

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E AND INDUSTRY CANADA RSS-132 and RSS-133

For

**Product Name:** Tablet Device  
**Brand Name:** SONY  
**Model Name:** SGPT113JP/S; SGPT114JP/S  
**Model No. for WWAN Module** F5521gw  
**Model Difference:** For marketing purpose only  
**FCC ID:** AK8SGPT113JP  
**IC:** 409B-SGPT113JP  
**Report No.:** EH/2011/30064  
**Issue Date:** Apr. 06, 2011  
**FCC Rule Part:** 2, 22H & 24E  
**IC Rule Part:** RSS 132 Issue 2 and RSS 133 Issue 5  
**Prepared for:** Sony Corporation  
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Japan  
SGS Taiwan Ltd.  
**Prepared by:** Electronics & Communication Laboratory  
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## CERTIFICATION OF COMPLIANCE

**Applicant:** Sony Corporation  
1-7-1 Konan Minato-Ku, Tokyo, 108-0075 Japan

**Product Description:** Tablet Device

**Brand Name:** SONY

**Model No. for WWAN Modular:** F5521gw

**FCC ID:** AK8SGPT113JP  
**IC:** 409B-SGPT113JP

**Model No.:** SGPT113JP/S; SGPT114JP/S

**Model Difference:** For marketing purpose only

**File Number:** EH/2011/30064

**Date of test:** Mar. 24, 2011 ~ Apr. 05, 2011

**Date of EUT Received:** Mar. 24, 2011

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004, Issue 2 of RSS-Gen and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule PART 22 subpart H, PART 24 subpart E and IC standards RSS-132 Issue 2, Issue 5 of RSS-133.

The test results of this report relate only to the tested sample identified in this report.

<b>Test By:</b>		<b>Date:</b>	Apr. 06, 2011
	_____ <i>Jason Wu / Engineer</i>		
<b>Prepared By:</b>		<b>Date:</b>	Apr. 06, 2011
	_____ <i>Celine Chou / Clerk</i>		
<b>Approved By:</b>		<b>Date:</b>	Apr. 06, 2011
	_____ <i>Jim Chang / Supervisor</i>		

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## Version

Version No.	Date	Description
00	Apr. 06, 2011	Initial creation of document

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## Table of Contents

<b>1. GENERAL INFORMATION .....</b>	<b>5</b>
1.1 Host Description .....	5
1.2 Related Submittal(s) / Grant (s) .....	8
1.3 Test Methodology .....	8
1.4 Test Facility .....	8
1.5 Special Accessories .....	8
1.6 Equipment Modifications .....	8
<b>2. SYSTEM TEST CONFIGURATION .....</b>	<b>9</b>
2.1 EUT Configuration .....	9
2.2 EUT Exercise .....	9
2.3 Test Procedure .....	9
2.4 Configuration of Tested System .....	10
<b>3. SUMMARY OF TEST RESULTS .....</b>	<b>11</b>
<b>4. DESCRIPTION OF TEST MODES .....</b>	<b>11</b>
<b>5. RF PEAK POWER OUTPUT/ MAXMUM POWER REDUCTION MEASUREMENT .....</b>	<b>12</b>
5.1 Standard Applicable: .....	12
5.2 Test Set-up: .....	12
5.3 Measurement Procedure: .....	12
5.4 Measurement Equipment Used: .....	12
5.5 Measurement Result: .....	13
<b>6. ERP/EIRP MEASUREMENT .....</b>	<b>14</b>
6.1 Standard Applicable .....	14
6.2 Test SET-UP (Block Diagram of Configuration) .....	14
6.3 Measurement Procedure .....	16
6.4 Measurement Equipment Used: .....	17
6.5 Measurement Result .....	18
<b>7. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT .....</b>	<b>26</b>
7.1 Standard Applicable .....	26
7.2 EUT Setup (Block Diagram of Configuration) .....	26
7.3 Measurement Procedure .....	27
7.4 Measurement Equipment Used: .....	27
7.5 Measurement Result .....	27
<b>PHOTOGRAPHS OF SETUP .....</b>	<b>88</b>
<b>PHOTOGRAPHS OF EUT .....</b>	<b>90</b>

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## 1. GENERAL INFORMATION

### 1.1 Host Description

General:

Product Name:	Tablet Device	
Brand Name:	SONY	
Model Name:	SGPT113JP/S; SGPT114JP/S	
Model Difference:	For marketing purpose only	
WWAN Module FCC ID:	VV7-MBMF5521GW1	
WWAN Module IC :	287AG-MBMF5521GW1	
Power Supply:	3.7Vdc Re-chargeable Li-ion battery or 10.5Vdc by AC/DC power adapter	
	Battery:	Model: SGPBP02, Supplier: SONY
	Adapter:	Model: SGPAC10V1, Supplier: SONY
Data Cable:	Model: N/A, Supplier: N/A	

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**Bluetooth:**

Bluetooth FCC Modular Report:	Supplier: UL Japan, Inc. Report Owner: Murata Manufacturing Co., Ltd. Model: LBEE69QSYC Report Number: 31CE0169-HO-02-B-R1
Bluetooth IC Modular Report:	Supplier: UL Japan, Inc. Report Owner: Murata Manufacturing Co., Ltd. Model: LBEE69QSYC Report Number: 31CE0169-HO-02-D-R1
Bluetooth Version:	<input type="checkbox"/> V1.1 (GFSK) <input type="checkbox"/> V1.2 (GFSK) <input type="checkbox"/> V2.0 (GFSK) <input type="checkbox"/> V2.0 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) <input checked="" type="checkbox"/> V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Frequency Range:	2402 – 2480MHz
Channel number:	79 channels max.
Rated Power:	-0.10dBm (Peak)
Modulation type:	Frequency Hopping Spread Spectrum
Antenna Designation:	PIFA Antenna / 0.65dBi.
Type of Emission (IC):	1M2D1D

The EUT is compliance with Bluetooth V2.1 + EDR (GFSK +  $\pi/4$ DQPSK + 8DPSK) standard.

**WLAN: 802.11 b/g/n**

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission (IC)
11b/g	2412-2462	11	b : 15.75dBm g : 20.42dBm	DSSS, OFDM	b : 13M57G1D g : 17M16G1D
11n	HT20 2412-2462	11	n : 19.74dBm	OFDM	18M20G1D
WLAN FCC Modular Report:	Supplier: UL Japan, Inc. Report Owner: Murata Manufacturing Co., Ltd. Model: LBEE69QSYC Report Number: 31CE0169-HO-02-A-R1				
WLAN IC Modular Report:	Supplier: UL Japan, Inc. Report Owner: Murata Manufacturing Co., Ltd. Model: LBEE69QSYC Report Number: 31CE0169-HO-02-C-R1				
Antenna Designation:	PIFA Antenna with 0.65 dBi peak gain				
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM				
Transition Rate:	802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n HT20: 6.5/13/19.5/26/39/52/58.5/65 Mbps				

The EUT is compliance with IEEE 802.11 b/g/n Standard.

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**GSM / WCDMA:**

Cellular Phone Standards Frequency Range:	GSM / GPRS 850, Class 10	824.2 MHz– 848.8 MHz	33 dBm
	EDGE 850, Class 10	824.2 MHz– 848.8 MHz	27 dBm
	GSM / GPRS 1900, Class 10	1850.2MHz – 1909.8MHz	30 dBm
	EDGE 1900, Class 10	1850.2MHz – 1909.8MHz	26 dBm
	WCDMA/HSUPA/HSDPA Band II	1852.4MHz – 1907.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA Band V	826.4MHz - 846.6MHz	24 dBm
WWAN FCC and IC Modular Report:	Supplier: CETECOM ICT Services GmbH Report Owner: Ericsson AB Model: F5521gw Report Number: 1-2205-01-05/10-A		
IMEI:	357755040000239		
Hardware Version:	R1		
Software Version:	R1A29		
Type of Emission (IC):	22H(GMSK): 824.2 - 848.8 MHz: 281KGXW 24E(GMSK): 1850.2 – 1909.8 MHz: 283KGXW 22H(8PSK): 824.2 - 848.8 MHz: 307KG7W 24E(8PSK): 1850.2 – 1909.8 MHz: 281KG7W 22H(WCDMA): 826.4 - 846.6 MHz: 4M65F9W 24E(WCDMA): 1852.4 – 1907.5 MHz: 4M68F9W		
Transmit power (Conducted Power) Listed in Test Report	22H(GMSK): 824.2 - 848.8 MHz: 1.95W/32.90dBm 24E(GMSK): 1850.2 – 1909.8 MHz: 0.85W/29.30dBm 22H(8PSK): 824.2 - 848.8 MHz: 1.07W/30.30dBm 24E(8PSK): 1850.2 – 1909.8 MHz: 0.78W/28.90dBm 22H(WCDMA): 826.4 - 846.6 MHz: 0.40W/25.98dBm 24E(WCDMA): 1852.4 – 1907.5 MHz: 0.50W/27.01dBm		

**GPS:**

Receiver Frequency:	L1 Band, 1575.42MHz
Frequency Conversion oscillator:	32.768KHz
Antenna Designation:	PIFA Antenna / 0.65dBi.

This test report applies for GPRS/EDGE 850, GPRS/EDGE 1900, WCDMA/HSUPA/HSDPA Band II/V bands.

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## 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: AK8SGPT113JP** filing to comply with Section Part 22 subpart H, Part 24 subpart E of the FCC CFR 47 Rules. And **IC: 409B-SGPT113JP** filing to comply with RSS-132 and Issue 5 of RSS-133

## 1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA-603-C-2004 and FCC CFR 47 2.1046, 2.1053, RSS-132, Issue 5 of RSS-133 and Issue 2 of RSS-Gen.

## 1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

## 1.5 Special Accessories

Not available for this EUT intended for grant.

## 1.6 Equipment Modifications

Not available for this EUT intended for grant.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

### 2.3 Test Procedure

#### 2.3.1 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

#### 2.3.2 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C, issue 2 of RSS-Gen and TIA/EIA IS-98 for Mobile stations. The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements.

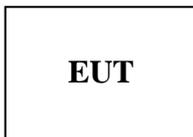
A standard antenna was used to replace the EUT and connect to the SG. Adjust the SG output level to reach the max emission level which were measured above.

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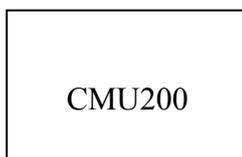
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## 2.4 Configuration of Tested System

**Fig. 1-1 Configuration for Radiated Emission**



**Fig. 1-2 Configuration (Remote Side, on the corner)**



**Table 2-1 Equipment Used in Tested System**

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	N/A	Un-shielded

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### 3. SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a) §22.913(a)(2) §24.232(c)	§4.8 (RSS-Gen) §4.4 (RSS-132) §6.4 (RSS-133)	RF peak power	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c)	§4.8 (RSS-Gen) §4.4 (RSS-132) §6.4 (RSS-133)	ERP/ EIRP measurement	Compliant
§2.1053 §22.917(a) §24.238(a)	§4.9 (RSS-Gen) §4.5 (RSS-132) §6.5 (RSS-133)	Field Strength of Spurious Radiation	Compliant

Max ERP/EIRP measurement result:

	dBm		W
GPRS 850 Band	33.86	ERP	2.432
GPRS 1900 Band	31.14	EIRP	1.300
EDGE 850 Band	32.33	ERP	1.710
EDGE 1900 Band	31.14	EIRP	1.300
WCDMA Band II	25.34	EIRP	0.342
HSUPA Band II	25.34	EIRP	0.342
WCDMA Band V	26.97	ERP	0.498
HSUPA Band V	26.95	ERP	0.495

### 4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Set EUT power control to Max for all test mode through base station.

The Channel Low, Mid and High for each type of bands with rated data rate were chosen for above testing.

The field strength of ERP/EIRP power and spurious radiation emission were measured as EUT stand up position (E1 plan as defined by SGS testing lab) for both GPRS 850, GPRS 1900, WCDMA bands II and WCDMA bands V were reported which has worst data.

