

FCC TEST REPORT (PART 22)

REPORT NO.: RF970216L06-1

MODEL NO.: MC7508

RECEIVED: Feb. 20, 2008

TESTED: Mar. 27, 2008

ISSUED: Mar. 31, 2008

APPLICANT: Symbol Technologies, Inc.

ADDRESS: One Symbol Plaza, Holtsville, NY 11742-1300,

U.S.A.

ISSUED BY: Advance Data Technology Corporation

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TEST LOCATION: No. 19, Hwa Ya 2nd Rd., Wen Hwa Tsuen, Kwei

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Report no.: RF970216L06-1 1 Report Format Version 2.1.0



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1 CERTIFICATION

PRODUCT: EDA (Enterprise Digital Assistant)

MODEL: MC7508 BRAND: Symbol

APPLICANT: Symbol Technologies, Inc.

TESTED: Mar. 27, 2008

TEST SAMPLE: PROTOTYPE

TEST STANDARDS: FCC Part 22, Subpart H

ANSI C63.4-2003

The above equipment (model: MC7508) has been tested by **Advance Data Technology Corporation**, 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: Mar. 31, 2008

Andrea Hsia / Specialist

TECHNICAL

ACCEPTANCE: Long Chen, DATE: Mar. 31, 2008

Responsible for RF Long Chen / Senior Engineer

APPROVED BY: (Jan. C) and DATE: Mar. 31, 2008

Gary Chang / Assistant Manager



2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

	APPLIED STANDARD: FCC Part 22 & Part 2 / IC RSS-132							
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK					
2.1046 22.913 (a)	Maximum Peak Output Power Limit: max. 7 watts e.r.p peak power	PASS	Meet the requirement of limit. Minimum passing margin is 27.16dBm at 824.70MHz.					
2.1055	Frequency Stability AFC Freq. Error vs. Voltage AFC Freq. Error vs. Temperature Limit: max. ±2.5ppm	PASS	Meet the requirement of limit.					
2.1049 (h)	Occupied Bandwidth	PASS	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. Minimum passing margin is -30.48dB at 70.82MHz.					

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	3.19 dB
Dadiated emissions	200MHz ~1000MHz	3.21 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.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	EDA (Enterprise Digital Assistant)		
MODEL NO.	MC7508		
FCC ID	H9PMC7508		
POWER SUPPLY	3.7Vdc from rechargeable lithium battery		
TOWER SOLT EL	5.4Vdc from power adapter		
MODULATION TYPE	OQPSK, HPSK		
FREQUENCY RANGE	824MHz ~ 849MHz		
NUMBER OF CHANNEL	788		
MAX. ERP POWER	27.16dBm (0.520Watts)		
ANTENNA TYPE	Monopole antenna		
MAX. ANTENNA GAIN	4.5dBi		
DATA CABLE	Refer to NOTE		
I/O PORTS	Refer to user's manual		
ASSOCIATED DEVICES	Battery		
EUT EXTREME VOL. RANGE	3.7Vdc to 4.2Vdc		

NOTE:

- 1. The applicant defined the normal working voltage of the battery is from 3.7Vdc to 4.2Vdc.
- 2. The models identified as below are identical to each other except of the following options:
 - Keypad: Numeric / QWERTY
 - Barcode reader: 1D laser scanner / 2D Imager

BRAND	MODEL	DESCRIPTION				
Symbol	MC7508	EVDO 1D Numeric				
Symbol MC7508 EVDO 2D QWERTY						
**the worst case had been marked by boldface.						

3. The EUT is an EDA (Enterprise Digital Assistant). The functions of EUT listed as below:

	TEST STANDARD	REFERENCE REPORT	
BLUETOOTH	FCC Part 15	RF970216L06	
CDMA 850	FCC Part 22	RF970216L06-1	
CDMA 1900	FCC Part 24	RF970216L06-2	



4. The communicated functions of EUT listed as below:

		850MHz	1900MHz	With
3G	CDMA	\checkmark	\checkmark	Bluetooth +
36	EVDO	V	\checkmark	GPS functions

5. The EUT has one lithium battery listed as below:

LI-LON BATTERY				
BRAND: MOTOROLA				
MODEL:	82-71364-05 Rev A			
RATING:	3.7Vdc, 3600mAh			

6. The following accessories are for support units only.

PRODUCT	BRAND	MODEL	DESCRIPTION	
RS232 charging cable	Motorola	25-102776-01R	1.2m non-shielded cable with one core	
USB charging cable Motorola 2		25-102775-01R	1.5m shielded cable with one core	
Headset	Motorola	50-11300-050R	VR10 headset 0.8m non-shielded cable with one core	
			I/P: 100-240Vac, 50-60Hz, 0.4A O/P: 5.4Vdc, 3A 1.8m non-shielded cable without core	

7. Hardware version: 1c.

8. Software version: BSP16.

9. 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 DESCRIPTION OF TEST MODES

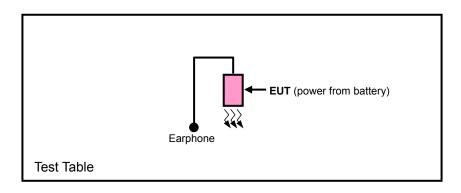
788 channels are provided to this EUT in the CDMA850 band. Therefore, the low, middle and high channels are chosen for testing.

