

FCC TEST REPORT (PART 24)

REPORT NO.: RF150727C28-5

MODEL NO.: GT7820 & GT7810 & GT7800 & GT78

FCC ID: 2ACC5-GT78

RECEIVED: Jul. 27, 2015

TESTED: Jul. 29, 2015 ~ Jul. 31, 2015

ISSUED: Aug. 13, 2015

APPLICANT: AMobile Intelligent Corp.

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RELEASE CONTROL RECORD

ISSUE NO.	E NO. REASON FOR CHANGE	
RF150727C28-5	Original release	Aug. 13, 2015

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1 CERTIFICATION

PRODUCT: Rugged Android Tablet

MODEL: GT7820 & GT7810 & GT7800 & GT78

BRAND: Amobile

APPLICANT: AMobile Intelligent Corp.

TESTED: Jul. 29, 2015 ~ Jul. 31, 2015

TEST SAMPLE: Identical Prototype

STANDARDS: FCC Part 24, Subpart E

The above equipment (model: GT7820 & GT7810 & GT7800 & GT78) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan 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** : Aug. 13, 2015

Gina Liu / Specialist

APPROVED BY : , DATE : Aug. 13, 2015

Kay Wu / Supervisor



2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

	APPLIED STANDARD: FCC Part 24 & Part 2					
STANDARD SECTION	TEST TYPE		REMARK			
2.1046 24.232	Equivalent Isotropic Radiated Power		Meet the requirement of limit.			
2.1055 24.235	Frequency Stability		Meet the requirement of limit.			
2.1049 24.238(b)	Occupied Bandwidth		Meet the requirement of limit.			
24.232(d)	32(d) Peak to average ratio		Meet the requirement of limit.			
24.238(b)	24.238(b) Band Edge Measurements		Meet the requirement of limit.			
2.1051 24.238	Conducted Spurious Emissions	PASS	Meet the requirement of limit.			
2.1053 24.238	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -13.44dB at 9400.00MHz.			

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	2.44 dB
	30MHz ~ 200MHz	2.93 dB
Dadiated emissions	200MHz ~1000MHz	2.95 dB
Radiated emissions	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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



2.2 TEST SITE AND INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent Technologies	N9038A	MY52260177 May 19, 2015		May 18, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 10, 2014	Dec. 09, 2015
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 04, 2015	Feb. 04, 2016
HORN Antenna SCHWARZBECK	3117	00143293	Aug. 28, 2014	Aug. 27, 2015
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Aug. 27, 2014	Aug. 26, 2015
Preamplifier EMCI	EMC 012645	980115	Dec. 12, 2014	Dec. 11, 2015
Preamplifier EMCI	EMC 184045	980116	Jan. 09, 2015	Jan. 08, 2016
Preamplifier EMCI	EMC 330H	980112	Dec. 25, 2014	Dec. 24, 2015
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 18, 2014	Oct. 17, 2015
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 18, 2014	Oct. 17, 2015
RF signal cable Worken	RG-213	NA	Nov. 07, 2014	Nov. 06, 2015
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA NA		NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA
Radio Communication Analyzer	MT8820C	6201240432	Jul. 06, 2015	Jul. 05, 2017

NOTE: 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Chamber 10.
- 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 690701.
- 5. The IC Site Registration No. is IC 7450F-10.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Rugged Android Tablet		
MODEL NO.	GT7820 & GT7810 & GT7800 & GT78		
POWER SUPPLY	5.0Vdc (adapter or host equipment) 3.8Vdc (battery)		
MODULATION TYPE	GSM/GPRS	GMSK	
WODULATION TIPE	WCDMA	BPSK	
FREQUENCY RANGE	GSM/GPRS/EDGE	1850.2MHz ~ 1909.8MHz	
FREQUENCT KANGE	WCDMA	1852.4MHz ~ 1907.6MHz	
MAX. EIRP POWER	GSM	762.08mW	
WAX. EIRP POWER	WCDMA	146.32mW	
EMISSION	GSM	245KGXW	
DESIGNATOR	WCDMA	4M17F9W	
ANTENNA TYPE	Fixed Internal Antenna		
I/O PORTS	Refer to users' manual		
DATA CABLE	Refer to NOTE as below		
ACCESSORY DEVICES	Refer to NOTE as below		

NOTE:

1. All models are listed as below.

BRAND	MODEL	DIFFERENCE
	GT78	EUT without barcode
Amobile	GT7800	EUT without barcode
	GT7810	EUT with 1D barcode
	GT7820	EUT with 2D barcode
GT78 and GT7800 are electrically identical, different model names are for marketing purpose.		