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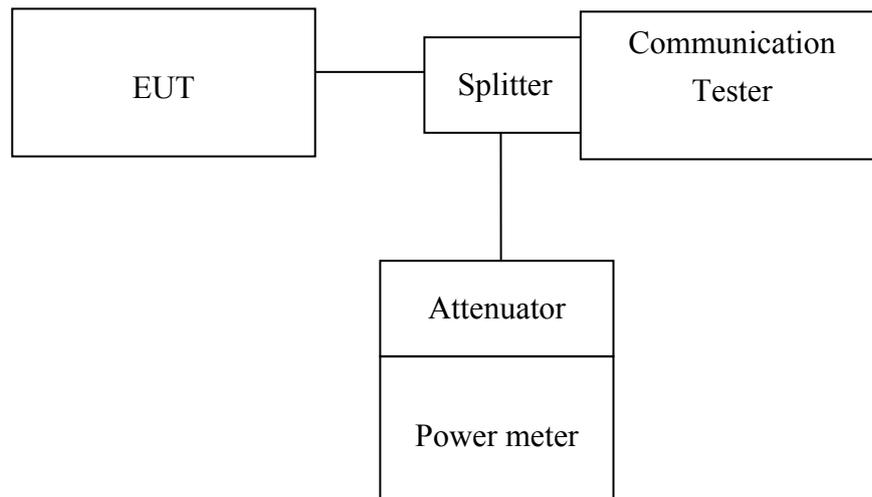
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## 5. RF PEAK POWER OUTPUT/ MAXIMUM POWER REDUCTION MEASUREMENT

### 5.1 Standard Applicable:

FCC 24.232(C) Peak Power Measurement, 22.913(a)(2), RSS-132 4.4, & RSS-133 6.4.

### 5.2 Test Set-up:



*Note: Measurement setup for testing on Antenna connector*

### 5.3 Measurement Procedure:

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. It was used for EUT and Base station setting.

### 5.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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### 5.5 Measurement Result:

GPRS850	1Dn1UP		1Dn2UP	
	PK(dBm)	AV(dBm)	PK(dBm)	AV(dBm)
CH 128	32.70	32.60	30.10	30.00
CH 190	32.80	32.70	30.20	30.10
CH 251	32.90	32.80	30.40	30.30
GPRS1900	1Dn1UP		1Dn2UP	
	PK(dBm)	AV(dBm)	PK(dBm)	AV(dBm)
CH 512	29.30	29.20	28.70	28.50
CH 661	29.30	29.10	28.50	28.40
CH 810	29.20	29.00	28.50	28.40

EDGE850	1Dn1UP		1Dn2UP	
	PK(dBm)	AV(dBm)	PK(dBm)	AV(dBm)
CH 128	30.20	27.10	30.30	27.20
CH 190	30.10	27.00	30.10	27.00
CH 251	30.10	27.00	30.10	27.00
EDGE1900	1Dn1UP		1Dn2UP	
	PK(dBm)	AV(dBm)	PK(dBm)	AV(dBm)
CH 512	28.90	25.70	28.80	25.70
CH 661	28.80	25.60	28.70	25.60
CH 810	28.70	25.50	28.70	25.50

UMTS B2	WCDMA		HSUPA		HSDPA	
	PK(dBm)	AV(dBm)	PK(dBm)	AV(dBm)	PK(dBm)	AV(dBm)
CH 9262	25.60	23.12	25.19	21.93	25.40	22.31
CH 9400	25.98	23.06	25.06	21.79	25.63	22.16
CH 9538	25.48	22.90	24.98	21.61	25.31	22.02
UMTS B5	WCDMA		HSUPA		HSDPA	
	PK(dBm)	AV(dBm)	PK(dBm)	AV(dBm)	PK(dBm)	AV(dBm)
CH 4132	27.01	24.25	26.32	23.14	26.78	23.56
CH 4183	26.94	24.18	26.23	23.02	26.63	23.37
CH 4233	26.99	24.20	26.30	23.08	26.75	23.49

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## 6. ERP/EIRP MEASUREMENT

### 6.1 Standard Applicable

According to FCC §2.1046

FCC 22.913(a)(2) Mobile station are limited to 7W ERP.

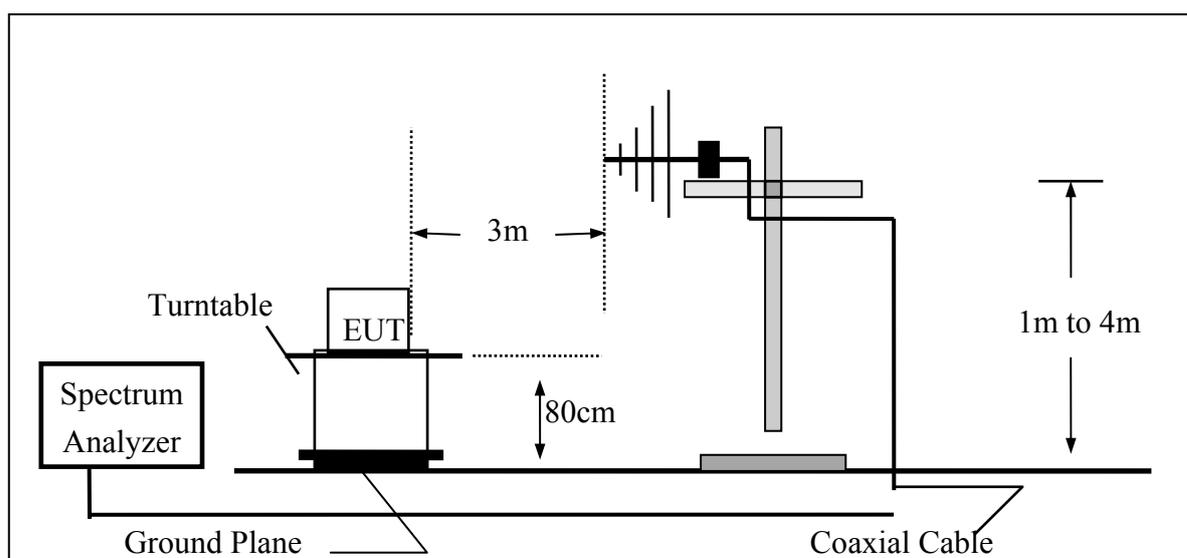
FCC 24.232(c) Mobile station are limited to 2W EIRP.

According to issue 5 of RSS-133 §6.4. The peak e.i.r.p. for transmitters operating in the band 1850-1910 MHz shall not exceed the limits given in SRSP-510.

According to issue 2 of RSS 132, section 4.4. The transmitter output power shall not exceed the limits given in SRSP-503.

### 6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz

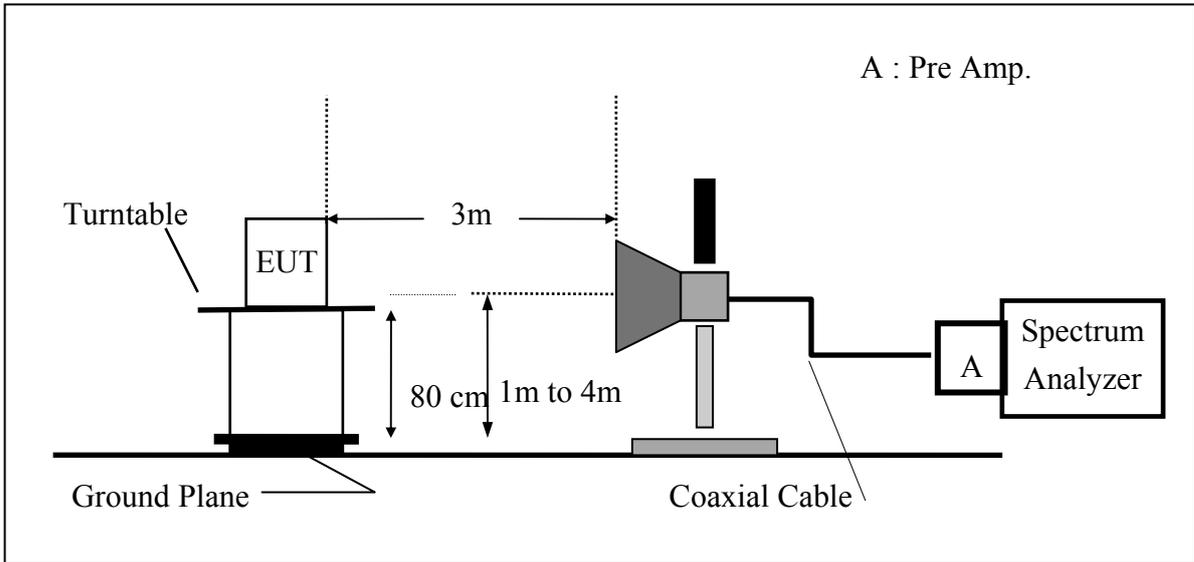


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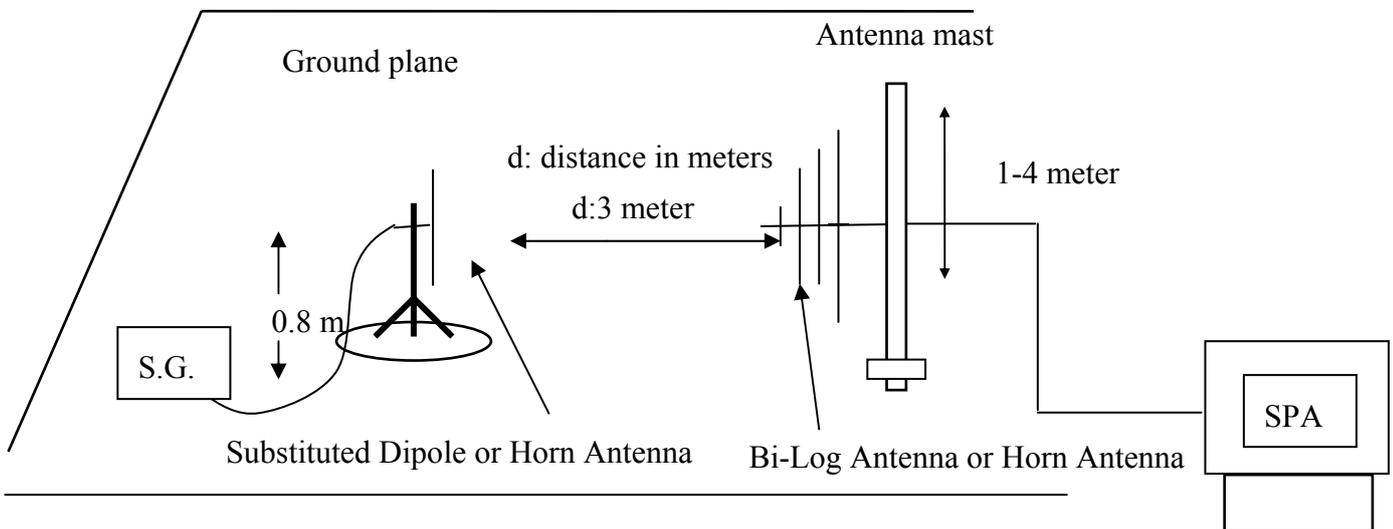
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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### 6.3 Measurement Procedure

The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement, the EUT was in communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by a dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

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#### 6.4 Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2011	02/11/2012
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2010	11/14/2011
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/10/2009	07/09/2011
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/10/2009	07/09/2011
Horn antenna	SCHWAZBECK	BBHA 9120D	309	01/22/2010	01/21/2012
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2010	05/08/2012
Signal Generator	R&S	SMR40	100210	01/22/2011	01/21/2012
Signal Generator	Agilent	E4438C	MY45093613	06/11/2010	06/10/2011
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2010	11/29/2011
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2010	07/04/2011
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2010	05/12/2012
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2011	01/04/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2011	01/04/2012
Filter 800-1000	Micro-Tronics	BRM13462	1	01/05/2011	01/04/2012
Filter 1800-2000	Micro-Tronics	BRM13463	1	01/05/2011	01/04/2012
3m Site	SGS	966 chamber	N/A	11/08/2010	11/09/2011

