



# FCC Test Report

**APPLICANT** : HUAWEI TECHNOLOGIES CO., LTD.  
**EQUIPMENT** : GSM Mobile Phone  
**BRAND NAME** : HUAWEI  
**MODEL NAME** : HUAWEI G5580  
**FCC ID** : QISG5580  
**STANDARD** : FCC 47 CFR FCC Part 15 Subpart B  
**CLASSIFICATION** : Certification

The product was received on Oct. 01, 2009 and completely tested on Nov. 05, 2009. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:

Roy Wu / Manager



**SPORTON INTERNATIONAL (KUNSHAN) INC.**  
**No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.**



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### SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.107	7.2.2	AC Conducted Emission	< 15.107 limits < RSS-Gen table 2 limits	PASS	Under limit 4.44 dB at 17.51 MHz
3.2	15.109	7.2.3.2	Radiated Emission	< 15.109 limits or < RSS-Gen table 1 limits (Section 6)	PASS	Under limit 4.56 dB at 216.03 MHz



# 1. General Description

## 1.1. Applicant

HUAWEI TECHNOLOGIES CO., LTD.

Administration Building, Huawei Base, Bantian, Longgang District, Shenzhen 518129

## 1.2. Manufacturer

HUAWEI TECHNOLOGIES CO., LTD.

Administration Building, Huawei Base, Bantian, Longgang District, Shenzhen 518129

## 1.3. Feature of Equipment Under Test

Product Feature & Specification	
Equipment	GSM Mobile Phone
Brand Name	HUAWEI
Model Name	HUAWEI G5580
FCC ID	QISG5580
Tx Frequency Range	GSM850 : 824 MHz ~ 849 MHz GSM1900 : 1850 MHz ~ 1910 MHz
Rx Frequency Range	GSM850 : 869 MHz ~ 894 MHz GSM1900 : 1930 MHz ~ 1990 MHz
Antenna Type	Fixed Internal Antenna
HW Version	V1.0_US
SW Version	G5580CA.P63.M21.01.07
Type of Modulation	GSM / GPRS : GMSK EDGE : 8PSK
EUT Stage	Identical Prototype

**List of Accessory:**

Specification of Accessory		
<b>AC Adapter</b>	<b>Brand Name</b>	HUAWEI
	<b>Model Name</b>	ASUC1 – 050065
	<b>Power Rating</b>	I/P:100-240Vac, 50-60Hz, 0.3A; O/P: 5.0Vdc, 0.65A
<b>Battery</b>	<b>Brand Name</b>	HUAWEI
	<b>Model Name</b>	HB5E3
	<b>Power Rating</b>	3.7Vdc, 680mAh
	<b>Type</b>	Li-ion
<b>Earphone</b>	<b>Brand Name</b>	nf-shunda
	<b>Model Name</b>	TS300-03MS08
	<b>Signal Line Type</b>	1.18 meter non-shielded cable without ferrite core
<b>USB Cable</b>	<b>Brand Name</b>	SWM
	<b>Model Name</b>	SA09100901
	<b>Signal Line Type</b>	1.25 meter shielded cable without ferrite core
<b>LCD Panel</b>	<b>Brand Name</b>	VL
	<b>Model Name</b>	COG-T200MZFP-01
<b>Camera</b>	<b>Brand Name</b>	Sunny
	<b>Model Name</b>	0H026-0JG

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. For accessories equipped with this EUT, please refer to the appendix of the external photo.

## 1.4. Test Site

<b>Test Site</b>	SPORTON INTERNATIONAL (KUNSHAN) INC.
<b>Test Site Location</b>	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958
<b>Test Site No.</b>	<b>Sporton Site No.</b> 03CH01-KS ; CO01-KS

## 1.5. Applied Standards

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

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2003
- IC RSS-Gen Issue 2

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

## 1.6. Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Nokia	HS-12W	PYAHS-12W	N/A	N/A
3.	PC	DELL	MT320	FCC DoC	N/A	Unshielded, 1.8 m
4.	Monitor	Q-Bell	L91C	FCC DoC	Shielded, 1.2 m	Unshielded, 1.8 m
5.	(USB)Mouse	DELL	MO56UC	FCC DoC	Shielded, 1.8 m	N/A
6.	(USB)Keyboard	DELL	L100	FCC DoC	Shielded, 1.8 m with core	N/A
7.	Printer	HP	Laser Jet 1018	FCC DoC	Shielded, 1.8 m	Unshielded, 1.8 m
8.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A

## 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Pre-scanned tests were conducted to determine the final configuration from all possible combinations.

