



## FCC Part22H&24E Test Report

Product Name : GSM Mobile Phone  
Model No. : HUAWEI G3622  
FCC ID : QISG3622

Applicant : HUAWEI TECHNOLOGIES CO., LTD  
Address : Administration Building, Headquarters of Huawei  
Technologies Co., Ltd., Bantian, Longgang District,  
Shenzhen, 518129, P.R.C

Date of Receipt : 04/01/2013  
Test Date : 04/01/2013~21/02/2013  
Issued Date : 21/02/2013  
Report No. : 131S013R-HP-US-P07V01  
Report Version : V 2.0

This appendix report was based on Quietek report No: 12AS043R.

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF, CNAS or any agency of the Government.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

## Test Report Certification

Issued Date : 21/02/2013

Report No. : 131S013R-HP-US-P07V01



Product Name : GSM Mobile Phone  
Applicant : HUAWEI TECHNOLOGIES CO., LTD  
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C  
Manufacturer : HUAWEI TECHNOLOGIES CO., LTD  
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C  
Model No. : HUAWEI G3622  
FCC ID : QISG3622  
EUT Voltage : DC 3.7V  
Brand Name : HUAWEI  
Applicable Standard : FCC CFR Title 47 Part 2, TIA/EIA 603-C  
FCC Part22 Subpart H, FCC Part24 Subpart E  
Test Result : Complied  
Performed Location : Suzhou EMC Laboratory  
No.99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., Suzhou, China  
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098  
FCC Registration Number: 800392

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**Laboratory Information**

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

<b>Taiwan R.O.C.</b>	<b>:</b>	<b>BSMI, NCC, TAF</b>
<b>Germany</b>	<b>:</b>	<b>TUV Rheinland</b>
<b>Norway</b>	<b>:</b>	<b>Nemko, DNV</b>
<b>USA</b>	<b>:</b>	<b>FCC, NVLAP</b>
<b>Japan</b>	<b>:</b>	<b>VCCI</b>
<b>China</b>	<b>:</b>	<b>CNAS</b>

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site :<http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site :  
<http://www.quietek.com/>

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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TEL : +86-512-6251-5088 / FAX : 86-512-6251-5098                      E-Mail : [service@quietek.com](mailto:service@quietek.com)

**TABLE OF CONTENTS**

Description	Page
1. General Information.....	5
1.1. EUT Description .....	5
1.2. Mode of Operation.....	7
1.3. Tested System Details .....	8
1.4. Configuration of Tested System.....	9
1.5. EUT Exercise Software.....	10
2. Technical Test.....	11
2.1. Summary of Test Result.....	11
2.2. Test Environment.....	11
3. Peak Output Power .....	12
3.1. Test Equipment.....	12
3.2. Test Setup.....	13
3.3. Limit.....	13
3.4. Test Procedure .....	13
3.5. Uncertainty .....	15
3.6. Test Result.....	16
4. Spurious Emission .....	19
4.1. Test Equipment.....	19
4.2. Test Setup.....	20
4.3. Limit.....	20
4.4. Test Procedure .....	20
4.5. Uncertainty .....	21
4.6. Test Result.....	22

1. General Information

1.1. EUT Description

Product Name	GSM Mobile Phone
Model No.	HUAWEI G3622
Hardware Version	92621-1-12
Software Version	G3622V100R001C00B100SP01S
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
<b>2G</b>	
Support Band	GSM850/PCS1900
GPRS Type	Class B
GPRS Class	Class 12
Uplink	GSM 850: 824~849MHz PCS 1900: 1850~1910MHz
Downlink	GSM 850: 869~894MHz PCS 1900: 1930~1990MHz
Release Version	R99
Type of modulation	GMSK
Antenna Gain	GSM850: 1.31dBi PCS1900: 1.0dBi
<b>Bluetooth</b>	
Bluetooth Frequency	2402~2480MHz
Bluetooth Version	V2.1 + EDR
Type of modulation	FHSS
Data Rate	1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK)
Antenna Gain	1.02dBi
<b>Components</b>	
Headset Model Number #1	HUAWEI/ MEMD1532B315000
Headset Model Number #2	HUAWEI/ 120+333F#3.5MM
Battery #1	Brand Name: HUAWEI M/N: HBL3A Rated Voltage and Capacitance: 3.7V/600mAh S/N: FH121010A00410