2. Test Configurations are listed as below.

Sample	MODEL
А	GT7800
В	GT7810
C	GT7820



3. The EUT contains following accessory devices.

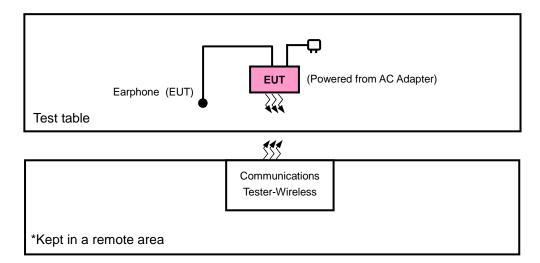
ITEM	BRAND	MODEL	SPECIFICATION
Battery	JAPON	TP0750B01	3.8Vdc, 6200mAh
Earphone	HETONG	PY-1312602-09KB02	1.2m
USB Cable	miki	YXT-64-MK5P-1M	0.98m
LCD Panel	K&D	KD079D1-35NA-A1	7.8 Inch
Photo Camera	SEASONS	SPV6B9298	
Video Camera	Wdson	WDS1NA44W552	
WWAN Module	MTK	MT6166	
WLAN Module	MTK	MT6627	
CPU	MTK	MT8382	1.3GHZ
MainBoard	miki	P6128	
EMMC	N/A	NCEFES78-08G	8GB
bar code scanner (2D)	opticon	MDI-3100	
bar code scanner (1D)	opticon	MDC-100	

4. 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.

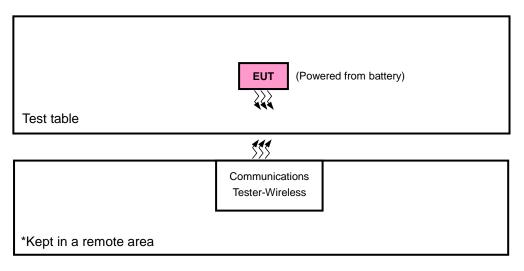


3.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



FOR E.I.R.P. 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	Communications Tester-Wireless	Agilent	8960 Series 10	MY53201073	NA
2	Adapter	AMIGO	AMS135-0502000FU	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS			
1	NA			
2	1.5m shielded cable w/o core			

NOTE:

- 1. All power cords of the above support units are non shielded (1.8m).
- 2. Item 1 as a communication partner to transfer data.

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 and listed as below table. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION	EIRP	RADIATED EMISSION
Α	GT7820	Z-plane	X-axis
В	GT7800	Z-plane	Z-axis
С	GT7810	Z-plane	Z-axis

GSM MODE

GOW WOODL				
EUT CONFIGURE MODE	TEST ITEM	TEST ITEM AVAILABLE CHANNEL TESTED CHANNEI		MODE
А	EIRP	512 to 810	512, 661, 810	GSM
А	FREQUENCY STABILITY	512 to 810	661	GSM
А	OCCUPIED BANDWIDTH	512 to 810	512, 661, 810	GSM
А	PEAK TO AVERAGE RATIO	512 to 810	512, 661, 810	GSM
А	BAND EDGE	512 to 810	512, 810	GSM
А	CONDUCTED EMISSION	512 to 810	661	GSM
A, B, C	RADIATED EMISSION	512 to 810	661	GSM

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WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM AVAILABLE CHANNEL TESTED CHA		TESTED CHANNEL	MODE
Α	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
А	FREQUENCY STABILITY	9262 to 9538	9400	WCDMA
А	OCCUPIED BANDWIDTH	9262 to 9538	9262, 9400, 9538	WCDMA
А	PEAK TO AVERAGE RATIO	9262 to 9538	9262, 9400, 9538	WCDMA
А	BAND EDGE	9262 to 9538	9262, 9538	WCDMA
А	CONDUCTED EMISSION	9262 to 9538	9400	WCDMA
А	RADIATED EMISSION	9262 to 9538	9400	WCDMA

TEST CONDITION:

Test Item	Environmental Conditions	Input Power	Tested by
ERP	26deg. C, 58%RH	3.8Vdc	Carlos Chen
FREQUENCY STABILITY	26deg. C, 58%RH	3.8Vdc	Carlos Chen
OCCUPIED BANDWIDTH 26deg. C, 58%RH		3.8Vdc	Carlos Chen
PEAK TO AVERAGE RATIO	26deg. C, 58%RH	3.8Vdc	Carlos Chen
BAND EDGE	26deg. C, 58%RH	3.8Vdc	Carlos Chen
CONDUCTED EMISSION	26deg. C, 58%RH	3.8Vdc	Carlos Chen
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Charles Hsiao



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 24 ANSI/TIA/EIA-603-C 2004

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



4 TEST TYPES AND RESULTS

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile and portable stations are limited to 2 watts EIRP.

