.49	40.31	-5.69	46.00	56.79	11.90	1.82	30.20			Peak
4 !	480.08	40.07	-5.93	46.00	49.79	17.20	2.48	29.40			Peak
5	614.91	33.11	-12.89	46.00	40.41	19.08	2.80	29.18			Peak
6	960.23	36.25	-17.75	54.00	39.74	21.80	3.43	28.72			Peak

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## 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	Sep. 29, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 28, 2013	Sep. 29, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 28, 2013	Sep. 29, 2013	Mar. 27, 2014	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	N/A	Nov. 20, 2012	Sep. 29, 2013	Nov. 19, 2013	Conduction (CO01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	Apr. 04, 2013	Oct. 16, 2013	Apr. 03, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Nov. 12, 2012	Oct. 16, 2013	Nov. 11, 2013	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30MHz~2GHz	Nov. 03, 2012	Oct. 16, 2013	Nov. 02, 2013	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz GAIN 30db	Mar. 28, 2013	Oct. 16, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 28, 2013	Oct. 16, 2013	Mar. 27, 2014	Radiation (03CH01-SZ)
SHF-EHF-Horn	Schwarzbeck	BBHA9170	BBHA9170249	14GHz~40GHz	Nov. 23, 2012	Oct. 16, 2013	Nov. 22, 2013	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0 ~ 360 degree	N/A	Oct. 16, 2013	N/A	Radiation (03CH01-SZ)
Antenna Mast	EM electronics	EM 1000	N/A	1 m ~ 4 m	N/A	Oct. 16, 2013	N/A	Radiation (03CH01-SZ)

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### FCC Test Report

## 5. Uncertainty of Evaluation

#### <u>Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)</u>

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

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#### <u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.54
Confidence of 35% (0 = 200(y))	

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

Measuring Uncertainty for a Level of	
Confidence of 95% (U = 2Uc(y))	4.72
20111acrice 01 00 /0 (3 200(y))	

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