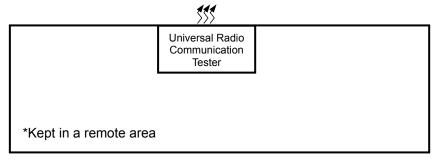
	CHANNEL FREQUENCY		TX MODE
LOW	1013	824.70 MHz	SO55
MIDDLE	384	836.52 MHz	SO55
HIGH	777	848.31 MHz	SO55

NOTE:

- 1. Below 1 GHz, the channel 1013, 384 and 777 were pre-tested in chamber. The channel 1013 was the worst case and chosen for final test.
- 2. Above 1 GHz, the channel 1013, 384 and 777 were tested individually.
- 3. The channel space is 0.03MHz.
- 4. In this report, CDMA2000 (SO55/RC3) was the worst case for all test items, therefore, only the data was recorded in the following section.

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST







3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE	APPLICABLE TO						DESCRIPTION	
MODE	OP	FS	ОВ	BE	CE	RE<1G	RE≥1G	DESCRIPTION
-	V	V	V	V	V	V	V	-

Where **OP:** Output power

FS: Frequency stability

OB: Occupied bandwidth

BE: Band edge

CE: Conducted spurious emissions

RE<1G: Radiated emission below 1GHz

RE≥1G: Radiated emission above 1GHz

OUTPUT POWER MEASUREMENT:

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 (if EUT with antenna diversity architecture).

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

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	AXIS
-	1013 to 777	1013, 384, 777	CDMA	Z

FREQUENCY STABILITY MEASUREMENT:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, and antenna ports (if EUT with antenna diversity architecture).

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

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY
-	1013 to 777	384	CDMA

OCCUPIED BANDWIDTH MEASUREMENT:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, and antenna ports (if EUT with antenna diversity architecture).

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

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY
-	1013 to 777	1013, 384, 777	CDMA



BAND EDGE MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	
-	1013 to 777	1013, 777	CDMA	

CONDUCTED SPURIOUS EMISSIONS MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	
-	1013 to 777	1013, 384, 777	CDMA	

RADIATED EMISSION MEASUREMENT (BELOW 1 GHz):

- 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 (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	AXIS	
-	1013 to 777	1013	CDMA	Z	

RADIATED EMISSION MEASUREMENT (ABOVE 1 GHz):

- 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 (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	AXIS
-	1013 to 777	1013, 384, 777	CDMA	Z



3.3 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
IC RSS-132
ANSI C63.4-2003
ANSI/TIA/EIA-603-C 2004

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

3.4 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.	CAL. DATE
1	Universal Radio Communication Tester	R&S	CMU200	101095	Apr. 11, 2008

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

NOTE:

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



4 TEST TYPES AND RESULTS

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

The radiated peak output power shall be according to the specific rule Part 22.913 (a) that "Mobile / Portable station are limited to 7 watts e.r.p".



4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Dec. 25, 2008
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Dec. 02, 2008
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Jan. 03, 2009
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-405	Dec. 17, 2008
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 06, 2009
Preamplifier Agilent	8449B	3008A01910	Sep. 19, 2008
Preamplifier Agilent	8447D	2944A10634	Dec. 12, 2008
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	274397/4	Nov. 07, 2008
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	283401/4	Nov. 07, 2008
Software ADT.	ADT_Radiated_V7.6	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA
Turn Table ADT.	TT100.	TT93021704	NA
Turn Table Controller ADT.	SC100.	SC93021704	NA

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

- 2. The test was performed in HwaYa Chamber 4.
- 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FC Site Registration No. is 460141.
- 5. The IC Site Registration No. is IC3789B-4.



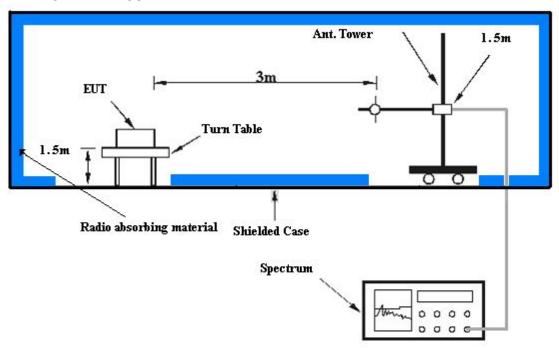
4.1.3 TEST PROCEDURES

- a. The EUT was set up for the maximum peak power with CDMA link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels: 1013, 384 and 777 (low, middle and high operational frequency range.)
- b. The conducted peak output power used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. The path loss included the splitter loss, cable loss and 20dB pad loss. The spectrum set RB/VB 3MHz,then read peak power value and record to the test. (All transmitted path loss shall be considered in the test report data.)
- c. E.I.R.P peak power measurement. In the fully anechoic chamber, EUT placed on the 1.5m 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 to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- d. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the calibration antenna. Rotated the Turn Table to find the maximum radiation power. "Raw" is the spectrum reading value, "SG" is signal generator export power, "TX Gain" is calibration antenna isotropic gain value, "TX cable" is the transmitted cable loss between the calibration antenna and signal generator. The "Factor" means that the transmission path loss is equal to "SG" "TX cable" + "TX Gain" "Raw".
- e. Actually the real E.I.R.P peak power is equal to "Read Value" + "Factor".
- f. 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.