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## 6.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GPRS 850	824.20	128	H	V	130.88	44.49	-7.87	3.62	32.99	38.45
				H	130.50	44.23	-7.87	3.62	32.73	38.45
			E1	V	131.75	45.36	-7.87	3.62	<b>33.86</b>	38.45
				H	128.37	42.10	-7.87	3.62	30.60	38.45
			E2	V	120.61	34.22	-7.87	3.62	22.72	38.45
				H	130.68	44.41	-7.87	3.62	32.91	38.45
	836.60	190	H	V	130.49	44.24	-7.88	3.65	32.71	38.45
				H	130.19	43.96	-7.88	3.65	32.43	38.45
			E1	V	130.90	44.65	-7.88	3.65	33.12	38.45
				H	128.10	41.87	-7.88	3.65	30.34	38.45
			E2	V	119.61	33.36	-7.88	3.65	21.83	38.45
				H	130.24	44.01	-7.88	3.65	32.48	38.45
	848.80	251	H	V	130.10	43.98	-7.88	3.68	32.42	38.45
				H	129.73	43.54	-7.88	3.68	31.98	38.45
			E1	V	130.66	44.54	-7.88	3.68	32.98	38.45
				H	127.73	41.54	-7.88	3.68	29.98	38.45
			E2	V	117.79	31.67	-7.88	3.68	20.11	38.45
				H	130.17	43.98	-7.88	3.68	32.42	38.45

### Remark :

- (1) The RBW,VBW of SPA for frequency  
RBW=300 KHz, VBW=1MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
GPRS 1900	1850.20	512	H	V	130.68	26.29	9.90	5.56	30.63	33.00
				H	127.87	23.69	9.90	5.56	28.03	33.00
			E1	V	128.40	24.01	9.90	5.56	28.35	33.00
				H	130.03	25.85	9.90	5.56	30.19	33.00
			E2	V	120.21	15.82	9.90	5.56	20.16	33.00
				H	131.26	27.08	9.90	5.84	<b>31.14</b>	33.00
	1880.00	661	H	V	129.07	24.71	9.99	5.61	29.09	33.00
				H	126.25	22.11	9.99	5.61	26.48	33.00
			E1	V	127.87	23.51	9.99	5.61	27.89	33.00
				H	129.37	25.23	9.99	5.61	29.60	33.00
			E2	V	117.65	13.29	9.99	5.61	17.67	33.00
				H	130.23	26.09	9.99	5.61	30.46	33.00
	1909.80	810	H	V	126.02	21.69	10.08	5.66	26.11	33.00
				H	123.00	18.89	10.08	5.66	23.31	33.00
			E1	V	126.23	21.90	10.08	5.66	26.32	33.00
				H	127.86	23.75	10.08	5.66	28.17	33.00
			E2	V	115.08	10.75	10.08	5.66	15.17	33.00
				H	127.77	23.66	10.08	5.66	28.08	33.00

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
RBW=300 KHz, VBW=1MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
EDGE 850	824.20	128	H	V	128.67	42.28	-7.87	3.62	30.78	38.45
				H	128.38	42.11	-7.87	3.62	30.61	38.45
			E1	V	129.54	43.15	-7.87	3.62	31.65	38.45
				H	126.02	39.75	-7.87	3.62	28.25	38.45
			E2	V	117.75	31.36	-7.87	3.62	19.86	38.45
				H	130.10	43.83	-7.87	3.62	<b>32.33</b>	38.45
	836.60	190	H	V	128.16	41.91	-7.88	3.65	30.38	38.45
				H	127.87	41.64	-7.88	3.65	30.11	38.45
			E1	V	128.64	42.39	-7.88	3.65	30.86	38.45
				H	125.55	39.32	-7.88	3.65	27.79	38.45
			E2	V	117.11	30.86	-7.88	3.65	19.33	38.45
				H	129.82	43.59	-7.88	3.65	32.06	38.45
	848.80	251	H	V	127.67	41.55	-7.88	3.68	29.99	38.45
				H	126.97	40.78	-7.88	3.68	29.22	38.45
			E1	V	128.09	41.97	-7.88	3.68	30.41	38.45
				H	125.80	39.61	-7.88	3.68	28.05	38.45
			E2	V	116.05	29.93	-7.88	3.68	18.37	38.45
				H	129.67	43.48	-7.88	3.68	31.92	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
RBW=300 KHz, VBW=1MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
EDGE 900	1850.20	512	H	V	130.03	25.64	9.90	5.56	29.98	33.00
				H	127.44	23.26	9.90	5.56	27.60	33.00
			E1	V	127.64	23.25	9.90	5.56	27.59	33.00
				H	129.27	25.09	9.90	5.56	29.43	33.00
			E2	V	118.99	14.60	9.90	5.56	18.94	33.00
				H	131.17	26.99	9.90	5.84	31.05	33.00
	1880.00	661	H	V	128.40	24.04	9.99	5.61	28.42	33.00
				H	125.82	21.68	9.99	5.61	26.05	33.00
			E1	V	127.14	22.78	9.99	5.61	27.16	33.00
				H	128.47	24.33	9.99	5.61	28.70	33.00
			E2	V	117.87	13.51	9.99	5.61	17.89	33.00
				H	130.91	26.77	9.99	5.61	<b>31.14</b>	33.00
	1909.80	810	H	V	125.44	21.11	10.08	5.66	25.53	33.00
				H	122.71	18.60	10.08	5.66	23.02	33.00
			E1	V	125.20	20.87	10.08	5.66	25.29	33.00
				H	126.70	22.59	10.08	5.66	27.01	33.00
			E2	V	114.59	10.26	10.08	5.66	14.68	33.00
				H	128.01	23.90	10.08	5.66	28.32	33.00

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
RBW=300 KHz, VBW=1MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
WCDMA II	1852.40	9262	H	V	124.37	19.99	9.90	5.56	24.32	33.00
				H	120.01	15.83	9.90	5.56	20.17	33.00
			E1	V	121.77	17.39	9.90	5.56	21.72	33.00
				H	123.19	19.01	9.90	5.56	23.35	33.00
			E2	V	122.38	18.00	9.90	5.56	22.33	33.00
				H	125.34	21.16	9.90	5.84	25.22	33.00
	1880.00	9400	H	V	123.48	19.12	9.99	5.61	23.50	33.00
				H	118.98	14.84	9.99	5.61	19.21	33.00
			E1	V	122.08	17.72	9.99	5.61	22.10	33.00
				H	123.11	18.97	9.99	5.61	23.34	33.00
			E2	V	111.93	7.57	9.99	5.61	11.95	33.00
				H	125.11	20.97	9.99	5.61	<b>25.34</b>	33.00
	1907.60	9538	H	V	122.07	17.74	10.07	5.66	22.15	33.00
				H	117.26	13.15	10.07	5.66	17.56	33.00
			E1	V	121.81	17.48	10.07	5.66	21.89	33.00
				H	122.67	18.56	10.07	5.66	22.97	33.00
			E2	V	111.00	6.67	10.07	5.66	11.08	33.00
				H	124.22	20.11	10.07	5.66	24.52	33.00

**Remark :**

(1) The RBW,VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
WCDMA V	826.40	4132	H	V	123.33	36.97	-7.88	3.63	25.46	38.45
				H	123.21	36.95	-7.88	3.63	25.45	38.45
			E1	V	124.84	38.48	-7.88	3.63	<b>26.97</b>	38.45
				H	119.09	32.83	-7.88	3.63	21.33	38.45
			E2	V	110.03	23.67	-7.88	3.63	12.16	38.45
				H	124.13	37.87	-7.88	3.63	26.37	38.45
	836.60	4183	H	V	122.69	36.44	-7.88	3.65	24.91	38.45
				H	122.96	36.73	-7.88	3.65	25.20	38.45
			E1	V	124.20	37.95	-7.88	3.65	26.42	38.45
				H	119.32	33.09	-7.88	3.65	21.56	38.45
			E2	V	109.14	22.89	-7.88	3.65	11.36	38.45
				H	123.48	37.25	-7.88	3.65	25.72	38.45
	846.60	4233	H	V	122.83	36.68	-7.88	3.67	25.13	38.45
				H	122.91	36.71	-7.88	3.67	25.16	38.45
			E1	V	124.10	37.95	-7.88	3.67	26.40	38.45
				H	120.03	33.83	-7.88	3.67	22.28	38.45
			E2	V	109.47	23.32	-7.88	3.67	11.77	38.45
				H	123.91	37.71	-7.88	3.67	26.16	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
RBW=300 KHz, VBW=1MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
HSUPA II	1852.40	9262	H	V	124.26	19.88	9.90	5.56	24.21	33.00
				H	119.49	15.31	9.90	5.56	19.65	33.00
			E1	V	121.71	17.33	9.90	5.56	21.66	33.00
				H	123.24	19.06	9.90	5.56	23.40	33.00
			E2	V	112.23	7.85	9.90	5.56	12.18	33.00
				H	125.21	21.03	9.90	5.84	25.09	33.00
	1880.00	9400	H	V	123.54	19.18	9.99	5.61	23.56	33.00
				H	118.62	14.48	9.99	5.61	18.85	33.00
			E1	V	121.76	17.40	9.99	5.61	21.78	33.00
				H	122.99	18.85	9.99	5.61	23.22	33.00
			E2	V	111.87	7.51	9.99	5.61	11.89	33.00
				H	125.11	20.97	9.99	5.61	<b>25.34</b>	33.00
	1907.60	9538	H	V	121.97	17.64	10.07	5.66	22.05	33.00
				H	117.04	12.93	10.07	5.66	17.34	33.00
			E1	V	121.44	17.11	10.07	5.66	21.52	33.00
				H	122.39	18.28	10.07	5.66	22.69	33.00
			E2	V	110.67	6.34	10.07	5.66	10.75	33.00
				H	124.27	20.16	10.07	5.66	24.57	33.00

**Remark :**

(1) The RBW,VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
HSUPA V	826.40	4132	H	V	123.46	37.10	-7.88	3.63	25.59	38.45
				H	123.18	36.92	-7.88	3.63	25.42	38.45
			E1	V	124.82	38.46	-7.88	3.63	<b>26.95</b>	38.45
				H	119.14	32.88	-7.88	3.63	21.38	38.45
			E2	V	111.54	25.18	-7.88	3.63	13.67	38.45
				H	124.53	38.27	-7.88	3.63	26.77	38.45
	836.60	4183	H	V	122.66	36.41	-7.88	3.65	24.88	38.45
				H	122.94	36.71	-7.88	3.65	25.18	38.45
			E1	V	124.13	37.88	-7.88	3.65	26.35	38.45
				H	119.29	33.06	-7.88	3.65	21.53	38.45
			E2	V	111.70	25.45	-7.88	3.65	13.92	38.45
				H	123.67	37.44	-7.88	3.65	25.91	38.45
	846.60	4233	H	V	122.93	36.78	-7.88	3.67	25.23	38.45
				H	123.09	36.89	-7.88	3.67	25.34	38.45
			E1	V	124.11	37.96	-7.88	3.67	26.41	38.45
				H	119.91	33.71	-7.88	3.67	22.16	38.45
			E2	V	111.70	25.55	-7.88	3.67	14.00	38.45
				H	123.90	37.70	-7.88	3.67	26.15	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
RBW=300 KHz, VBW=1MHz

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## 7. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 7.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

According to RSS-132 §4.5 and RSS-133 §6.5

Out-of-Block Emissions

a. Mobile stations must comply with subsection i. below.

In the first 1.0MHz band immediately outside and adjacent to the licensee's frequency block. the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least  $43 + 10 \log (P)$ , dB.

b. After the first 1.0 MHz (for equipment that complies with a.i. of this subsection) or 1.5 MHz (for equipment that complies with a.ii. of this subsection), the power of emissions shall be attenuated below the transmitter output power by at least  $43 + 10 \log (P)$ , dB, per any MHz of bandwidth.

(Note: If the test result using 1% of the emission bandwidth is used, then power integration over 1.0 MHz is required; alternatively, the spectrum analyser resolution and video bandwidths can be increased to 1.0 MHz for this measurement).

Out-of-Sub-band Emissions

Outside the sub-bands 1850-1910 MHz and 1930-1990 MHz, the attenuation shall be equal to or greater than the out-of-block emission limits in Section 6.5.1.