Battery #2	Brand Name: HUAWEI M/N: HBL3A Rated Voltage and Capacitance: 3.7V/600mAh S/N: WADAC03XA4400001
Adapter #1	Brand Name: HUAWEI M/N: H05Z Input: 100-240V~50/60Hz 0.2A Output: 5Vdc, 0.5A S/N: W12110624971
Adapter #2	Brand Name: HUAWEI M/N: H05Z Input: 100-240V~50/60Hz 0.1A Output: 5Vdc, 0.5A S/N: W11626A12422
Adapter #3	Brand Name: HUAWEI M/N: A361-0500500U Input: 100-240V~50/60Hz 0.2A Output: 5Vdc, 500mA Manufacturer: Aohai

Note: This report was based on the case of G3621 to add test. Compared with G3621, G3622 was added with the camera and BT function, GSM antenna was also changed.

**1.2. Mode of Operation**

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: GSM 850 Link
Mode 2: PCS 1900 Link

Note:

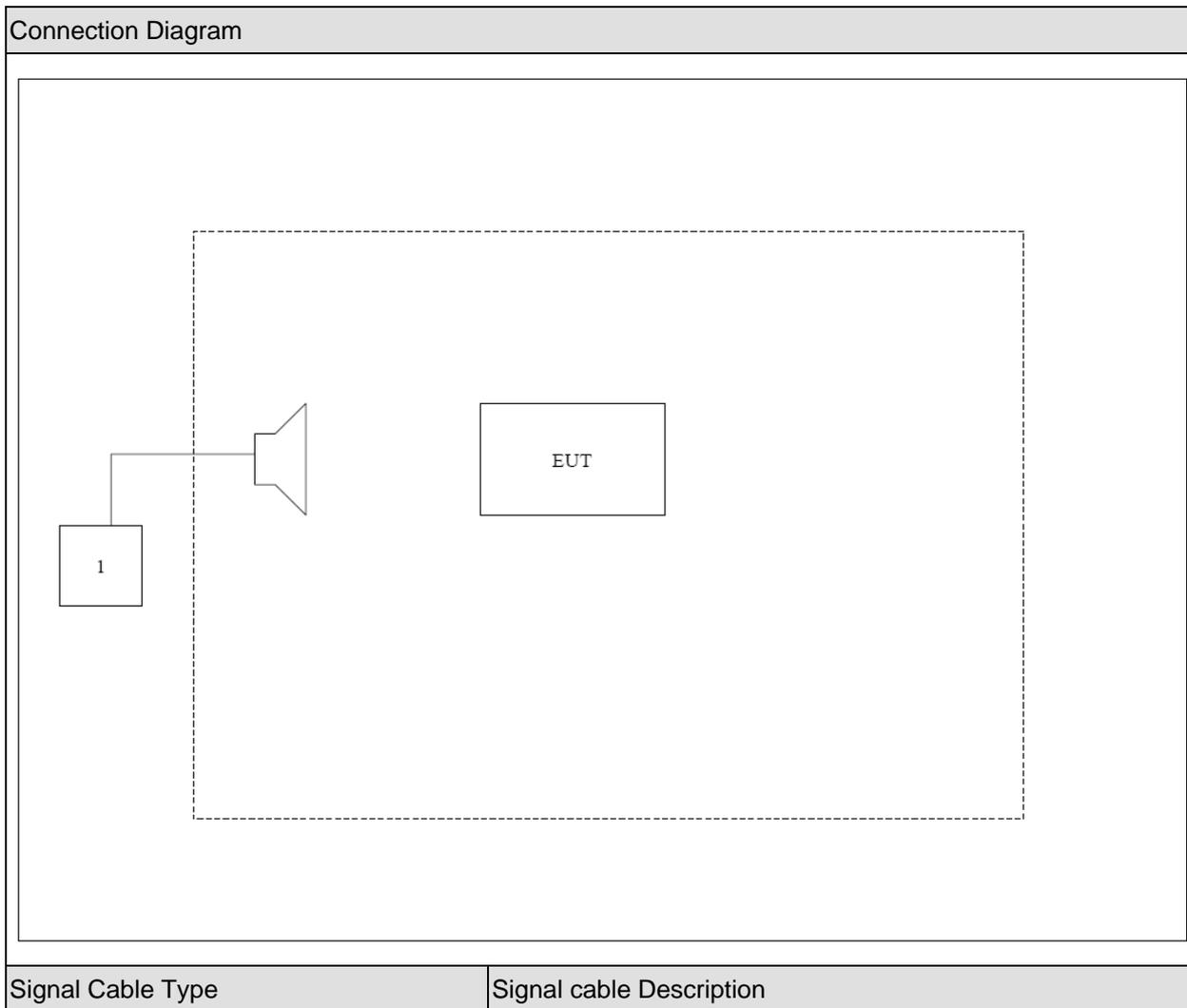
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. Radiated power output working at GSM link was higher than that working at GPRS link, so all of test items were done working at GSM mode. Refer to peak power output for more details.
3. This device is a composite device in accordance with Part 15 Subpart B regulations. The report number is 131160R-ITUSP01V03.
4. This test item has been evaluated Two batteries presented in the report is the worst case.

