

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT****INTENTIONAL RADIATOR CERTIFICATION TO  
FCC PART 22 SUBPART H, PART 24 SUBPART E  
CLASS II PC REPORT***For*

**Product Description:** HSPA + Module

**Marketing Name:** Aspire one 722, AO722

**Trade Name:** Acer

**Model Name of Host:** P1VE6

**Model Difference of Host:** N/A

**Model No. for WWAN Module:** EM820W

**FCC ID:** HLZEM820W

**Report No.:** EH/2011/60017

**Issue Date:** Jun. 21, 2011

**FCC Rule Part:** 2, 22H & 24E

**Prepared for:** Acer Incorporated  
8F,88, Sec. 1, Hsin Tai Wu Rd. Hsichih Taipei Hsien  
221

**Prepared by:** SGS Taiwan Ltd.  
Electronics & Communication Laboratory  
No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei  
County, Taiwan.

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## CERTIFICATION OF COMPLIANCE

**Applicant:** Acer Incorporated  
 8F,88, Sec. 1, Hsin Tai Wu Rd. Hsichih Taipei Hsien 221

**Product Description:** HSPA + Module

**Trade Name:** Acer

**Marketing Name:** Aspire one 722, AO722

**FCC ID:** HLZEM820W

**Model No of the host** P1VE6

**Model Difference of Host:** N/A

**Model No. for WWAN** EM820W

**Modular:**

**File Number:** EH/2011/60017




**Date of test:** Jun. 13, 2011 ~ Jun. 20, 2011

**Date of EUT Received:** Jun. 13, 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 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.

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

<b>Test By:</b>		<b>Date:</b>	Jun. 21, 2011
	_____ <i>Blue Yang / Engineer</i>		_____
<b>Prepared By:</b>		<b>Date:</b>	Jun. 21, 2011
	_____ <i>Gigi Yeh / Clerk</i>		_____
<b>Approved By:</b>		<b>Date:</b>	Jun. 21, 2011
	_____ <i>Jim Chang / Supervisor</i>		_____

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## Version

Version No.	Date	Description
00	Jun. 21, 2011	Initial creation of document

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# 1. GENERAL INFORMATION

## 1.1 Host Description

### General Information of Notebook

WWAN Module Name:	HSPA+ Module	
WWAN Module Model No.:	EM820W	
Host Name:	Notebook	
Brand Name:	Acer	
Model Name:	P1VE6	
Model Difference of Host:	N/A	
Power Supply:	11.1 Vdc re-chargeable battery or 19Vdc by AC/DC power adapter	
	Battery:	Model No.: AL10B31, Brand Name: Acer
	Adapter:	Model:IU40-11190-011S, Brand Name: LEADER ELECTRONICS INC.

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**GSM / WCDMA:**

Cellular Phone Standards Frequency Range:	GSM / GPRS 850, Class 10	824.2 MHz– 848.8 MHz
	EDGE 850, Class 10	824.2 MHz– 848.8 MHz
	GSM / GPRS 1900, Class 10	1850.2MHz – 1909.8MHz
	EDGE 1900, Class 10	1850.2MHz – 1909.8MHz
	WCDMA/HSUPA/HSDPA Band II	1852.4MHz – 1907.6MHz
	WCDMA/HSUPA/HSDPA Band V	826.4MHz - 846.6MHz
IMEI:	354283040030490	
Hardware Version for WWAN Modular:	MD1EM820WM	
Software Version for WWAN Modular:	11.810.09.50.00	
WWAN module FCC ID:	HLZEM820W	
Class II Permissive change:	HSPA+ Module (EM820W) card INSTALLED IN AN P1VE6 Notebook	
Type of Emission:	22H(GMSK): 824.2 - 848.8 MHz: 300KGXW 24E(GMSK): 1850.2 – 1909.8 MHz: 300KGXW 22H(8PSK): 824.2 - 848.8 MHz: 300KG7W 24E(8PSK): 1850.2 – 1909.8 MHz: 300KG7W 22H(WCDMA): 826.4 - 846.6 MHz: 4M20F9W 24E(WCDMA): 1852.4 – 1907.5 MHz: 4M20F9W	
Transmit power (Conducted Power) Listed in Test Report/Original Grant:	22H(GMSK): 824.2 - 848.8 MHz: 1.8W 24E(GMSK): 1850.2 – 1909.8 MHz: 0.79W 22H(8PSK): 824.2 - 848.8 MHz: 0.5W 24E(8PSK): 1850.2 – 1909.8 MHz: 0.36W 22H(WCDMA): 826.4 - 846.6 MHz: 0.19W 24E(WCDMA): 1852.4 – 1907.5 MHz: 0.22W	

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: HLZEM820W** filing to comply with Section Part 22 subpart H, Part 24 subpart E of the FCC CFR 47 Rules.

## 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

## 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 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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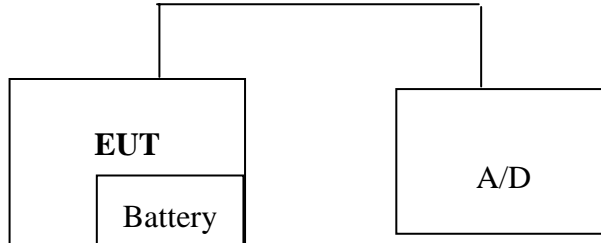
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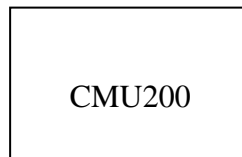


## 2.4 Configuration of Tested System

**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	Shielded	Un-shielded

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### 3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
24.232(C) 22.913(a)(2)	RF Power output / Maximum power reduction measurement	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c)	ERP/ EIRP measurement	Compliant
§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	Compliant

### 4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Set EUT power control “all up bits” 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 for both GPRS/EDGE 850 and 1900 ,WCDMA/HSUPA/HSDPA Band II, Band V bands were reported which has worst data.