4.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM, GPRS & EDGE, 5MHz for CDMA & WCDMA, and 10MHz for LTE 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.

CONDUCTED POWER MEASUREMENT:

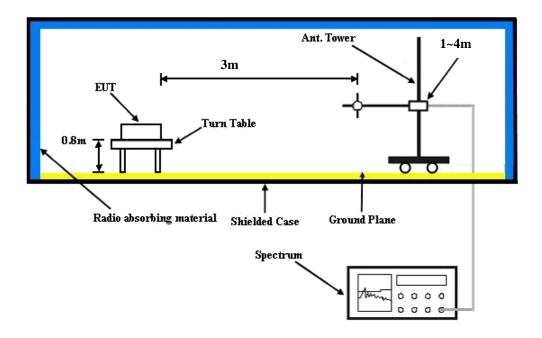
The EUT was set up for the maximum power with GSM, GPRS, EDGE & WCDMA & LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

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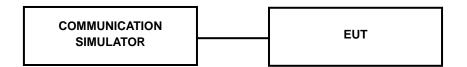


4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



CONDUCTED POWER MEASUREMENT:





4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	GSM1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8
GSM (1 Uplink)	28.94	28.82	28.72
GPRS 8 (GMSK, 1 slot)	28.92	28.80	28.70
GPRS 10 (GMSK, 2 slot)	28.21	28.09	27.99
GPRS 11 (GMSK, 3 slot)	26.43	26.31	26.21
GPRS 12 (GMSK, 4 slot)	25.30	25.18	25.08

Band		WCDMA II	
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	22.29	22.25	22.30
HSDPA Subtest-1	21.31	21.27	21.32
HSDPA Subtest-2	21.32	21.28	31.33
HSDPA Subtest-3	20.89 20.85		20.90
HSDPA Subtest-4	20.87 20.83		20.88
HSUPA Subtest-1	19.37 19.33		19.38
HSUPA Subtest-2	19.36	19.32	19.37
HSUPA Subtest-3	20.36	20.32	20.37
HSUPA Subtest-4	19.88	19.84	19.89
HSUPA Subtest-5	21.29	21.25	21.30



EIRP POWER (dBm)

	GSM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	
	512	1850.2	-19.58	44.70	25.12	325.09	Н	
	661	1880.0	-18.73	44.70	25.97	395.37	Н	
z	810	1909.8	-19.56	44.57	25.01	317.18	Н	
	512	1850.2	-15.92	44.27	28.35	683.91	V	
	661	1880.0	-16.05	44.87	28.82	762.08	V	
	810	1909.8	-15.83	44.61	28.78	755.61	V	

	WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	
	9262	1852.4	-25.99	44.70	18.71	74.30	Н	
	9400	1880.0	-26.14	44.70	18.56	71.78	Н	
Z	9538	1907.6	-25.59	44.57	18.98	79.12	Н	
	9262	1852.4	-23.09	44.27	21.18	131.22	V	
	9400	1880.0	-23.79	44.87	21.08	128.23	V	
	9538	1907.6	-22.96	44.61	21.65	146.32	V	



4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

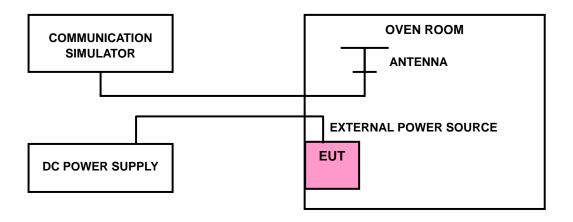
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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 ± 0.5 °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

	FREQUENCY		
VOLTAGE (Volts)	GSM	WCDMA	LIMIT (ppm)
3.8	0.000	0.001	2.5
3.6	0.001	0.000	2.5
4.35	0.001	0.001	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 3.6Vdc to 4.35Vdc.