**1.3. Tested System Details**

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	CMU200	R&S	CMU200	N/A	N/A

### 1.4. Configuration of Tested System



**1.5. EUT Exercise Software**

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.
3	EUT Communicate with CMU200, then select channel to test.

**2. Technical Test**

**2.1. Summary of Test Result**

- No deviations from the test standards
- Deviations from the test standards as below description:

For GSM 850 (FCC Part 22H & Part 2)

Emission			
Performed Item	Normative References	Test Performed	Deviation
Peak Output Power	FCC Part 22.913(a)(2) and Part 2.1046	Yes	No
Spurious Emission	FCC Part 22.917(b) and Part 2.1051, 2.1053	Yes	No

For PCS 1900 (FCC Part 24E & Part 2)

Emission			
Performed Item	Normative References	Test Performed	Deviation
Peak Output Power	FCC Part 24.232(b) and Part 2.1046	Yes	No
Spurious Emission	FCC Part 24.238(b) and Part 2.1051, 2.1053	Yes	No

**2.2.**

**Test Environment**

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	23
Humidity (%RH)	25-75	52
Barometric pressure (mbar)	860-1060	950-1000

### 3. Peak Output Power

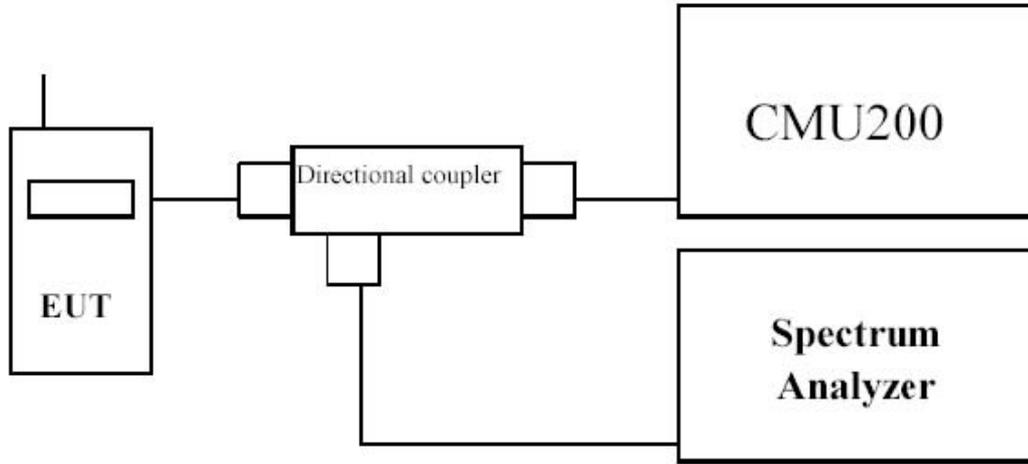
#### 3.1. Test Equipment

Spurious Emission / AC-5

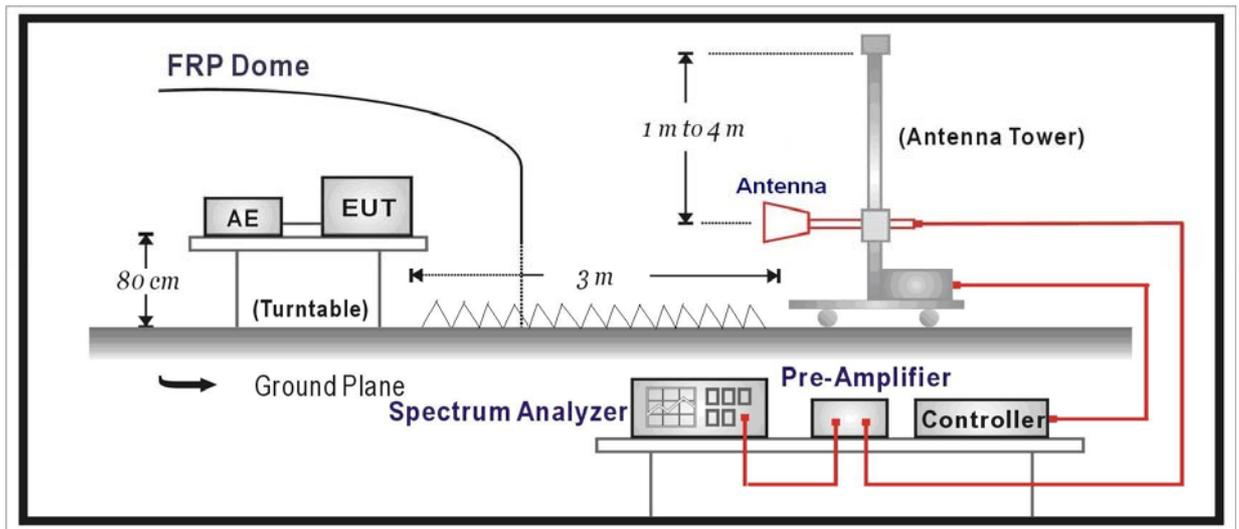
Instrument	Manufacturer	Type No.	Serial No	Cali. Due Date
PSA Series Spectrum Analyzer	Agilent	E4440A	MY49420184	2013.04.10
Radio Communication Tester	R&S	CMU 200	117088	2013.04.18
Dual Directional Coupler	Agilent	778D	20160	2013.04.18
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2013.04.18
PSG Analog Signal Generator	Agilent	E8257D	MY44321116	2013.04.18
Preamplifier	QuieTek	AP-025C	CHM-0503006	2013.05.04
Preamplifier	Miteq	NSP1800-25	1364185	2013.05.04
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2013.10.15
Half Wave Tuned Dipole Antenna	COM-POWER	AD-100	40137	2013.11.24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	737	2013.11.24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2014.06.08
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC5-TH	2014.01.11

**3.2. Test Setup**

Conducted Power Measurement:



Radiated Power Measurement:



**3.3. Limit**

**For FCC Part 22.913(a)(2):**

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