The radiated spurious emission that employs GPRS and HSUPA yields the highest emission closed to the regulated limit, and only the outcome that generates the worst-case result are recorded on the corresponding section of measurement of the report.

	dBm		W
GPRS 850 Band	31.04	ERP	1.271
GPRS 1900 Band	28.11	EIRP	0.647
EDGE 850 Band	27.09	ERP	0.512
EDGE 1900 Band	27.91	EIRP	0.618
WCDMA Band II	24.09	EIRP	0.256
HSUPA Band II	24.59	EIRP	0.288
HSDPA Band II	23.80	EIRP	0.240
WCDMA Band V	22.13	ERP	0.163
HSUPA Band V	23.10	ERP	0.204
HSDPA Band V	23.08	ERP	0.203

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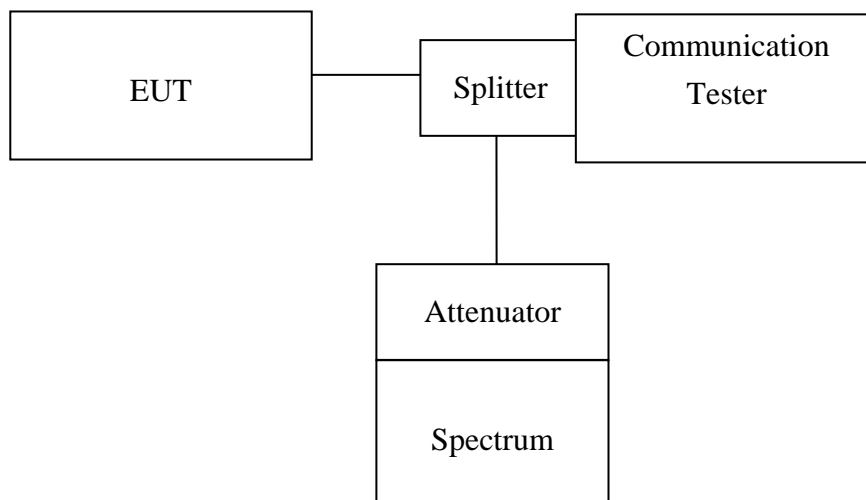
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## 5. RF POWER OUTPUT/ MAXIMUM POWER REDUCTION MEASUREMENT

### 5.1 Standard Applicable:

FCC 24.232(C) Peak Power Measurement, 22.913(a)(2)

### 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:

### 5.5.1 RF Conducted Output Power

#### 5.5.1.1.: GSM (GMSK)

#### Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Avg. Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Avg. Power (1DN 2UP) (dBm)
GPRS 850 (Class 10)	824.2	128	32.40	32.30	32.40	32.30
	836.6	190	32.20	32.10	32.20	32.10
	848.8	251	32.00	31.90	32.00	31.90

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Avg. Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Avg. Power (1DN 2UP) (dBm)
GPRS 1900 (Class 10)	1850.2	512	28.90	28.80	28.90	28.80
	1880.0	661	28.80	28.70	28.80	28.70
	1909.8	810	28.80	28.70	28.80	28.70

**Note: Offset 0.5 dB**

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EUT Mode	Frequency	CH	Peak Power (1DN 1UP)	Avg. Power (1DN 1UP)	Peak Power (1DN 2UP)	Avg. Power (1DN 2UP)
	(MHz)		(dBm)	(dBm)	(dBm)	(dBm)
EDGE 850 (Class 10)	824.2	128	30.70	27.00	30.70	27.00
	836.6	190	30.70	26.90	30.70	26.90
	848.8	251	30.60	26.40	30.60	26.40

EUT Mode	Frequency	CH	Peak Power (1DN 1UP)	Avg. Power (1DN 1UP)	Peak Power (1DN 2UP)	Avg. Power (1DN 2UP)
	(MHz)		(dBm)	(dBm)	(dBm)	(dBm)
EDGE 1900 (Class 10)	1850.2	512	28.70	25.40	28.70	25.40
	1880.0	661	28.60	25.30	28.60	25.30
	1909.8	810	28.70	25.40	28.70	25.40

**Note: Offset 0.5 dB**

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**5.5.1.2: WCDMA mode**

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1/-3). RMC 12.2kps is used for this testing.

**Results:**

B2	WCDMA		HSDPA		HSUPA	
	PK	AV	PK	AV	PK	AV
CH9262	26.27	23.36	26.00	23.35	26.01	23.03
CH9400	26.49	23.21	26.40	23.10	26.05	23.06
CH9538	25.85	22.83	25.60	22.76	25.43	22.70

B5	WCDMA		HSDPA		HSUPA	
	PK	AV	PK	AV	PK	AV
CH4132	26.66	22.57	26.44	22.47	26.14	22.40
CH4183	26.57	22.60	26.45	22.48	26.02	22.31
CH4233	26.71	22.77	26.60	22.65	26.15	22.47

Note: The results above reflect max power with all up bits.

**Note: Offset 0.5 dB**

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### 5.5.13: HSDPA Release 6 mode

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

### HSDPA SUB-TEST Setting

**Table C.10.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)**

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

**Note: The recommended HSDPA MPRs are implemented as per following sub-tests.**

### Results:

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limita- tion (dBm)	Comments
		Channel				
		9262	9400	9538		
HSDPA B2	1	23.53	23.10	22.69	20.3dBm – 25.7dBm	Pass
	2	23.24	23.07	22.68	20.3dBm – 25.7dBm	Pass
	3	23.05	22.65	22.16	19.8dBm – 25.7dBm	Pass
	4	23.12	22.66	22.28	19.8dBm – 25.7dBm	Pass

### Results:

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limita- tion (dBm)	Comments
		Channel				
		4132	4172	4233		
HSDPA B5	1	22.36	22.46	22.89	20.3dBm – 25.7dBm	Pass
	2	22.50	22.49	22.64	20.3dBm – 25.7dBm	Pass
	3	21.90	21.98	22.40	19.8dBm – 25.7dBm	Pass
	4	21.95	22.02	22.46	19.8dBm – 25.7dBm	Pass

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### 5.5.1.4: HSPA (HSDPA & HSUPA) Release 6 mode

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

### HSPA SUB-TEST Setting

**Table C.11.1.3:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)**

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$	$\beta_{ec}$	$\beta_{ed}$	$\beta_{ed}$ (SF)	$\beta_{ed}$ (Codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

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**Note: The recommended HSUPA are implemented as per following sub-tests.**

**Results:**

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		Channel				
		9262	9400	9538		
<b>HSUPA B2</b>	<b>1</b>	23.28	23.19	22.77	17.3dBm – 25.7dBm	<b>Pass</b>
	<b>2</b>	21.33	21.26	20.81	16.8dBm – 25.7dBm	<b>Pass</b>
	<b>3</b>	22.34	22.21	21.85	17.8dBm – 25.7dBm	<b>Pass</b>
	<b>4</b>	21.46	21.31	20.85	16.8dBm – 25.7dBm	<b>Pass</b>
	<b>5</b>	23.17	23.05	22.68	17.3dBm – 25.7dBm	<b>Pass</b>

