FCC Test Report

APPLICANT : Brightstar Corporation

EQUIPMENT: Mobile phone

BRAND NAME : Avvio

MODEL NAME : Avvio 780S, Avvio 780

FCC ID : WVBA780X

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Jun. 27, 2014 and testing was completed on Aug. 27, 2014. 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 C63.4-2003 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: Louis Wu / Manager

Lunis 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.

FCC ID : WVBA780X

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Testing Laboratory 2353

Report No.: FC462704

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC462704	Rev. 01	Initial issue of report	Oct. 13, 2014

FCC ID: WVBA780X

Report No. : FC462704

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	12.48 dB at
					2.04 MHz
					Under limit
2.0	15 100	Dadiated Emission	< 15 100 limita	DACC	1.33 dB at
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	37.830 MHz for
					Quasi-Peak

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1. General Description

1.1. Applicant

Brightstar Corporation

9725 NW 117th Ave., Miami, Florida, FL 33178, United States

1.2. Manufacturer

Bright Star Corp

9725 NW 117th Avenue, #300 Miami 33178, USA

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	Mobile phone
Brand Name	Avvio
Model Name	Avvio 780S,Avvio 780
FCC ID	WVBA780X
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/ HSPA+ (Downlink Only)/ WLAN 2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0 + EDR/Bluetooth v4.0 LE
HW Version	V2.0
SW Version	Avvio_780_Claro_Colombia_SW_01
EUT Stage	Production Unit

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Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are two different types of EUT. They are single SIM card mobile (Model Name: Avvio 780) and dual SIM card mobile (Model Name: Avvio 780S). The others are the same including circuit design, PCB board, structure and all components. It is special to declare. After pre-scan two types of EUT, we found test result of the sample that dual SIM (Model Name: Avvio 780S) was the worst, so we chose dual SIM card mobile to perform all test.

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1.4. Product Specification subjective to this standard

Product Specif	ication 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: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS:PIFA Antenna				
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK 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 (1Mbps): GFSK Bluetooth (2Mbps): \pi /4-DQPSK Bluetooth (3Mbps): 8-DPSK GPS: BPSK				

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1.5. Modification of EUT

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

1.6. Test 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				
Toot Site No	Sporton	Site No.	FCC Registration No.		
Test Site No.	CO01-SZ	03CH01-SZ	831040		

1.7. Applicable Standards

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

- FCC 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.

		Te	_	on
Item	EUT Configuration	EMI AC		EMI RE≥1G
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	Note 1
2.	Data application transferred mode (EUT connected with notebook)			\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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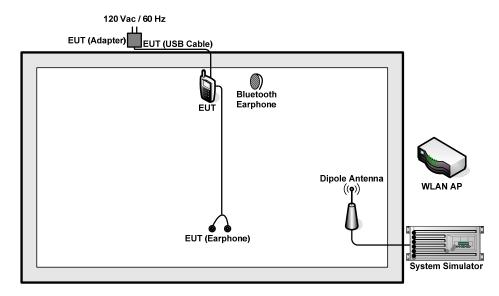
Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Charging from Adapter) + Camera + SIM1 <fig.1></fig.1>
AC Conducted Emission	1/2	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Charging from Adapter) + MPEG4 + SIM1 <fig.1></fig.1>
		Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Data Link with Notebook) + GPS Rx + SIM1 <fig.2></fig.2>
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Charging from Adapter) + Camera + SIM1 <fig.1></fig.1>
Radiated Emissions < 1GHz	1/2	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Charging from Adapter) + MPEG4 + SIM1 <fig.1></fig.1>
		Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Data Link with Notebook) + GPS Rx + SIM1 <fig.2></fig.2>
Radiated Emissions ≥ 1GHz	2	Mode 1: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Data Link with Notebook) + GPS Rx + SIM1 <fig.2></fig.2>

Remark:

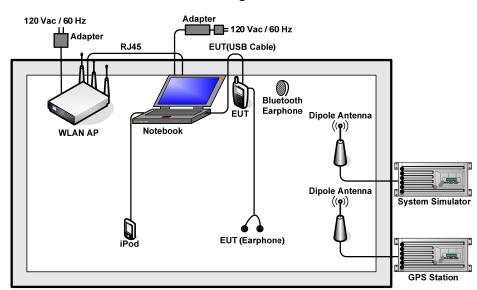
- 1. The worst case of AC is mode 2, and the USB Link mode of AC is mode 3, the test data of these modes are reported.
- 2. The worst case of RE < 1G is mode 3; only the test data of this mode was reported.
- 3. Link with Notebook means data application transferred mode between EUT and Notebook.

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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	R&S	CMW 500	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
3.	WLAN AP	D-link	DIR-615	N/A	N/A	Unshielded,1.8m
4.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,2.7m
5.	WLAN AP	D-link	DIR-628	KA2DIR628A2	N/A	Unshielded,1.8m
6.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
7.	Base Station	Agilent	8960	N/A	N/A	Unshielded, 1.8 m
8.	Notebook	Lenovo	G480	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8 m
9.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8 m
10.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
11.	iPod nano 8GB	Apple	MC690 ZP/A	FCC DoC	Shielded, 1.2 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 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" under WIN7 installed in notebook for files transfer with EUT via USB cable.
- 2. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.
- 3. Execute "Windows Media Player" to play MPEG4 files.
- 4. Turn on camera to capture images.

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3. Test Result

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

^{*}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.

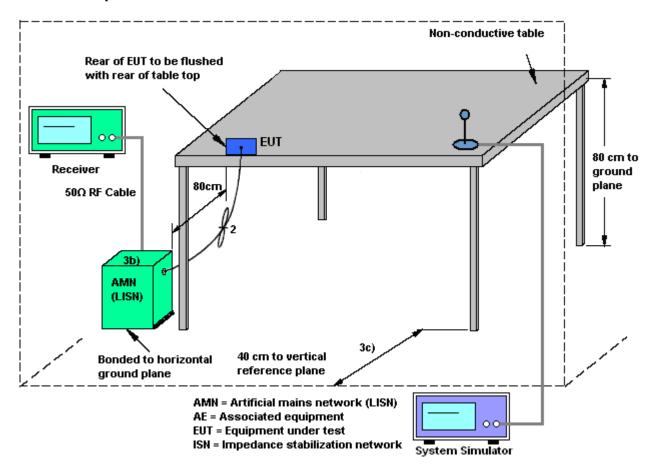
3.1.3 Test Procedure

- 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.
- The FCC states that a 50 ohm, 50 microhenry LISN should be used. 5.
- 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 = 8. 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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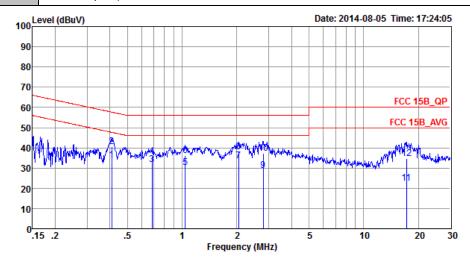
3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 2	Temperature :	21~22℃		
Test Engineer :	Jack Tian	Relative Humidity :	41~42%		
Test Voltage :	120Vac / 60Hz	Phase :	Line		
Function Type	GSM1900 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Charging				
Function Type :	from Adapter) + MPEG4 + S	IM1			



Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20140304 LINE

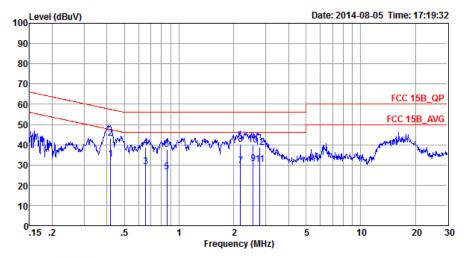
Project : (FC)462704 Mode : Mode 2

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu₹	dB	dB	
1	0.41	33.95	-13.69	47.64	23.50	0.28	10.17	Average
2	0.41	40.65	-16.99	57.64	30.20	0.28	10.17	QP
3	0.68	31.74	-14.26	46.00	21.40	0.19	10.15	Average
4	0.68	35.64	-20.36	56.00	25.30	0.19	10.15	QP
5	1.04	30.31	-15.69	46.00	19.90	0.26	10.15	Average
6	1.04	36.11	-19.89	56.00	25.70	0.26	10.15	QP
7 *	2.04	33.52	-12.48	46.00	23.10	0.23	10.19	Average
8	2.04	38.02	-17.98	56.00	27.60	0.23	10.19	QP
9	2.79	28.70	-17.30	46.00	18.20	0.29	10.21	Average
10	2.79	37.10	-18.90	56.00	26.60	0.29	10.21	QP
11	17.20	22.53	-27.47	50.00	10.39	1.56	10.58	Average
12	17.20	34.73	-25.27	60.00	22.59	1.56	10.58	QP

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Test Mode :	Mode 2	Temperature :	21~22 ℃				
Test Engineer :	Jack Tian	Relative Humidity :	41~42%				
Test Voltage :	120Vac / 60Hz	Phase :	Neutral				
Eupation Type	GSM1900 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Chargir						
Function Type :	from Adapter) + MPEG4 + SIM1						



Site : CO01-SZ

Condition: FCC 15B_QP LISN_N_20140304 NEUTRAL

Project : (FC)462704 Mode : Mode 2

				Over	Limit	Read	LISN	Cable	
		Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	_	MHz	dBu₹	dB	dBu∇	dBu∀	dB	dB	
1		0.42	32.86	-14.60	47.46	22.30	0.39	10.17	Average
2	*	0.42	43.26	-14.20	57.46	32.70	0.39	10.17	QP
3		0.65	29.13	-16.87	46.00	18.70	0.28	10.15	Average
4		0.65	38.73	-17.27	56.00	28.30	0.28	10.15	QP
5		0.86	26.65	-19.35	46.00	16.20	0.30	10.15	Average
6		0.86	37.65	-18.35	56.00	27.20	0.30	10.15	QP
7		2.18	29.68	-16.32	46.00	19.11	0.38	10.19	Average
8		2.18	40.18	-15.82	56.00	29.61	0.38	10.19	QP
9		2.55	30.50	-15.50	46.00	19.90	0.40	10.20	Average
10		2.55	39.70	-16.30	56.00	29.10	0.40	10.20	QP
11		2.78	30.42	-15.58	46.00	19.80	0.41	10.21	Average
12		2.78	38.92	-17.08	56.00	28.30	0.41	10.21	OP

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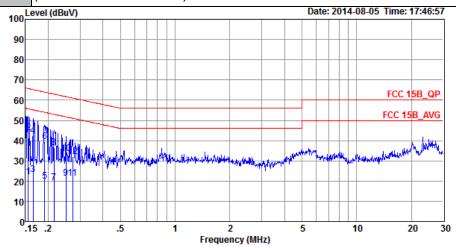