The following tables are showing the test modes as the worst cases and recorded in this report.

Item	EUT Configuration	Test Condition		
		EMI AC	EMI RE<1G	EMI RE≥1G
1.	Operating Mode (EUT with Earphone)	Note 1	☒	Note 1
2.	Charging Mode (EUT with adapter)	☒	☒	Note 1
3.	Charging Mode (EUT with notebook)	☒	☒	☒

**Abbreviations:**

- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

**Note 1:** Testing for this mode is not required or not the worst case.

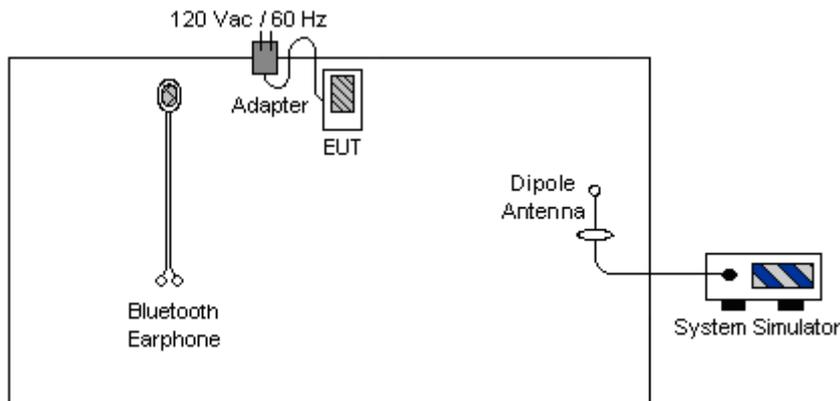
Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1	Mode 1 : GSM850 Idle + Bluetooth Idle + Adapter Mode 2 : GSM1900 Idle + Bluetooth Idle + USB Cable (Link with PC)
Radiated Emissions < 1GHz	1/2/3	Mode 1 : GSM850 Idle + Bluetooth Idle + Adapter Mode 2 : GSM1900 Idle + Bluetooth Idle + Earphone Mode 3 : GSM850 Idle + Bluetooth Idle + USB Cable (Link with PC)
Radiated Emissions ≥ 1GHz	3	Mode 1 : GSM850 Idle + Bluetooth Idle + USB Cable (Link with PC)

**Remark:**

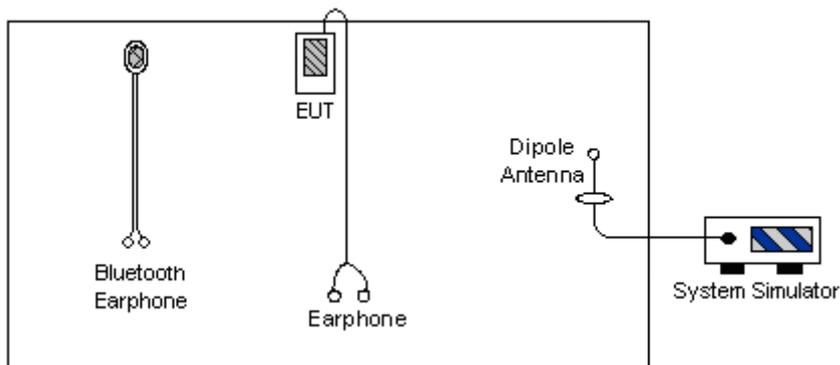
1. The worst case of AC is mode 2; only the test data of this mode was reported.
2. The worst case of RE < 1G is mode 3; only the test data of this mode was reported.

## 2.2. Connection Diagram of Test System

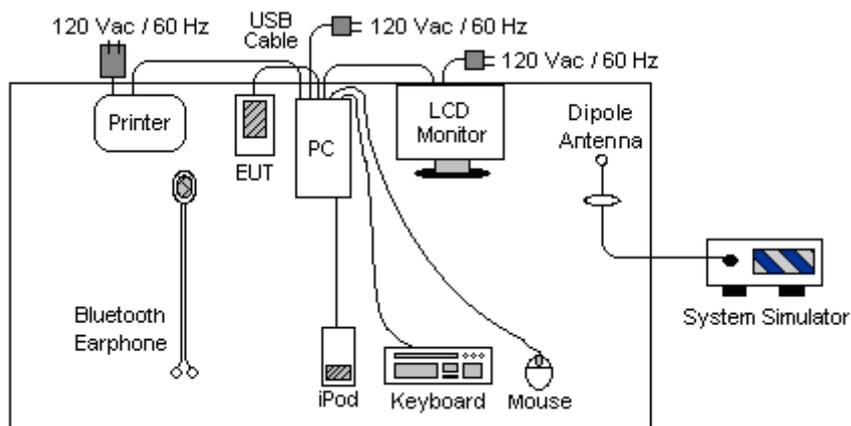
### <EUT with Adapter Mode>



### <EUT with Earphone Mode>



### <EUT with USB Cable (Link with PC) Mode>





## **2.3. Test Software**

The EUT was in GSM idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached with the Bluetooth earphone.