**Results:**

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		Channel				
		4132	4172	4233		
<b>HSUPA B5</b>	<b>1</b>	22.53	22.53	22.69	17.3dBm – 25.7dBm	<b>Pass</b>
	<b>2</b>	20.59	20.61	20.73	16.8dBm – 25.7dBm	<b>Pass</b>
	<b>3</b>	21.57	21.59	21.77	17.8dBm – 25.7dBm	<b>Pass</b>
	<b>4</b>	20.64	20.67	20.81	16.8dBm – 25.7dBm	<b>Pass</b>
	<b>5</b>	22.39	22.36	22.58	17.3dBm – 25.7dBm	<b>Pass</b>

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**5.5.2 Maximum Power Reduction: PCS1900 band**

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	28.7	26.7	24.6	22.6	20.6	18.6	16.5	14.5	12.5
PCL	9	10	11	12	13	14	15		
Output power (dBm)	10.5	8.5	6.5	4.5	2.5	0.5	-0.9		

Note: The EUT output power was controlled by simulator. Set Communication Tester CMU200 PCL as above, and get the mobile phone output power reading.

**WCDMA/HSDPA band II / V**

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. then record the read(see page 19 for measurement data) . The min. power was measures by a function key “minimum power” then record the read. It is -52.5dBm. The power variation can be 0.1dB step by setting.