FREQUENCY ERROR vs. TEMPERATURE

	FREQUENCY		
TEMP. (°C)	GSM	WCDMA	LIMIT (ppm)
-30	0.001	0.000	2.5
-20	0.000	0.002	2.5
-10	0.000	0.001	2.5
0	0.001	0.000	2.5
10	0.001	0.001	2.5
20	-0.002	-0.001	2.5
30	-0.001	-0.001	2.5
40	-0.001	0.000	2.5
50	-0.001	-0.001	2.5

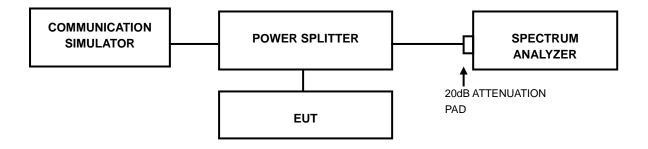


4.3 OCCUPIED BANDWIDTH MEASUREMENT

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.

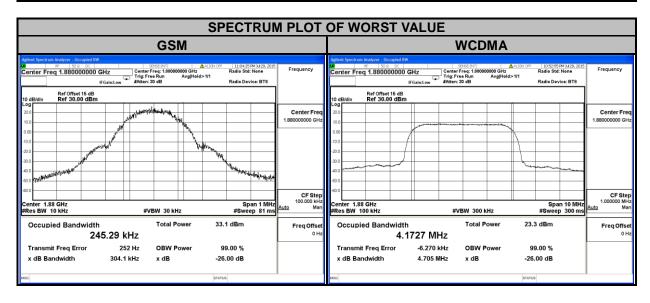
4.3.2 TEST SETUP





4.3.3 TEST RESULTS

CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (kHz)	CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)
		GSM			WCDMA
512	1850.2	245.08	9262	1852.4	4.17
661	1880.0	245.29	9400	1880.0	4.17
810	1909.8	242.58	9538	1907.6	4.17
CHANNEL	FREQUENCY	26dB BANDWIDTH (kHz)	CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)
		GSM			WCDMA
512	1850.2	314.70	9262	1852.4	4.70
661	1880.0	304.10	9400	1880.0	4.71
810	1909.8	319.30	9538	1907.6	4.70



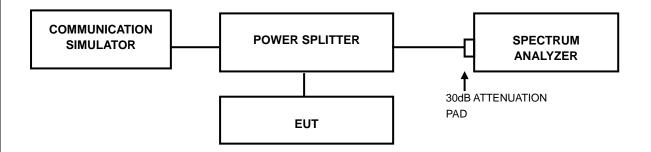


4.4 PEAK TO AVERAGE RATIO

4.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

4.4.2 TEST SETUP



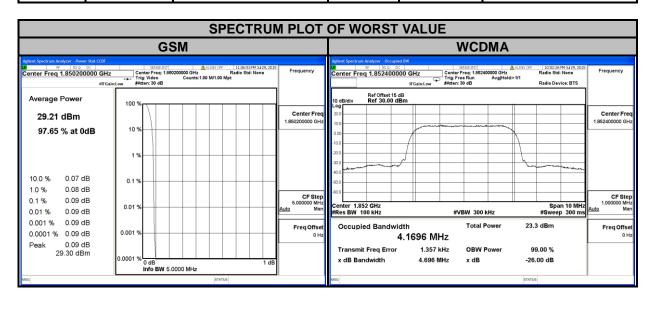
4.4.3 TEST PROCEDURES

- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Record the maximum PAPR level associated with a probability of 0.1%.



4.4.4 TEST RESULTS

CHANNEL	FREQUENCY	PEAK TO AVERAGE RATIO (dB)	CHANNEL	FREQUENCY	PEAK TO AVERAGE RATIO (dB)
	(MHZ)	(MHz) GSM		(MHz)	WCDMA
512	1850.2	0.09	9262	1852.4	3.07
661	1880.0	0.09	9400	1880.0	2.82
810	1909.8	0.09	9538	1907.6	2.80



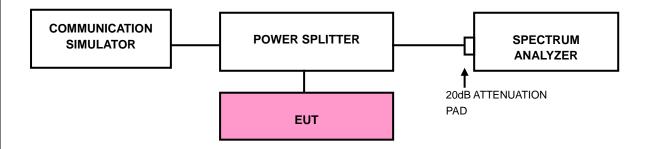


4.5 BAND EDGE MEASUREMENT

4.5.1 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.

