



# FCC TEST REPORT (PART 22)

**REPORT NO.:** RF130401N026-2

MODEL NO.: Avvio Pad

FCC ID: WVBA1000

**RECEIVED:** Apr. 01, 2013

**TESTED:** Apr. 01, 2013 ~ Apr. 12, 2013

**ISSUED:** Apr.13, 2013

**APPLICANT:** Brightstar Corporation

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ISSUED BY: Bureau Veritas Shenzhen Co., Ltd.

Dongguan Branch

LAB ADDRESS: No. 34, Chenwulu Section, Guantai Road, Houjie

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**TEST LOCATION:** No. 34, Chenwulu Section, Guantai Road, Houjie

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# **TABLE OF CONTENTS**

RELEASE CONTROL RECORD	4
1 CERTIFICATION	
2 SUMMARY OF TEST RESULTS	6
2.1 MEASUREMENT UNCERTAINTY	6
3 GENERAL INFORMATION	
3.1 GENERAL DESCRIPTION OF EUT	8
3.3 DESCRIPTION OF SUPPORT UNITS	9
3.4 TEST ITEM AND TEST CONFIGURATION	10
3.5 EUT OPERATING CONDITIONS	.11
3.6 GENERAL DESCRIPTION OF APPLIED STANDARDS	.11
4 TEST TYPES AND RESULTS	12
4.1 OUTPUT POWER MEASUREMENT	12
4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT	12
4.1.2 TEST PROCEDURES	12
4.1.3 TEST SETUP	13
4.1.4 TEST RESULTS	
4.2 FREQUENCY STABILITY MEASUREMENT	16
4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT	16
4.2.2 TEST PROCEDURE	16
4.2.3 TEST SETUP	16
4.2.4 TEST RESULTS	17
4.3 OCCUPIED BANDWIDTH MEASUREMENT	18
4.3.1 TEST PROCEDURES	18
4.3.2 TEST SETUP	18
4.3.3 TEST RESULTS	
4.4 BAND EDGE MEASUREMENT	20
4.4.1 LIMITS OF BAND EDGE MEASUREMENT	20
4.4.2 TEST SETUP	
4.4.3 TEST PROCEDURES	20
4.4.4 TEST RESULTS	21
4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	22
4.5.2 TEST PROCEDURE	22
4.5.3 TEST SETUP	
4.6 RADIATED EMISSION MEASUREMENT	25
4.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT	25
4.6.2 TEST PROCEDURES	
4.6.3 DEVIATION FROM TEST STANDARD	
4.6.4 TEST SETUP	26

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4.0	6.5 TEST RESULTS	27
5	PHOTOGRAPHS OF THE TEST CONFIGURATION	29
6	INFORMATION ON THE TESTING LABORATORIES	30
7	APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING	
	CHANGES TO THE EUT BY THE LAB	31

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Page 3 of 31

Tel: +86 769 8593 5656



## **RELEASE CONTROL RECORD**

ISSUE NO.	ISSUE NO. REASON FOR CHANGE	
RF130401N026-2	Original release	Apr. 13, 2013

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Page 4 of 31

Report Version 1

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#### 1 CERTIFICATION

**PRODUCT:** Avvio PAD

MODEL: Avvio Pad

**BRAND:** Avvio

**APPLICANT:** Brightstar Corporation

**TESTED:** Apr. 01, 2013 ~ Apr. 12, 2013

**TEST SAMPLE:** Production Unit

STANDARDS: FCC PART 22, Subpart H

The above equipment (model: Avvio Pad) has been tested by **Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : , DATE : Apr. 13, 2013

Kent Liu / Project Engineer

APPROVED BY : , DATE : Apr. 13, 2013

Sam Tung / Technical Manager

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#### 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2					
STANDARD SECTION TEST TYPE RE		RESULT	REMARK		
2.1046 22.913 (a)	Effective Radiated Power	PASS	Meet the requirement of limit.		
2.1055 22.355 Frequency Stability		PASS	Meet the requirement of limit.		
2.1049	2.1049 Occupied Bandwidth		Meet the requirement of limit.		
22.917 Band Edge Measurements		PASS	Meet the requirement of limit.		
2.1051 22.917	Conducted Spurious Emissions	PASS	Meet the requirement of limit.		
2.1053 22.917	Radiated Spurious Emissions	PASS	Meet the requirement of limit.		

