

b mobile HK Limited

Mobile Phone

Main Model: AX515

3rd August, 2012

Report No.: 12050064-FCC-R1

(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:

		
Back Huang Compliance Engineer	Alex Liu Technical Manager	

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Test result presented in this test report is applicable to the representative sample only.

RF Test Report

To: FCC Part 22(H) & FCC Part 24(E): 2011

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Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC , RF/Wireless , Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless , Telecom
Taiwan	BSMI , NCC , NIST	EMC, RF, Telecom , Safety
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Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC , RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom , Safety

Accreditations for Product Certifications

Country/Region	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC , RF , Telecom
Canada	IC FCB , NIST	EMC , RF , Telecom
Singapore	iDA, NIST	EMC , RF , Telecom
EU	NB	EMC & R&TTE Directive
Japan	MIC, (RCB 208)	RF , Telecom
Hong Kong	OFTA (US002)	RF , Telecom

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1. EXECUTIVE SUMMARY & EUT INFORMATION

The purpose of this test programmed was to demonstrate compliance of the b mobile HK Limited, Mobile Phone and model: AX515 against the current Stipulated Standards. The Mobile Phone has demonstrated compliance with the FCC Part 22(H) & FCC Part 24(E): 2011.

EUT Information

EUT

Description : Mobile Phone

Main Model : AX515

Antenna Gain : UMTS-FDD Band V/GSM850: 0.6 dBi
 UMTS-FDD Band II/PCS1900: 0.2 dBi
 Bluetooth: 0.1 dBi
 WLAN: 0.1 dBi
 GPS: 1 dBi

Input Power : B mobile AC Adapter
 Input: AC 100-240V 20mA 50/60Hz
 Output: DC 5.0V 500mA
 Li-ion Battery

Maximum Conducted Peak Power to Antenna : Charging Voltage: 3.7V 1100 mAh
 Charge Cut-off Voltage: 4.2 V
 GSM850: 31.55 dBm
 PCS1900: 28.61 dBm
 UMTS-FDD Band V : 21.85 dBm
 UMTS-FDD Band II : 21.72 dBm

Maximum Radiated ERP/EIRP : Please refer to report 12050033-FCC-R1.

Classification

Per Stipulated Test Standard : FCC Part 22(H) & FCC Part 24(E): 2011

*Note: The Conducted Power of model AX515 compares with model A50, they are almost the same. So, the **ERP & EIRP** refer to report 12050033-FCC-R1.*

2. TECHNICAL DETAILS

Purpose	Compliance testing of Mobile Phone with stipulated standard
Applicant / Client	b mobile HK Limited G/F. 144 UN CHAU STREET, SHAM SHUI PO, KOWLOON HONG KONG, CHINA
Manufacturer	b mobile HK Limited G/F. 144 UN CHAU STREET, SHAM SHUI PO, KOWLOON HONG KONG, CHINA
Laboratory performing the tests	SIEMIC Nanjing (China) Laboratories NO.2-1, Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel: +86(25)86730128/86730129 Fax: +86(25)86730127 Email: info@siemic.com
Test report reference number	12050064-FCC-R1
Date EUT received	30th July, 2012
Standard applied	FCC Part 22(H) & FCC Part 24(E): 2011
Dates of test	1st August, 2012
No of Units	#1
Equipment Category	PCE
Trade Name	B Mobile
RF Operating Frequency (ies)	GSM850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz PCS1900 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz UMTS-FDD Band V TX : 826.4 ~ 846.6 MHz; RX : 871.4 ~ 891.6 MHz UMTS-FDD Band II TX : 1852.4 ~ 1907.6 MHz; RX : 1932.4 ~ 1987.6 MHz WLAN(2.4GHz band) 802.11b/g/n : 2412-2462 MHz Bluetooth : 2402-2480 MHz
Number of Channels	299CH (PCS1900) and 124CH (GSM850) UMTS-FDD Band V : 102CH UMTS-FDD Band II : 277CH Bluetooth: 79CH WLAN: 11CH
Modulation	GSM / GPRS: GMSK UMTS-FDD: QPSK WLAN: DSSS/OFDM Bluetooth: GFSK
GPRS Multi-slot class	8/10/12
FCC ID	ZSW-AX510-AX515

3. MODIFICATION

NONE

4. TEST SUMMARY

The product was tested in accordance with the following specifications.
 All testing has been performed according to below product classification:

PCE

Test Results Summary

Test Standard	Description	Product Class	Pass / Fail
§ 1.1307, § 2.1093	RF Exposure (SAR)	See Above	Pass
§2.1046; § 22.913 (a); § 24.232 (c)	RF Output Power	See Above	Pass
§ 2.1047	Modulation Characteristics	See Above	Refer to report 12050033- FCC-R1
§ 2.1049; § 22.905 § 22.917; § 24.238	99% & -26 dB Occupied Bandwidth	See Above	
§ 2.1051, § 22.917 (a); § 24.238 (a)	Spurious Emissions at Antenna Terminal	See Above	
§ 2.1053 § 22.917 (a); § 24.238 (a)	Field Strength of Spurious Radiation	See Above	
§ 22.917 (a); § 24.238 (a)	Out of band emission, Band Edge	See Above	
§ 2.1055 § 22.355; § 24.235	Frequency stability vs. temperature Frequency stability vs. voltage	See Above	

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different.

5. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

5.1 §1.1307, §2.1093- RF Exposure (SAR)

Test Result: Pass

The EUT is a portable device, thus requires SAR evaluation;
please refer to SIEMIC SAR Report: 12050064-FCC-H

5.2 §2.1046 ;§22.913 (a); §24.232 (c)- RF Output Power

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.
3. Environmental Conditions

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
4. Test date : 1st August, 2012
Tested By : Back Huang

Procedures:

For Conducted Power:

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different test mode.

For ERP/EIRP:

1. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = $10 \lg (\text{TXpwr in Watts}/0.001)$ – the absolute level

Spurious attenuation limit in dB = $43 + 10 \text{Log}_{10} (\text{power out in Watts})$

Test Result: Pass

Remark: Conducted Burst Average power for reporting purposes only

Conducted Power

GSM Mode:

GSM850&PCS1900

Burst Average Power (dBm)								
Band	GSM850				PCS1900			
Channel	128	190	251	Tune up Power tolerant	512	661	810	Tune up Power tolerant
Frequency (MHz)	824.2	836.6	848.8	/	1850.2	1880	1909.8	/
GSM Voice (1 uplink)	31.55	31.53	31.53	32±1	28.61	28.52	28.42	29±1
GPRS Multi-Slot Class 8 (1 uplink)	31.53	31.54	31.51	32±1	28.55	28.47	28.38	29±1
GPRS Multi-Slot Class 10 (2 uplink)	30.75	30.73	30.72	30±1	27.82	27.72	27.61	27±1
GPRS Multi-Slot Class 12 (4 uplink)	28.45	28.44	28.43	28±1	25.53	25.44	25.36	25±1
Remark : GPRS, CS1 coding scheme. Multi-Slot Class 8 , Support Max 4 downlink, 1 uplink , 5 working link Multi-Slot Class 10 , Support Max 4 downlink, 2 uplink , 5 working link Multi-Slot Class 12 , Support Max 4 downlink, 4 uplink , 5 working link								

Note: Since GSM mode has higher power, so the test items below were not performed to GPRS mode.

UMTS Mode:

UMTS-FDD Band V

Band/ Time Slot configuration	Channel	Frequency	Peak power (dBm)	Average power (dBm)
RMC 12.2kbps	4132	826.4	22.80	21.82
	4175	835.0	22.81	21.85
	4233	846.6	22.65	21.71
HSDPA Subtest1	4132	826.4	21.33	20.80
	4175	835.0	21.35	20.81
	4233	846.6	21.22	20.64
HSDPA Subtest2	4132	826.4	21.21	20.66
	4175	835.0	21.34	20.73
	4233	846.6	21.16	20.63
HSDPA Subtest3	4132	826.4	21.32	20.77
	4175	835.0	21.35	20.81
	4233	846.6	21.23	20.71
HSDPA Subtest4	4132	826.4	21.31	20.75
	4175	835.0	21.36	20.80
	4233	846.6	21.22	20.70
HSUPA Subtest1	4132	826.4	21.33	20.80
	4175	835.0	21.38	20.82
	4233	846.6	21.24	20.71
HSUPA Subtest2	4132	826.4	21.31	20.76
	4175	835.0	21.35	20.80
	4233	846.6	21.20	20.71
HSUPA Subtest3	4132	826.4	21.31	20.76
	4175	835.0	21.34	20.78
	4233	846.6	21.24	20.71
HSUPA Subtest4	4132	826.4	21.33	20.75
	4175	835.0	21.36	20.82
	4233	846.6	21.22	20.71
HSUPA Subtest5	4132	826.4	21.30	20.76
	4175	835.0	21.36	20.81
	4233	846.6	21.21	20.70