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## 6. ERP/EIRP MEASUREMENT

### 6.1 Standard Applicable

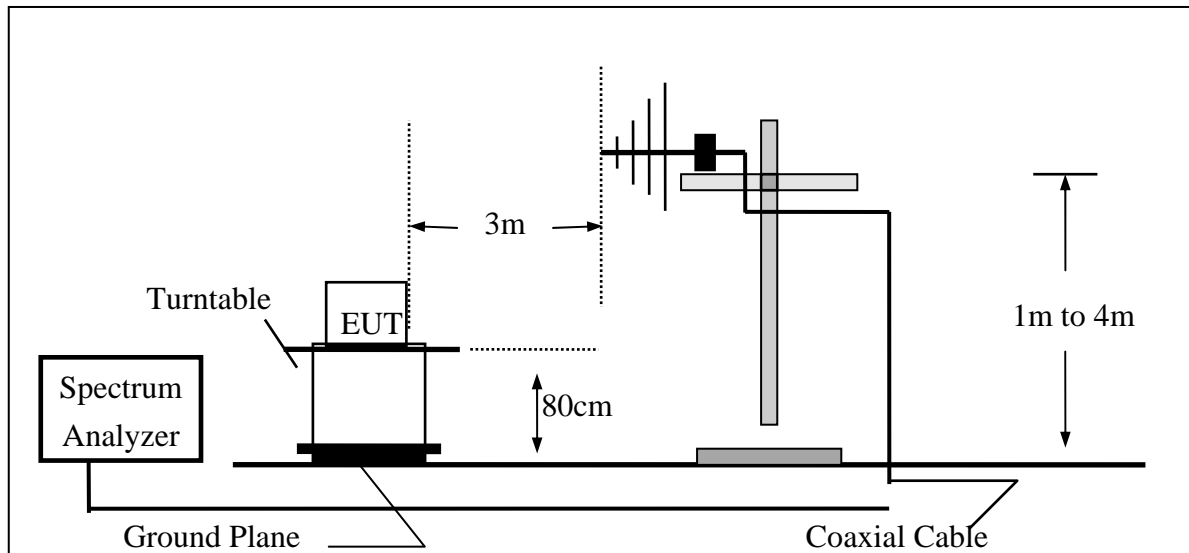
According to FCC §2.1046

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

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

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

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

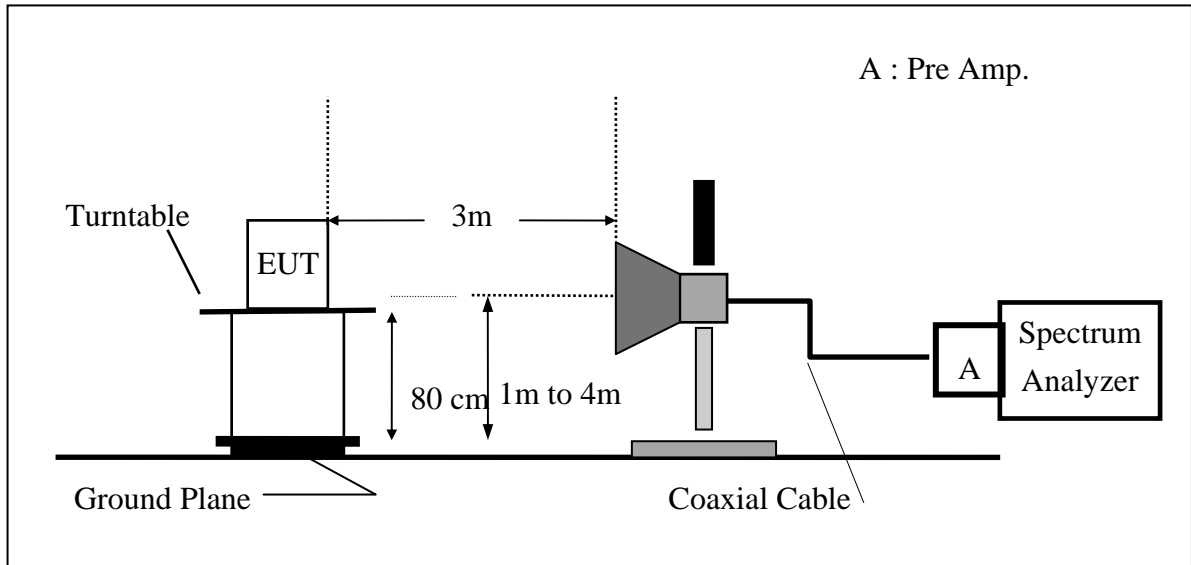


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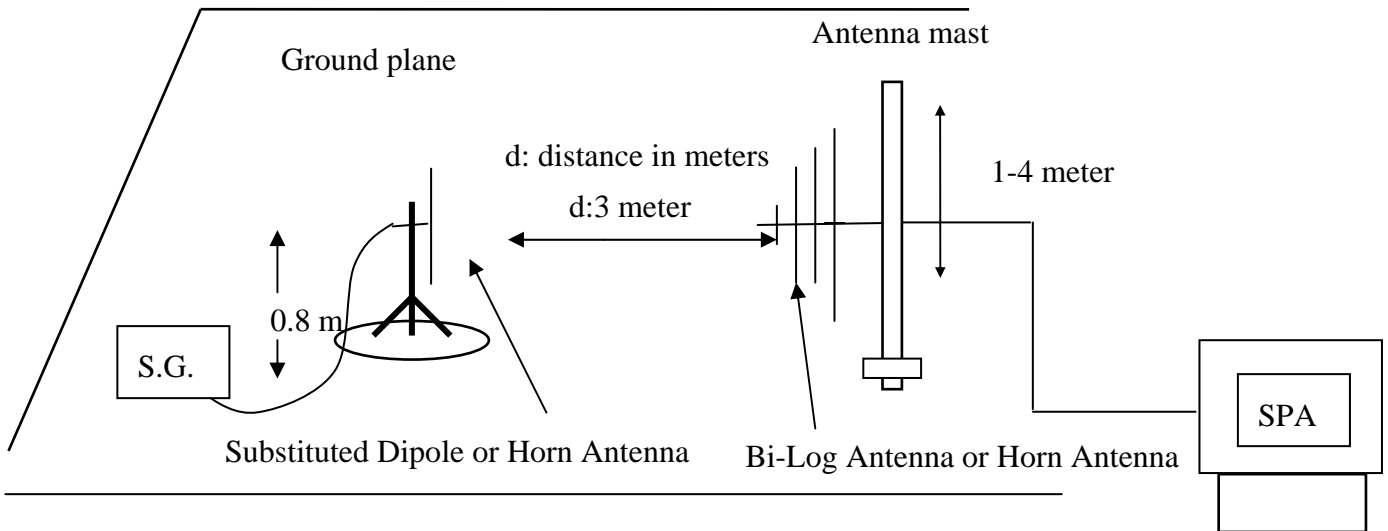
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(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 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 –848.80MHz 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:

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

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

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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	3136	11/19/2010	11/18/2011
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/17/2010	07/16/2012
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/17/2010	07/16/2012
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	03/09/2011	03/08/2012
Signal Generator	R&S	SMR40	100210	02/10/2010	02/09/2012
Signal Generator	Agilent	E4438C	MY45093613	07/08/2010	07/07/2011
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2010	11/27/2011
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	111787	10/31/2010	10/30/2012
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

### 6.5 Measurement Result

Refer to following pages for detail.

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**Measurement Result:**

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)
GPRS 850	824.20	128	E2	V	125.33	38.94	-7.87	3.62	27.44	38.45
				H	128.81	42.54	-7.87	3.62	<b>31.04</b>	38.45
	836.60	190	E2	V	125.45	39.20	-7.88	3.65	27.67	38.45
				H	128.58	42.35	-7.88	3.65	30.82	38.45
	848.80	251	E2	V	126.12	40.00	-7.88	3.68	28.44	38.45
				H	128.41	42.22	-7.88	3.68	30.66	38.45

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
GPRS 1900	1850.20	512	E2	V	125.29	20.90	9.90	5.56	25.24	33.00
				H	127.40	23.22	9.90	5.84	27.28	33.00
	1880.00	661	E2	V	125.55	21.19	9.99	5.61	25.57	33.00
				H	127.88	23.74	9.99	5.61	<b>28.11</b>	33.00
	1909.80	810	E2	V	126.21	21.88	10.08	5.66	26.30	33.00
				H	127.74	23.63	10.08	5.66	28.05	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)
EDGE 850	824.20	128	E2	V	123.40	37.01	-7.87	3.62	25.51	38.45
				H	124.86	38.59	-7.87	3.62	<b>27.09</b>	38.45
	836.60	190	E2	V	123.59	37.34	-7.88	3.65	25.81	38.45
				H	124.67	38.44	-7.88	3.65	26.91	38.45
	848.80	251	E2	V	124.14	38.02	-7.88	3.68	26.46	38.45
				H	124.36	38.17	-7.88	3.68	26.61	38.45

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
EDGE 1900	1850.20	512	E2	V	125.22	20.83	9.90	5.56	25.17	33.00
				H	127.29	23.11	9.90	5.84	27.17	33.00
	1880.00	661	E2	V	125.36	21.00	9.99	5.61	25.38	33.00
				H	127.68	23.54	9.99	5.61	<b>27.91</b>	33.00
	1909.80	810	E2	V	123.01	18.68	10.08	5.66	23.10	33.00
				H	126.43	22.32	10.08	5.66	26.74	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)	EIRP (dBm)	Limit (dBm)
WCDMA II	1852.40	9262	E2	V	120.46	16.08	9.90	5.56	20.41	33.00
				H	122.76	18.58	9.90	5.84	22.64	33.00
	1880.00	9400	E2	V	121.13	16.77	9.99	5.61	21.15	33.00
				H	123.55	19.41	9.99	5.61	23.78	33.00
	1907.60	9538	E2	V	121.66	17.33	10.07	5.66	21.74	33.00
				H	123.79	19.68	10.07	5.66	<b>24.09</b>	33.00

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	E2	V	118.72	32.36	-7.88	3.63	20.85	38.45
				H	119.25	32.99	-7.88	3.63	21.49	38.45
	836.60	4183	E2	V	119.15	32.90	-7.88	3.65	21.37	38.45
				H	119.50	33.27	-7.88	3.65	21.74	38.45
	846.60	4233	E2	V	119.79	33.64	-7.88	3.67	22.09	38.45
				H	119.88	33.68	-7.88	3.67	<b>22.13</b>	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
 RBW= 5MHz , VBW= 8MHz

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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)	EIRP (dBm)	Limit (dBm)
HSUPA Band II	1852.40	9262	E2	V	121.01	16.63	9.90	5.56	20.96	33.00
				H	123.21	19.03	9.90	5.84	23.09	33.00
	1880.00	9400	E2	V	121.31	16.95	9.99	5.61	21.33	33.00
				H	123.69	19.55	9.99	5.61	23.92	33.00
	1907.60	9538	E2	V	122.05	17.72	10.07	5.66	22.13	33.00
				H	124.29	20.18	10.07	5.66	<b>24.59</b>	33.00

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 Band V	826.40	4132	E2	V	119.34	32.98	-7.88	3.63	21.47	38.45
				H	120.75	34.49	-7.88	3.63	22.99	38.45
	836.60	4183	E2	V	120.30	34.05	-7.88	3.65	22.52	38.45
				H	120.71	34.48	-7.88	3.65	22.95	38.45
	846.60	4233	E2	V	120.72	34.57	-7.88	3.67	23.02	38.45
				H	120.85	34.65	-7.88	3.67	<b>23.10</b>	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
RBW= 5MHz , VBW= 8MHz