#### 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.94dB
	30MHz ~ 1000MHz	3.6419dB
Radiated emissions	1GHz ~ 18GHz	2.2dB
	18GHz ~ 40GHz	1.94dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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#### 2.2 **TEST SITE AND INSTRUMENTS**

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent	E4446A	MY46180622	May 02, 12	May 01, 13
Test Receiver ROHDE & SCHWARZ	ESVD	841431/004	May 15,12	May 14,13
Bilog Antenna TESEQ	CBL 6111D	27089	July 16,12	July 15,13
Horn Antenna EMCO	3117	00062558	Oct.18,12	Oct.17,13
10m Semi-anechoic Chamber ETS-LINDGREN	21.4m*12.1m*8.8m	NSEMC006	Mar. 24,13	Mar. 23,14
RF Cable IMRO	IMRO-400	10m Cable 1#10m	May 16,12	May 15,13
RF Cable IMRO	IMRO-400	10m Cable 2#3m	May 16,12	May 15,13
Signal Amplifier EMCI	EMC330	980095	Nov 02,12	Nov 01,13
Signal Amplifier HP	8449B	3008A00409	May 31,12	May 30,13
RF Cable DRAKA	M06/25-RG102	10m Cable 2#	May 16,12	May 15,13
Spectrum Analyzer Agilent	E7405A	MY45118807	May 15,12	May 14,13
Digital Multimeter FLUKE	15B	A1220010DG	Oct .31,12	Oct. 30,13
Power Meter Anritsu	ML2495A	1139001	Nov. 05,12	Nov. 04,13
Universal Radio Communication Tester Rohde & Schwarz	CMU 200	123259	Apr. 16,12	Apr. 15,13
Test software ADT	ADT_Radiated_V7. 6.15	N/A	N/A	N/A

- NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA.
  - 2. The test was performed in Dongguan Chamber 10m.
  - 3. The horn antenna are used only for the measurement of emission frequency above 1GHz if tested.

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### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Avvio PAD	
MODEL NO.	Avvio Pad	
HW Version	M718A_V1.2	
SW Version	M718A_77_APAD_PRV01.01	
POWER SUPPLY	5.0Vdc (adapter or host equipment) 3.7Vdc (battery)	
MODULATION TYPE	GSM, GPRS: GMSK	
WODULATION TYPE	WCDMA: BPSK	
FREQUENCY RANGE	<b>GSM, GPRS:</b> 824.2MHz ~ 848.8MHz	
TREGUENCT RANGE	<b>WCDMA:</b> 826.4MHz ~ 846.6MHz	
MAX. ERP POWER	GSM: 0.76 Watts	
WAX. ERI TOWER	WCDMA: 0.2 Watts	
POWER CLASS	4	
ANTENNA TYPE	Fixed Internal antenna with -3 dBi gain	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	USB Cable: Unshielded, Detachable, 0.8m	
CABLE SUFFLIED	Earphone Cable: Unshielded, Detachable,1.2m	

#### NOTE:

1. There are WLAN, Bluetooth, GSM, WCDMA technology used for the EUT

2. The EUT was powered by the following adapter:

ADAPTER	ADAPTER				
BRAND:	huoniu				
MODEL:	HNB050150U				
INPUT:	AC 100-240V, 50/60Hz, 0.35A				
OUTPUT:	DC 5V, 1.5A				
DC LINE:	N/A				

3. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

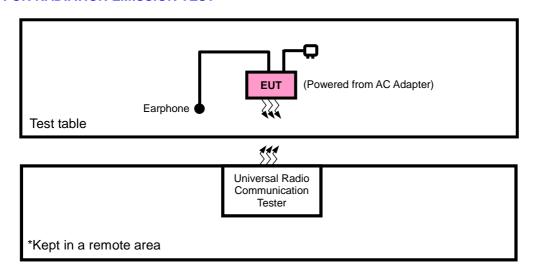
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#### 3.2 CONFIGURATION OF SYSTEM UNDER TEST

#### FOR RADIATION EMISSION TEST



#### 3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	N/A				

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

NOTE: All power cords of the above support units are non shielded (1.8m).

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#### 3.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports.

The worst case was found when positioned on X-axis for ERP and radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION	
Α	EUT + Adapter + Earphone with GSM link	
В	EUT + Battery + Earphone with GSM link	
С	EUT + USB Charger + Earphone with GSM	

#### **GSM MODE**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
В	ERP	128 to 251	128, 190, 251	GSM
В	FREQUENCY STABILITY	128 to 251	190	GSM
В	OCCUPIED BANDWIDTH	128 to 251	128, 190, 251	GSM, GPRS
В	BAND EDGE	128 to 251	128, 251	GSM, GPRS
A,C	CONDCUDETED EMISSION	128 to 251	128, 190, 251	GSM
A,C	RADIATED EMISSION	128 to 251	190	GSM

#### **WCDMA MODE**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
В	ERP	4132 to 4233	4132, 4182, 4233	WCDMA
В	FREQUENCY STABILITY	4132 to 4233	4182	WCDMA
В	OCCUPIED BANDWIDTH	4132 to 4233	4132, 4182, 4233	WCDMA
В	BAND EDGE	4132 to 4233	4132, 4233	WCDMA
A,C	CONDCUDETED EMISSION	4132 to 4233	4132, 4182, 4233	WCDMA
A,C	RADIATED EMISSION	4132 to 4233	4182	WCDMA

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#### **TEST CONDITION:**

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	21deg. C, 62%RH	3.7Vdc from Battery	Venless Long
FREQUENCY STABILITY	21deg. C, 62%RH	3.7Vdc from Battery	Venless Long
OCCUPIED BANDWIDTH	21deg. C, 62%RH	3.7Vdc from Battery	Venless Long
BAND EDGE	21deg. C, 62%RH	3.7Vdc from Battery	Venless Long
CONDCUDETED EMISSION	21deg. C, 62%RH	5Vdc from adapter	Venless Long
RADIATED EMISSION	25deg. C, 60%RH	5Vdc from adapter	Venless Long

#### 3.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

#### 3.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2 FCC 47 CFR Part 22 ANSI/TIA/EIA-603-C 2004

**NOTE:** All test items have been performed and recorded as per the above standards.

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Page 11 of 31

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#### 4 TEST TYPES AND RESULTS

#### 4.1 OUTPUT POWER MEASUREMENT

#### 4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile / Portable station are limited to 7 watts e.r.p.

#### 4.1.2 TEST PROCEDURES

#### **EIRP / ERP MEASUREMENT:**

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM, GPRS and 5MHz for WCDMA mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G
- d. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power 2.15dBi.

#### CONDUCTED POWER MEASUREMENT:

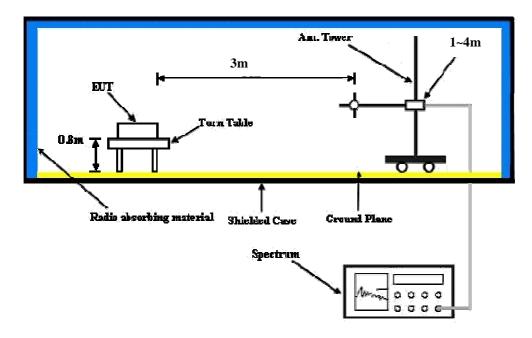
The EUT was set up for the maximum power with GSM, GPRS & WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

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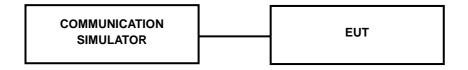
#### 4.1.3 TEST SETUP

#### **EIRP / ERP MEASUREMENT:**



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### **CONDUCTED POWER MEASUREMENT:**



For the actual test configuration, please refer to the attached file (Test Setup Photo).