### 7.2 EUT Setup (Block Diagram of Configuration)

Refer to section 5.2 for details

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### 7.3 Measurement Procedure

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

ERP in frequency band 824.2 –848.80MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dBd)} - \text{Cable Loss (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dBi)} - \text{Cable Loss (dB)}$$

### 7.4 Measurement Equipment Used:

Refer to section 5.4 for details

### 7.5 Measurement Result

Refer to attach tabular data sheets.

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**Radiated Spurious Emission Measurement Result: GPRS 850 Mode**

Operation Mode	: TX CH Low Mode	Test Date:	Apr. 04, 2011
Fundamental Frequency	: 824.20 MHz	Test By:	Jason
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	48.12	V	-54.69	-7.75	1.30	-63.74	-13.00	-50.74
148.34	32.72	V	-64.72	-7.80	1.58	-74.10	-13.00	-61.10
289.96	37.34	V	-61.24	-7.91	2.13	-71.29	-13.00	-58.29
340.40	35.96	V	-61.79	-7.69	2.32	-71.81	-13.00	-58.81
542.16	39.53	V	-53.22	-7.75	2.93	-63.91	-13.00	-50.91
697.36	33.59	V	-55.82	-7.86	3.28	-66.96	-13.00	-53.96
824.00	83.61	V	-2.78	-7.87	3.62	-14.28	-13.00	-1.28
1650.00	55.11	V	-49.47	9.29	5.23	-45.41	-13.00	-32.41
2482.00	58.66	V	-42.28	10.07	6.54	-38.76	-13.00	-25.76
3288.00	41.10	V	-57.77	12.15	7.70	-53.32	-13.00	-40.32
4120.00	39.17	V	-56.96	12.61	8.86	-53.20	-13.00	-40.20
4952.00	42.39	V	-50.05	12.65	9.74	-47.14	-13.00	-34.14
5777.50	40.35	V	-49.82	13.57	10.55	-46.80	-13.00	-33.80
6590.00	41.12	V	-44.42	12.05	11.29	-43.67	-13.00	-30.67
7417.80	---	V		11.49	12.10		-13.00	
8242.00	---	V		11.48	12.71		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 40GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Low Mode  
Fundamental Frequency : 824.20 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	43.85	H	-59.66	-7.75	1.30	-68.71	-13.00	-55.71
206.54	37.47	H	-63.86	-7.85	1.75	-73.46	-13.00	-60.46
284.14	39.24	H	-58.91	-7.91	2.11	-68.94	-13.00	-55.94
345.25	35.19	H	-62.05	-7.67	2.34	-72.06	-13.00	-59.06
542.16	34.20	H	-57.79	-7.75	2.93	-68.48	-13.00	-55.48
697.36	33.22	H	-54.52	-7.86	3.28	-65.66	-13.00	-52.66
824.00	83.00	H	-3.27	-7.87	3.62	-14.77	-13.00	-1.77
1650.00	56.84	H	-47.56	9.29	5.23	-43.50	-13.00	-30.50
2482.00	59.38	H	-41.47	10.07	6.54	-37.94	-13.00	-24.94
3288.00	39.85	H	-59.25	12.15	7.70	-54.80	-13.00	-41.80
4120.00	39.89	H	-56.37	12.61	8.86	-52.61	-13.00	-39.61
4945.20	---	H		12.65	9.74		-13.00	
5777.50	37.28	H	-53.01	13.57	10.55	-49.99	-13.00	-36.99
6593.60	---	H		12.05	11.30		-13.00	
7417.80	---	H		11.49	12.10		-13.00	
8242.00	---	H		11.48	12.71		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 40GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 836.60 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	48.21	V	-54.60	-7.75	1.30	-63.65	-13.00	-50.65
146.40	32.02	V	-65.60	-7.80	1.57	-74.97	-13.00	-61.97
202.66	35.11	V	-66.57	-7.84	1.72	-76.14	-13.00	-63.14
287.05	35.60	V	-63.07	-7.91	2.12	-73.11	-13.00	-60.11
388.90	33.75	V	-62.22	-7.66	2.48	-72.36	-13.00	-59.36
542.16	38.67	V	-54.08	-7.75	2.93	-64.77	-13.00	-51.77
1663.00	53.48	V	-51.09	9.33	5.25	-47.01	-13.00	-34.01
2508.00	57.69	V	-43.10	10.08	6.58	-39.60	-13.00	-26.60
3346.40	---	V		12.28	7.79		-13.00	
4185.00	39.01	V	-56.87	12.62	8.93	-53.18	-13.00	-40.18
5017.00	41.17	V	-50.99	12.67	9.81	-48.13	-13.00	-35.13
5862.00	40.97	V	-48.96	13.69	10.63	-45.89	-13.00	-32.89
6687.50	40.37	V	-44.68	11.96	11.39	-44.11	-13.00	-31.11
7529.40	---	V		11.45	12.20		-13.00	
8366.00	---	V		11.59	12.81		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 40GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 836.60 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	43.21	H	-60.30	-7.75	1.30	-69.35	-13.00	-56.35
148.34	33.25	H	-64.69	-7.80	1.58	-74.07	-13.00	-61.07
216.24	36.72	H	-64.14	-7.86	1.80	-73.80	-13.00	-60.80
287.05	38.83	H	-59.23	-7.91	2.12	-69.27	-13.00	-56.27
354.95	36.71	H	-60.41	-7.64	2.37	-70.43	-13.00	-57.43
561.56	34.19	H	-57.29	-7.77	2.98	-68.04	-13.00	-55.04
1663.00	52.33	H	-52.06	9.33	5.25	-47.98	-13.00	-34.98
2508.00	52.48	H	-48.23	10.08	6.58	-44.72	-13.00	-31.72
3346.40	---	H		12.28	7.79		-13.00	
4185.00	39.66	H	-56.36	12.62	8.93	-52.68	-13.00	-39.68
5019.60	---	H		12.67	9.81		-13.00	
5856.20	---	H		13.68	10.62		-13.00	
6692.80	---	H		11.95	11.39		-13.00	
7529.40	---	H		11.45	12.20		-13.00	
8366.00	---	H		11.59	12.81		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 40GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH High Mode  
Fundamental Frequency : 848.80 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	47.58	V	-55.23	-7.75	1.30	-64.28	-13.00	-51.28
148.34	33.47	V	-63.97	-7.80	1.58	-73.35	-13.00	-60.35
224.00	36.00	V	-64.87	-7.86	1.84	-74.58	-13.00	-61.58
291.90	35.26	V	-63.26	-7.92	2.14	-73.31	-13.00	-60.31
542.16	37.97	V	-54.78	-7.75	2.93	-65.47	-13.00	-52.47
623.64	33.27	V	-55.99	-7.80	3.09	-66.88	-13.00	-53.88
850.00	83.53	V	-2.58	-7.88	3.68	-14.14	-13.00	-1.14
1702.00	51.55	V	-52.98	9.45	5.32	-48.85	-13.00	-35.85
2547.00	55.56	V	-45.08	10.20	6.63	-41.52	-13.00	-28.52
3395.20	---	V		12.38	7.87		-13.00	
4250.00	37.90	V	-57.74	12.63	9.01	-54.12	-13.00	-41.12
5095.00	42.94	V	-49.03	12.75	9.88	-46.17	-13.00	-33.17
5940.00	40.98	V	-48.72	13.81	10.70	-45.61	-13.00	-32.61
6785.00	39.35	V	-45.21	11.86	11.48	-44.83	-13.00	-31.83
7639.20	---	V		11.40	12.27		-13.00	
8488.00	---	V		11.70	12.91		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 40GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH High Mode  
Fundamental Frequency : 848.80 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	43.73	H	-59.78	-7.75	1.30	-68.83	-13.00	-55.83
192.96	35.43	H	-65.67	-7.83	1.69	-75.20	-13.00	-62.20
289.96	38.93	H	-59.04	-7.91	2.13	-69.09	-13.00	-56.09
345.25	35.67	H	-61.57	-7.67	2.34	-71.58	-13.00	-58.58
377.26	34.93	H	-61.85	-7.65	2.44	-71.94	-13.00	-58.94
542.16	34.99	H	-57.00	-7.75	2.93	-67.69	-13.00	-54.69
850.00	80.54	H	-5.65	-7.88	3.68	-17.21	-13.00	-4.21
1702.00	55.89	H	-48.45	9.45	5.32	-44.32	-13.00	-31.32
2547.00	52.51	H	-48.09	10.20	6.63	-44.52	-13.00	-31.52
3395.20	---	H		12.38	7.87		-13.00	
4250.00	38.73	H	-57.06	12.63	9.01	-53.44	-13.00	-40.44
5095.00	37.04	H	-55.10	12.75	9.88	-52.24	-13.00	-39.24
5941.60	---	H		13.81	10.70		-13.00	
6790.40	---	H		11.86	11.48		-13.00	
7639.20	---	H		11.40	12.27		-13.00	
8488.00	---	H		11.70	12.91		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 40GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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**Radiated Spurious Emission Measurement Result: GPRS 1900 Mode**