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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)	EIRP (dBm)	Limit (dBm)
HSDPA Band II	1852.40	9262	E2	V	119.00	14.62	9.90	5.56	18.95	33.00
				H	121.64	17.46	9.90	5.84	21.52	33.00
	1880.00	9400	E2	V	119.97	15.61	9.99	5.61	19.99	33.00
				H	122.50	18.36	9.99	5.61	22.73	33.00
	1907.60	9538	E2	V	121.10	16.77	10.07	5.66	21.18	33.00
				H	123.50	19.39	10.07	5.66	<b>23.80</b>	33.00

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)
HSDPA Band V	826.40	4132	E2	V	119.94	33.58	-7.88	3.63	22.07	38.45
				H	120.70	34.44	-7.88	3.63	22.94	38.45
	836.60	4183	E2	V	120.34	34.09	-7.88	3.65	22.56	38.45
				H	120.41	34.18	-7.88	3.65	22.65	38.45
	846.60	4233	E2	V	120.78	34.63	-7.88	3.67	<b>23.08</b>	38.45
				H	120.81	34.61	-7.88	3.67	23.06	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency  
 RBW= 5MHz , VBW= 8MHz

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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)

### 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.

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

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

The setting of the measurement spectrum is set as follows: Detector = Peak, RBW/VBW = 100K for below 1GHz, and RBW/VBW = 1MHz for above 1GHz.

### 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:	Jun, 16, 2011
Fundamental Frequency	: 824.20 MHz	Test By:	Blue
Temperature	: 25°C	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)
196.84	47.04	V	-54.46	-7.84	1.70	-64.00	-13.00	-51.00
243.40	44.95	V	-55.19	-7.88	1.95	-65.03	-13.00	-52.03
328.76	43.57	V	-54.32	-7.76	2.28	-64.36	-13.00	-51.36
483.96	39.87	V	-54.20	-7.71	2.76	-64.67	-13.00	-51.67
612.00	34.50	V	-54.91	-7.79	3.06	-65.77	-13.00	-52.77
922.40	33.47	V	-51.22	-7.97	3.83	-63.02	-13.00	-50.02
1650.00	43.29	V	-61.29	9.29	5.23	-57.23	-13.00	-44.23
2007.50	41.62	V	-62.57	10.35	5.82	-58.04	-13.00	-45.04
2472.60	38.72	V	-62.29	10.08	6.53	-58.74	-13.00	-45.74
3296.80	---	V		12.17	7.71		-13.00	
4121.00	---	V		12.61	8.86		-13.00	
4945.20	---	V		12.65	9.74		-13.00	
5769.40	---	V		13.55	10.54		-13.00	
6593.60	---	V		12.05	11.30		-13.00	
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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**Radiated Spurious Emission Measurement Result: GPRS 850 Mode**

Operation Mode	: TX CH Low Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 824.20 MHz	Test By:	Blue
Temperature	: 25°C	Pol:	Hor
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)
196.84	48.55	H	-52.85	-7.84	1.70	-62.39	-13.00	-49.39
241.46	42.73	H	-56.91	-7.88	1.94	-66.73	-13.00	-53.73
328.76	45.82	H	-51.58	-7.76	2.28	-61.61	-13.00	-48.61
458.74	38.42	H	-55.39	-7.70	2.68	-65.78	-13.00	-52.78
697.36	34.09	H	-53.65	-7.86	3.28	-64.79	-13.00	-51.79
988.36	33.58	H	-50.40	-7.99	4.00	-62.39	-13.00	-49.39
1644.00	46.17	H	-58.24	9.27	5.22	-54.18	-13.00	-41.18
2463.00	40.44	H	-60.53	10.08	6.51	-56.97	-13.00	-43.97
3289.00	---	H		12.15	7.70		-13.00	
4121.00	---	H		12.61	8.86		-13.00	
4945.20	---	H		12.65	9.74		-13.00	
5769.40	---	H		13.55	10.54		-13.00	
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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**Radiated Spurious Emission Measurement Result: GPRS 850 Mode**

Operation Mode	: TX CH Mid Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 836.60 MHz	Test By:	Blue
Temperature	: 25°C	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)
196.84	46.44	V	-55.06	-7.84	1.70	-64.60	-13.00	-51.60
243.40	45.31	V	-54.83	-7.88	1.95	-64.67	-13.00	-51.67
328.76	44.27	V	-53.62	-7.76	2.28	-63.66	-13.00	-50.66
483.96	40.41	V	-53.66	-7.71	2.76	-64.13	-13.00	-51.13
687.66	33.55	V	-55.76	-7.85	3.26	-66.87	-13.00	-53.87
920.46	33.88	V	-50.82	-7.97	3.83	-62.61	-13.00	-49.61
1679.00	40.80	V	-63.75	9.38	5.28	-59.65	-13.00	-46.65
2007.50	42.85	V	-61.34	10.35	5.82	-56.81	-13.00	-43.81
2498.00	39.88	V	-60.95	10.06	6.57	-57.46	-13.00	-44.46
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 - 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 850 Mode**

Operation Mode	: TX CH Mid Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 836.60 MHz	Test By:	Blue
Temperature	: 25°C	Pol:	Hor
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)
196.84	48.42	H	-52.98	-7.84	1.70	-62.52	-13.00	-49.52
241.46	42.13	H	-57.51	-7.88	1.94	-67.33	-13.00	-54.33
328.76	45.29	H	-52.11	-7.76	2.28	-62.14	-13.00	-49.14
458.74	37.61	H	-56.20	-7.70	2.68	-66.59	-13.00	-53.59
689.60	33.41	H	-54.65	-7.85	3.26	-65.77	-13.00	-52.77
927.25	33.56	H	-50.94	-7.98	3.84	-62.76	-13.00	-49.76
1679.00	46.47	H	-57.90	9.38	5.28	-53.80	-13.00	-40.80
2498.00	40.83	H	-59.91	10.06	6.57	-56.42	-13.00	-43.42
3346.40	---	H		12.28	7.79		-13.00	
4183.00	---	H		12.62	8.93		-13.00	
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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**Radiated Spurious Emission Measurement Result: GPRS 850 Mode**