**For FCC Part 24.232(b):**

The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

**3.4. Test Procedure**

**Conducted Power Measurement:**

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMU200 by a Directional Couple.
- c) EUT Communicate with CMU200, then selects a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.

**Radiated Power Measurement:**

- e) The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- f) The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- g) The output of the test antenna shall be connected to the measuring receiver.
- h) The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- i) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- j) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- k) The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- l) The maximum signal level detected by the measuring receiver shall be noted.
- m) The transmitter shall be replaced by a substitution antenna.
- n) The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- o) The substitution antenna shall be connected to a calibrated signal generator.
- p) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- q) The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- r) The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- s) The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- t) The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if

necessary.

- u) Test site anechoic chamber refer to ANSI C63.4: 2009.

### **3.5. Uncertainty**

The measurement uncertainty is defined as for Conducted Power Measurement  $\pm 1.2$  dB,  
for Radiated Power Measurement  $\pm 3.2$  dB

3.6. Test Result

Product	GSM Mobile Phone		
Test Item	Peak Output Power		
Date of Test	2013/02/21	Test Site	AC-6

GSM850

Channel No.	Frequency (MHz)	Modulation	Conducted Power (dBm)	ERP (dBm)	Limit (dBm)
128	824.2	GMSK	32.44	32.39	38.50
189	836.4	GMSK	32.39	31.49	38.50
251	848.8	GMSK	32.36	31.78	38.50

PCS1900

Channel No.	Frequency (MHz)	Modulation	Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)
512	1850.2	GMSK	29.96	29.58	33.00
661	1880.0	GMSK	29.93	29.49	33.00
810	1909.8	GMSK	29.90	29.02	33.00

Note: The maximum PAR for PCS1900 is 7.6dB less than 13 dB.