4.5.2 TEST SETUP

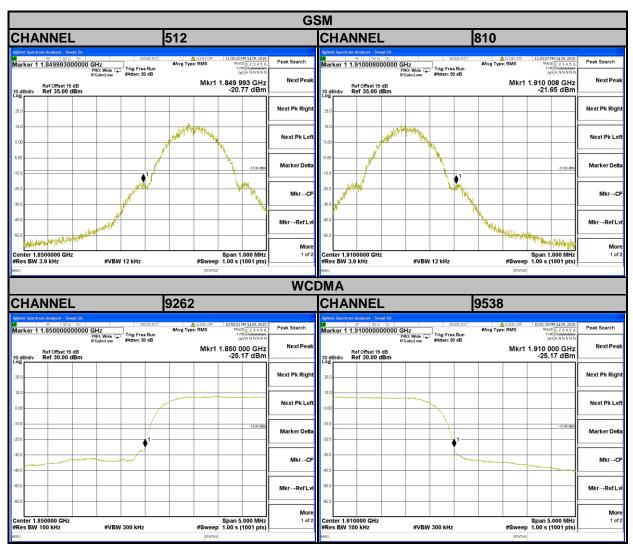


4.5.3 TEST PROCEDURES

- 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 1MHz. RB of the spectrum is 3kHz and VB of the spectrum is 10kHz (GSM/GPRS/EDGE).
- c. The center frequency of spectrum is the band edge frequency and span is 5MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA/LTE).
- d. Record the max trace plot into the test report.



4.5.4 TEST RESULTS





4.6 CONDUCTED SPURIOUS EMISSIONS

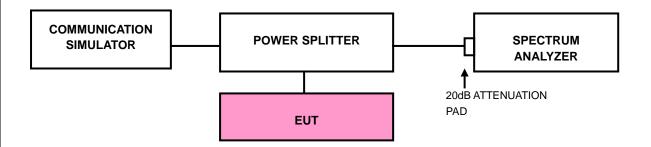
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 is equal to -13dBm.

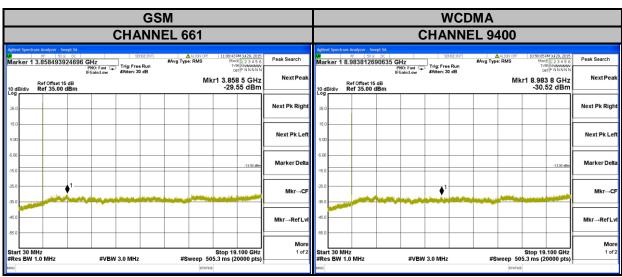
4.6.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 30 MHz to 19.1GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

4.6.3 TEST SETUP



4.6.4 TEST RESULTS





4.7 RADIATED EMISSION MEASUREMENT

4.7.1 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 is equal to -13dBm.

4.7.2 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.R.P power 2.15dBi.

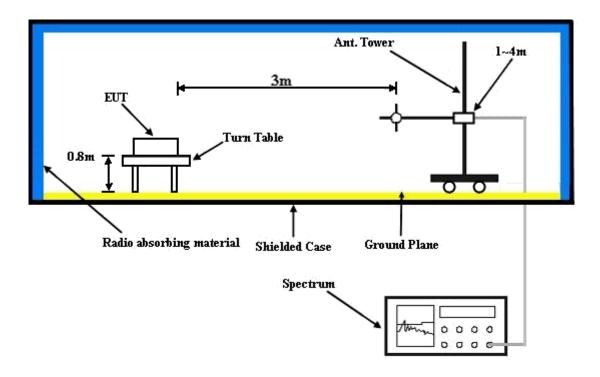
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.7.3 DEVIATION FROM TEST STANDARD

No deviation



4.7.4 TEST SETUP



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



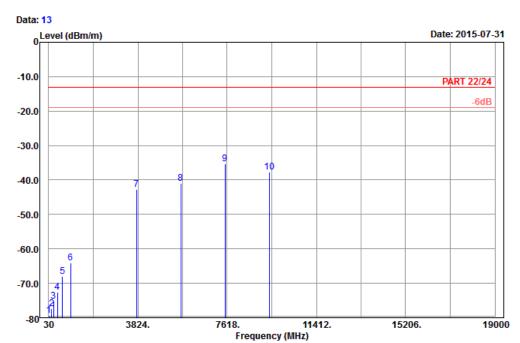
4.7.5 TEST RESULTS

GSM:

MODE A



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 3m Horizontal Remark : PCS 1900_Link_CH661