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## 4.1.4 TEST RESULTS

### **CONDUCTED OUTPUT POWER (dBm)**

Band		GSM850			
Channel	128 190 251				
Frequency (MHz)	824.2	836.4	848.8		
GSM (1 Uplink)	32.88	32.90	32.92		
GPRS 8 (1 Uplink)	32.86	32.89	32.89		
GPRS 10 (2 Uplink)	31.91	31.94	31.95		
GPRS 11 (3 Uplink)	30.15	30.19	30.21		
GPRS 12 (4 Uplink)	29.35	29.38	29.42		

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	21.22	21.37	21.31
HSDPA Subtest-1	21.15	21.30	21.25
HSDPA Subtest-2	21.12	21.29	21.21
HSDPA Subtest-3	20.62	20.75	20.73
HSDPA Subtest-4	20.61	20.78	20.75
HSUPA Subtest-1	19.15	19.35	19.20
HSUPA Subtest-2	17.14	17.32	17.19
HSUPA Subtest-3	18.14	18.32	18.16
HSUPA Subtest-4	17.12	17.31	17.13
HSUPA Subtest-5	19.12	19.32	19.17

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Page 14 of 31

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### **ERP POWER (dBm)**

GSM 850 (Horizontal)					
CHANNEL NO.	FREQUENCY SPA Reading		CORRECTION	ОИТРИТ	POWER
CHANNEL NO.	(MHz)	(dBm)	FACTOR (dB)	dBm	Watt
128	824.2	-16.98	32.91	13.78	0.02
189	836.4	-16.53	33.7	15.02	0.03
251	848.8	-17.22	34.14	14.77	0.03
		GSM 850 (V	ertical)		
CHANNEL NO.	FREQUENCY	SPA Reading	CORRECTION	OUTPUT	POWER
CHANNEL NO.	(MHz)	(dBm)	FACTOR (dB)	dBm	Watt
128	824.2	-4.32	35.18	28.71	0.74
189	836.4	-4.94	35.27	28.18	0.66
251	848.8	-4.34	35.27	28.78	0.76

WCDMA Band V_RMC 12.2K (Horizontal)					
CHANNEL NO.	FREQUENCY SPA Reading	CORRECTION	OUTPUT	POWER	
CHANNEL NO.	(MHz)	(dBm)	FACTOR (dB)	dBm	Watt
4132	826.4	-21.79	33.11	9.17	0.01
4182	836.4	-22.28	33.7	9.27	0.01
4233	846.6	-22.84	34.13	9.14	0.01
	wo	DMA Band V_RMC	12.2K (Vertical)		
CHANNEL NO.	FREQUENCY	SPA Reading	CORRECTION	OUTPUT	POWER
CHANNEL NO.	(MHz)	(dBm)	FACTOR (dB)	dBm	Watt
4132	826.4	-10.12	35.28	23.01	0.20
4182	836.4	-10.43	35.27	22.69	0.19
4233	846.6	-11.31	35.37	21.91	0.16

REMARKS: 1. ERP Output Power (dBm) = SPA Reading (dBm) + Correction Factor (dB) -2.15 (dB)

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Page 15 of 31

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<sup>2.</sup> Correction factor (dB) = Free Space Loss + Antenna Factor + Cable Loss.