In addition, execute the program, "Winthrax" under WINXP installed in PC for active sync files transfer via USB cable.

### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

##### 3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

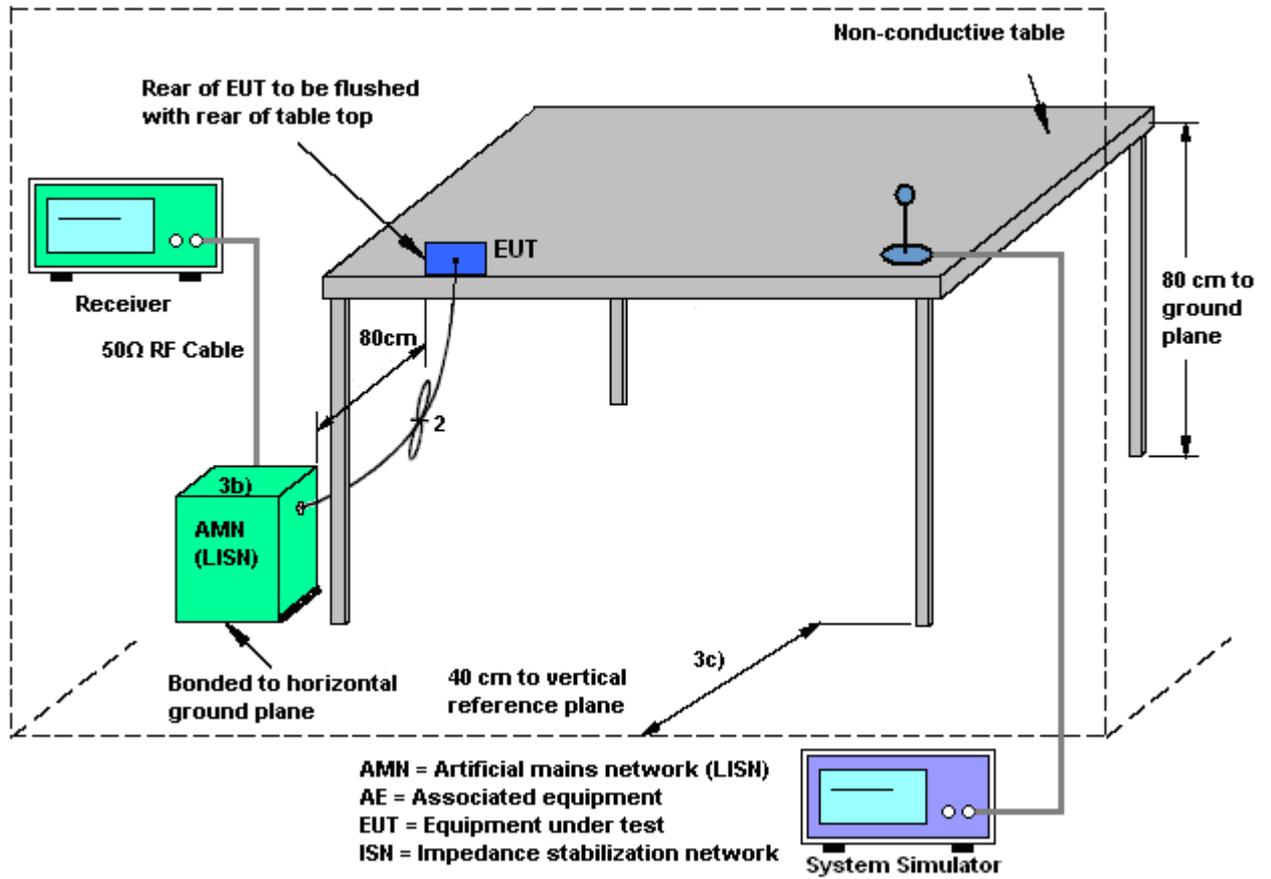
##### 3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