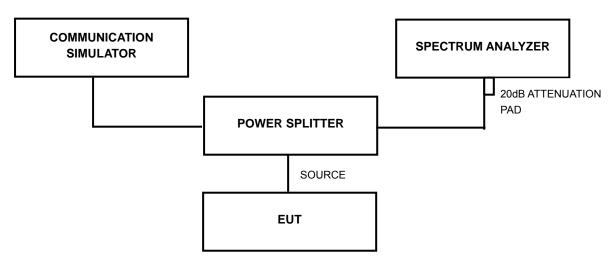


4.1.4 TEST SETUP

EIRP POWER MEASUREMENT:



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



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

4.1.5 EUT OPERATING CONDITIONS

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



4.1.6 TEST RESULTS

MODE	TX connected	DETECTOR FUNCTION	Average
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	23deg. C, 60%RH, 988hPa
TESTED BY	Match Tsui		

	CONDUCTED POWER (1x EV-DO)							
FREQ.		RAW VALUE (dBm)		CORR.	OUTPUT POWER			
CHANNEL	(MHz)	NAW VALUE (GBIII)		FACTOR (dB)	RT	'AP	FT.	AP
		RTAP	FTAP		dBm	Watt	dBm	Watt
1013	824.70	22.75	22.81	0.50	23.25	0.211	23.31	0.214
384	836.52	23.04	23.14	0.50	23.54	0.226	23.64	0.231
777	848.31	22.06	23.21	0.50	23.56	0.227	23.71	0.235

	CDMA 2000 CONDUCTED POWER (SO2, SO55, TDSO SO32, SO3)												
	FDFO	CDMA 2000		RAW VALUE (dBm)			CORR.		OUTPUT	Γ POWE	R (dBm)		
CHAN.	FREQ. (MHz)	RC	SO2	SO55	TDSO SO32	TDSO SO32 (FCH+)	SO3	FACTOR (dB)	SO2	SO55	TDSO SO32	TDSO SO32 (FCH+)	SO3
4040	004.70	RC1	23.81	24.04	ı	-	23.66	0.50	24.31	24.54	ı	-	24.16
1013	824.70	RC3	23.85	24.11	23.61	23.34	23.81	0.50	24.35	24.61	24.11	23.84	24.31
384	836.52	RC1	24.06	24.13	-	-	23.85	0.50	24.56	24.63	-	-	24.35
304	030.32	RC3	23.98	24.36	23.73	23.53	23.88	0.50	24.48	24.86	24.23	24.03	24.38
777	040.24	RC1	24.07	24.20	-	-	23.85	0.50	24.57	24.70	-	-	24.35
111	848.31	RC3	24.01	24.38	24.12	23.60	23.95	0.50	24.51	24.88	24.62	24.10	24.45

REMARKS: 1. Peak Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).

- 2. Correction Factor (dB) = Power Splitter Loss (dB) + Cable Loss (dB).
- 3. The value in bold is the worst.



MODE	TX connected	DETECTOR FUNCTION	Average
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	23deg. C, 60%RH, 988hPa
TESTED BY	Match Tsui		

	ERP POWER (1x EV-DO)							
	FREQ.	RAW VAL	RAW VALUE (dBm)			OUTPUT	POWER	
CHANNEL	(MHz)		, ,	CORR. FACTOR (dB)	RT	AP	FT.	AP
		RTAP	FTAP		dBm	Watt	dBm	Watt
1013	824.70	-14.23	-14.38	40.03	25.80	0.380	25.65	0.367
384	836.52	-14.66	-14.82	40.32	25.66	0.368	25.50	0.355
777	848.31	-15.52	-15.94	40.62	25.10	0.324	24.68	0.294

ERP POWER (SO55)						
CHANNEL NO. FREQUENCY (MHz)		RAW VALUE (dBm)	CORRECTION	OUTPUT POWER		
	()	,	FACTOR (dB)	dBm	Watt	
1013	824.70	-12.87	40.03	27.16	0.520	
384	836.52	-13.22	40.32	27.10	0.512	
777	848.31	-14.50	40.62	26.12	0.409	

REMARKS: 1. Peak Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).

- 2. Correction Factor (dB) = Receiver Antenna Gain (dBi) + Cable Loss (dB) + Free Space Loss (dB).
- 3. The value in bold is the worst.



4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

According to the FCC part 2.4235 shall be tested the frequency stability. The rule is defined that" The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block." The frequency error rate is according to the JTC standard that the frequency error rate shall be accurate to within 2.5ppm of the received frequency from the base station. The test extreme voltage is according to the 2.1055(d)(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and the extreme temperature rule is comply with the $2.1055(a)(1) - 30^{\circ}C \sim 50^{\circ}C$.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
* ROHDE & SCHWARZ Spectrum Analyzer	FSP40	100040	Jul. 28, 2008
* Hewlett Packard RF cable	8120-6192	01428251	NA
* Suhner RF cable	Sucoflex104	204850/4	NA
* WIT Standard Temperature & Humidity Chamber	TH-4S-C	W981030	Jun. 28, 2008

NOTE:

- 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.
- 2. "*" = These equipments are used for the final measurement.
- 3. The test was performed in ADT RF OVEN room.

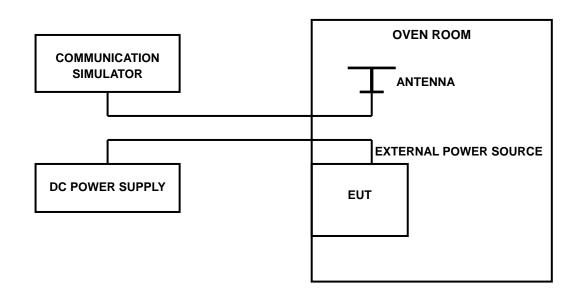


4.2.3 TEST PROCEDURE

- a. Because of the measure the carrier frequency under the condition of the AFC lock, it shall be used the mobile station in the CDMA link mode. This is accomplished with the use of the communication simulator station. The oven room could control the temperatures and humidity. The CDMA link channel is the 384.
- b. Power must be removed when changing from one temperature to another or one voltage to another voltage. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- c. EUT is connected the external power supply to control the DC input power. The various Volts from the minimum 3.7 Volts to 4.2 Volts. Each step shall be record the frequency error rate.
- d. 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.
- e. 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.