#### 4.2 FREQUENCY STABILITY MEASUREMENT

#### 4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

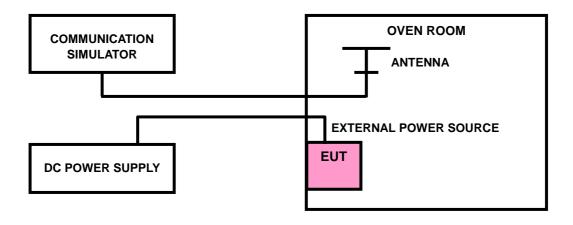
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

#### 4.2.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5^{\circ}$ C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

#### 4.2.3 TEST SETUP



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#### 4.2.4 TEST RESULTS

#### FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	FREQUENCY	LIMIT (ppm)	
VOLTAGE (VOIIS)	GSM		сиин (ррш)
4.2	0.02	0.02	2.5
3.6	0.01	0.02	2.5

**NOTE:** The applicant defined the normal working voltage of the battery is from 3.6Vdc to 4.2Vdc.

#### FREQUENCY ERROR vs. TEMPERATURE.

TEMP. (℃)	FREQUENCY	LIMIT (ppm)	
TEMT: (C)	GSM		LIMIT (ppiii)
55	0.02	0.02	2.5
50	0.02	0.02	2.5
40	0.01	0.01	2.5
30	0.01	0.01	2.5
20	0.01	0.02	2.5
10	0.02	0.02	2.5
0	0.01	0.02	2.5
-10	0.02	0.01	2.5
-20	0.01	0.01	2.5

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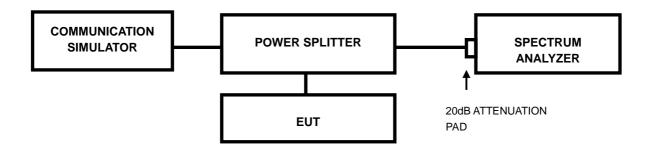


#### 4.3 OCCUPIED BANDWIDTH MEASUREMENT

#### 4.3.1 TEST PROCEDURES

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

#### 4.3.2 TEST SETUP



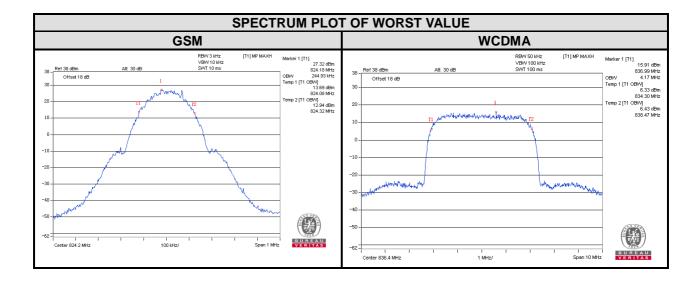
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#### 4.3.3 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (kHz) GSM	CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz) WCDMA
128	824.2	244.93	4132	826.4	4.16
190	836.4	244.93	4182	836.4	4.17
251	848.8	244.93	4233	846.6	4.16



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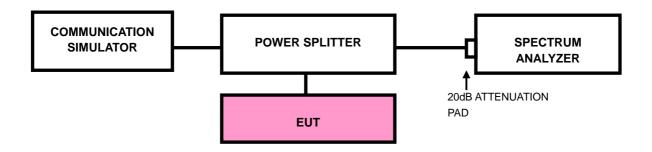