Operation Mode	: TX CH High Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 848.80 MHz	Test By:	Blue
Temperature	: 25°C	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)
196.84	45.52	V	-55.98	-7.84	1.70	-65.52	-13.00	-52.52
243.40	45.06	V	-55.08	-7.88	1.95	-64.92	-13.00	-51.92
328.76	44.16	V	-53.73	-7.76	2.28	-63.77	-13.00	-50.77
483.96	40.57	V	-53.50	-7.71	2.76	-63.97	-13.00	-50.97
534.40	36.76	V	-56.24	-7.75	2.91	-66.90	-13.00	-53.90
922.40	33.29	V	-51.40	-7.97	3.83	-63.20	-13.00	-50.20
1693.00	43.12	V	-61.42	9.42	5.30	-57.30	-13.00	-44.30
2007.50	43.42	V	-60.77	10.35	5.82	-56.24	-13.00	-43.24
2533.00	41.43	V	-59.27	10.16	6.61	-55.72	-13.00	-42.72
3395.20	---	V		12.38	7.87		-13.00	
4244.00	---	V		12.63	9.00		-13.00	
5092.80	---	V		12.74	9.88		-13.00	
5941.60	---	V		13.81	10.70		-13.00	
6790.40	---	V		11.86	11.48		-13.00	
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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**Radiated Spurious Emission Measurement Result: GPRS 850 Mode**

Operation Mode	: TX CH High Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 848.80 MHz	Test By:	Blue
Temperature	: 25°C	Pol:	Hor
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)
196.84	47.86	H	-53.54	-7.84	1.70	-63.08	-13.00	-50.08
243.40	41.98	H	-57.56	-7.88	1.95	-67.40	-13.00	-54.40
328.76	45.48	H	-51.92	-7.76	2.28	-61.95	-13.00	-48.95
461.65	38.04	H	-55.75	-7.70	2.69	-66.14	-13.00	-53.14
679.90	34.23	H	-54.24	-7.84	3.24	-65.32	-13.00	-52.32
917.55	34.49	H	-50.14	-7.97	3.82	-61.92	-13.00	-48.92
1693.00	46.51	H	-57.84	9.42	5.30	-53.72	-13.00	-40.72
2533.00	43.76	H	-56.88	10.16	6.61	-53.33	-13.00	-40.33
3395.20	---	H		12.38	7.87		-13.00	
4244.00	---	H		12.63	9.00		-13.00	
5092.80	---	H		12.74	9.88		-13.00	
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:	Jun, 16, 2011
Fundamental Frequency	: 1850.20MHz	Test By:	Blue
Temperature	: 25°C	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)
196.84	45.90	V	-55.60	-7.84	1.70	-65.14	-13.00	-52.14
241.46	43.18	V	-57.03	-7.88	1.94	-66.86	-13.00	-53.86
328.76	44.42	V	-53.47	-7.76	2.28	-63.51	-13.00	-50.51
485.90	40.97	V	-53.11	-7.71	2.76	-63.59	-13.00	-50.59
500.45	37.89	V	-56.24	-7.72	2.80	-66.76	-13.00	-53.76
972.84	32.37	V	-51.72	-8.00	3.95	-63.67	-13.00	-50.67
3700.40	---	V		12.61	8.31		-13.00	
5550.60	---	V		13.23	10.33		-13.00	
6005.00	35.92	V	-53.56	13.88	10.76	-50.45	-13.00	-37.45
7400.80	---	V		11.50	12.08		-13.00	
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  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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

Operation Mode	: TX CH Low Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 1850.20MHz	Test By:	Blue
Temperature	: 25°C	Pol:	Hor
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)
199.75	47.76	H	-53.87	-7.84	1.71	-63.42	-13.00	-50.42
241.46	42.11	H	-57.53	-7.88	1.94	-67.35	-13.00	-54.35
328.76	45.71	H	-51.69	-7.76	2.28	-61.72	-13.00	-48.72
487.84	38.30	H	-55.26	-7.72	2.77	-65.74	-13.00	-52.74
658.56	34.87	H	-54.49	-7.82	3.18	-65.49	-13.00	-52.49
966.05	32.34	H	-51.77	-8.00	3.93	-63.70	-13.00	-50.70
3700.40	35.64	H	-62.40	12.61	8.31	-58.10	-13.00	-45.10
5550.60	---	H		13.23	10.33		-13.00	
7400.80	---	H		11.50	12.08		-13.00	
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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**Radiated Spurious Emission Measurement Result: GPRS 1900 Mode**

Operation Mode	: TX CH Mid Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 1880MHz	Test By:	Blue
Temperature	: 25°C	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)
196.84	46.06	V	-55.44	-7.84	1.70	-64.98	-13.00	-51.98
243.40	43.31	V	-56.83	-7.88	1.95	-66.67	-13.00	-53.67
328.76	44.49	V	-53.40	-7.76	2.28	-63.44	-13.00	-50.44
483.96	41.11	V	-52.96	-7.71	2.76	-63.43	-13.00	-50.43
658.56	34.56	V	-54.45	-7.82	3.18	-65.45	-13.00	-52.45
968.96	32.03	V	-52.15	-8.00	3.94	-64.09	-13.00	-51.09
3760.00	---	V		12.60	8.39		-13.00	
5640.00	36.73	V	-53.85	13.36	10.41	-50.90	-13.00	-37.90
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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**Radiated Spurious Emission Measurement Result: GPRS 1900 Mode**

Operation Mode	: TX CH Mid Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 1880MHz	Test By:	Blue
Temperature	: 25°C	Pol:	Hor
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)
196.84	47.96	H	-53.44	-7.84	1.70	-62.98	-13.00	-49.98
241.46	42.75	H	-56.89	-7.88	1.94	-66.71	-13.00	-53.71
328.76	45.34	H	-52.06	-7.76	2.28	-62.09	-13.00	-49.09
461.65	38.82	H	-54.97	-7.70	2.69	-65.36	-13.00	-52.36
658.56	34.53	H	-54.83	-7.82	3.18	-65.83	-13.00	-52.83
972.84	32.51	H	-51.56	-8.00	3.95	-63.51	-13.00	-50.51
3760.00	35.70	H	-62.07	12.60	8.39	-57.86	-13.00	-44.86
5640.00	---	H		13.36	10.41		-13.00	
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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**Radiated Spurious Emission Measurement Result: GPRS 1900 Mode**

Operation Mode	: TX CH High Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 1909.8 MHz	Test By:	Blue
Temperature	: 25°C	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)
196.84	46.10	V	-55.40	-7.84	1.70	-64.94	-13.00	-51.94
241.46	43.48	V	-56.73	-7.88	1.94	-66.56	-13.00	-53.56
328.76	43.91	V	-53.98	-7.76	2.28	-64.02	-13.00	-51.02
485.90	40.59	V	-53.49	-7.71	2.76	-63.97	-13.00	-50.97
655.65	34.64	V	-54.34	-7.82	3.17	-65.33	-13.00	-52.33
961.20	32.98	V	-51.38	-8.00	3.91	-63.29	-13.00	-50.29
3819.60	---	V		12.60	8.47		-13.00	
5729.40	35.78	V	-54.54	13.49	10.50	-51.54	-13.00	-38.54
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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**Radiated Spurious Emission Measurement Result: GPRS 1900 Mode**