4.2.4 TEST SETUP





4.2.5 TEST RESULTS

MODE	Middle Channel		23deg. C, 60%RH, 988hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

AFC FREQUENCY ERROR vs. VOLTAGE				
VOLTAGE (Volts) FREQUENCY ERROR (Hz) FREQUENCY ERROR (ppm) LIMIT (ppm)				
4.2	-12	-0.0143437724	2.5	
3.7	11	0.0131484580	2.5	

NOTE: The applicant defined the normal working voltage of the battery is from 3.7Vdc to 4.2Vdc.

	AFC FREQUENCY ERROR vs. TEMP.				
TEMP. (°C)	FREQUENCY ERROR (Hz)	FREQUENCY ERROR (ppm)	LIMIT (ppm)		
50	12	0.0143437724	2.5		
40	11	0.0131484580	2.5		
30	-9	-0.0107578293	2.5		
20	-11	-0.0131484580	2.5		
10	-10	-0.0119531437	2.5		
0	12	0.0143437724	2.5		
-10	-9	-0.0107578293	2.5		
-20	-14	-0.0167344011	2.5		
-30	-13	-0.0155390868	2.5		



4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

According to FCC 2.1049 (h) specified that emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
* ROHDE & SCHWARZ Spectrum Analyzer	FSP40	100040	Jul. 28, 2008
* Mini-Circuits Power Splitter	ZAPD-4	400005	NA
* Hewlett Packard RF cable	8120-6192	01428251	NA
* JFW 20dB attenuation	50HF-020-SMA	NA	NA
* Suhner RF cable	Sucoflex104	204850/4	NA

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

4.3.3 TEST SETUP

Same as Item 4.2.4 (Conducted Power Setup)

^{2. &}quot;*" = These equipments are used for the final measurement.



4.3.4 TEST PROCEDURES

- a. The EUT makes a phone call to the communication simulator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels: 1013, 384 and 777 (low, middle and high operational frequency range.)
- b. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. This splitter loss and cable loss is the worst loss 6dB in the transmitted path track.
- c. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. FCC
 2.1049 (h) required a measurement bandwidth is the fundamental emission below 26dB bandwidth.

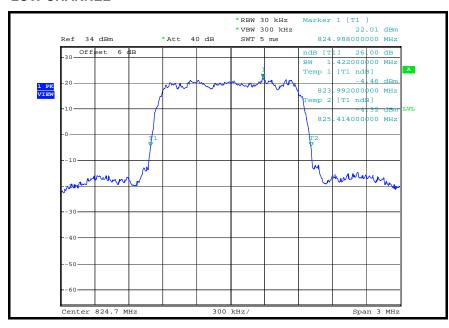


4.3.5 TEST RESULTS

FOR SO55:

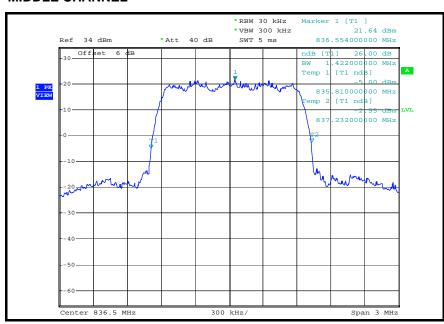
CHANNEL	MAX. OUTPUT POWER -26 dBc BANDWIDTH (MHz)
LOW	1.422
MIDDLE	1.422
HIGH	1.422

LOW CHANNEL

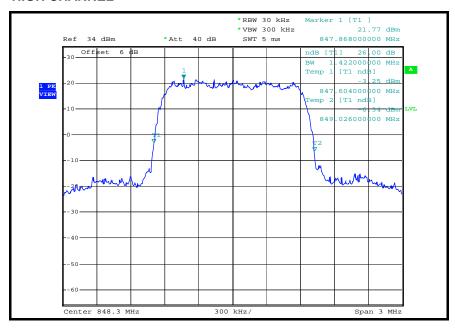




MIDDLE CHANNEL



HIGH CHANNEL

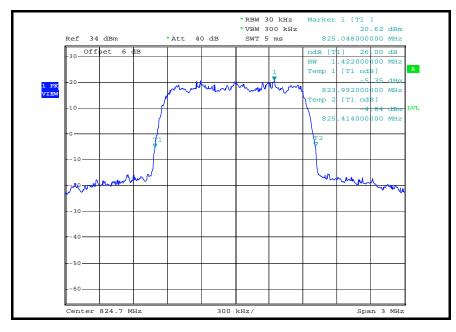




FOR EV-DO FTAP:

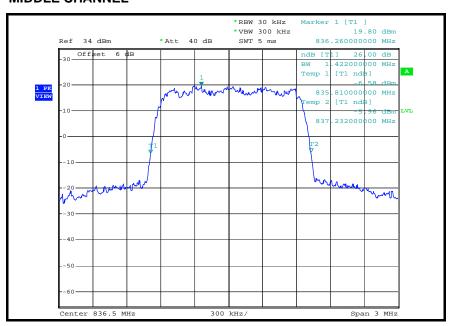
CHANNEL	MAX. OUTPUT POWER -26 dBc BANDWIDTH (MHz)
LOW	1.422
MIDDLE	1.422
HIGH	1.428