##### 3.1.3 Test Procedure

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

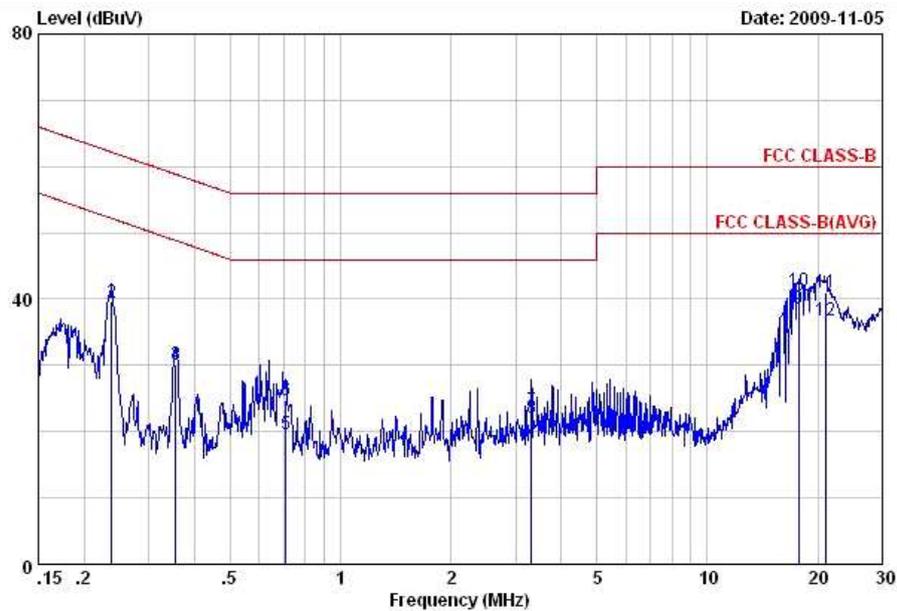
### 3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 2	Temperature :	24~25°C
Test Engineer :	Rain Zhou	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM1900 Idle + Bluetooth Idle + USB Cable (Link with PC)		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



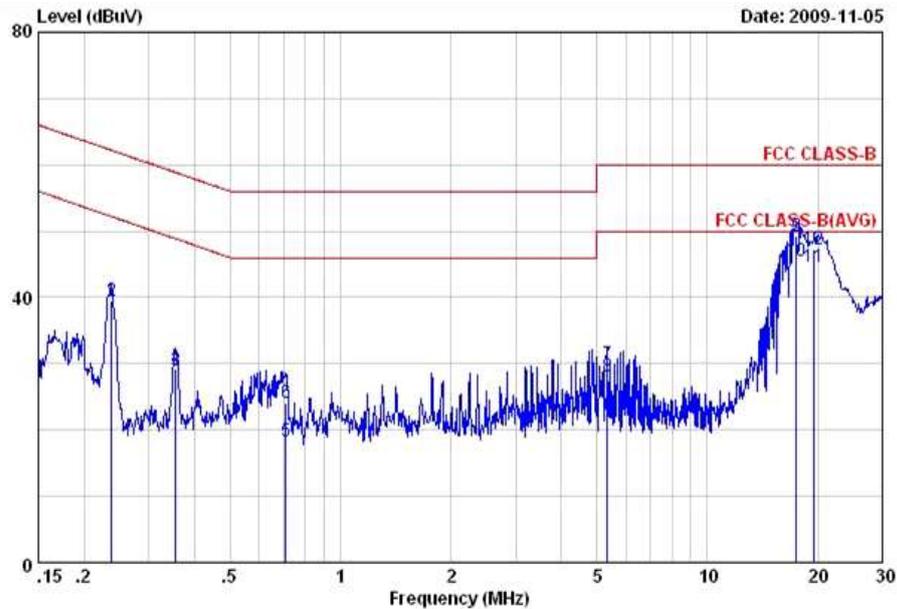
Condition: FCC CLASS-B LISN-071001 LINE

Model : Mode 2  
Power : From System

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.24	39.69	-22.51	62.20	29.60	-0.07	10.16	QP
2	0.24	39.39	-12.81	52.20	29.30	-0.07	10.16	Average
3	0.35	30.11	-28.74	58.85	20.01	-0.08	10.18	QP
4	0.35	30.11	-18.74	48.85	20.01	-0.08	10.18	Average
5	0.71	19.65	-26.35	46.00	9.50	-0.09	10.24	Average
6	0.71	24.65	-31.35	56.00	14.50	-0.09	10.24	QP
7	3.31	23.15	-32.85	56.00	12.89	-0.12	10.38	QP
8	3.31	21.95	-24.05	46.00	11.69	-0.12	10.38	Average
9	17.75	38.48	-11.52	50.00	27.90	0.04	10.54	Average
10	17.75	41.28	-18.72	60.00	30.70	0.04	10.54	QP
11	20.95	41.08	-18.92	60.00	30.40	0.10	10.58	QP
12	20.95	36.88	-13.12	50.00	26.20	0.10	10.58	Average