GPRS850

Channel No.	Frequency (MHz)	Modulation	Conducted Power (dBm)	ERP (dBm)	Limit (dBm)
128	824.2	GMSK	32.43	32.11	38.50
189	836.4	GMSK	32.37	31.06	38.50
251	848.8	GMSK	32.35	31.49	38.50

GPRS1900

Channel No.	Frequency (MHz)	Modulation	Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)
512	1850.2	GMSK	29.95	29.37	33.00
661	1880.0	GMSK	29.92	29.12	33.00
810	1909.8	GMSK	29.89	28.89	33.00

Note: The maximum PAR for GPRS1900 is 5.9dB less than 13 dB.

Radiated Measurement

GSM850

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 128 (824.20MHz)								
824.2	-14.14	H	19.61	1.76	-0.02	17.83	38.50	-20.67
824.2	-0.33	V	34.17	1.76	-0.02	32.39	38.50	6.11
Middle Channel 189 (836.40MHz)								
836.4	-16.33	H	19.14	1.75	0.10	17.49	38.50	-21.01
836.4	-1.63	V	33.14	1.75	0.10	31.49	38.50	-7.01
High Channel 251 (848.80MHz)								
848.8	-15.40	H	18.66	1.78	0.13	17.01	38.50	-21.49
848.8	-1.18	V	33.43	1.78	0.13	31.78	38.50	-6.72

PCS1900

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 512 (1850.20MHz)								
1850.2	11.54	H	9.61	2.68	10.40	17.33	33.00	-15.67
1850.2	23.98	V	21.86	2.68	10.40	29.58	33.00	-3.42
Middle Channel 661 (1880.00MHz)								
1880.0	11.64	H	9.68	2.68	10.43	17.43	33.00	-15.57
1880.0	24.03	V	21.74	2.68	10.43	29.49	33.00	-3.51
High Channel 810 (1909.80MHz)								
1909.8	11.58	H	9.81	2.70	10.44	17.55	33.00	-15.45
1909.8	23.49	V	21.28	2.70	10.44	29.02	33.00	-3.98

GPRS850

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 128 (824.20MHz)								
824.2	-13.57	H	20.19	1.76	-0.02	18.41	38.50	-20.09
824.2	-0.60	V	33.89	1.76	-0.02	32.11	38.50	-6.39
Middle Channel 189 (836.40MHz)								
836.4	-14.45	H	19.44	1.75	0.10	17.79	38.50	-20.71
836.4	-1.39	V	32.71	1.75	0.10	31.06	38.50	-7.44
High Channel 251 (848.80MHz)								
848.8	-15.09	H	18.43	1.78	0.13	16.78	38.50	-21.72
848.8	-0.47	V	33.14	1.78	0.13	31.49	38.50	-7.01

GPRS1900

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 512 (1850.20MHz)								
1850.2	12.54	H	10.61	2.68	10.40	18.33	33.00	-14.67
1850.2	23.78	V	21.65	2.68	10.40	29.37	33.00	-3.63
Middle Channel 661 (1880.00MHz)								
1880.0	13.50	H	11.54	2.68	10.43	19.29	33.00	-13.71
1880.0	23.58	V	21.37	2.68	10.43	29.12	33.00	-3.88
High Channel 810 (1909.80MHz)								
1909.8	12.22	H	10.27	2.70	10.44	18.01	33.00	-14.99
1909.8	21.78	V	21.15	2.70	10.44	28.89	33.00	-4.11