LOW CHANNEL

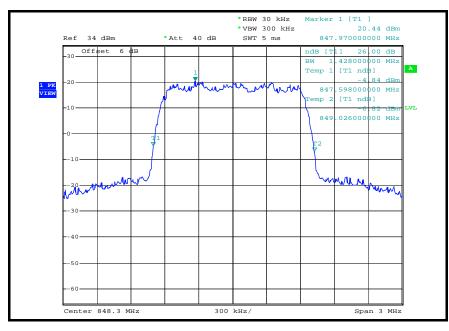




MIDDLE CHANNEL



HIGH CHANNEL

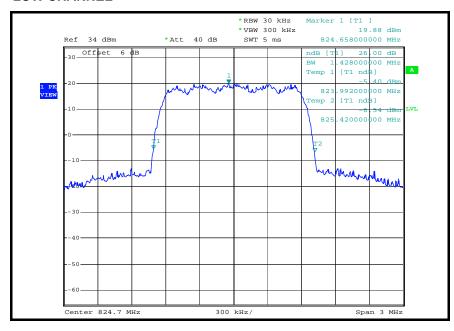




FOR EV-DO RTAP:

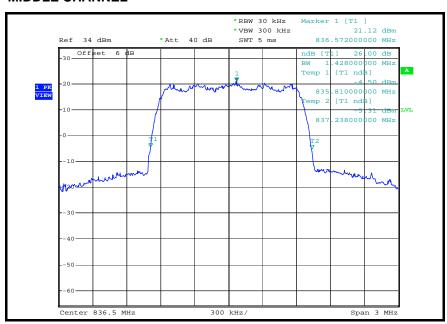
CHANNEL	MAX. OUTPUT POWER -26 dBc BANDWIDTH (MHz)
LOW	1.428
MIDDLE	1.428
HIGH	1.428

LOW CHANNEL

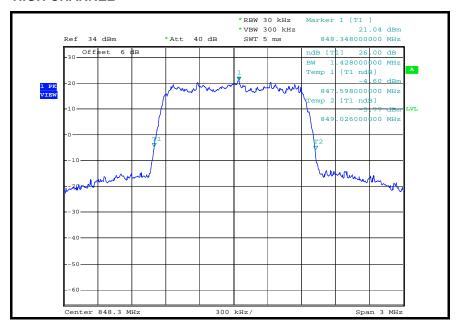




MIDDLE CHANNEL



HIGH CHANNEL





4.4 BAND EDGE MEASUREMENT

4.4.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC 22.917 specified that 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 1MHz 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 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
* ROHDE & SCHWARZ	FSP40	100040	Jul. 28, 2008
Spectrum Analyzer			
* Mini-Circuits Power Splitter	ZAPD-4	400005	NA
* Hewlett Packard RF cable	8120-6192	01428251	NA
* JFW 20dB attenuation	50HF-020-SMA	NA	NA
* Suhner RF cable	Sucoflex104	204850/4	NA

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

4.4.3 TEST SETUP

Same as Item 4.2.4 (Conducted Power Setup).

^{2. &}quot;*" = These equipments are used for the final measurement.



4.4.4 TEST PROCEDURES

- a. The EUT was set up for the maximum peak power with CDMA link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels: 1013 and 777 (low and high operational frequency range).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. This splitter loss and cable loss is the worst loss 6dB in the transmitted path track.
- c. The center frequency of spectrum is the band edge frequency and span is 3MHz. RB of the spectrum is 15kHz and VB of the spectrum is 15kHz.
- d. Record the max trace plot into the test report.

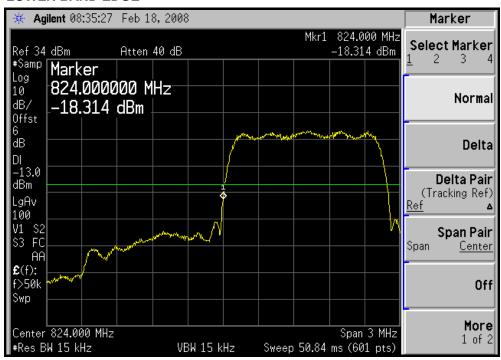
4.4.5 EUT OPERATING CONDITION

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

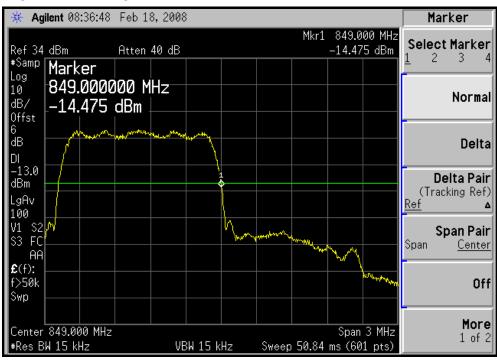


4.4.6 TEST RESULTS

LOWER BAND EDGE



HIGHER BAND EDGE





4.5 CONDUCTED SPURIOUS EMISSIONS

4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

In the FCC 22.917, On any frequency outside a licensee's frequency block within GSM850 spectrum, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 +10 log (P) dB. The limit of emission equal to –13dBm.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
* ROHDE & SCHWARZ Spectrum Analyzer	FSP40	100040	Jul. 28, 2008
* Wainwright Instruments Band Reject Filter	WRCG1850/1910- 1830/1930-60/10S S	SN1	NA
* Wainwright Instruments High Pass Filter	WHK3.1/18G-10SS	SN1	NA
* Mini-Circuits Power Splitter	ZAPD-4	400005	NA
* Hewlett Packard RF cable	8120-6192	01428251	NA
* JFW 20dB attenuation	50HF-020-SMA	NA	NA
* Suhner RF cable	Sucoflex104	204850/4	NA

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

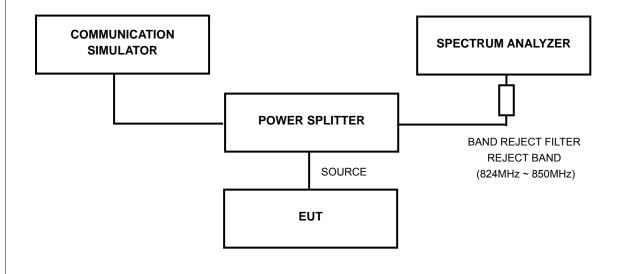
^{2. &}quot;*" = These equipments are used for the final measurement.



