ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E CLASS II PC REPORT

For

Product Name:	**GTM601W**
Brand Name:	**Option**
Model Name:	**MO6012**
Model Difference:	**N/A**
FCC ID:	**NCMOMO6012**
Report No.:	**EH/2010/A0010-01**
Issue Date:	**Feb. 16, 2011**
FCC Rule Part:	**2 , 22H & 24E**
Prepared for:	**Option NV** **Gaston Geenslaan 14, 3001 Leuven, Belgium**
Prepared by:	**SGS Taiwan Ltd.** **Electronics & Communication Laboratory** **No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei County, Taiwan.**

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VERIFICATION OF COMPLIANCE

Applicant:	Option NV Gaston Geenslaan 14, 3001 Leuven, Belgium
Product Name:	GTM601W
Brand Name:	Option
Model No.:	MO6012
Model Difference:	N/A
FCC ID:	NCMOMO6012
File Number:	EH/2010/A0010-01
Date of test:	Feb. 08, 2011 ~ Feb. 14, 2011
Date of EUT Received:	Feb. 08, 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 FCC PART 22 subpart H, PART 24 subpart E.

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

Test By:	Bondi Liu	***Date:***	Feb. 16, 2011
	Bondi Liu / Engineer		
Prepared By:	Judy Hsu	***Date:***	Feb. 16, 2011
	Judy Hsu / General Admin.		
Approved By:	Willis Chen	***Date:***	Feb. 16, 2011
	Willis Chen / Asst. Manager		

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Version

Version No.	Date	Description
00	Feb. 16, 2011	Initial creation of document

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1. GENERAL PRODUCT INFORMATION

General:

Product Name	GTM601W
Brand Name	Option
Model Name	MO6012
Model Difference	N/A
Power Supply	3.7Vdc

GSM

Cellular Phone Standards Frequency Range and Power:	Operating Frequency		Rated Power
	GPRS 850, Class 10	824 MHz– 849MHz	33 dBm
	EDGE 850, Class 10	824 MHz– 849MHz	27 dBm
	GPRS 1900, Class 10	1850MHz – 1910MHz	30 dBm
	EDGE 1900, Class 10	1850MHz – 1910MHz	26 dBm
Hardware Version:	3.0		
Software Version:	1.8.1.0		
Transmit power (Conducted Power) Listed in Original Grant / Type of Emission	22H(GMSK): 824.2 - 848.8 MHz: 246KGXW 24E(GMSK): 1850.2 – 1909.8 MHz: 247KGXW 22H(8PSK): 824.2 - 848.8 MHz: 249KG7W 24E(8PSK): 1850.2 – 1909.8 MHz: 248KG7W		
Transmit power (Conducted Power) Listed in Test Report/Original Grant	22H(GMSK): 824.2 - 848.8 MHz: 2.887W(ERP) 24E(GMSK): 1850.2 – 1909.8 MHz: 0.323W(EIRP) 22H(8PSK): 824.2 - 848.8 MHz: 1.849W(ERP) 24E(8PSK): 1850.2 – 1909.8 MHz: 0.294W(EIRP)		
IMEI:	004401441392830		
Class II Permissive change:	Multi-slot Class 12 changed to 10.		

This test report applies for GPRS/EDGE 850/1900.

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1.1. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **NCMOMO6012** filing to comply with Section Part 22 subpart H, Part 24 subpart E of the FCC CFR 47 Rules.

1.2. Test Methodology

Both conducted and radiated testing were performed according to the procedures document of TIA/EIA 603C and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

The Output power Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, WCDMA / HSDPA) was used for EUT and Base station setting.

1.3. 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.

All equipment is calibrated externally and traceable to SI (International System of Unit).

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. 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 AC Power Line Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4: 2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 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.

2.3.3 Radiated Emissions (ERP/EIRP):

The EUT is a placed on as turn table which is 80 cm 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 and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 2 of TIA/EIA 603C.

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2.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2010	01/22/2012
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2010	05/13/2012
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2011	01/04/2012
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2011	01/04/2012
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2010	04/13/2012
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/05/2010	02/04/2012
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S20W5	N/A	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2010	07/04/2011
Splitter	Agilent	11636B	N/A	07/05/2010	07/04/2011
DC Power Supply	HP	6038A	2929A-07548	06/27/2010	06/26/2011
DC Power Supply	Topward	3303D	981327	10/25/2010	10/26/2012

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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	02/12/2010	02/11/2012
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2010	11/14/2011
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/10/2010	07/09/2012
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/10/2010	07/09/2012
Hor.n 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	01/22/2010	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
3m Site	SGS	966 chamber	N/A	11/09/2010	11/08/2011