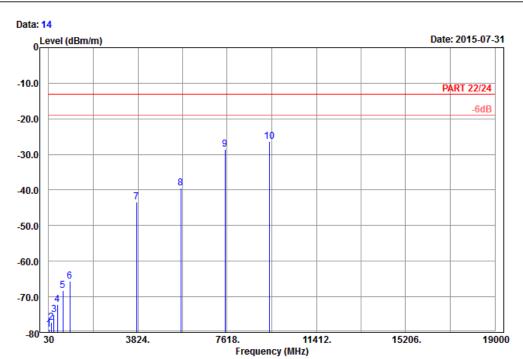
Tested by: Karl Lee

			Kead	Limit	0ver		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	38.91	-79.33	-69.74	-13.00	-66.33	-9.59	Peak
2	155.55	-77.44	-69.63	-13.00	-64.44	-7.81	Peak
3	241.68	-75.16	-69.54	-13.00	-62.16	-5.62	Peak
4	395.20	-72.50	-69.50	-13.00	-59.50	-3.00	Peak
5	618.50	-67.97	-68.19	-13.00	-54.97	0.22	Peak
6	956.60	-64.12	-69.25	-13.00	-51.12	5.13	Peak
7	3760.00	-42.63	-58.77	-13.00	-29.63	16.14	Peak
8	5640.00	-41.02	-61.49	-13.00	-28.02	20.47	Peak
9 p	p 7520.00	-35.21	-57.89	-13.00	-22.21	22.68	Peak
10 .	9400.00	-37.62	-63.39	-13.00	-24.62	25.77	Peak





Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 3m Vertical Remark : PCS 1900_Link_CH661

Tested by: Karl Lee Plane : X

SIM : 1

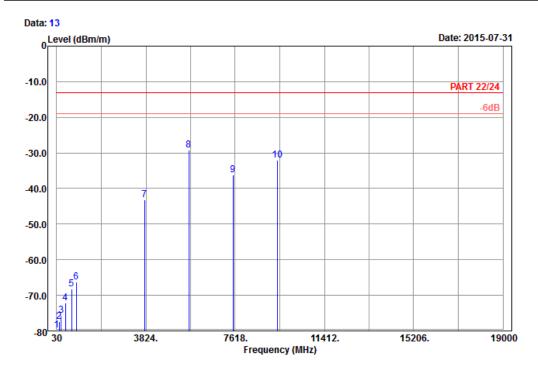
	Freq	Level				Factor	Remark
-	MHz	dBm/m	dBm	dBm/m	——dB	dB/m	
	37.29	-79.21	-69.24	-13.00	-66.21	-9.97	Peak
	132.60	-77.22	-69.56	-13.00	-64.22	-7.66	Peak
	250.32	-74.92	-69.41	-13.00	-61.92	-5.51	Peak
	400.10	-72.21	-69.45	-13.00	-59.21	-2.76	Peak
	632.50	-68.21	-68.27	-13.00	-55.21	0.06	Peak
	923.70	-65.57	-69.50	-13.00	-52.57	3.93	Peak
	3760.00	-43.33	-59.47	-13.00	-30.33	16.14	Peak
	5640.00	-39.47	-59.94	-13.00	-26.47	20.47	Peak
	7520.00	-28.60	-51.28	-13.00	-15.60	22.68	Peak
pp	9400.00	-26.44	-52.21	-13.00	-13.44	25.77	Peak
		MHz 37.29 132.60 250.32 400.10 632.50 923.70 3760.00 5640.00 7520.00	MHz dBm/m 37.29 -79.21 132.60 -77.22 250.32 -74.92 400.10 -72.21 632.50 -68.21 923.70 -65.57 3760.00 -43.33 5640.00 -39.47 7520.00 -28.60	Freq Level Level MHz dBm/m dBm 37.29 -79.21 -69.24 132.60 -77.22 -69.56 250.32 -74.92 -69.41 400.10 -72.21 -69.45 632.50 -68.21 -68.27 923.70 -65.57 -69.50 3760.00 -43.33 -59.47 5640.00 -39.47 -59.94 7520.00 -28.60 -51.28	Freq Level Level Line MHz dBm/m dBm dBm/m 37.29 -79.21 -69.24 -13.00 132.60 -77.22 -69.56 -13.00 250.32 -74.92 -69.41 -13.00 400.10 -72.21 -69.45 -13.00 632.50 -68.21 -68.27 -13.00 923.70 -65.57 -69.50 -13.00 3760.00 -43.33 -59.47 -13.00 5640.00 -39.47 -59.94 -13.00 7520.00 -28.60 -51.28 -13.00	Freq Level Level Line Limit MHz dBm/m dBm dBm/m dB 37.29 -79.21 -69.24 -13.00 -66.21 132.60 -77.22 -69.56 -13.00 -64.22 250.32 -74.92 -69.41 -13.00 -61.92 400.10 -72.21 -69.45 -13.00 -59.21 632.50 -68.21 -68.27 -13.00 -55.21 923.70 -65.57 -69.50 -13.00 -52.57 3760.00 -43.33 -59.47 -13.00 -30.33 5640.00 -39.47 -59.94 -13.00 -26.47 7520.00 -28.60 -51.28 -13.00 -15.60	Freq Level Level Line Limit Factor MHz dBm/m dBm/m dBm/m dB/m 37.29 -79.21 -69.24 -13.00 -66.21 -9.97 132.60 -77.22 -69.56 -13.00 -64.22 -7.66 250.32 -74.92 -69.41 -13.00 -61.92 -5.51 400.10 -72.21 -69.45 -13.00 -59.21 -2.76 632.50 -68.21 -68.27 -13.00 -55.21 0.06 923.70 -65.57 -69.50 -13.00 -52.57 3.93 3760.00 -43.33 -59.47 -13.00 -30.33 16.14 5640.00 -39.47 -59.94 -13.00 -26.47 20.47 7520.00 -28.60 -51.28 -13.00 -15.60 22.68