 Test Mode :
 Mode 3
 Temperature :
 21~22℃

 Test Engineer :
 Jack Tian
 Relative Humidity :
 41~42%

 Test Voltage :
 120Vac / 60Hz
 Phase :
 Line

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



Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20140304 LINE

Project : (FC)462704 Mode : Mode 3

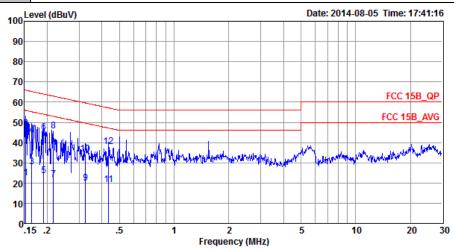
			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBuV	dBuV	dB	dB	
	11112	abar	u.	uDu.	aba.	42	u.b	
1	0.16	22.07	-33.62	55.69	11.50	0.22	10.35	Average
2 *	0.16	43.77	-21.92	65.69	33.20	0.22	10.35	QP
3	0.17	23.36	-31.85	55.21	12.80	0.22	10.34	Average
4	0.17	42.36	-22.85	65.21	31.80	0.22	10.34	QP
5	0.19	19.92	-34.06	53.98	9.40	0.22	10.30	Average
6	0.19	39.32	-24.66	63.98	28.80	0.22	10.30	QP
7	0.22	19.10	-33.91	53.01	8.59	0.23	10.28	Average
8	0.22	36.70	-26.31	63.01	26.19	0.23	10.28	QP
9	0.25	21.48	-30.25	51.73	11.00	0.24	10.24	Average
10	0.25	33.68	-28.05	61.73	23.20	0.24	10.24	QP
11	0.27	21.47	-29.56	51.03	11.00	0.25	10.22	Average
12	0.27	32.17	-28.86	61.03	21.70	0.25	10.22	QP

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Test Mode :	Mode 3	Temperature :	21~22℃
Test Engineer :	Jack Tian	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WCDMA Band V Idle + Blu	Idle + Earphone + USB Cable	

(Data Link with Notebook) + GPS Rx + SIM1



: CO01-SZ

Condition: FCC 15B QP LISN N 20140304 NEUTRAL

Project : (FC)462704 Mode : Mode 3

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∇	dB	dBu∇	dBuV	dB	dB	
1	0.15	22.69	-33.18	55.87	12.00	0.33	10.36	Average
2	0.15	46.79	-19.08	65.87	36.10	0.33	10.36	QP
3	0.16	27.87	-27.38	55.25	17.20	0.33	10.34	Average
4	0.16	43.47	-21.78	65.25	32.80	0.33	10.34	QP
5	0.19	23.73	-30.25	53.98	13.11	0.32	10.30	Average
6	0.19	45.13	-18.85	63.98	34.51	0.32	10.30	QP
7	0.22	21.90	-31.06	52.96	11.29	0.33	10.28	Average
8 *	0.22	45.90	-17.06	62.96	35.29	0.33	10.28	QP
9	0.33	19.96	-29.61	49.57	9.40	0.37	10.19	Average
10	0.33	34.46	-25.11	59.57	23.90	0.37	10.19	QP
11	0.44	19.26	-27.89	47.15	8.70	0.40	10.16	Average
12	0.44	38.06	-19.09	57.15	27.50	0.40	10.16	OP

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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:

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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 is a Bi-Log antenna and its 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.
- 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.

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- 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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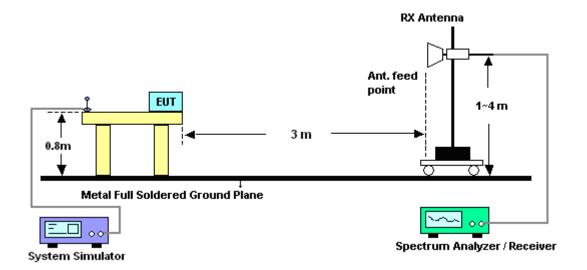
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