Operation Mode	: TX CH High Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 1909.8 MHz	Test By:	Blue
Temperature	: 25°C	Pol:	Hor
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)
196.84	47.52	H	-53.88	-7.84	1.70	-63.42	-13.00	-50.42
241.46	42.75	H	-56.89	-7.88	1.94	-66.71	-13.00	-53.71
328.76	45.18	H	-52.22	-7.76	2.28	-62.25	-13.00	-49.25
483.96	37.89	H	-55.70	-7.71	2.76	-66.17	-13.00	-53.17
658.56	35.96	H	-53.40	-7.82	3.18	-64.40	-13.00	-51.40
932.10	32.76	H	-51.68	-7.98	3.85	-63.51	-13.00	-50.51
2963.00	37.24	H	-62.18	11.41	7.20	-57.96	-13.00	-44.96
3819.60	---	H		12.60	8.47		-13.00	
5729.40	---	H		13.49	10.50		-13.00	
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

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**Radiated Spurious Emission Measurement Result: HSUPA B2 Mode**

Operation Mode	: TX CH Low Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 1852.4 MHz	Test By:	Blue
Temperature	: 25°C	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)
196.84	45.22	V	-56.28	-7.84	1.70	-65.82	-13.00	-52.82
243.40	43.72	V	-56.42	-7.88	1.95	-66.26	-13.00	-53.26
328.76	44.92	V	-52.97	-7.76	2.28	-63.01	-13.00	-50.01
487.84	41.08	V	-53.01	-7.72	2.77	-63.49	-13.00	-50.49
658.56	35.37	V	-53.64	-7.82	3.18	-64.64	-13.00	-51.64
956.35	33.39	V	-51.08	-8.00	3.90	-62.98	-13.00	-49.98
3704.80	46.51	V	-51.40	12.61	8.31	-47.11	-13.00	-34.11
5557.20	---	V		13.24	10.33		-13.00	
7409.60	---	V		11.49	12.09		-13.00	
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 - 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: HSUPA B2 Mode**

Operation Mode	: TX CH Low Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 1852.4 MHz	Test By:	Blue
Temperature	: 25°C	Pol:	Hor
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)
196.84	47.21	H	-54.19	-7.84	1.70	-63.73	-13.00	-50.73
241.46	40.86	H	-58.78	-7.88	1.94	-68.60	-13.00	-55.60
328.76	46.24	H	-51.16	-7.76	2.28	-61.19	-13.00	-48.19
458.74	38.18	H	-55.63	-7.70	2.68	-66.02	-13.00	-53.02
658.56	34.43	H	-54.93	-7.82	3.18	-65.93	-13.00	-52.93
970.90	32.69	H	-51.39	-8.00	3.94	-63.33	-13.00	-50.33
1850.00	---	H		9.90	5.56		-13.00	
3704.80	47.23	H	-50.79	12.61	8.31	-46.50	-13.00	-33.50
5557.20	---	H		13.24	10.33		-13.00	
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 - 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: HSUPA B2 Mode**

Operation Mode	: TX CH Mid Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 1880.0 MHz	Test By:	Blue
Temperature	: 25°C	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)
196.84	44.97	V	-56.53	-7.84	1.70	-66.07	-13.00	-53.07
241.46	43.61	V	-56.60	-7.88	1.94	-66.43	-13.00	-53.43
328.76	45.49	V	-52.40	-7.76	2.28	-62.44	-13.00	-49.44
483.96	41.21	V	-52.86	-7.71	2.76	-63.33	-13.00	-50.33
534.40	37.76	V	-55.24	-7.75	2.91	-65.90	-13.00	-52.90
975.75	32.36	V	-51.67	-7.99	3.96	-63.62	-13.00	-50.62
3760.00	44.09	V	-53.57	12.60	8.39	-49.35	-13.00	-36.35
5640.00	---	V		13.36	10.41		-13.00	
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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**Radiated Spurious Emission Measurement Result: HSUPA B2 Mode**

Operation Mode	: TX CH Mid Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 1880.0 MHz	Test By:	Blue
Temperature	: 25°C	Pol:	Hor
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)
196.84	47.58	H	-53.82	-7.84	1.70	-63.36	-13.00	-50.36
241.46	40.57	H	-59.07	-7.88	1.94	-68.89	-13.00	-55.89
328.76	45.45	H	-51.95	-7.76	2.28	-61.98	-13.00	-48.98
487.84	37.52	H	-56.04	-7.72	2.77	-66.52	-13.00	-53.52
658.56	34.52	H	-54.84	-7.82	3.18	-65.84	-13.00	-52.84
972.84	32.55	H	-51.52	-8.00	3.95	-63.47	-13.00	-50.47
3760.00	44.04	H	-53.73	12.60	8.39	-49.52	-13.00	-36.52
5640.00	---	H		13.36	10.41		-13.00	
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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**Radiated Spurious Emission Measurement Result: HSUPA B2 Mode**

Operation Mode	: TX CH High Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 1907.6 MHz	Test By:	Blue
Temperature	: 25°C	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)
196.84	45.99	V	-55.51	-7.84	1.70	-65.05	-13.00	-52.05
241.46	43.58	V	-56.63	-7.88	1.94	-66.46	-13.00	-53.46
330.70	43.87	V	-54.00	-7.75	2.29	-64.03	-13.00	-51.03
483.96	40.81	V	-53.26	-7.71	2.76	-63.73	-13.00	-50.73
558.65	36.22	V	-55.76	-7.77	2.97	-66.50	-13.00	-53.50
972.84	32.42	V	-51.67	-8.00	3.95	-63.62	-13.00	-50.62
3815.20	45.57	V	-51.84	12.60	8.46	-47.70	-13.00	-34.70
5722.80	---	V		13.48	10.49		-13.00	
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 - 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: HSUPA B2 Mode**