## 4. Spurious Emission

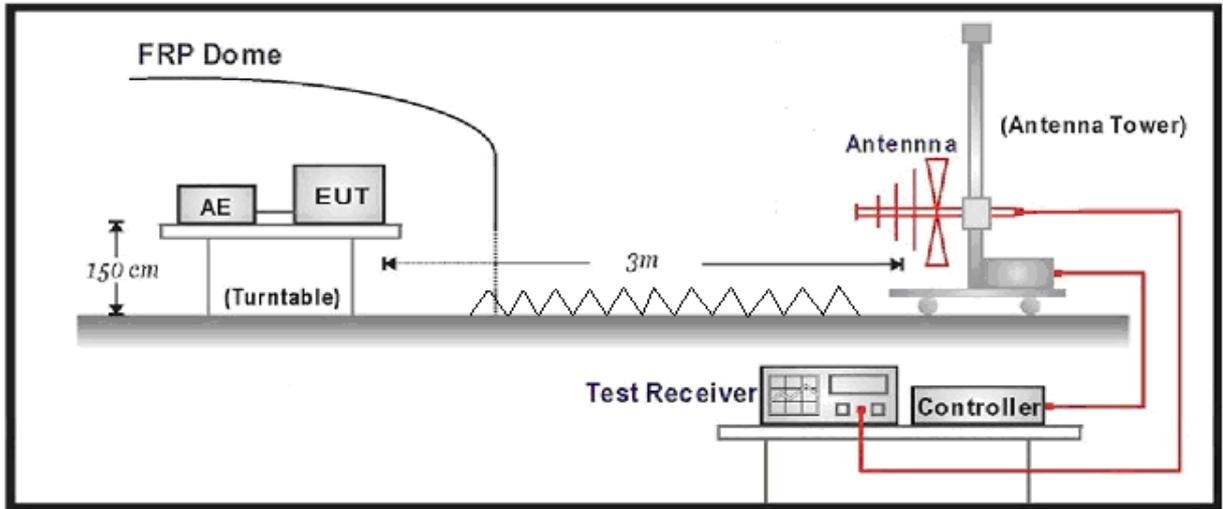
### 4.1. Test Equipment

#### Spurious Emission / AC-5

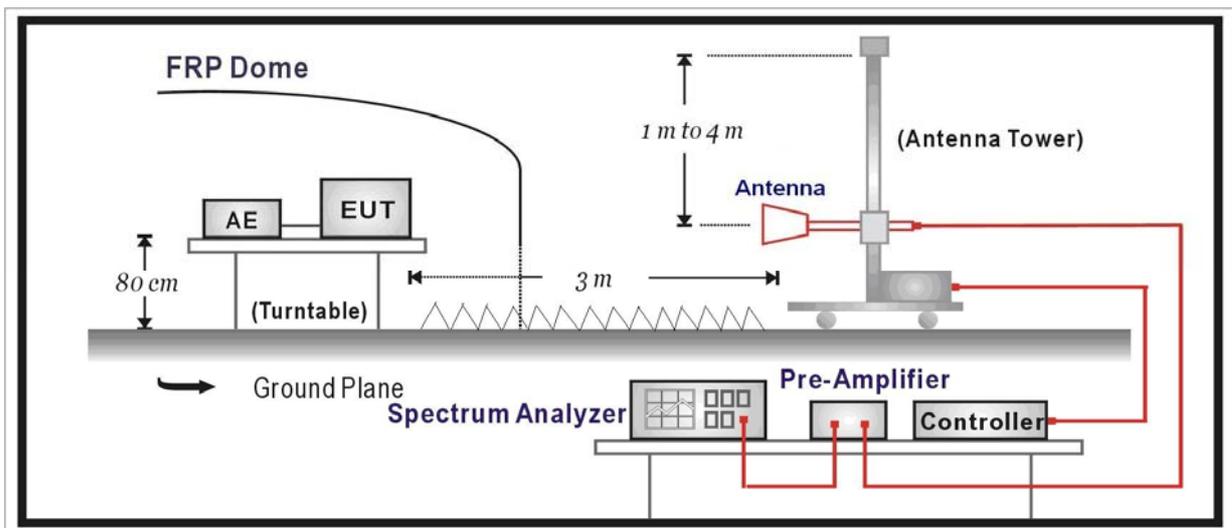
Instrument	Manufacturer	Type No.	Serial No	Cali. Due Date
PSA Series Spectrum Analyzer	Agilent	E4440A	MY49420184	2013.04.10
Radio Communication Tester	R&S	CMU 200	117088	2013.04.18
Dual Directional Coupler	Agilent	778D	20160	2013.04.18
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2013.04.18
PSG Analog Signal Generator	Agilent	E8257D	MY44321116	2013.04.18
Preamplifier	QuieTek	AP-025C	CHM-0503006	2013.05.04
Preamplifier	Miteq	NSP1800-25	1364185	2013.05.04
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2013.10.15
Half Wave Tuned Dipole Antenna	COM-POWER	AD-100	40137	2013.11.24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	737	2013.11.24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2014.06.08
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC5-TH	2014.01.11

4.2. Test Setup

Radiated Spurious Measurement: below 1GHz



Radiated Spurious Measurement: above 1GHz



4.3. Limit

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.