Test Mode :	Mode 2	Temperature :	24~25°C
Test Engineer :	Rain Zhou	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM1900 Idle + Bluetooth Idle + USB Cable (Link with PC)		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Condition: FCC CLASS-B LISN-071001 NEUTRAL

Model : Mode 2  
Power : From System

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
		dBuV	dB	dBuV	dBuV	dB	dB	
1	0.24	39.39	-22.80	62.19	29.30	-0.07	10.16	QP
2	0.24	39.39	-12.80	52.19	29.30	-0.07	10.16	Average
3	0.36	29.01	-29.83	58.84	18.91	-0.08	10.18	QP
4	0.36	29.11	-19.73	48.84	19.01	-0.08	10.18	Average
5	0.71	18.26	-27.74	46.00	8.10	-0.08	10.24	Average
6	0.71	23.96	-32.04	56.00	13.80	-0.08	10.24	QP
7	5.33	29.77	-30.23	60.00	19.50	-0.13	10.40	QP
8	5.33	28.17	-21.83	50.00	17.90	-0.13	10.40	Average
9	17.51	49.26	-10.74	60.00	38.70	0.02	10.54	QP
10	17.51	45.56	-4.44	50.00	35.00	0.02	10.54	Average
11	19.52	44.58	-5.42	50.00	33.90	0.12	10.56	Average
12	19.52	47.28	-12.72	60.00	36.60	0.12	10.56	QP



### 3.2. Test of Radiated Emission Measurement

#### 3.2.1. Limit of Radiated Emission

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

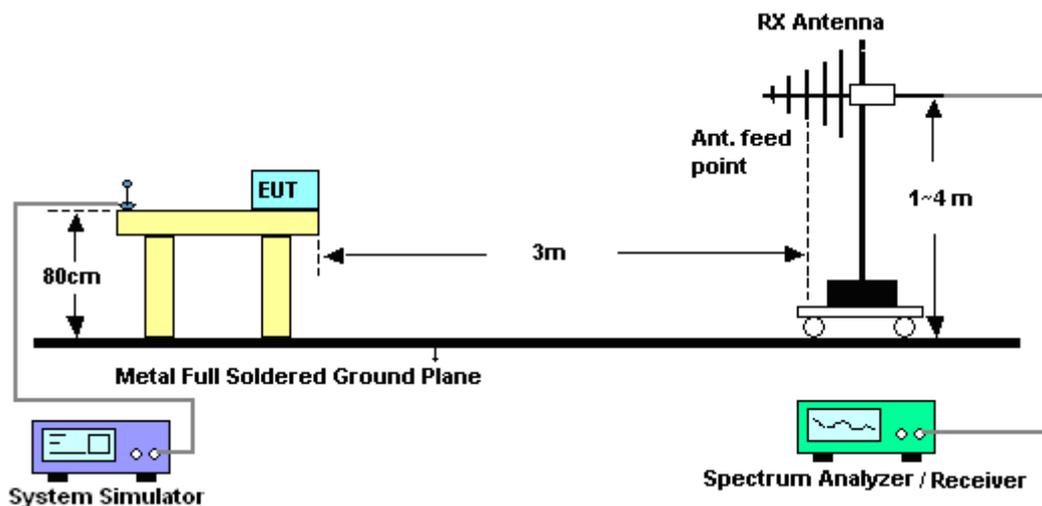
#### 3.2.2. Measuring Instruments

See list of measuring instruments of this test report.