UMTS-FDD Band II

Band/ Time Slot configuration	Channel	Frequency	Peak power (dBm)	Average power (dBm)
RMC 12.2kbps	9262	1852.4	22.76	21.72
	9400	1880.0	22.70	21.66
	9538	1907.6	22.44	21.43
HSDPA Subtest1	9262	1852.4	21.25	20.71
	9400	1880.0	21.21	20.65
	9538	1907.6	20.97	20.43
HSDPA Subtest2	9262	1852.4	21.24	20.70
	9400	1880.0	21.22	20.66
	9538	1907.6	20.96	20.42
HSDPA Subtest3	9262	1852.4	21.26	20.74
	9400	1880.0	21.20	20.64
	9538	1907.6	20.96	20.46
HSDPA Subtest4	9262	1852.4	21.24	20.71
	9400	1880.0	21.21	20.65
	9538	1907.6	20.98	20.47
HSUPA Subtest1	9262	1852.4	21.33	20.80
	9400	1880.0	21.32	20.77
	9538	1907.6	20.97	20.45
HSUPA Subtest2	9262	1852.4	21.33	20.81
	9400	1880.0	21.32	20.76
	9538	1907.6	20.97	20.41
HSUPA Subtest3	9262	1852.4	21.35	20.80
	9400	1880.0	21.31	20.75
	9538	1907.6	20.95	20.42
HSUPA Subtest4	9262	1852.4	21.36	20.81
	9400	1880.0	21.32	20.75
	9538	1907.6	20.95	20.44
HSUPA Subtest5	9262	1852.4	21.34	20.81
	9400	1880.0	21.33	20.75
	9538	1907.6	20.97	20.46

5.3 §2.1047 - Modulation Characteristic

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

5.4 §2.1049, §22.917, §22.905 & §24.238 - Occupied Bandwidth

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyser was connected to the antenna terminal.
2. Environmental Conditions

Temperature	23°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
3. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.
4. Test date : N/A
Tested By : N/A

Procedures:

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers.

Test Results: Please refer to report 12050033-FCC-R1.

5.5 §2.1051, §22.917(a) & §24.238(a) - Spurious Emissions at Antenna Terminals

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.
3. Environmental Conditions

Temperature	23°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
4. Test date : N/A
Tested By : N/A

Standard Requirement:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

Procedures:

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.

Test Result: Please refer to report 12050033-FCC-R1.

5.6 §2.1053, §22.917 & §24.238 - Spurious Radiated Emissions

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Radiated Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 1GHz – 40GH is $\pm 6.0\text{dB}$ (for EUTs $< 0.5\text{m} \times 0.5\text{m} \times 0.5\text{m}$).
4. Environmental Conditions

Temperature	23°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
5. Test date : N/A
Tested By : N/A

Standard Requirement:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

Procedures:

Equipment was setup in a semi-anechoic chamber. For measurements above 1 GHz an average measurement was taken with a 10Hz video bandwidth. The EUT was tested at low, mid and high with the highest output power. An emission was scan up to 10th harmonic of the operating frequency.

Sample Calculation:

EUT Field Strength = Raw Amplitude (dB μ V/m) – Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)

Test Result: Please refer to report 12050033-FCC-R1.

5.7 §22.917(a) & §24.238(a) - Band Edge

1. Conducted Measurement
EUT was set for low, mid, high channel with modulated mode and highest RF output power.
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is $\pm 1.5\text{dB}$.
3. Environmental Conditions

Temperature	23°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
4. Test date : N/A
Tested By : N/A

Standard Requirement:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

Procedures:

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.

Test Result: Please refer to report 12050033-FCC-R1.

5.8 §2.1055, §22.355 & §24.235 - Frequency Stability

- | | | | |
|----|--------------------------|----------------------|----------|
| 1. | Environmental Conditions | Temperature | 23°C |
| | | Relative Humidity | 50% |
| | | Atmospheric Pressure | 1019mbar |
| 2. | Test date : N/A | | |
| | Tested By : N/A | | |

Standard Requirement:

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.

Procedures:

A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage.

Limit: The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

Test Results: Please refer to report 12050033-FCC-R1.