#### 4.4 BAND EDGE MEASUREMENT

#### 4.4.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

#### 4.4.2 TEST SETUP



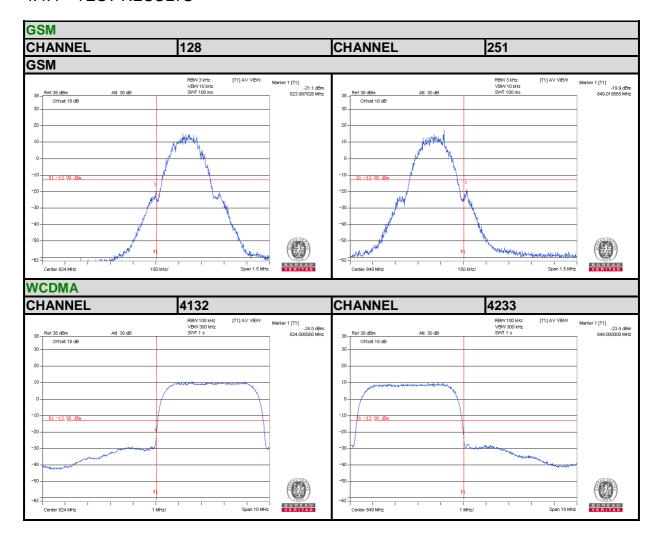
#### 4.4.3 TEST PROCEDURES

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1.5 MHz. RB of the spectrum is 3kHz and VB of the spectrum is 10kHz (GSM/GPRS).
- c. The center frequency of spectrum is the band edge frequency and span is 10MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA).
- d. Record the max trace plot into the test report.

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#### 4.4.4 TEST RESULTS



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#### 4.5 CONDUCTED SPURIOUS EMISSIONS

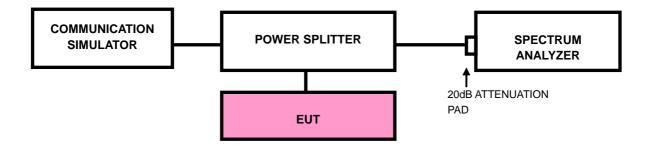
#### 4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to -13dBm.