4.4. Test Procedure

**Radiated Spurious Measurement:**

- a) The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b) The test antenna shall be oriented initially for vertical polarization and shall be chosen to

- correspond to the frequency of the transmitter
- c) The output of the test antenna shall be connected to the measuring receiver.
  - d) The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
  - e) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
  - f) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
  - g) The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
  - v) The maximum signal level detected by the measuring receiver shall be noted.
  - h) The transmitter shall be replaced by a substitution antenna.
  - i) The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
  - j) The substitution antenna shall be connected to a calibrated signal generator.
  - k) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
  - l) The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
  - m) The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
  - n) The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
  - o) The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
  - p) The frequency range was checked up to 10<sup>th</sup> harmonic.
  - q) Test site anechoic chamber refer to ANSI C63.4: 2009

#### 4.5. Uncertainty

The measurement uncertainty is defined as 3.2 dB for Radiated Power Measurement.

4.6. Test Result

Product	GSM Mobile Phone		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 1: GSM850 Link		
Date of Test	2013/01/11	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 128 (824.20MHz)								
1646.00	-51.44	V	-54.00	2.50	9.75	-46.75	-13.00	-33.75
2470.50	-54.10	V	-53.13	3.12	10.48	-45.77	-13.00	-32.77
1646.00	-53.65	H	-56.31	2.50	9.75	-49.06	-13.00	-36.06
2470.50	-53.57	H	-52.46	3.12	10.48	-45.10	-13.00	-32.10
Middle Channel 189 (836.40MHz)								
1671.50	-52.10	V	-54.76	2.52	9.95	-47.33	-13.00	-34.33
2513.00	-54.19	V	-53.50	3.18	10.62	-46.06	-13.00	-33.06
1671.50	-52.94	H	-55.36	2.52	9.95	-47.93	-13.00	-34.93
2513.00	-57.17	H	-56.10	3.18	10.62	-48.66	-13.00	-35.66
High Channel 251 (848.80MHz)								
1697.00	-51.24	V	-53.98	2.54	10.06	-46.46	-13.00	-33.46
2547.00	-53.79	V	-52.22	3.14	10.68	-44.68	-13.00	-31.68
1697.00	-52.80	H	-54.80	2.54	10.06	-47.28	-13.00	-34.28
2547.00	-57.23	H	-55.41	3.14	10.68	-47.87	-13.00	-34.87

Product	GSM Mobile Phone		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 2: PCS1900 Link		
Date of Test	2013/01/13	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 512 (1850.20MHz)								
3703.00	-58.92	V	-55.46	3.84	12.69	-46.61	-13.00	-33.61
5547.50	-58.85	V	-50.35	4.82	13.15	-42.02	-13.00	-29.02
3703.00	-58.63	H	-55.25	3.84	12.69	-46.40	-13.00	-33.40
5547.50	-50.17	H	-42.28	4.82	13.15	-33.95	-13.00	-20.95
Middle Channel 661 (1880.00MHz)								
3762.50	-58.27	V	-55.05	3.73	12.72	-46.06	-13.00	-33.06
5641.00	-60.06	V	-52.13	4.93	13.14	-43.92	-13.00	-30.92
3762.50	-59.99	H	-56.69	3.73	12.72	-47.70	-13.00	-34.70
5641.00	-53.92	H	-46.31	4.93	13.14	-38.10	-13.00	-25.10
High Channel 810 (1909.80MHz)								
3822.00	-57.08	V	-53.36	4.02	12.73	-44.65	-13.00	-31.65
5726.00	-63.44	V	-54.82	4.87	13.11	-46.58	-13.00	-33.58
3822.00	-58.76	H	-54.89	4.02	12.73	-46.18	-13.00	-33.18
5726.00	-56.00	H	-47.76	4.87	13.11	-39.52	-13.00	-26.52

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