Annex A. TEST INSTRUMENT & METHOD

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Serial #	Calibration Date	Calibration Due Date
RF conducted test				
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	CFG038	10/25/2011	10/24/2012
Power Splitter	1#	1#	02/02/2012	02/01/2013
Universal Radio Communication Tester	CMU200	121393	02/22/2012	02/21/2013
Temperature/Humidity Chamber	1007H	N/A	01/08/2012	01/07/2013
DC Power Supply	PS-305D	010943059	02/22/2012	02/21/2013
Radiated Emissions				
Hp Spectrum Analyzer	8563E	3821A09023	01/10/2012	01/09/2013
R&S EMI Receiver	ESPI3	101216	08/26/2011	08/25/2012
Antenna (30MHz~6GHz)	JB6	A121411	12/28/2011	12/27/2012
ETS-Lindgren Antenna(1 ~18GHz)	3115	N/A	10/04/2011	10/03/2012
A- INFOMW Antenna (1 ~18GHz)	JXTXLB-10180	J2031081120092	06/25/2012	06/24/2013
Horn Antenna (18~40GHz)	AH-840	N/A	07/22/2012	07/21/2013
Microwave Pre-Amp (18~40GHz)	PA-840	N/A	Every 2000 Hours	
Hp Agilent Pre-Amplifier	8447F	1937A01160	05/25/2012	05/24/2013
MITEQ Pre-Amplifier (0.1 ~ 18GHz)	AMF-7D-00101800-30-10P	1451710	05/26/2012	05/25/2013
Universal Radio Communication Tester	CMU200	104031	03/01/2012	02/28/2013
Chamber	3m	N/A	04/13/2012	04/12/2013

Annex A. ii. RADIATED EMISSIONS TEST DESCRIPTION

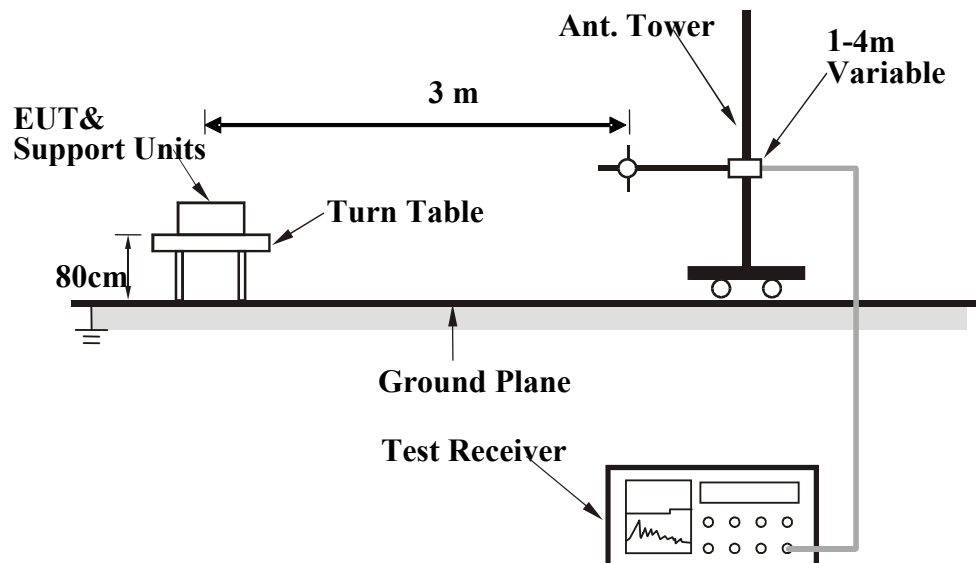
EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 1GHz (for FCC tests, until the 10th harmonic for operating frequencies $\geq 108\text{MHz}$), was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m or 10m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS) or EMC 3m chamber.

Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

Final Radiated Emission Measurement

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site or EMC 10m chamber. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Description of Radiated Emission Program

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the scan on four different antenna heights, 2 antenna polarity, and 360 degrees table rotation. For example, the program was set to run 30 MHz to 1 GHz scan; the program will first start from a meter antenna height and divide the 30 MHz to 1 GHz into 10 separate parts of maximum hold sweeps. Each parts of maximum hold sweep, the program will collect the data from 0 degree to 360 degrees table rotation. After the program complete the 1m scan, the antenna continues to rise to 2m and continue the scan. The step will repeated for all specified antenna height and polarity. This program will perform the Quasi Peak measurement after the signal maximization process and pre-scan routine. The final measurement will be base on the pre-scan data reduction result.

Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any)

And the average value is

$$\begin{aligned} \text{Average} &= \text{Peak Value} + \text{Duty Factor or} \\ \text{Set RBW} &= 1\text{MHz, VBW} = 10\text{Hz.} \end{aligned}$$

Note:

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.