MODE B



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 3m Horizontal Remark : PCS 1900_Link_CH661

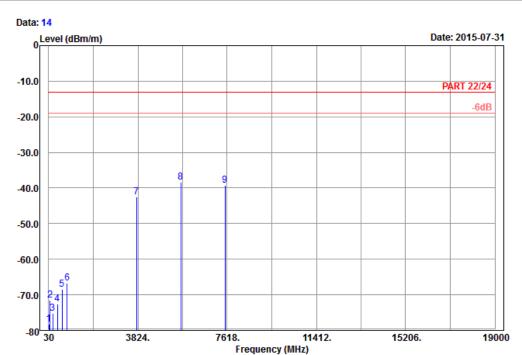
Tested by: Charles Hsiao

			Read	Limit	0ver		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	38.64	-79.81	-70.22	-13.00	-66.81	-9.59	Peak
2	133.14	-77.29	-69.63	-13.00	-64.29	-7.66	Peak
3	226.29	-75.67	-69.84	-13.00	-62.67	-5.83	Peak
4	400.80	-72.20	-69.44	-13.00	-59.20	-2.76	Peak
5	669.60	-68.31	-68.08	-13.00	-55.31	-0.23	Peak
6	861.40	-66.29	-68.07	-13.00	-53.29	1.78	Peak
7	3760.00	-43.22	-59.36	-13.00	-30.22	16.14	Peak
8 pp	5640.00	-29.19	-49.66	-13.00	-16.19	20.47	Peak
9	7520.00	-36.27	-58.95	-13.00	-23.27	22.68	Peak
10	9400.00	-32.11	-57.88	-13.00	-19.11	25.77	Peak





Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 3m Vertical Remark : PCS 1900_Link_CH661

Tested by: Charles Hsiao

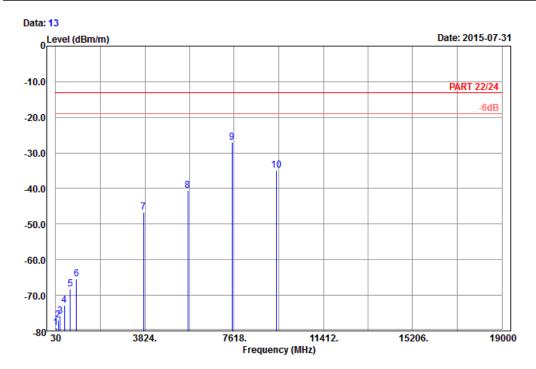
			Read	Limit	0ver		
	Freq	Level	Level	Line	Limit	Factor	Remark
_							
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
4	27.02	70 27	67.03	12.00	CF 27	10.24	Deals
1	37.02	-/0.2/	-67.93	-13.00	-65.27	-10.34	reak
2	95.34	-71.50	-61.10	-13.00	-58.50	-10.40	Peak
3	204.96	-75.14	-69.02	-13.00	-62.14	-6.12	Peak
4	409.20	-72.49	-69.54	-13.00	-59.49	-2.95	Peak
5	591.90	-68.35	-68.42	-13.00	-55.35	0.07	Peak
6	814.50	-66.81	-68.66	-13.00	-53.81	1.85	Peak
7	3760.00	-42.45	-58.59	-13.00	-29.45	16.14	Peak
8 pp	5640.00	-38.43	-58.90	-13.00	-25.43	20.47	Peak
9	7520.00	-39.28	-61.96	-13.00	-26.28	22.68	Peak



MODE C



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 3m Horizontal Remark : PCS 1900_Link_CH661