Operation Mode	: TX CH Low Mode	Test Date:	Apr. 04, 2011
Fundamental Frequency	: 1850.20 MHz	Test By:	Jason
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	48.02	V	-54.79	-7.75	1.30	-63.84	-13.00	-50.84
148.34	33.55	V	-63.89	-7.80	1.58	-73.27	-13.00	-60.27
284.14	34.16	V	-64.61	-7.91	2.11	-74.63	-13.00	-61.63
427.70	32.99	V	-61.64	-7.68	2.59	-71.92	-13.00	-58.92
542.16	39.59	V	-53.16	-7.75	2.93	-63.85	-13.00	-50.85
639.16	32.15	V	-56.91	-7.81	3.13	-67.85	-13.00	-54.85
1850.00	74.08	V	-30.31	9.90	5.56	-25.97	-13.00	-12.97
3697.50	42.67	V	-55.27	12.61	8.30	-50.97	-13.00	-37.97
5550.00	42.91	V	-47.93	13.23	10.33	-45.04	-13.00	-32.04
7402.50	42.34	V	-38.89	11.50	12.08	-39.48	-13.00	-26.48
9251.00	---	V		11.92	13.50		-13.00	
11101.20	---	V		11.66	15.11		-13.00	
12951.40	---	V		13.63	16.60		-13.00	
14801.60	---	V		12.76	17.95		-13.00	
16651.80	---	V		15.92	19.14		-13.00	
18502.00	---	V		18.75	10.40		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 40GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Operation Mode : TX CH Low Mode  
Fundamental Frequency : 1850.20 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	43.24	H	-60.27	-7.75	1.30	-69.32	-13.00	-56.32
148.34	32.95	H	-64.99	-7.80	1.58	-74.37	-13.00	-61.37
192.96	35.29	H	-65.81	-7.83	1.69	-75.34	-13.00	-62.34
289.96	37.75	H	-60.22	-7.91	2.13	-70.27	-13.00	-57.27
354.95	34.00	H	-63.12	-7.64	2.37	-73.14	-13.00	-60.14
542.16	34.95	H	-57.04	-7.75	2.93	-67.73	-13.00	-54.73
1850.00	85.42	H	-18.76	9.90	5.56	-14.42	-13.00	-1.42
3697.50	39.12	H	-58.94	12.61	8.30	-54.63	-13.00	-41.63
5550.00	37.22	H	-53.83	13.23	10.33	-50.94	-13.00	-37.94
7402.50	36.82	H	-44.40	11.50	12.08	-44.99	-13.00	-31.99
9251.00	---	H		11.92	13.50		-13.00	
11101.20	---	H		11.66	15.11		-13.00	
12951.40	---	H		13.63	16.60		-13.00	
14801.60	---	H		12.76	17.95		-13.00	
16651.80	---	H		15.92	19.14		-13.00	
18502.00	---	H		18.75	10.40		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 40GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 1880.00 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
70.74	42.85	V	-68.91	-1.18	1.16	-71.26	-13.00	-58.26
93.05	47.90	V	-54.91	-7.75	1.30	-63.96	-13.00	-50.96
199.95	38.47	V	-63.31	-7.84	1.71	-72.86	-13.00	-59.86
287.05	36.43	V	-62.24	-7.91	2.12	-72.28	-13.00	-59.28
542.16	38.18	V	-54.57	-7.75	2.93	-65.26	-13.00	-52.26
652.74	32.12	V	-56.83	-7.81	3.17	-67.81	-13.00	-54.81
3762.50	38.38	V	-59.27	12.60	8.39	-55.06	-13.00	-42.06
5647.50	46.38	V	-44.18	13.37	10.42	-41.23	-13.00	-28.23
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	
18800.00	---	V		18.68	16.58		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 40GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 1880.00 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	42.92	H	-60.59	-7.75	1.30	-69.64	-13.00	-56.64
214.30	35.51	H	-65.45	-7.85	1.79	-75.09	-13.00	-62.09
289.96	37.57	H	-60.40	-7.91	2.13	-70.45	-13.00	-57.45
437.40	33.36	H	-61.17	-7.69	2.62	-71.48	-13.00	-58.48
542.16	34.38	H	-57.61	-7.75	2.93	-68.30	-13.00	-55.30
699.30	33.50	H	-54.16	-7.86	3.29	-65.31	-13.00	-52.31
3762.50	39.56	H	-58.20	12.60	8.39	-53.99	-13.00	-40.99
5647.50	37.61	H	-53.11	13.37	10.42	-50.16	-13.00	-37.16
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 40GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH High Mode  
Fundamental Frequency : 1909.80 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	47.75	V	-55.06	-7.75	1.30	-64.11	-13.00	-51.11
148.34	32.97	V	-64.47	-7.80	1.58	-73.85	-13.00	-60.85
287.05	35.74	V	-62.93	-7.91	2.12	-72.97	-13.00	-59.97
396.66	32.80	V	-62.84	-7.66	2.50	-73.00	-13.00	-60.00
542.16	39.69	V	-53.06	-7.75	2.93	-63.75	-13.00	-50.75
930.16	33.31	V	-51.36	-7.98	3.84	-63.19	-13.00	-50.19
1910.00	68.86	V	-35.47	10.08	5.66	-31.05	-13.00	-18.05
3827.50	38.39	V	-58.97	12.60	8.48	-54.84	-13.00	-41.84
5732.00	40.81	V	-49.50	13.50	10.50	-46.50	-13.00	-33.50
7639.20	---	V		11.40	12.27		-13.00	
9549.00	---	V		11.95	13.74		-13.00	
11458.80	---	V		12.17	15.43		-13.00	
13368.60	---	V		12.97	16.82		-13.00	
15278.40	---	V		15.00	18.29		-13.00	
17188.20	---	V		14.47	19.52		-13.00	
19098.00	---	V		18.66	20.78		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 40GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH High Mode  
Fundamental Frequency : 1909.80 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	44.18	H	-59.33	-7.75	1.30	-68.38	-13.00	-55.38
214.30	37.06	H	-63.90	-7.85	1.79	-73.54	-13.00	-60.54
284.14	37.63	H	-60.52	-7.91	2.11	-70.55	-13.00	-57.55
542.16	35.71	H	-56.28	-7.75	2.93	-66.97	-13.00	-53.97
716.76	33.27	H	-57.49	-7.86	3.35	-68.71	-13.00	-55.71
917.55	32.65	H	-51.98	-7.97	3.82	-63.76	-13.00	-50.76
1910.00	83.65	H	-20.46	10.08	5.66	-16.04	-13.00	-3.04
3827.50	37.24	H	-60.23	12.60	8.48	-56.11	-13.00	-43.11
5732.00	35.02	H	-55.42	13.50	10.50	-52.43	-13.00	-39.43
7639.20	---	H		11.40	12.27		-13.00	
9549.00	---	H		11.95	13.74		-13.00	
11458.80	---	H		12.17	15.43		-13.00	
13368.60	---	H		12.97	16.82		-13.00	
15278.40	---	H		15.00	18.29		-13.00	
17188.20	---	H		14.47	19.52		-13.00	
19098.00	---	H		18.66	20.78		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 40GHz: 4.45dB

Remark :

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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**Radiated Spurious Emission Measurement Result: WCDMA II Mode**

Operation Mode	: TX CH Low Mode	Test Date:	Apr. 04, 2011
Fundamental Frequency	: 1852.40 MHz	Test By:	Jason
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	48.18	V	-54.63	-7.75	1.30	-63.68	-13.00	-50.68
146.40	33.04	V	-64.58	-7.80	1.57	-73.95	-13.00	-60.95
291.90	35.43	V	-63.09	-7.92	2.14	-73.14	-13.00	-60.14
427.70	33.04	V	-61.59	-7.68	2.59	-71.87	-13.00	-58.87
542.16	38.61	V	-54.14	-7.75	2.93	-64.83	-13.00	-51.83
733.25	32.87	V	-55.02	-7.87	3.41	-66.30	-13.00	-53.30
1850.00	74.29	V	-30.10	9.90	5.56	-25.76	-13.00	-12.76
3717.00	48.48	V	-49.37	12.61	8.33	-45.10	-13.00	-32.10
5550.00	41.71	V	-49.13	13.23	10.33	-46.24	-13.00	-33.24
7422.00	35.29	V	-45.83	11.49	12.10	-46.45	-13.00	-33.45
9262.00	---	V		11.92	13.51		-13.00	
11114.40	---	V		11.68	15.12		-13.00	
12966.80	---	V		13.62	16.61		-13.00	
14819.20	---	V		12.83	17.96		-13.00	
16671.60	---	V		15.87	19.15		-13.00	
18524.00	---	V		18.74	10.86		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Low Mode  
Fundamental Frequency : 1852.40 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.50	43.43	H	-60.05	-7.75	1.30	-69.11	-13.00	-56.11
194.90	36.23	H	-65.02	-7.84	1.70	-74.56	-13.00	-61.56
289.96	37.84	H	-60.13	-7.91	2.13	-70.18	-13.00	-57.18
542.16	35.14	H	-56.85	-7.75	2.93	-67.54	-13.00	-54.54
701.24	33.96	H	-53.90	-7.86	3.29	-65.06	-13.00	-52.06
895.24	34.31	H	-50.67	-7.94	3.78	-62.39	-13.00	-49.39
1850.00	85.14	H	-19.04	9.90	5.56	-14.70	-13.00	-1.70
3697.50	49.68	H	-48.38	12.61	8.30	-44.07	-13.00	-31.07
5550.00	37.07	H	-53.98	13.23	10.33	-51.09	-13.00	-38.09
7409.60	---	H		11.49	12.09		-13.00	
9262.00	---	H		11.92	13.51		-13.00	
11114.40	---	H		11.68	15.12		-13.00	
12966.80	---	H		13.62	16.61		-13.00	
14819.20	---	H		12.83	17.96		-13.00	
16671.60	---	H		15.87	19.15		-13.00	
18524.00	---	H		18.74	10.86		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 1880.00 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	48.03	V	-54.78	-7.75	1.30	-63.83	-13.00	-50.83
148.34	32.49	V	-64.95	-7.80	1.58	-74.33	-13.00	-61.33
289.96	34.72	V	-63.86	-7.91	2.13	-73.91	-13.00	-60.91
427.70	32.97	V	-61.66	-7.68	2.59	-71.94	-13.00	-58.94
542.16	38.25	V	-54.50	-7.75	2.93	-65.19	-13.00	-52.19
713.85	32.99	V	-55.80	-7.86	3.34	-67.01	-13.00	-54.01
3762.50	40.15	V	-57.50	12.60	8.39	-53.29	-13.00	-40.29
5647.50	41.13	V	-49.43	13.37	10.42	-46.48	-13.00	-33.48
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	
18800.00	---	V		18.68	16.58		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 1880.00 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	43.68	H	-59.83	-7.75	1.30	-68.88	-13.00	-55.88
196.84	38.31	H	-63.09	-7.84	1.70	-72.63	-13.00	-59.63
291.90	37.94	H	-59.97	-7.92	2.14	-70.03	-13.00	-57.03
398.60	35.50	H	-60.95	-7.66	2.51	-71.12	-13.00	-58.12
542.16	34.84	H	-57.15	-7.75	2.93	-67.84	-13.00	-54.84
723.55	32.76	H	-59.27	-7.86	3.37	-70.51	-13.00	-57.51
3762.50	42.26	H	-55.50	12.60	8.39	-51.29	-13.00	-38.29
5647.50	37.59	H	-53.13	13.37	10.42	-50.18	-13.00	-37.18
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH High Mode  
Fundamental Frequency : 1907.60 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	48.29	V	-54.52	-7.75	1.30	-63.57	-13.00	-50.57
180.35	35.16	V	-64.86	-7.82	1.66	-74.34	-13.00	-61.34
291.90	33.94	V	-64.58	-7.92	2.14	-74.63	-13.00	-61.63
425.76	32.87	V	-61.82	-7.68	2.59	-72.09	-13.00	-59.09
542.16	39.11	V	-53.64	-7.75	2.93	-64.33	-13.00	-51.33
716.76	33.06	V	-55.60	-7.86	3.35	-66.81	-13.00	-53.81
1910.00	71.20	V	-33.13	10.08	5.66	-28.71	-13.00	-15.71
3808.00	44.18	V	-53.26	12.60	8.46	-49.12	-13.00	-36.12
5732.00	43.99	V	-46.32	13.50	10.50	-43.32	-13.00	-30.32
7630.40	---	V		11.41	12.27		-13.00	
9538.00	---	V		11.95	13.73		-13.00	
11445.60	---	V		12.15	15.42		-13.00	
13353.20	---	V		13.00	16.81		-13.00	
15260.80	---	V		14.91	18.28		-13.00	
17168.40	---	V		14.53	19.50		-13.00	
19076.00	---	V		18.65	20.76		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH High Mode  
Fundamental Frequency : 1907.60 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	43.38	H	-60.13	-7.75	1.30	-69.18	-13.00	-56.18
216.24	39.78	H	-61.08	-7.86	1.80	-70.74	-13.00	-57.74
284.14	36.29	H	-61.86	-7.91	2.11	-71.89	-13.00	-58.89
386.96	34.92	H	-61.71	-7.65	2.47	-71.84	-13.00	-58.84
542.16	34.20	H	-57.79	-7.75	2.93	-68.48	-13.00	-55.48
699.30	32.92	H	-54.74	-7.86	3.29	-65.89	-13.00	-52.89
1910.00	83.45	H	-20.66	10.08	5.66	-16.24	-13.00	-3.24
3808.00	47.05	H	-50.51	12.60	8.46	-46.36	-13.00	-33.36
5732.00	39.03	H	-51.41	13.50	10.50	-48.42	-13.00	-35.42
7630.40	---	H		11.41	12.27		-13.00	
9538.00	---	H		11.95	13.73		-13.00	
11445.60	---	H		12.15	15.42		-13.00	
13353.20	---	H		13.00	16.81		-13.00	
15260.80	---	H		14.91	18.28		-13.00	
17168.40	---	H		14.53	19.50		-13.00	
19076.00	---	H		18.65	20.76		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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**Radiated Spurious Emission Measurement Result: WCDMA V Mode**