### 3.2.3. Test Procedures

1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported
8. Emission level (dBuV/m) = 20 log Emission level (uV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

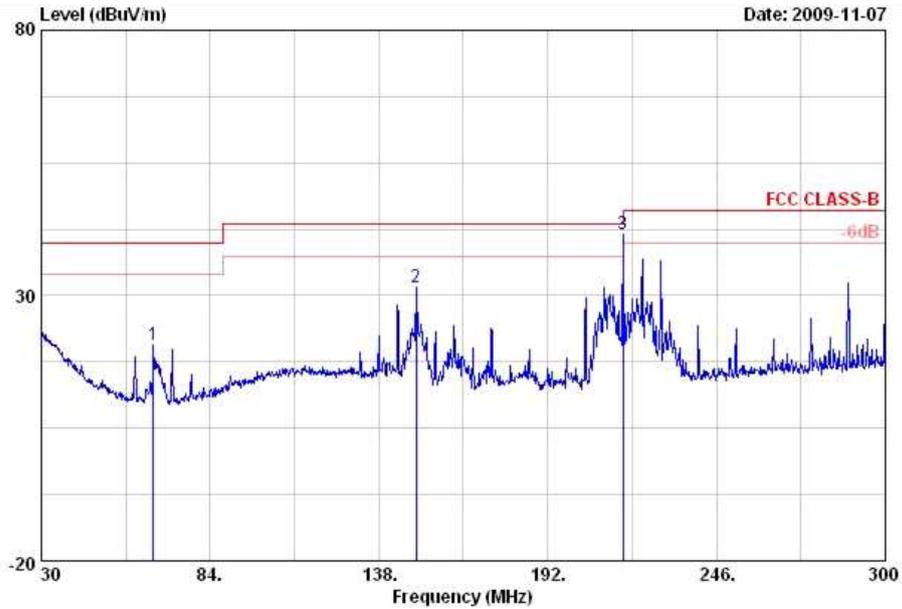
### 3.2.4. Test Setup of Radiated Emission





3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 3	Temperature :	27~28°C
Test Engineer :	Harvey Tang	Relative Humidity :	38~39%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	GSM850 Idle + Bluetooth Idle + USB Cable (Link with PC)		



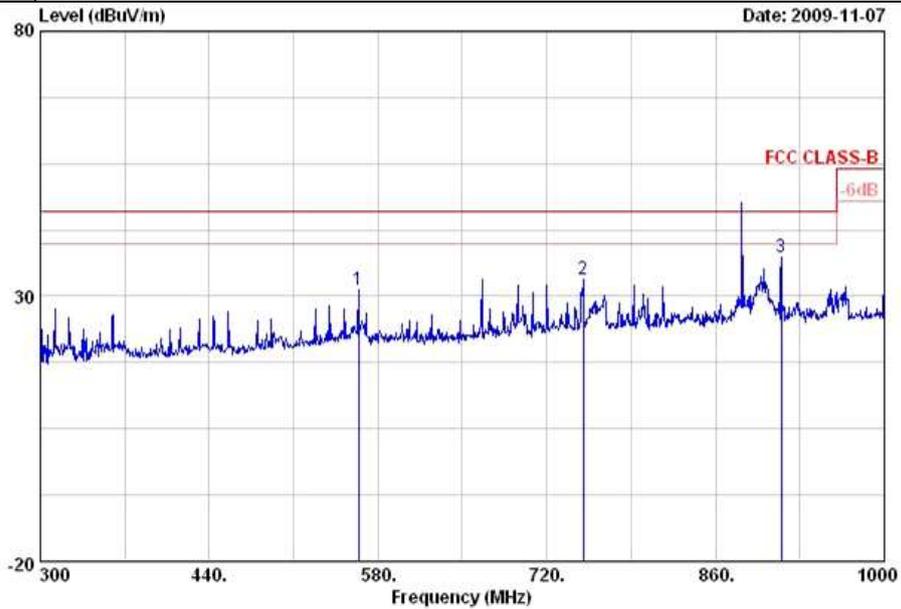
Condition: FCC CLASS-B 3m LF\_ANT\_090807 HORIZONTAL

Power : 120Vac/60Hz  
Mode : Mode 3

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	Remark
1	65.91	20.62	-19.38	40.00	38.05	5.22	0.35	23.00	---	Peak
2	149.88	31.58	-11.92	43.50	43.99	10.00	0.59	23.00	---	Peak
3	216.03	41.44	-4.56	46.00	53.93	9.83	0.68	23.00	---	Peak



Test Mode :	Mode 3	Temperature :	27~28°C
Test Engineer :	Harvey Tang	Relative Humidity :	38~39%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	GSM850 Idle + Bluetooth Idle + USB Cable (Link with PC)		