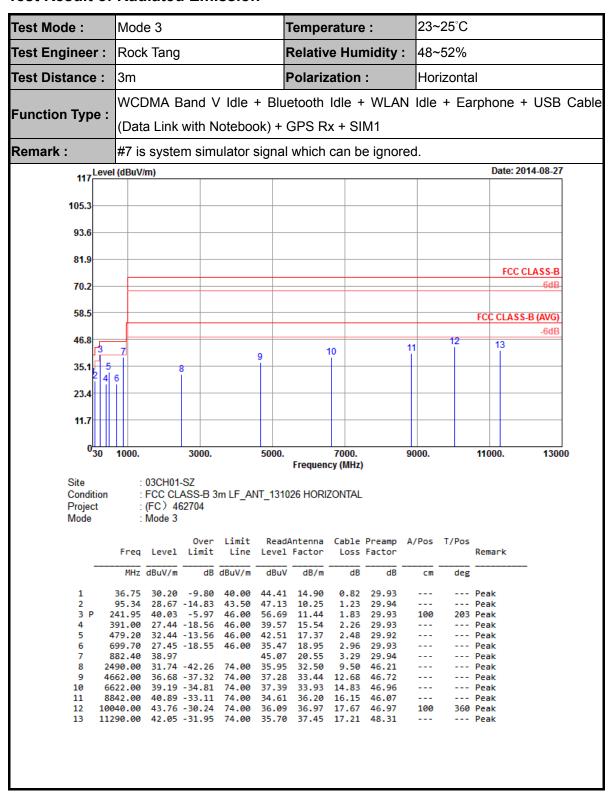


For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission



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Test Mode :	Mode 3		Temp	erature	:	23~25°C		
Test Engineer :	Rock Tang		Relat	ive Hun	nidity:	48~52%		
Test Distance :	3m		Polar	rization	:	Vertical		
Function Type :		and V Idle + with Noteboo				Idle + Ea	rphone + USE	3 Cab
Remark :	#7 is syste	m simulator s	ignal whic	h can be	e ignored	d.		
117 Level	(dBuV/m)					1	Date: 2014-08-2	7
105.3								
93.6								
81.9								
							FCC CLASS-E	-
70.2							OUE	
58.5							FCC CLASS-B (AVG	7
46.8			10)	11	12	13	_
35.1	7 8							
23.4			+					
11.7			+					
030	1000.	3000.	5000.	7000. ency (MHz)	90	000.	11000. 130	000
Site Condition Project Mode	: 03CH01- : FCC CL/ : (FC) 46 : Mode 3	ASS-B 3m LF_AN	T_131026 VE	RTICAL	Preamn A	/Pos T/Pos		
	Freq Level		Level Facto		Factor	1,103	Remark	
	MHz dBuV/m	dB dBuV/m	dBuV dB/		dB	cm deg		
2 P 3 2 4 3 5 4 6 7 7 8 8 24 9 49 10 61	44.85 35.64 40.33 32.80 79.90 31.25 15.10 28.11 83.10 35.67 10.00 31.97 88.00 36.80 42.00 39.72 54.00 41.59	-1.33 40.00 -4.36 40.00 -13.20 46.00 -21.18 46.00 -14.75 46.00 -17.89 46.00 -42.03 74.00 -37.20 74.00 -34.28 74.00 -32.41 74.00 -29.77 74.00	54.68 10.0 49.56 11.3 36.60 15.8 41.29 17.4 35.90 19.1 41.77 20.5 36.78 32.0 35.75 34.2 36.37 34.0 35.28 36.2	00 0.89 00 0.89 01 1.82 03 2.29 04 2.48 05 3.29 07 9.34 00 12.98 00 14.18 01 15.	29.93 29.93 29.92 29.93 29.94 46.22 46.13 44.83 46.06		QP Peak Peak Peak Peak Peak Peak Peak Pea	

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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	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Aug. 27, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY522601 85	20Hz~26.5GHz	May 26, 2014	Aug. 27, 2014	May 25, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	23188	30MHz~2GHz	Oct. 26, 2013	Aug. 27, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Aug. 27, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Feb. 21, 2014	Aug. 27, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 08, 2014	Aug. 27, 2014	May 07, 2015	Radiation (03CH01-SZ)
AC Source(AVR)	Chroma	61601	616010001 985	100Vac~250Vac	Mar. 25, 2014	Aug. 27, 2014	Mar. 24, 2015	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Aug. 27, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Aug. 27, 2014	NCR	Radiation (03CH01-SZ)
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Aug. 05, 2014	Feb. 20, 2015	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 04, 2014	Aug. 05, 2014	Mar. 03, 2015	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 04, 2014	Aug. 05, 2014	Mar. 03, 2015	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Dec. 17, 2013	Aug. 05, 2014	Dec. 16, 2014	Conduction (CO01-SZ)

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5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	2.2
Confidence of 95% (U = 2Uc(y))	2.3

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

Measuring Uncertainty for a Level of	2.0
Confidence of 95% (U = 2Uc(y))	3.9

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