Annex B. EUT AND TEST SETUP PHOTOGRAPHS

Please see the attachment

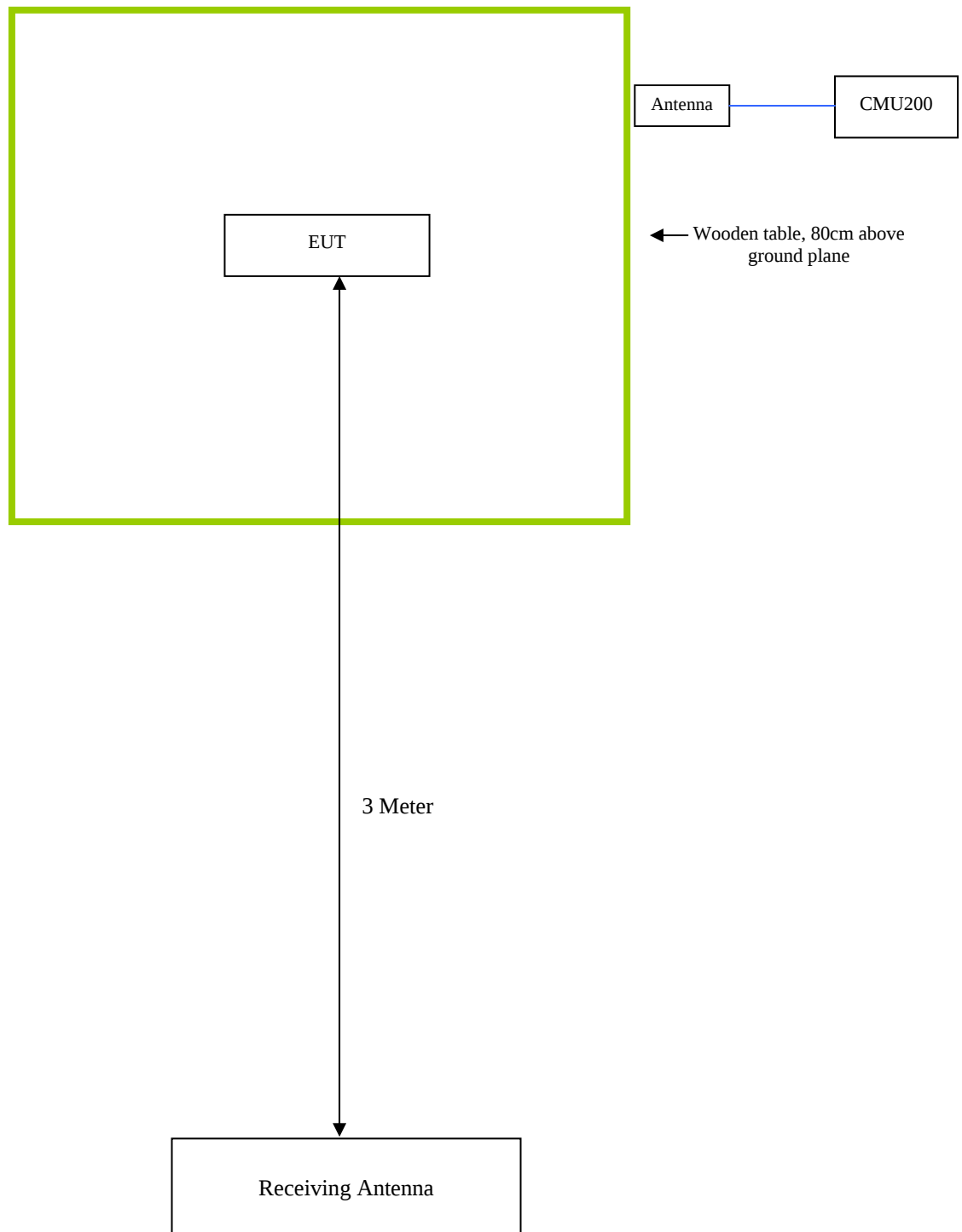
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

EUT TEST CONDITIONS

Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Block Configuration Diagram for Radiated Emissions



Annex C.ii. EUT OPERATING CONDITIONS

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
Emissions Testing	The EUT was communicating with base station and set to work at maximum output power.
Others Testing	The EUT was communicating with base station and set to work at maximum output power.

Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST

Please see attachment

Annex E. DECLARATION OF SIMILARITY



b mobile HK Limited

ADD: G/F., 144 UN CHAU STREET, SHAM SHUI PO, KOWLOON, HONG

KONG, China

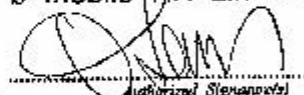
Declaration on model difference

产品差异声明

We declare that the difference of test sample of project 12050064 from test sample of project 12050033 is to remove one SIM card connector, other parts keep the same. the logo had been added on the frontal of the cell phone

Confirmed by

For and on behalf of
b mobile HK Limited



Authorized Signature:

DATE: 2012.08.13