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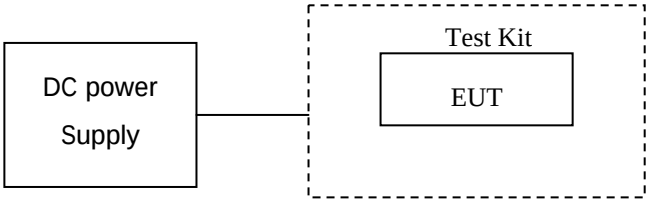
2.5. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel)



Remote Side

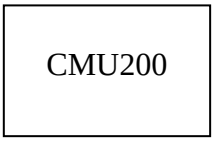


Table 2-1 Equipment Used in Tested System

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
2.	DC Power Supply	T	Topward	981327	shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	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

Max ERP/EIRP measurement result:

	dBm		W
GPRS 850 Band	33.08	ERP	2.032
GPRS 1900 Band	24.92	EIRP	0.310
EDGE 850 Band	31.16	ERP	1.306
EDGE 1900 Band	24.69	EIRP	0.294

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The field strength of spurious radiation emission was measured as EUT for GPRS were reported.

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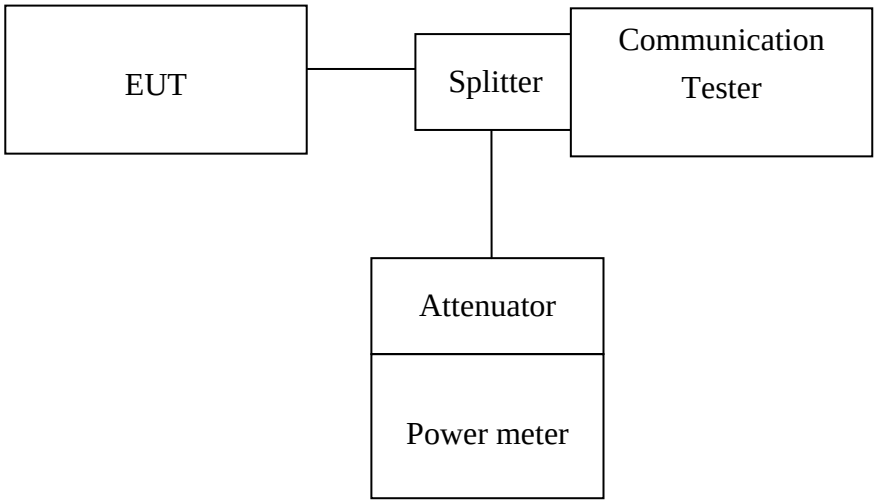
5. RF POWER OUTPUT MEASUREMENT

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 reaing. 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:

5.5.1RF Conducted Output Power

5.5.1.1.: GPRS/EDGE (GMSK; 8-PSK)

Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)
GPRS 850	824.2	128	32.60	29.80
	836.6	190	32.50	29.60
	848.8	251	32.30	29.70

EUT Mode	Frequency (MHz)	CH	Average Power (1TS) (dBm)	Average Power (2TS) (dBm)
GPRS 850	824.2	128	32.40	29.60
	836.6	190	32.30	29.40
	848.8	251	32.10	29.50

EUT Mode	Frequency (MHz)	CH	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)
EDGE 850	824.2	128	30.70	29.60
	836.6	190	30.60	29.50
	848.8	251	30.50	29.40

EUT Mode	Frequency (MHz)	CH	Average Power (1TS) (dBm)	Average Power (2TS) (dBm)
EDGE 850	824.2	128	27.50	26.40
	836.6	190	27.30	26.30
	848.8	251	27.30	26.20

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EUT Mode	Frequency (MHz)	CH	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)
GPRS 1900	1850.2	512	28.40	25.50
	1880.0	661	28.30	25.20
	1909.8	810	28.50	25.60

EUT Mode	Frequency (MHz)	CH	Average Power (1TS) (dBm)	Average Power (2TS) (dBm)
GPRS 1900	1850.2	512	28.20	25.30
	1880.0	661	28.10	25.00
	1909.8	810	28.40	25.50

EUT Mode	Frequency (MHz)	CH	Peak Power (1TS) (dBm)	Peak Power (2TS) (dBm)
EDGE 1900	1850.2	512	28.80	27.80
	1880.0	661	28.70	27.70
	1909.8	810	29.00	27.90

EUT Mode	Frequency (MHz)	CH	Average Power (1TS) (dBm)	Average Power (2TS) (dBm)
EDGE 1900	1850.2	512	25.60	24.50
	1880.0	661	25.50	24.50
	1909.8	810	25.80	24.70

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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)	28.3	28.3	28.3	28.3	26.9	25.1	23.1	21.2	19.1	
PCL	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**
Output power (dBm)	17.4	15.4	13.6	11.4	9.3	7.3	5.4	3.6	1.4	-0.5