4.5.3 TEST PROCEDURE

- a. The EUT was set up for the maximum peak power with CDMA link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels, 1013, 384 and 777(low, middle and high operational frequency range.)
- b. The conducted spurious emission used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. This splitter loss and cable loss are the worst loss 6dB in the transmitted path track.
- c. When the spectrum scanned from 9kHz to 1GHz, it shall be connected to the band reject filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=1MHz.
- d. When the spectrum scanned from 1GHz to 9GHz, it shall be connected to the high pass filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=1MHz.

4.5.4 TEST SETUP





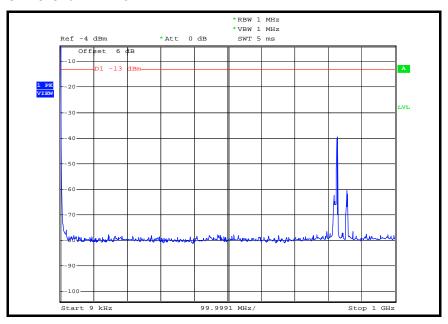
4.5.5	EUT OPERATING CONDITIONS

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

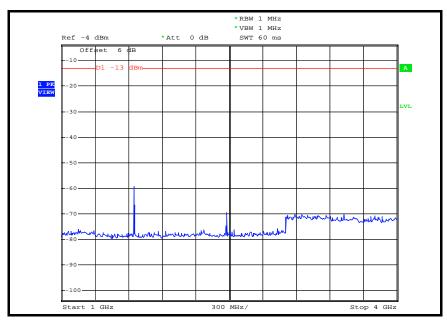


4.5.6 TEST RESULTS

CH 1013: 9kHz ~ 1GHz

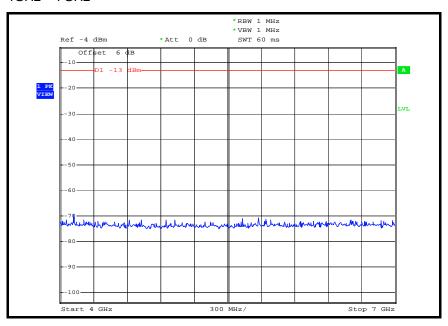


1GHz ~ 4GHz

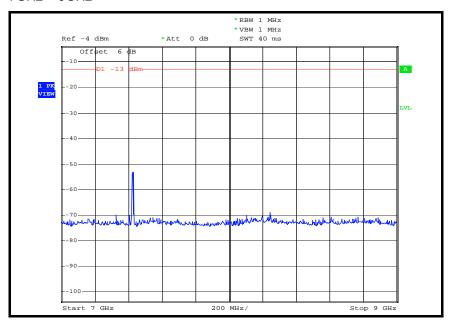




4GHz ~ 7GHz

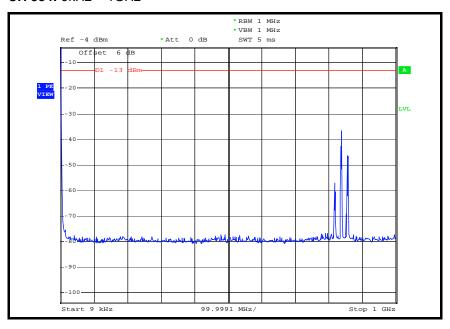


7GHz ~ 9GHz

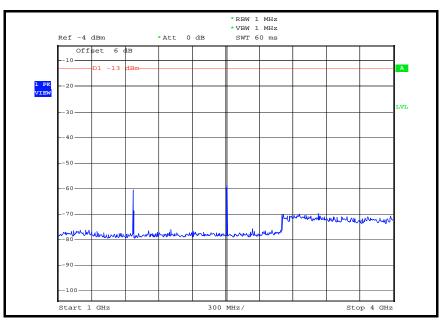




CH 384: 9kHz ~ 1GHz

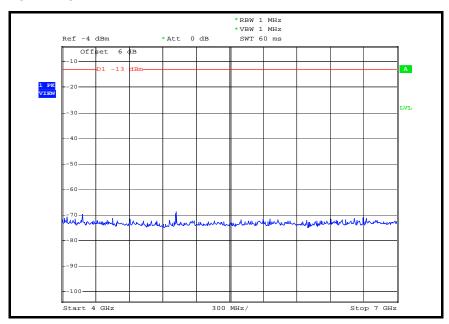


1GHz ~ 4GHz

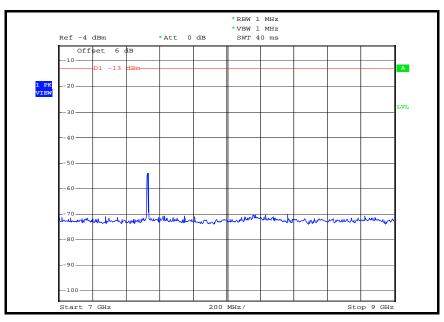




4GHz ~ 7GHz

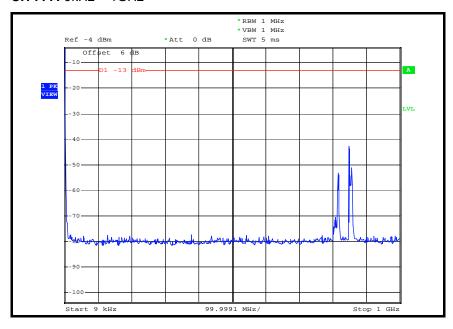


7GHz ~ 9GHz

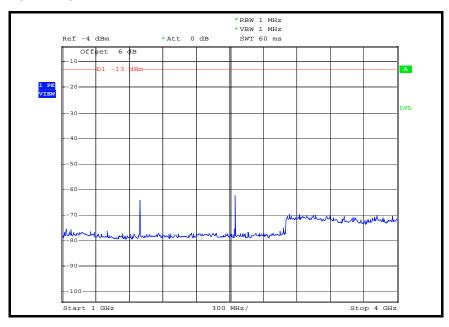




CH 777: 9kHz ~ 1GHz

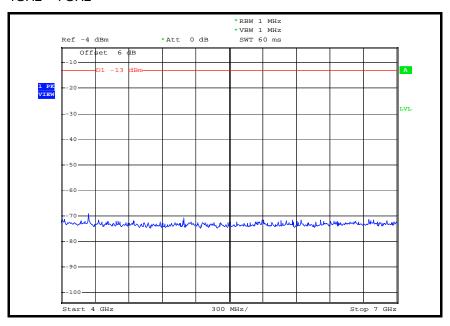


1GHz ~ 4GHz

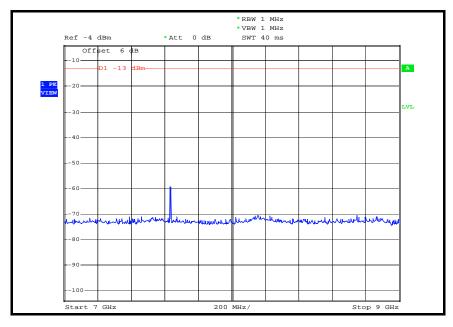




4GHz ~ 7GHz



7GHz ~ 9GHz





4.6 RADIATED EMISSION MEASUREMENT (BELOW 1GHz)

4.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

In the FCC 22.917, On any frequency outside a licensee's frequency block within GSM850 spectrum, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 +10 log (P)dB. The limit of emission equal to –13dBm. So the limit of emission is the same absolute specified line.

LIMIT (dBm)	EQUIVALENT FIELD STRENGTH AT 3m (dBuV/m) (NOTE)		
-13	82.22		

NOTE: The following formula is used to convert the equipment radiated power to field strength.

 $E = [1000000\sqrt{(30P)}] / 3 \text{ uV/m}$, where P is Watts.



4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Dec. 25, 2008
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Dec. 02, 2008
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Jan. 03, 2009
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-405	Dec. 17, 2008