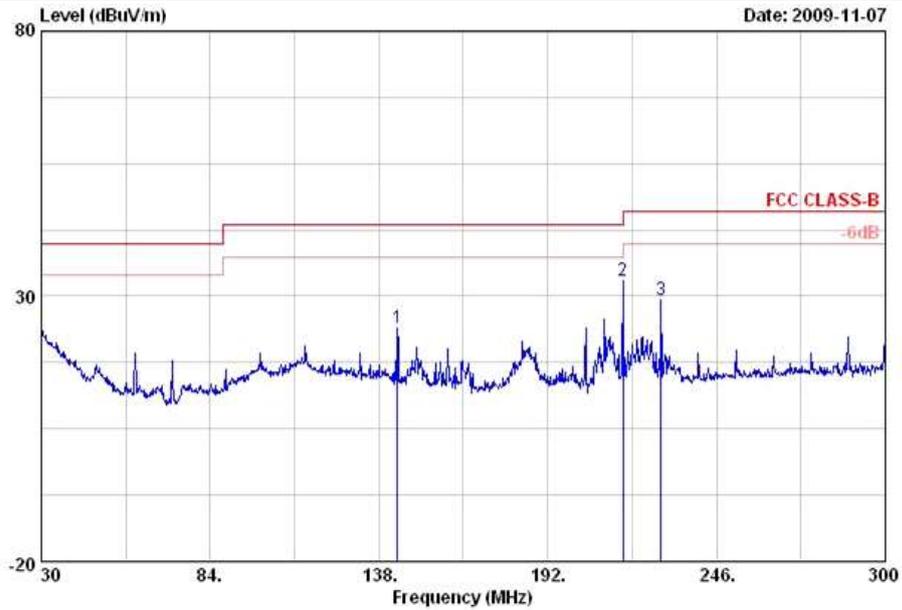
Condition: FCC CLASS-B 3m LF\_ANT\_090807 HORIZONTAL

Power : 120Vac/60Hz  
Mode : Mode 3

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level Factor	Loss Factor	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	563.90	31.23	-14.77	46.00	34.49	18.52	1.04	22.82	---	Peak
2	750.10	33.30	-12.70	46.00	34.03	19.90	1.18	21.81	---	Peak
3	914.60	37.50	-8.50	46.00	36.41	20.52	1.30	20.73	---	Peak



Test Mode :	Mode 3	Temperature :	27~28°C
Test Engineer :	Harvey Tang	Relative Humidity :	38~39%
Test Distance :	3m	Polarization :	Vertical
Function Type :	GSM850 Idle + Bluetooth Idle + USB Cable (Link with PC)		



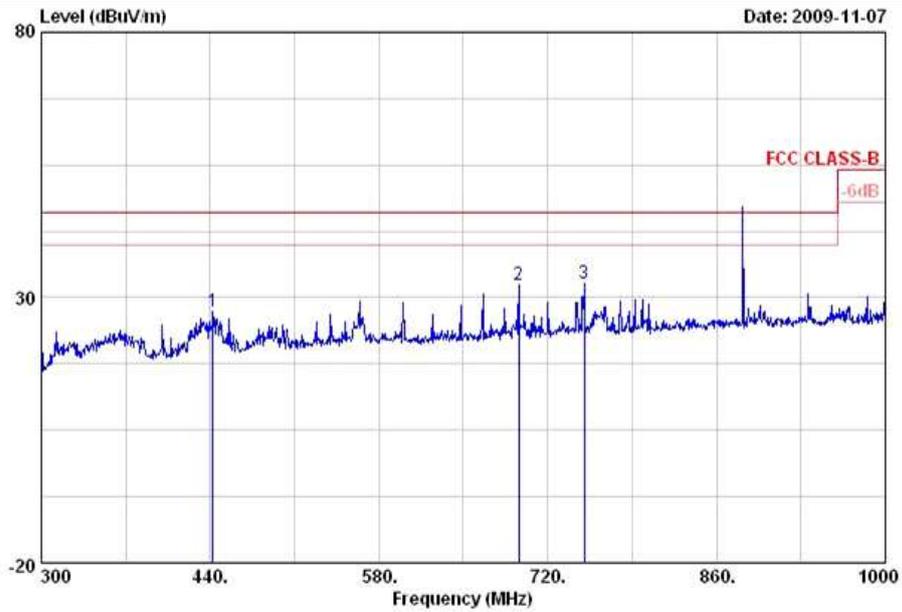
Condition: FCC CLASS-B 3m LF\_ANT\_090807 VERTICAL

Power : 120Vac/60Hz  
Mode : Mode 3

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	143.94	24.11	-19.39	43.50	35.99	10.55	0.57	23.00	---	Peak
2	216.03	32.81	-13.19	46.00	45.30	9.83	0.68	23.00	---	Peak
3	228.18	29.32	-16.68	46.00	40.87	10.75	0.70	23.00	---	Peak