Operation Mode	: TX CH Low Mode	Test Date:	Apr. 04, 2011
Fundamental Frequency	: 826.40 MHz	Test By:	Jason
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	47.93	V	-54.88	-7.75	1.30	-63.93	-13.00	-50.93
148.34	32.90	V	-64.54	-7.80	1.58	-73.92	-13.00	-60.92
284.14	37.33	V	-61.44	-7.91	2.11	-71.46	-13.00	-58.46
396.66	34.39	V	-61.25	-7.66	2.50	-71.41	-13.00	-58.41
542.16	39.41	V	-53.34	-7.75	2.93	-64.03	-13.00	-51.03
648.86	32.00	V	-56.93	-7.81	3.16	-67.90	-13.00	-54.90
824.00	83.47	V	-2.92	-7.87	3.62	-14.42	-13.00	-1.42
1650.00	50.16	V	-54.42	9.29	5.23	-50.36	-13.00	-37.36
2482.00	36.14	V	-64.80	10.07	6.54	-61.28	-13.00	-48.28
3305.60	---	V		12.19	7.73		-13.00	
4132.00	---	V		12.62	8.87		-13.00	
4958.40	---	V		12.65	9.75		-13.00	
5784.80	---	V		13.58	10.55		-13.00	
6611.20	---	V		12.03	11.31		-13.00	
7437.60	---	V		11.48	12.12		-13.00	
8264.00	---	V		11.50	12.73		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Low Mode  
Fundamental Frequency : 826.40 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	44.03	H	-59.48	-7.75	1.30	-68.53	-13.00	-55.53
196.84	37.18	H	-64.22	-7.84	1.70	-73.76	-13.00	-60.76
287.05	40.11	H	-57.95	-7.91	2.12	-67.99	-13.00	-54.99
348.16	36.26	H	-60.96	-7.65	2.35	-70.96	-13.00	-57.96
393.75	37.89	H	-58.64	-7.66	2.49	-68.79	-13.00	-55.79
542.16	34.29	H	-57.70	-7.75	2.93	-68.39	-13.00	-55.39
824.00	79.38	H	-6.89	-7.87	3.62	-18.39	-13.00	-5.39
1650.00	52.41	H	-51.99	9.29	5.23	-47.93	-13.00	-34.93
2482.00	36.17	H	-64.68	10.07	6.54	-61.15	-13.00	-48.15
3305.60	---	H		12.19	7.73		-13.00	
4133.00	36.59	H	-59.62	12.62	8.87	-55.88	-13.00	-42.88
4958.40	---	H		12.65	9.75		-13.00	
5784.80	---	H		13.58	10.55		-13.00	
6611.20	---	H		12.03	11.31		-13.00	
7437.60	---	H		11.48	12.12		-13.00	
8264.00	---	H		11.50	12.73		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 836.60 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	47.99	V	-54.82	-7.75	1.30	-63.87	-13.00	-50.87
148.34	32.50	V	-64.94	-7.80	1.58	-74.32	-13.00	-61.32
228.85	34.50	V	-66.19	-7.87	1.87	-75.93	-13.00	-62.93
287.05	39.43	V	-59.24	-7.91	2.12	-69.28	-13.00	-56.28
396.66	35.90	V	-59.74	-7.66	2.50	-69.90	-13.00	-56.90
542.16	38.23	V	-54.52	-7.75	2.93	-65.21	-13.00	-52.21
1663.00	46.99	V	-57.58	9.33	5.25	-53.50	-13.00	-40.50
2508.00	35.86	V	-64.93	10.08	6.58	-61.43	-13.00	-48.43
3346.40	---	V		12.28	7.79		-13.00	
4183.00	---	V		12.62	8.93		-13.00	
5019.60	---	V		12.67	9.81		-13.00	
5856.20	---	V		13.68	10.62		-13.00	
6692.80	---	V		11.95	11.39		-13.00	
7529.40	---	V		11.45	12.20		-13.00	
8366.00	---	V		11.59	12.81		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Mid Mode  
Fundamental Frequency : 836.60 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
99.84	43.27	H	-59.74	-7.76	1.36	-68.86	-13.00	-55.86
138.64	36.44	H	-62.52	-7.79	1.54	-71.85	-13.00	-58.85
231.76	35.04	H	-65.07	-7.87	1.89	-74.83	-13.00	-61.83
289.96	40.76	H	-57.21	-7.91	2.13	-67.26	-13.00	-54.26
393.75	45.80	H	-50.73	-7.66	2.49	-60.88	-13.00	-47.88
519.85	34.72	H	-58.04	-7.74	2.86	-68.64	-13.00	-55.64
1663.00	49.96	H	-54.43	9.33	5.25	-50.35	-13.00	-37.35
2508.00	35.84	H	-64.87	10.08	6.58	-61.36	-13.00	-48.36
3346.40	---	H		12.28	7.79		-13.00	
4185.00	37.42	H	-58.60	12.62	8.93	-54.92	-13.00	-41.92
5019.60	---	H		12.67	9.81		-13.00	
5856.20	---	H		13.68	10.62		-13.00	
6692.80	---	H		11.95	11.39		-13.00	
7529.40	---	H		11.45	12.20		-13.00	
8366.00	---	H		11.59	12.81		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH High Mode  
Fundamental Frequency : 846.60 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	48.48	V	-54.33	-7.75	1.30	-63.38	-13.00	-50.38
199.75	38.30	V	-63.46	-7.84	1.71	-73.01	-13.00	-60.01
287.05	38.69	V	-59.98	-7.91	2.12	-70.02	-13.00	-57.02
427.70	33.33	V	-61.30	-7.68	2.59	-71.58	-13.00	-58.58
542.16	37.79	V	-54.96	-7.75	2.93	-65.65	-13.00	-52.65
710.94	33.04	V	-55.89	-7.86	3.33	-67.08	-13.00	-54.08
850.00	82.99	V	-3.12	-7.88	3.68	-14.68	-13.00	-1.68
1702.00	45.48	V	-59.05	9.45	5.32	-54.92	-13.00	-41.92
2540.00	35.81	V	-64.86	10.18	6.62	-61.31	-13.00	-48.31
3386.40	---	V		12.36	7.85		-13.00	
4233.00	---	V		12.63	8.99		-13.00	
5079.60	---	V		12.73	9.87		-13.00	
5926.20	---	V		13.79	10.69		-13.00	
6772.80	---	V		11.87	11.47		-13.00	
7619.40	---	V		11.41	12.26		-13.00	
8466.00	---	V		11.68	12.89		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH High Mode  
Fundamental Frequency : 846.60 MHz  
Temperature : 25  
Humidity : 65%

Test Date: Apr. 04, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
93.05	43.74	H	-59.77	-7.75	1.30	-68.82	-13.00	-55.82
141.55	33.80	H	-64.85	-7.79	1.55	-74.20	-13.00	-61.20
190.05	35.28	H	-65.60	-7.83	1.69	-75.12	-13.00	-62.12
289.96	42.07	H	-55.90	-7.91	2.13	-65.95	-13.00	-52.95
393.75	35.98	H	-60.55	-7.66	2.49	-70.70	-13.00	-57.70
542.16	34.03	H	-57.96	-7.75	2.93	-68.65	-13.00	-55.65
850.00	80.27	H	-5.92	-7.88	3.68	-17.48	-13.00	-4.48
1702.00	46.98	H	-57.36	9.45	5.32	-53.23	-13.00	-40.23
2540.00	35.40	H	-65.22	10.18	6.62	-61.66	-13.00	-48.66
3386.40	---	H		12.36	7.85		-13.00	
4233.00	---	H		12.63	8.99		-13.00	
5079.60	---	H		12.73	9.87		-13.00	
5926.20	---	H		13.79	10.69		-13.00	
6772.80	---	H		11.87	11.47		-13.00	
7619.40	---	H		11.41	12.26		-13.00	
8466.00	---	H		11.68	12.89		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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**Radiated Spurious Emission Measurement Result (below 1GHz)**

Operation Mode:	GPRS 850 RX CH Low Mode	Test Date	Apr. 01, 2011
Fundamental Frequency	824.20 MHz	Test By	Jason
Temperature:	25	Pol	Ver./Hor
Humidity:	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
93.05	V	Peak	53.56	-17.35	36.21	43.50	-7.29
170.65	V	Peak	36.22	-13.98	22.24	43.50	-21.26
291.90	V	Peak	34.62	-13.20	21.42	46.00	-24.58
542.16	V	Peak	38.76	-7.75	31.01	46.00	-14.99
720.64	V	Peak	33.94	-4.73	29.21	46.00	-16.79
778.84	V	Peak	33.46	-3.58	29.88	46.00	-16.12
70.74	H	Peak	44.67	-16.27	28.40	40.00	-11.60
93.05	H	Peak	48.26	-17.35	30.91	43.50	-12.59
209.45	H	Peak	38.77	-15.28	23.49	43.50	-20.01
284.14	H	Peak	36.56	-13.28	23.28	46.00	-22.72
410.24	H	Peak	34.05	-9.64	24.41	46.00	-21.59
522.76	H	Peak	34.41	-8.09	26.32	46.00	-19.68

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode: GPRS 850 RX CH Mid Mode  
Fundamental Frequency 836.60 MHz  
Temperature: 25  
Humidity: 65 %

Test Date Apr. 01, 2011  
Test By Jason  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
93.05	V	Peak	53.18	-17.35	35.83	43.50	-7.67
206.54	V	Peak	40.12	-15.39	24.73	43.50	-18.77
429.64	V	Peak	32.65	-9.14	23.51	46.00	-22.49
542.16	V	Peak	38.03	-7.75	30.28	46.00	-15.72
720.64	V	Peak	34.63	-4.73	29.90	46.00	-16.10
798.24	V	Peak	34.07	-3.08	30.99	46.00	-15.01
41.64	H	Peak	41.65	-13.76	27.89	40.00	-12.11
99.84	H	Peak	44.72	-17.01	27.71	43.50	-15.79
202.66	H	Peak	35.18	-15.51	19.67	43.50	-23.83
437.40	H	Peak	32.64	-8.85	23.79	46.00	-22.21
522.76	H	Peak	34.25	-8.09	26.16	46.00	-19.84
893.30	H	Peak	31.85	-1.16	30.69	46.00	-15.31

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode: GPRS 850 RX CH High Mode  
Fundamental Frequency 848.80 MHz  
Temperature: 25  
Humidity: 65 %

Test Date Apr. 01, 2011  
Test By Jason  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
93.05	V	Peak	53.47	-17.35	36.12	43.50	-7.38
289.96	V	Peak	33.84	-13.22	20.62	46.00	-25.38
427.70	V	Peak	32.12	-9.19	22.93	46.00	-23.07
542.16	V	Peak	38.41	-7.75	30.66	46.00	-15.34
645.95	V	Peak	31.74	-5.08	26.66	46.00	-19.34
794.36	V	Peak	31.94	-3.16	28.78	46.00	-17.22
93.05	H	Peak	48.63	-17.35	31.28	43.50	-12.22
196.84	H	Peak	36.39	-15.51	20.88	43.50	-22.62
289.96	H	Peak	39.04	-13.22	25.82	46.00	-20.18
406.36	H	Peak	35.05	-9.84	25.21	46.00	-20.79
542.16	H	Peak	33.61	-7.75	25.86	46.00	-20.14
844.80	H	Peak	32.39	-2.08	30.31	46.00	-15.69

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode: GPRS 1900 RX CH Low Mode  
Fundamental Frequency 1850.20 MHz  
Temperature: 25  
Humidity: 65 %

Test Date Apr. 01, 2011  
Test By Jason  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
93.05	V	Peak	53.80	-17.35	36.45	43.50	-7.05
148.34	V	Peak	31.79	-12.90	18.89	43.50	-24.61
289.96	V	Peak	34.08	-13.22	20.86	46.00	-25.14
418.00	V	Peak	33.47	-9.44	24.03	46.00	-21.97
542.16	V	Peak	38.23	-7.75	30.48	46.00	-15.52
798.24	V	Peak	32.95	-3.08	29.87	46.00	-16.13
93.05	H	Peak	47.93	-17.35	30.58	43.50	-12.92
199.75	H	Peak	43.18	-15.62	27.56	43.50	-15.94
291.90	H	Peak	38.12	-13.20	24.92	46.00	-21.08
408.30	H	Peak	35.24	-9.79	25.45	46.00	-20.55
542.16	H	Peak	33.94	-7.75	26.19	46.00	-19.81
798.24	H	Peak	32.25	-3.08	29.17	46.00	-16.83

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode: GPRS 1900 RX CH Mid Mode  
Fundamental Frequency 1909.80 MHz  
Temperature: 25  
Humidity: 65 %

Test Date Apr. 01, 2011  
Test By Jason  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
93.05	V	Peak	53.79	-17.35	36.44	43.50	-7.06
148.34	V	Peak	33.98	-12.90	21.08	43.50	-22.42
287.05	V	Peak	35.99	-13.25	22.74	46.00	-23.26
542.16	V	Peak	38.22	-7.75	30.47	46.00	-15.53
720.64	V	Peak	34.02	-4.73	29.29	46.00	-16.71
798.24	V	Peak	33.93	-3.08	30.85	46.00	-15.15
93.05	H	Peak	47.63	-17.35	30.28	43.50	-13.22
154.16	H	Peak	33.93	-13.06	20.87	43.50	-22.63
289.96	H	Peak	37.05	-13.22	23.83	46.00	-22.17
425.76	H	Peak	32.77	-9.24	23.53	46.00	-22.47
542.16	H	Peak	34.30	-7.75	26.55	46.00	-19.45
738.10	H	Peak	31.95	-4.45	27.50	46.00	-18.50