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 06, 2009
Preamplifier Agilent	8449B	3008A01910	Sep. 19, 2008
Preamplifier Agilent	8447D	2944A10634	Dec. 12, 2008
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	274397/4	Nov. 07, 2008
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	283401/4	Nov. 07, 2008
Software ADT.	ADT_Radiated_V7.6	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA
Turn Table ADT.	TT100.	TT93021704	NA
Turn Table Controller ADT.	SC100.	SC93021704	NA

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

- 2. The test was performed in HwaYa Chamber 4.
- 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FC Site Registration No. is 460141.
- 5. The IC Site Registration No. is IC3789B-4.



4.6.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the receiving antenna, which was mounted on antenna tower and its position at 0.8 m above the ground.
- c. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading and recorded the value.
- d. Repeat step a ~ c for horizontal polarization.

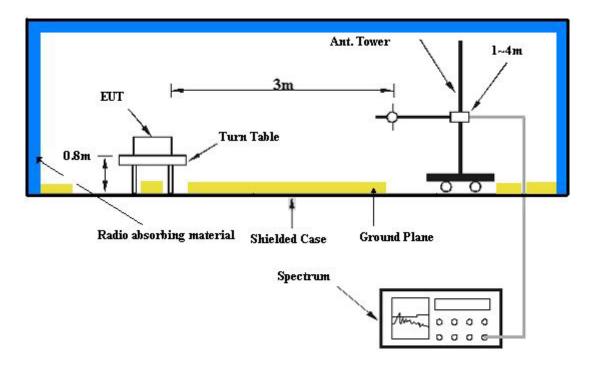
NOTE: The resolution bandwidth of spectrum analyzer is 1MHz and the video bandwidth is 3MHz.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation



4.6.5 TEST SETUP



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

4.6.6 EUT OPERATING CONDITIONS

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



4.6.7 TEST RESULTS

MODE	TX channel 1013	DETECTOR FUNCTION	Quasi-Peak
FREQUENCY RANGE Below 1000MHz		INPUT POWER (SYSTEM)	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	22deg. C, 69%RH, 988hPa	TESTED BY	Lori Chiu

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	70.82	42.66 QP	82.22	-39.56	2.00 H	262	30.60	12.06	
2	138.86	37.43 QP	82.22	-44.79	2.00 H	82	24.07	13.36	
3	193.29	39.58 QP	82.22	-42.64	1.50 H	214	27.78	11.80	
4	261.32	38.18 QP	82.22	-44.04	2.00 H	28	24.22	13.95	
5	700.64	37.29 QP	82.22	-44.93	1.50 H	85	12.04	25.26	
6	900.86	40.67 QP	82.22	-41.55	1.00 H	64	12.70	27.96	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	70.82	51.74 QP	82.22	-30.48	1.00 V	232	39.68	12.06	
2	123.31	45.49 QP	82.22	-36.73	1.00 V	196	33.07	12.42	
3	261.32	40.09 QP	82.22	-42.13	1.00 V	241	26.14	13.95	
4	471.26	37.08 QP	82.22	-45.14	1.00 V	226	17.48	19.59	
5	700.64	40.70 QP	82.22	-41.52	1.00 V	274	15.44	25.26	
6	900.86	41.37 QP	82.22	-40.85	1.00 V	283	13.41	27.96	

NOTE:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. This is valid for all 3 channels.