Test Mode :	Mode 3	Temperature :	27~28°C
Test Engineer :	Harvey Tang	Relative Humidity :	38~39%
Test Distance :	3m	Polarization :	Vertical
Function Type :	GSM850 Idle + Bluetooth Idle + USB Cable (Link with PC)		



Condition: FCC CLASS-B 3m LF\_ANT\_090807 VERTICAL

Power : 120Vac/60Hz  
Mode : Mode 3

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	442.10	27.41	-18.59	46.00	33.19	16.27	0.92	22.97	---	Peak
2	696.20	32.43	-13.57	46.00	34.26	19.28	1.14	22.25	---	Peak
3	750.10	32.60	-13.40	46.00	33.33	19.90	1.18	21.81	---	Peak



### 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMI Receiver	R&S	ESCI	100534	9kHz~2.75GHz	Dec. 08, 2008	Dec. 07, 2009	Conduction (CO01-KS)
LISN	MessTec	AN3016	060103	9kHz~30MHz	Dec. 18, 2008	Dec. 17, 2009	Conduction (CO01-KS)
LISN	MessTec	AN3016	060105	9kHz~30MHz	Dec. 18, 2008	Dec. 17, 2009	Conduction (CO01-KS)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	N/A	Conduction (CO01-KS)
DC- LISN	EM Test	AN20200	060102	0.1MHz~108MHz	Dec. 18, 2008	Dec. 17, 2009	Conduction (CO01-KS)
DC- LISN	EM Test	AN20200	060107	0.1MHz~108MHz	Dec. 18, 2008	Dec. 17, 2009	Conduction (CO01-KS)
Spectrum Analyzer	R&S	ESCI	100534	9kHz – 2.75GHz	Dec. 08, 2008	Dec. 07, 2009	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 08, 2008	Dec. 07, 2009	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 17, 2008	Dec. 16, 2009	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	75959	1GHz~18GHz	Dec. 17, 2008	Dec. 16, 2009	Radiation (03CH01-KS)
Amplifier	Wireless	FPA6592G	600006	30MHz~2GHz	Dec. 17, 2008	Dec. 16, 2009	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 17, 2008	Dec. 16, 2009	Radiation (03CH01-KS)

## 5. Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Contribution	Uncertainty of $X_i$		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.10	Normal (k=2)	0.05
Cable Loss	0.10	Normal (k=2)	0.05
AMN Insertion Loss	2.50	Rectangular	0.63
Receiver Specification	1.50	Rectangular	0.43
Site Imperfection	1.39	Rectangular	0.80
Mismatch	+0.34 / -0.35	U-Shape	0.24
<b>Combined Standard Uncertainty <math>Uc(y)</math></b>	<b>1.13</b>		
<b>Measuring Uncertainty for a Level of Confidence of 95% (<math>U = 2Uc(y)</math>)</b>	<b>2.26</b>		

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Contribution	Uncertainty of $X_i$		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.41	Normal (k=2)	0.21
Antenna Factor Calibration	0.83	Normal (k=2)	0.42
Cable Loss Calibration	0.25	Normal (k=2)	0.13
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14
RCV/SPA Specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site Imperfection	1.43	Rectangular	0.83
Mismatch	+0.39 / -0.41	U-Shape	0.28
<b>Combined Standard Uncertainty <math>Uc(y)</math></b>	<b>1.27</b>		
<b>Measuring Uncertainty for a Level of Confidence of 95% (<math>U = 2Uc(y)</math>)</b>	<b>2.54</b>		



**Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)**

Contribution	Uncertainty of $X_i$		$u(X_i)$	$C_i$	$C_i * u(X_i)$
	dB	Probability Distribution			
Receiver Reading	±0.10	Normal (k=2)	0.10	1	0.10
Antenna Factor Calibration	±1.70	Normal (k=2)	0.85	1	0.85
Cable Loss Calibration	±0.50	Normal (k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site Imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\text{Log}(1-\Gamma_1*\Gamma_2)$	+0.34 / -0.35	U-Shape	0.244	1	0.244
<b>Combined Standard Uncertainty <math>U_c(y)</math></b>	<b>2.36</b>				
<b>Measuring Uncertainty for a Level of Confidence of 95% (<math>U = 2U_c(y)</math>)</b>	<b>4.72</b>				



## **Appendix A. Photographs of EUT**

Please refer to Sporton report number EP9O0109-01 as below.