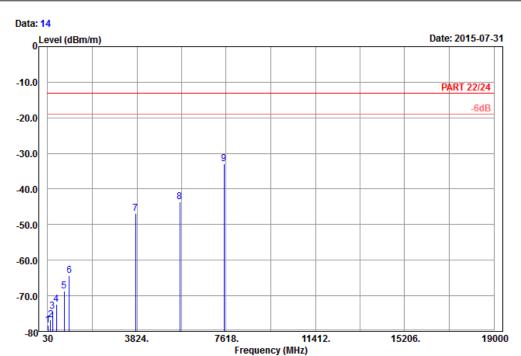
Tested by: Charles Hsiao

			Read	Limit	0ver		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	37.56	-79.19	-69.22	-13.00	-66.19	-9.97	Peak
2	143.40	-76.92	-69.13	-13.00	-63.92	-7.79	Peak
3	222.78	-75.77	-69.90	-13.00	-62.77	-5.87	Peak
4	396.60	-72.74	-69.84	-13.00	-59.74	-2.90	Peak
5	652.10	-68.23	-68.09	-13.00	-55.23	-0.14	Peak
6	917.40	-65.36	-69.03	-13.00	-52.36	3.67	Peak
7	3760.00	-46.57	-62.71	-13.00	-33.57	16.14	Peak
8	5640.00	-40.47	-60.94	-13.00	-27.47	20.47	Peak
9 pp	7520.00	-27.11	-49.79	-13.00	-14.11	22.68	Peak
10	9400.00	-34.81	-60.58	-13.00	-21.81	25.77	Peak





Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 3m Vertical Remark : PCS 1900_Link_CH661

Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
_	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	37.83	-78.23	-68.26	-13.00	-65.23	-9.97	Peak
2	160.95	-76.79	-69.22	-13.00	-63.79	-7.57	Peak
3	240.33	-74.37	-68.73	-13.00	-61.37	-5.64	Peak
4	401.50	-72.41	-69.63	-13.00	-59.41	-2.78	Peak
5	729.10	-68.57	-67.64	-13.00	-55.57	-0.93	Peak
6	943.30	-64.21	-69.05	-13.00	-51.21	4.84	Peak
7	3760.00	-46.87	-63.01	-13.00	-33.87	16.14	Peak
8	5640.00	-43.68	-64.15	-13.00	-30.68	20.47	Peak
9 pp	7520.00	-32.87	-55.55	-13.00	-19.87	22.68	Peak

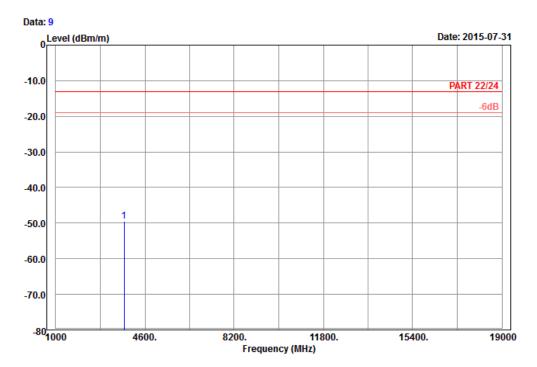


WCDMA:

MODE A



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 3m Horizontal Remark : Bnad II_Link_CH9400

Tested by: Charles Hsiao

Plane : X SIM : 1

Read Limit Over

Freq Level Level Line Limit Factor Remark

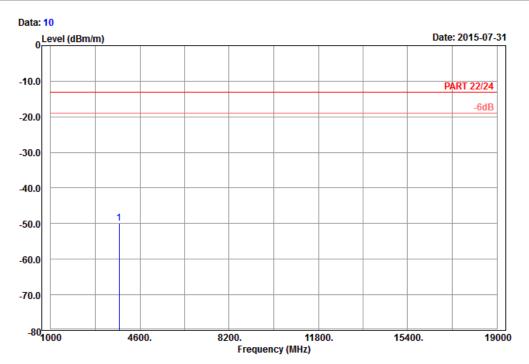
MHz dBm/m dBm dBm/m dB dB/m

1 pp 3760.00 -49.47 -65.61 -13.00 -36.47 16.14 Peak





Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 chamber 1

Condition: PART 22/24 3m Vertical Remark : Bnad II_Link_CH9400

Tested by: Charles Hsiao

Plane : X SIM : 1

Read Limit Over

Freq Level Level Line Limit Factor Remark

MHz dBm/m dBm dBm/m dB dB/m

1 pp 3760.00 -49.90 -66.04 -13.00 -36.90 16.14 Peak



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 Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 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:

Linko EMC/RF Lab: Hsin Chu EMC/RF/Telecom Lab:

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26051924 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Lab:

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

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 were made to the EUT by the lab during the test.
END

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