4.7 RADIATED EMISSION MEASUREMENT (ABOVE 1GHz)

4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

In the FCC 22.917 (a), On any frequency outside a licensee's frequency block within GSM spectrum, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB. The limit of emission equal to -13dBm.



4.7.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Dec. 25, 2008
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Dec. 02, 2008
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Jan. 03, 2009
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-405	Dec. 17, 2008
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 06, 2009
Preamplifier Agilent	8449B	3008A01910	Sep. 19, 2008
Preamplifier Agilent	8447D	2944A10634	Dec. 12, 2008
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	274397/4	Nov. 07, 2008
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	283401/4	Nov. 07, 2008
Software ADT.	ADT_Radiated_V7.6	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA
Turn Table ADT.	TT100.	TT93021704	NA
Turn Table Controller ADT.	SC100.	SC93021704	NA

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

- 2. The test was performed in HwaYa Chamber 4.
- 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FC Site Registration No. is 460141.
- 5. The IC Site Registration No. is IC3789B-4.



4.7.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the receiving antenna, which was mounted on antenna tower and its position at 0.8 m above the ground.
- c. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading and recorded the value.
- d. The EUT is replaced by a horn antenna connected to a signal generator tuned to the frequency of emission.
- e. The signal generator level has to be adjusted to have the same emission nature.
- f. The radiated power can be calculated via the factor and antenna gain.
- g. Repeat step a ~ f for horizontal polarization.

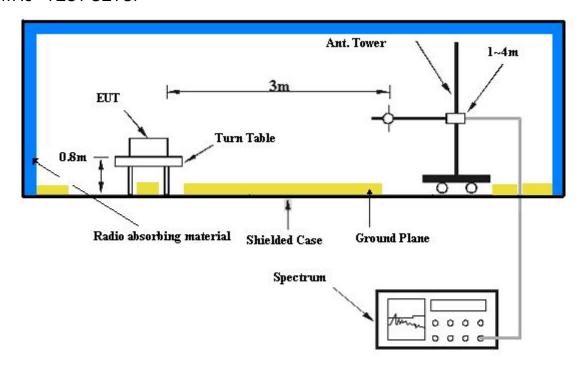
NOTE: The resolution bandwidth of spectrum analyzer is 1MHz and the video bandwidth is 3MHz.

4.7.4 DEVIATION FROM TEST STANDARD

No deviation



4.7.5 TEST SETUP



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

4.7.6 EUT OPERATING CONDITIONS

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



4.7.7 TEST RESULTS

MODE	IChannel 1013	FREQUENCY RANGE	Above 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	22degoC, 58%RH, 988hPa
TESTED BY	Kevin Liang		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						
No.	No. Freq. (MHz) Emission Level (dBuV) Limit (dBm) S.G Power Value (dBm) Factor (dB) (dBm)					Power Value (dBm)	
1	1649.40	42.39	-13.00	-62.96	10.12	-52.84	
2	2474.10	38.22	-13.00	-67.90	11.49	-56.41	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						
No.	No. Freq. (MHz) Emission Level (dBuV) Limit (dBm) S.G Power Correction Power Value (dBm) Factor (dB) (dBm)					Power Value (dBm)	
1	1649.40	49.74	-13.00	-55.61	10.12	-45.49	
2	2474.10	40.49	-13.00	-66.23	11.49	-54.74	

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



MODE	Channel 384	FREQUENCY RANGE	Above 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz		22degoC, 58%RH, 988hPa
TESTED BY	Kevin Liang		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						
No.	No. Freg. (MHz)				Power Value (dBm)		
1	1673.04	40.99	-13.00	-64.36	10.12	-54.24	
2	2509.56	39.79	-13.00	-66.93	11.49	-55.44	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						
No.	No. Freq. (MHz)				Power Value (dBm)		
1	1673.04	48.04	-13.00	-57.31	10.12	-47.19	
2	2509.56	41.63	-13.00	-65.07	11.49	-53.60	

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



MODE	Channel 777	FREQUENCY RANGE	Above 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	22degoC, 58%RH, 988hPa
TESTED BY	Kevin Liang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						
No.	Freq. (MHz)	Emission Level (dBuV)	Limit (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Power Value (dBm)
1	1696.62	40.42	-13.00	-64.98	10.17	-54.81
2	2544.93	41.88	-13.00	-64.84	11.49	-53.35

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						
No.	Freq. (MHz)	Emission Level (dBuV)	Limit (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Power Value (dBm)
1	1696.62	50.50	-13.00	-54.90	10.17	-44.73
2	2544.93	41.14	-13.00	-65.58	11.49	-54.09

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



5 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA FCC, UL, A2LA GERMANY TUV Rheinland

JAPAN VCCI NORWAY NEMKO

CANADA INDUSTRY CANADA, CSA

R.O.C. TAF, BSMI, NCC

NETHERLANDS Telefication

SINGAPORE GOST-ASIA (MOU)
RUSSIA CERTIS (MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:Hsin Chu EMC/RF Lab:Tel: 886-2-26052180Tel: 886-3-5935343Fax: 886-2-26051924Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab: Web Site: www.adt.com.tw

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



6 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.