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode:	GPRS 1900 RX CH High Mode	Test Date	Apr. 01, 2011
Fundamental Frequency	1909.80 MHz	Test By	Jason
Temperature:	25	Pol	Ver./Hor
Humidity:	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
93.05	V	Peak	53.94	-17.35	36.59	43.50	-6.91
148.34	V	Peak	33.99	-12.90	21.09	43.50	-22.41
287.05	V	Peak	35.39	-13.25	22.14	46.00	-23.86
542.16	V	Peak	38.70	-7.75	30.95	46.00	-15.05
720.64	V	Peak	32.39	-4.73	27.66	46.00	-18.34
798.24	V	Peak	33.88	-3.08	30.80	46.00	-15.20
41.64	H	Peak	40.40	-13.76	26.64	40.00	-13.36
93.05	H	Peak	47.52	-17.35	30.17	43.50	-13.33
206.54	H	Peak	40.03	-15.39	24.64	43.50	-18.86
289.96	H	Peak	35.97	-13.22	22.75	46.00	-23.25
424.79	H	Peak	32.52	-9.27	23.25	46.00	-22.75
519.85	H	Peak	33.54	-8.13	25.41	46.00	-20.59

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode: WCDMA II RX CH Low Mode  
Fundamental Frequency 1852.40 MHz  
Temperature: 25  
Humidity: 65 %

Test Date Apr. 01, 2011  
Test By Jason  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
93.05	V	Peak	53.61	-17.35	36.26	43.50	-7.24
144.46	V	Peak	34.86	-13.21	21.65	43.50	-21.85
289.96	V	Peak	35.81	-13.22	22.59	46.00	-23.41
396.66	V	Peak	32.67	-10.12	22.55	46.00	-23.45
542.16	V	Peak	38.64	-7.75	30.89	46.00	-15.11
798.24	V	Peak	32.57	-3.08	29.49	46.00	-16.51
93.05	H	Peak	49.42	-17.35	32.07	43.50	-11.43
194.90	H	Peak	37.44	-15.40	22.04	43.50	-21.46
289.96	H	Peak	38.58	-13.22	25.36	46.00	-20.64
419.94	H	Peak	34.24	-9.39	24.85	46.00	-21.15
542.16	H	Peak	35.73	-7.75	27.98	46.00	-18.02
781.75	H	Peak	33.90	-3.46	30.44	46.00	-15.56

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode: WCDMA II RX CH Mid Mode  
Fundamental Frequency 1880.00 MHz  
Temperature: 25  
Humidity: 65 %

Test Date Apr. 01, 2011  
Test By Jason  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
93.05	V	Peak	53.30	-17.35	35.95	43.50	-7.55
199.75	V	Peak	38.64	-15.62	23.02	43.50	-20.48
296.75	V	Peak	33.38	-13.15	20.23	46.00	-25.77
542.16	V	Peak	36.45	-7.75	28.70	46.00	-17.30
720.64	V	Peak	33.55	-4.73	28.82	46.00	-17.18
895.24	V	Peak	31.71	-1.13	30.58	46.00	-15.42
93.05	H	Peak	47.48	-17.35	30.13	43.50	-13.37
144.46	H	Peak	34.43	-13.21	21.22	43.50	-22.28
289.96	H	Peak	37.75	-13.22	24.53	46.00	-21.47
571.26	H	Peak	33.64	-6.95	26.69	46.00	-19.31
660.50	H	Peak	32.55	-4.99	27.56	46.00	-18.44
791.45	H	Peak	32.16	-3.23	28.93	46.00	-17.07

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode: WCDMA II RX CH High Mode  
Fundamental Frequency 1907.60 MHz  
Temperature: 25  
Humidity: 65 %

Test Date Apr. 01, 2011  
Test By Jason  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
93.05	V	Peak	53.62	-17.35	36.27	43.50	-7.23
141.55	V	Peak	35.32	-13.56	21.76	43.50	-21.74
289.96	V	Peak	36.36	-13.22	23.14	46.00	-22.86
396.66	V	Peak	33.49	-10.12	23.37	46.00	-22.63
542.16	V	Peak	38.19	-7.75	30.44	46.00	-15.56
720.64	V	Peak	34.09	-4.73	29.36	46.00	-16.64
41.64	H	Peak	40.74	-13.76	26.98	40.00	-13.02
93.05	H	Peak	48.75	-17.35	31.40	43.50	-12.10
289.96	H	Peak	36.37	-13.22	23.15	46.00	-22.85
396.66	H	Peak	33.14	-10.12	23.02	46.00	-22.98
542.16	H	Peak	34.30	-7.75	26.55	46.00	-19.45
655.65	H	Peak	32.22	-4.97	27.25	46.00	-18.75

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode: WCDMA V RX CH Low Mode  
Fundamental Frequency 826.40 MHz  
Temperature: 25  
Humidity: 65 %

Test Date Apr. 01, 2011  
Test By Jason  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
93.05	V	Peak	53.49	-17.35	36.14	43.50	-7.36
154.16	V	Peak	31.79	-13.06	18.73	43.50	-24.77
291.90	V	Peak	33.20	-13.20	20.00	46.00	-26.00
418.00	V	Peak	32.15	-9.44	22.71	46.00	-23.29
542.16	V	Peak	38.36	-7.75	30.61	46.00	-15.39
670.20	V	Peak	30.89	-5.03	25.86	46.00	-20.14
93.05	H	Peak	47.63	-17.35	30.28	43.50	-13.22
202.66	H	Peak	39.61	-15.51	24.10	43.50	-19.40
287.05	H	Peak	37.63	-13.25	24.38	46.00	-21.62
419.94	H	Peak	33.75	-9.39	24.36	46.00	-21.64
542.16	H	Peak	35.42	-7.75	27.67	46.00	-18.33
728.40	H	Peak	34.28	-4.56	29.72	46.00	-16.28

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode: WCDMA V RX CH Mid Mode  
Fundamental Frequency 836.60 MHz  
Temperature: 25  
Humidity: 65 %

Test Date Apr. 01, 2011  
Test By Jason  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
93.05	V	Peak	53.84	-17.35	36.49	43.50	-7.01
146.40	V	Peak	34.25	-13.06	21.19	43.50	-22.31
287.50	V	Peak	36.86	-13.25	23.61	46.00	-22.39
390.84	V	Peak	33.27	-10.31	22.96	46.00	-23.04
542.16	V	Peak	39.44	-7.75	31.69	46.00	-14.31
798.24	V	Peak	33.95	-3.08	30.87	46.00	-15.13
93.05	H	Peak	49.14	-17.35	31.79	43.50	-11.71
138.64	H	Peak	35.07	-13.80	21.27	43.50	-22.23
289.96	H	Peak	36.59	-13.22	23.37	46.00	-22.63
432.55	H	Peak	32.21	-9.06	23.15	46.00	-22.85
571.26	H	Peak	32.18	-6.95	25.23	46.00	-20.77
772.05	H	Peak	31.46	-3.74	27.72	46.00	-18.28

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode: WCDMA V RX CH High Mode  
Fundamental Frequency 846.60 MHz  
Temperature: 25  
Humidity: 65 %

Test Date Apr. 01, 2011  
Test By Jason  
Pol Ver./Hor

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
93.05	V	Peak	53.70	-17.35	36.35	43.50	-7.15
148.34	V	Peak	32.55	-12.90	19.65	43.50	-23.85
284.14	V	Peak	33.85	-13.28	20.57	46.00	-25.43
422.85	V	Peak	32.45	-9.31	23.14	46.00	-22.86
542.16	V	Peak	39.29	-7.75	31.54	46.00	-14.46
757.50	V	Peak	33.62	-4.06	29.56	46.00	-16.44
93.05	H	Peak	47.44	-17.35	30.09	43.50	-13.41
194.90	H	Peak	37.44	-15.40	22.04	43.50	-21.46
289.96	H	Peak	37.67	-13.22	24.45	46.00	-21.55
393.75	H	Peak	34.60	-10.21	24.39	46.00	-21.61
542.16	H	Peak	34.59	-7.75	26.84	46.00	-19.16
652.74	H	Peak	32.38	-4.96	27.42	46.00	-18.58

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz.
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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**Radiated Spurious Emission Measurement Result (above 1GHz)**

Operation Mode:	GPRS 850 RX CH Low	Test Date	Apr. 01, 2011
Fundamental Frequency:	824.20 MHz	Test By	Jason
Temperature:	25	Pol	Ver.
Humidity:	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1648.4	--	--		--	--	74.00	54.00	V
2472.6	--	--		--	--	74.00	54.00	V
2898.0	36.90	--	0.18	37.08	--	74.00	54.00	-16.92 V
3296.8	--	--		--	--	74.00	54.00	V
4121.0	--	--		--	--	74.00	54.00	V
4945.2	--	--		--	--	74.00	54.00	V
4978.0	33.64	--	6.39	40.03	--	74.00	54.00	-13.97 V

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode:	GPRS 850 RX CH Low	Test Date	Apr. 01, 2011
Fundamental Frequency:	824.20 MHz	Test By	Jason
Temperature:	25	Pol	Hor
Humidity:	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1648.4	--	--			--	74.00	54.00	H
2472.6	--	--			--	74.00	54.00	H
2982.5	36.51	--	6.39	42.90	--	74.00	54.00	-11.10 H
3296.8	--	--			--	74.00	54.00	H
4121.0	--	--			--	74.00	54.00	H
4945.2	--	--			--	74.00	54.00	H
6252.0	34.71	--	6.39	41.10	--	74.00	54.00	-12.90 H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: GPRS 850 RX CH Mid  
Fundamental Frequency: 836.60 MHz  
Temperature: 25  
Humidity: 65 %

Test Date: Apr. 01, 2011  
Test By: Jason  
Pol: Ver.

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1673.2	--	--		--	--	74.00	54.00	V
2509.8	--	--		--	--	74.00	54.00	V
2982.5	35.55	--	0.38	35.93	--	74.00	54.00	-18.07 V
3346.4	--	--		--	--	74.00	54.00	V
4183.0	--	--		--	--	74.00	54.00	V
5017.0	34.12	--	6.48	40.60	--	74.00	54.00	-13.40 V

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode:	GPRS 850 RX CH Mid	Test Date	Apr. 01, 2011
Fundamental Frequency:	836.60 MHz	Test By	Jason
Temperature:	25	Pol	Hor
Humidity:	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1673.2	--	--			--	74.00	54.00	H
2509.8	--	--			--	74.00	54.00	H
3346.4	--	--			--	74.00	54.00	H
3782.0	34.03	--	2.98	37.01	--	74.00	54.00	-16.99 H
4183.0	--	--			--	74.00	54.00	H
5019.6	--	--			--	74.00	54.00	H
5563.0	33.23	--	7.61	40.84	--	74.00	54.00	-13.16 H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode:	GPRS 850 RX CH High	Test Date	Apr. 01, 2011
Fundamental Frequency:	848.80 MHz	Test By	Jason
Temperature:	25	Pol	Ver.
Humidity:	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1697.6	--	--			--	74.00	54.00	V
2546.4	--	--			--	74.00	54.00	V
3262.0	36.57	--	1.27	37.84	--	74.00	54.00	-16.16 V
3395.2	--	--			--	74.00	54.00	V
4244.0	--	--			--	74.00	54.00	V
4965.0	34.36	--	6.38	40.74	--	74.00	54.00	-13.26 V
5092.8	--	--			--	74.00	54.00	V

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode:	GPRS 850 RX CH High	Test Date	Apr. 01, 2011
Fundamental Frequency:	848.80 MHz	Test By	Jason
Temperature:	25	Pol	Hor
Humidity:	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1697.6	--	--			--	74.00	54.00	H
2546.4	--	--			--	74.00	54.00	H
2982.5	36.15	--	0.38	36.53	--	74.00	54.00	-17.47 H
3395.2	--	--			--	74.00	54.00	H
4244.0	--	--			--	74.00	54.00	H
5092.8	--	--			--	74.00	54.00	H
5582.5	34.01	--	7.66	41.67	--	74.00	54.00	-12.33 H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: GPRS 1900 RX CH Low  
Fundamental Frequency: 1850.20 MHz  
Temperature: 25  
Humidity: 65 %

Test Date: Apr. 01, 2011  
Test By: Jason  
Pol: Ver.