#### 4.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz to 9GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

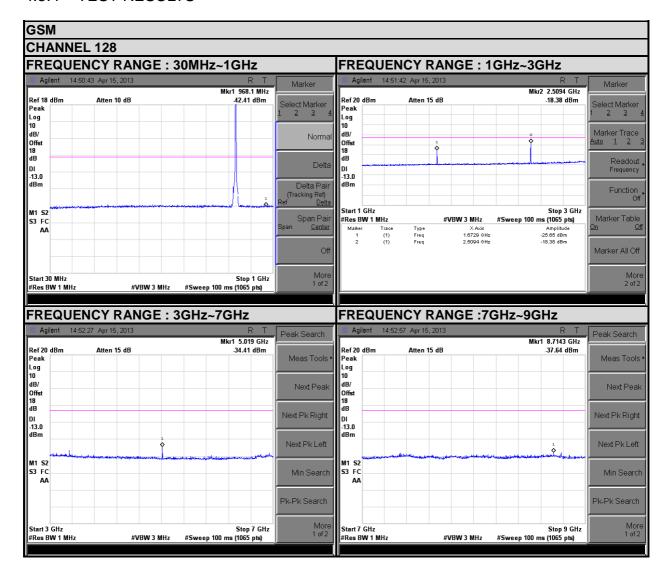
#### 4.5.3 TEST SETUP



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#### 4.5.4 TEST RESULTS

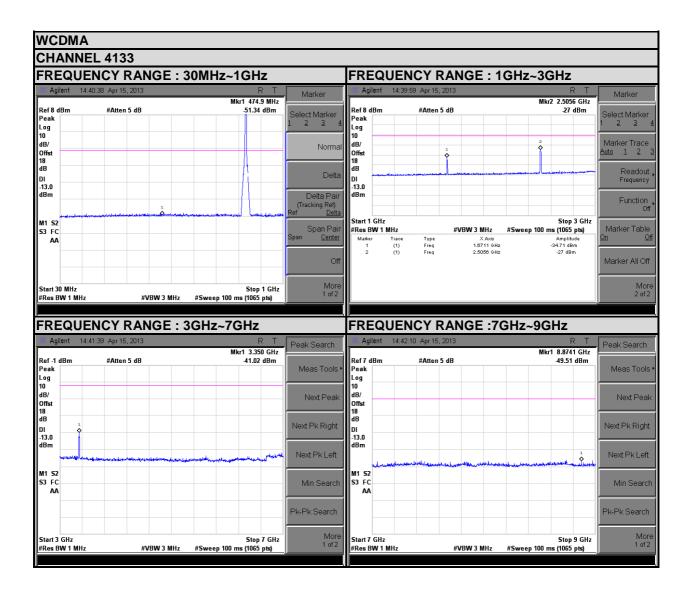


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Page 23 of 31

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#### 4.6 RADIATED EMISSION MEASUREMENT

#### 4.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to -13dBm.

#### 4.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power 2.15dBi.

**NOTE:** The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

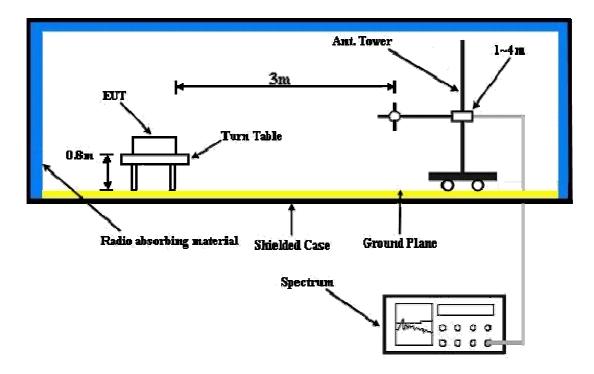
#### 4.6.3 DEVIATION FROM TEST STANDARD

No deviation

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#### 4.6.4 **TEST SETUP**



For the actual test configuration, please refer to the attached file (Test Setup Photo).

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Page 26 of 31

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### 4.6.5 TEST RESULTS

#### GSM:

ENVIRONMENTAL CONDITIONS 26deg. C.	, 65%RH <b>TESTED BY</b>	Venless Long
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	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						
No.	Freq. (MHz)	SPA READING (dBm)	Limit (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	
1	1672	-53.49	-13	-48.85	0.46	-48.39	
2	2509	-57.55	-13	-49.14	0.17	-48.97	
3	3345	-52.37	-13	-42.84	1.49	-41.35	
4	5018	-63.15	-13	-47.04	2.41	-44.63	
	Al	NTENNA POLAR	RITY & TEST DIS	STANCE: VERTI	CAL AT 3 M		
No.	No. Freq. (MHz) SPA READING (dBm) Limit (dBm) S.G Power Value (dBm) Factor (dB) ERP (dBm)						
1	1672	-63.52	-13	-56.77	0.46	-56.31	
2	2509	-62.44	-13	-52.79	0.17	-52.62	
3	3345	-50.56	-13	-38.71	1.49	-37.22	
_		00.00				_	

#### **REMARKS:**

- 1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
- 2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB) 2.15 (dB)

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#### WCDMA:

ENVIRONMENTAL CONDITIONS	26deg. C, 65%RH	TESTED BY	Venless Long
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ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						
No.	Freq. (MHz)	SPA READING (dBm)	Limit (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)
1	1672	-63.39	-13	-59.01	0.46	-58.55
2	2509	-64.69	-13	-56.57	0.17	-56.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						
No.	Freq. (MHz)	SPA READING (dBm)	Limit (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)
1	1672	-62.23	-13	-55.42	0.46	-54.96
2	2509	-61.06	-13	-51.36	0.17	-51.19

#### **REMARKS:**

- 1. ERP (dBm) = S.G Value (dBm) + Correction Factor (dB).
- 2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB) 2.15 (dB)

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### 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

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### 6 INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch, were founded in 2002 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

#### **Dongguan EMC/RF Lab:**

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Email: <u>customerservice.dg@cn.bureauveritas.com</u>

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.

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# 7 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---

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Page 31 of 31

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