Operation Mode	: TX CH High Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 1907.6 MHz	Test By:	Blue
Temperature	: 25°C	Pol:	Hor
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)
196.84	48.28	H	-53.12	-7.84	1.70	-62.66	-13.00	-49.66
241.46	42.45	H	-57.19	-7.88	1.94	-67.01	-13.00	-54.01
328.76	45.39	H	-52.01	-7.76	2.28	-62.04	-13.00	-49.04
483.96	38.14	H	-55.45	-7.71	2.76	-65.92	-13.00	-52.92
652.74	33.91	H	-55.70	-7.81	3.17	-66.68	-13.00	-53.68
963.14	32.63	H	-51.50	-8.00	3.92	-63.42	-13.00	-50.42
3815.20	48.87	H	-48.66	12.60	8.46	-44.52	-13.00	-31.52
5722.80	---	H		13.48	10.49		-13.00	
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 - 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: HSUPA B5 Mode**

Operation Mode	: TX CH Low Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 826.40MHz	Test By:	Blue
Temperature	: 25°C	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)
196.84	45.49	V	-56.01	-7.84	1.70	-65.55	-13.00	-52.55
243.40	43.49	V	-56.65	-7.88	1.95	-66.49	-13.00	-53.49
328.76	44.23	V	-53.66	-7.76	2.28	-63.70	-13.00	-50.70
483.96	40.16	V	-53.91	-7.71	2.76	-64.38	-13.00	-51.38
553.80	37.22	V	-55.05	-7.76	2.97	-65.78	-13.00	-52.78
956.35	33.94	V	-50.53	-8.00	3.90	-62.43	-13.00	-49.43
1652.80	40.36	V	-64.22	9.30	5.23	-60.15	-13.00	-47.15
2007.50	40.62	V	-63.57	10.35	5.82	-59.04	-13.00	-46.04
2479.20	---	V		10.07	6.54		-13.00	
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 - 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: HSUPA B5 Mode**

Operation Mode	: TX CH Low Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 826.40MHz	Test By:	Blue
Temperature	: 25°C	Pol:	Hor
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)
196.84	47.25	H	-54.15	-7.84	1.70	-63.69	-13.00	-50.69
241.46	40.67	H	-58.97	-7.88	1.94	-68.79	-13.00	-55.79
328.76	44.47	H	-52.93	-7.76	2.28	-62.96	-13.00	-49.96
461.65	38.15	H	-55.64	-7.70	2.69	-66.03	-13.00	-53.03
672.14	33.55	H	-55.24	-7.83	3.22	-66.29	-13.00	-53.29
972.84	33.49	H	-50.58	-8.00	3.95	-62.53	-13.00	-49.53
1652.80	45.42	H	-58.98	9.30	5.23	-54.91	-13.00	-41.91
2479.20	---	H		10.07	6.54		-13.00	
3305.60	37.95	H	-61.14	12.19	7.73	-56.68	-13.00	-43.68
4132.00	---	H		12.62	8.87		-13.00	
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 - 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: HSUPA B5 Mode**

Operation Mode	: TX CH Mid Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 836.60MHz	Test By:	Blue
Temperature	: 25°C	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)
196.84	44.97	V	-56.53	-7.84	1.70	-66.07	-13.00	-53.07
243.40	44.34	V	-55.80	-7.88	1.95	-65.64	-13.00	-52.64
328.76	45.08	V	-52.81	-7.76	2.28	-62.85	-13.00	-49.85
487.84	40.49	V	-53.60	-7.72	2.77	-64.08	-13.00	-51.08
689.60	34.29	V	-55.04	-7.85	3.26	-66.15	-13.00	-53.15
949.56	33.42	V	-51.20	-8.00	3.88	-63.08	-13.00	-50.08
1673.20	41.85	V	-62.71	9.36	5.27	-58.61	-13.00	-45.61
2509.80	---	V		10.09	6.58		-13.00	
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 - 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: HSUPA B5 Mode**

Operation Mode	: TX CH Mid Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 836.60MHz	Test By:	Blue
Temperature	: 25°C	Pol:	Hor
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)
196.84	47.44	H	-53.96	-7.84	1.70	-63.50	-13.00	-50.50
243.40	40.60	H	-58.94	-7.88	1.95	-68.78	-13.00	-55.78
328.76	44.76	H	-52.64	-7.76	2.28	-62.67	-13.00	-49.67
458.74	38.76	H	-55.05	-7.70	2.68	-65.44	-13.00	-52.44
689.60	33.87	H	-54.19	-7.85	3.26	-65.31	-13.00	-52.31
920.46	33.52	H	-51.07	-7.97	3.83	-62.87	-13.00	-49.87
1673.20	38.52	H	-65.86	9.36	5.27	-61.76	-13.00	-48.76
2509.80	---	H		10.09	6.58		-13.00	
3346.40	---	H		12.28	7.79		-13.00	
4183.00	---	H		12.62	8.93		-13.00	
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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**Radiated Spurious Emission Measurement Result: HSUPA B5 Mode**

Operation Mode	: TX CH High Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 846.60 MHz	Test By:	Blue
Temperature	: 25°C	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)
196.84	44.62	V	-56.88	-7.84	1.70	-66.42	-13.00	-53.42
243.40	44.03	V	-56.11	-7.88	1.95	-65.95	-13.00	-52.95
328.76	44.82	V	-53.07	-7.76	2.28	-63.11	-13.00	-50.11
487.84	40.62	V	-53.47	-7.72	2.77	-63.95	-13.00	-50.95
677.96	34.10	V	-55.11	-7.84	3.23	-66.18	-13.00	-53.18
922.40	33.87	V	-50.82	-7.97	3.83	-62.62	-13.00	-49.62
1693.20	43.38	V	-61.16	9.42	5.30	-57.04	-13.00	-44.04
2539.80	---	V		10.18	6.62		-13.00	
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 - 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: HSUPA B5 Mode**

Operation Mode	: TX CH High Mode	Test Date:	Jun, 16, 2011
Fundamental Frequency	: 846.60 MHz	Test By:	Blue
Temperature	: 25°C	Pol:	Hor
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)
196.84	48.22	H	-53.18	-7.84	1.70	-62.72	-13.00	-49.72
241.46	41.21	H	-58.43	-7.88	1.94	-68.25	-13.00	-55.25
328.76	46.13	H	-51.27	-7.76	2.28	-61.30	-13.00	-48.30
487.84	38.21	H	-55.35	-7.72	2.77	-65.83	-13.00	-52.83
675.05	34.00	H	-54.67	-7.84	3.23	-65.73	-13.00	-52.73
941.80	34.11	H	-50.20	-7.99	3.87	-62.06	-13.00	-49.06
1693.20	42.98	H	-61.37	9.42	5.30	-57.25	-13.00	-44.25
2539.80	37.60	H	-63.02	10.18	6.62	-59.46	-13.00	-46.46
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	
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