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2787.5	36.33	--	-0.12	36.21	--	74.00	54.00	-17.79	V
3700.4	--	--			--	74.00	54.00		V
4848.0	34.03	--	6.10	40.13	--	74.00	54.00	-13.87	V
5550.6	--	--			--	74.00	54.00		V
7400.8	--	--			--	74.00	54.00		V
9251.0	--	--			--	74.00	54.00		V
11101.2	--	--			--	74.00	54.00		V

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: GPRS 1900 RX CH Low  
Fundamental Frequency: 1850.20 MHz  
Temperature: 25  
Humidity: 65 %

Test Date: Apr. 01, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2592.5	36.32	--	-0.60	35.72	--	74.00	54.00	-18.28	H
3700.4	--	--			--	74.00	54.00		H
4353.0	--	--			--	74.00	54.00		H
5550.6	--	--			--	74.00	54.00		H
7400.8	--	--			--	74.00	54.00		H
9251.0	--	--			--	74.00	54.00		H
11101.2	--	--			--	74.00	54.00		H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: GPRS 1900 RX CH Mid  
Fundamental Frequency: 1880.00 MHz  
Temperature: 25  
Humidity: 65 %

Test Date: Apr. 01, 2011  
Test By: Jason  
Pol: Ver.

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2963.0	37.04	--	0.29	37.33	--	74.00	54.00	-16.67	V
3760.0	--	--			--	74.00	54.00		V
5192.5	33.18	--	6.84	40.02	--	74.00	54.00	-13.98	V
5640.0	--	--			--	74.00	54.00		V
7520.0	--	--			--	74.00	54.00		V
9400.0	--	--			--	74.00	54.00		V
11280.0	--	--			--	74.00	54.00		V

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode:	GPRS 1900 RX CH Mid	Test Date	Apr. 01, 2011
Fundamental Frequency:	1880.00 MHz	Test By	Jason
Temperature:	25	Pol	Hor
Humidity:	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2787.5	36.05	--	-0.12	35.93	--	74.00	54.00	-18.07	H
3760.0	--	--			--	74.00	54.00		H
4757.0	33.62	--	5.92	39.54	--	74.00	54.00	-14.46	H
5640.0	--	--			--	74.00	54.00		H
7520.0	--	--			--	74.00	54.00		H
9400.0	--	--			--	74.00	54.00		H
11280.0	--	--			--	74.00	54.00		H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: GPRS 1900 RX CH High  
Fundamental Frequency: 1909.80 MHz  
Temperature: 25  
Humidity: 65 %

Test Date: Apr. 01, 2011  
Test By: Jason  
Pol: Ver.

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2950.0	36.51	--	0.26	36.77	--	74.00	54.00	-17.23	V
3819.6	--	--			--	74.00	54.00		V
4640.0	34.24	--	5.62	39.86	--	74.00	54.00	-14.14	V
5729.4	--	--			--	74.00	54.00		V
7639.2	--	--			--	74.00	54.00		V
9549.0	--	--			--	74.00	54.00		V
11458.8	--	--			--	74.00	54.00		V

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: GPRS 1900 RX CH High  
Fundamental Frequency: 1909.80 MHz  
Temperature: 25  
Humidity: 65 %

Test Date Apr. 01, 2011  
Test By Jason  
Pol Hor

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2963.0	36.14	--	0.29	36.43	--	74.00	54.00	-17.57	H
3819.6	--	--			--	74.00	54.00		H
4542.5	33.83	--	5.40	39.23	--	74.00	54.00	-14.77	H
5729.4	--	--			--	74.00	54.00		H
7639.2	--	--			--	74.00	54.00		H
9549.0	--	--			--	74.00	54.00		H
11458.8	--	--			--	74.00	54.00		H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: WCDMA II RX CH Low  
Fundamental Frequency: 1852.40 MHz  
Temperature: 25  
Humidity: 65 %

Test Date: Apr. 01, 2011  
Test By: Jason  
Pol: Ver.

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3028.0	36.49	--	0.52	37.01	--	74.00	54.00	-16.99	V
3704.8	--	--			--	74.00	54.00		V
4185.0	34.53	--	4.27	38.80	--	74.00	54.00	-15.20	V
5557.2	--	--			--	74.00	54.00		V
7409.6	--	--			--	74.00	54.00		V
9262.0	--	--			--	74.00	54.00		V
11114.4	--	--			--	74.00	54.00		V

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: WCDMA II RX CH Low  
Fundamental Frequency: 1852.40 MHz  
Temperature: 25  
Humidity: 65 %

Test Date: Apr. 01, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2787.5	36.38	--	-0.12	36.26	--	74.00	54.00	-17.74	H
3704.8	--	--			--	74.00	54.00		H
5303.0	34.58	--	7.07	41.65	--	74.00	54.00	-12.35	H
5557.2	--	--			--	74.00	54.00		H
7409.6	--	--			--	74.00	54.00		H
9262.0	--	--			--	74.00	54.00		H
11114.4	--	--			--	74.00	54.00		H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: WCDMA II RX CH Mid  
Fundamental Frequency: 1880.00 MHz  
Temperature: 25  
Humidity: 65 %

Test Date: Apr. 01, 2011  
Test By: Jason  
Pol: Ver.

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2963.0	37.04	--	0.29	37.33	--	74.00	54.00	-16.67	V
3760.0	--	--			--	74.00	54.00		V
4965.0	33.47	--	6.38	39.85	--	74.00	54.00	-14.15	V
5640.0	--	--			--	74.00	54.00		V
7520.0	--	--			--	74.00	54.00		V
9400.0	--	--			--	74.00	54.00		V
11280.0	--	--			--	74.00	54.00		V

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: WCDMA II RX CH Mid  
Fundamental Frequency: 1880.00 MHz  
Temperature: 25  
Humidity: 65 %

Test Date Apr. 01, 2011  
Test By Jason  
Pol Hor

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1793.0	36.86	--	-4.47	32.39	--	74.00	54.00	-21.61	H
3760.0	--	--			--	74.00	54.00		H
4588.0	34.82	--	5.50	40.32	--	74.00	54.00	-13.68	H
5640.0	--	--			--	74.00	54.00		H
7520.0	--	--			--	74.00	54.00		H
9400.0	--	--			--	74.00	54.00		H
11280.0	--	--			--	74.00	54.00		H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: WCDMA II RX CH High  
Fundamental Frequency: 1907.60 MHz  
Temperature: 25  
Humidity: 65 %

Test Date: Apr. 01, 2011  
Test By: Jason  
Pol: Ver.

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3613.0	35.30	--	2.47	37.77	--	74.00	54.00	-16.23	V
3815.2	--	--			--	74.00	54.00		V
4523.0	34.97	--	5.37	40.34	--	74.00	54.00	-13.66	V
5722.8	--	--			--	74.00	54.00		V
7630.4	--	--			--	74.00	54.00		V
9538.0	--	--			--	74.00	54.00		V
11445.6	--	--			--	74.00	54.00		V

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: WCDMA II RX CH High  
Fundamental Frequency: 1907.60 MHz  
Temperature: 25  
Humidity: 65 %

Test Date: Apr. 01, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
3567.5	35.93	--	2.28	38.21	--	74.00	54.00	-15.79	H
3815.2	--	--			--	74.00	54.00		H
5095.0	33.82	--	6.65	40.47	--	74.00	54.00	-13.53	H
5722.8	--	--			--	74.00	54.00		H
7630.4	--	--			--	74.00	54.00		H
9538.0	--	--			--	74.00	54.00		H
11445.6	--	--			--	74.00	54.00		H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: WCDMA V RX CH Low  
Fundamental Frequency: 836.40 MHz  
Temperature: 25  
Humidity: 65 %

Test Date: Apr. 01, 2011  
Test By: Jason  
Pol: Ver.

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1652.8	--	--			--	74.00	54.00	V
2479.2	--	--			--	74.00	54.00	V
3305.6	--	--			--	74.00	54.00	V
3327.0	34.80	--	1.51	36.31	--	74.00	54.00	-17.69 V
4132.0	--	--			--	74.00	54.00	V
4958.4	--	--			--	74.00	54.00	V
5732.0	33.62	--	8.05	41.67	--	74.00	54.00	-12.33 V

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: WCDMA V RX CH Low  
Fundamental Frequency: 826.40 MHz  
Temperature: 25  
Humidity: 65 %

Test Date: Apr. 01, 2011  
Test By: Jason  
Pol: Hor

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1652.8	--	--			--	74.00	54.00	H
2479.2	--	--			--	74.00	54.00	H
3145.0	35.56	--	0.88	36.44	--	74.00	54.00	-17.56 H
3305.6	--	--			--	74.00	54.00	H
4132.0	--	--			--	74.00	54.00	H
4497.0	35.50	--	5.32	40.82	--	74.00	54.00	-13.18 H
4958.4	--	--			--	74.00	54.00	H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: WCDMA V RX CH Mid  
Fundamental Frequency: 836.60 MHz  
Temperature: 25  
Humidity: 65 %

Test Date: Apr. 01, 2011  
Test By: Jason  
Pol: Ver.

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1673.2	--	--			--	74.00	54.00	V
2509.8	--	--			--	74.00	54.00	V
3346.4	--	--			--	74.00	54.00	V
3613.0	34.76	--	2.47	37.23	--	74.00	54.00	-16.77 V
4183.0	--	--			--	74.00	54.00	V
4672.0	33.44	--	5.71	39.15	--	74.00	54.00	-14.85 V
5019.6	--	--			--	74.00	54.00	V

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: WCDMA V RX CH Mid  
Fundamental Frequency: 836.60 MHz  
Temperature: 25  
Humidity: 65 %

Test Date Apr. 01, 2011  
Test By Jason  
Pol Hor

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1617.5	36.59	--	-5.37	31.22	--	74.00	54.00	-22.78	H
1673.2	--	--			--	74.00	54.00		H
2509.8	--	--			--	74.00	54.00		H
3346.4	--	--			--	74.00	54.00		H
4003.0	33.81	--	3.70	37.51	--	74.00	54.00	-16.49	H
4183.0	--	--			--	74.00	54.00		H
5019.6	--	--			--	74.00	54.00		H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: WCDMA V RX CH High  
Fundamental Frequency: 846.60 MHz  
Temperature: 25  
Humidity: 65 %

Test Date: Apr. 01, 2011  
Test By: Jason  
Pol: Ver.

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1693.2	--	--			--	74.00	54.00	V
2539.8	--	--			--	74.00	54.00	V
3145.0	35.37	--	0.88	36.25	--	74.00	54.00	-17.75 V
3386.4	--	--			--	74.00	54.00	V
4233.0	--	--			--	74.00	54.00	V
5079.6	--	--			--	74.00	54.00	V
5368.0	34.42	--	7.21	41.63	--	74.00	54.00	-12.37 V

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 40GHz, RBW= 3MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode: WCDMA V RX CH High  
Fundamental Frequency: 846.60 MHz  
Temperature: 25  
Humidity: 65 %

Test Date Apr. 01, 2011  
Test By Jason  
Pol Hor

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1693.2	--	--			--	74.00	54.00	H
2539.8	--	--			--	74.00	54.00	H
3386.4	--	--			--	74.00	54.00	H
3483.0	35.86	--	2.01	37.87	--	74.00	54.00	-16.13 H
4233.0	--	--			--	74.00	54.00	H
5079.6	--	--			--	74.00	54.00	H
5953.0	34.83	--	8.67	43.50	--	74.00	54.00	-10.50 H

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
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