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

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6. ERP, EIRP MEASUREMENT

6.1. Standard Applicable:

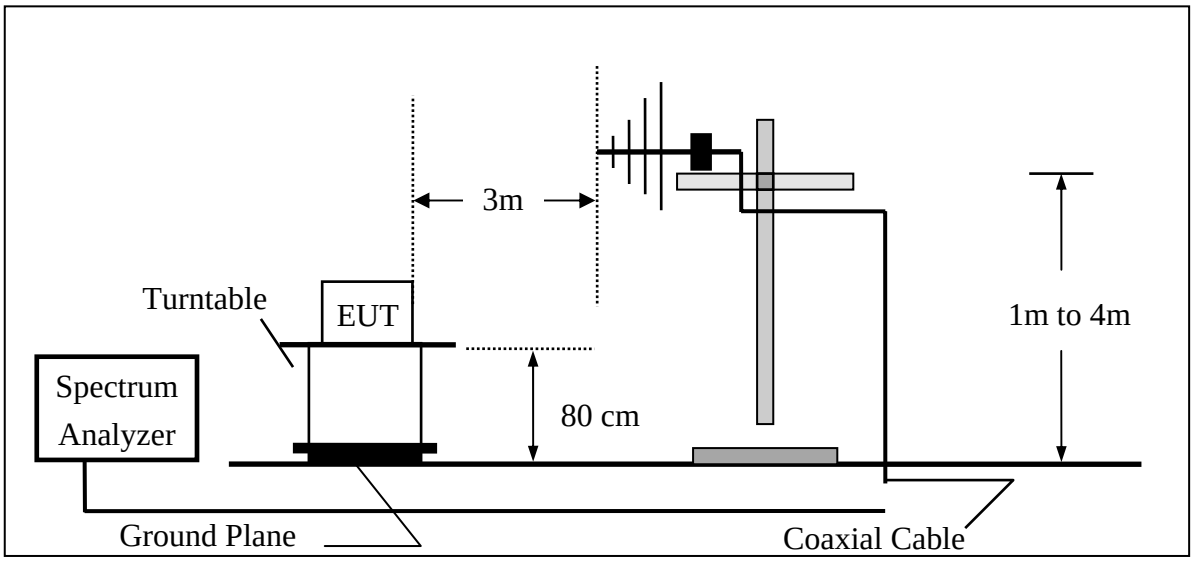
According to FCC §2.1046

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

FCC 24.232(b) 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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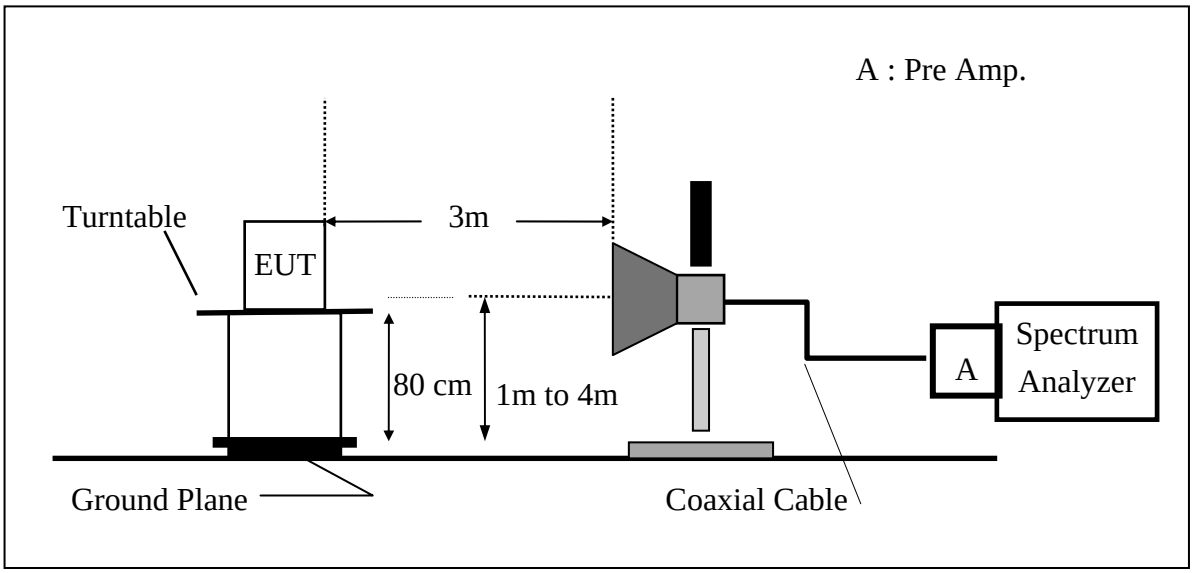
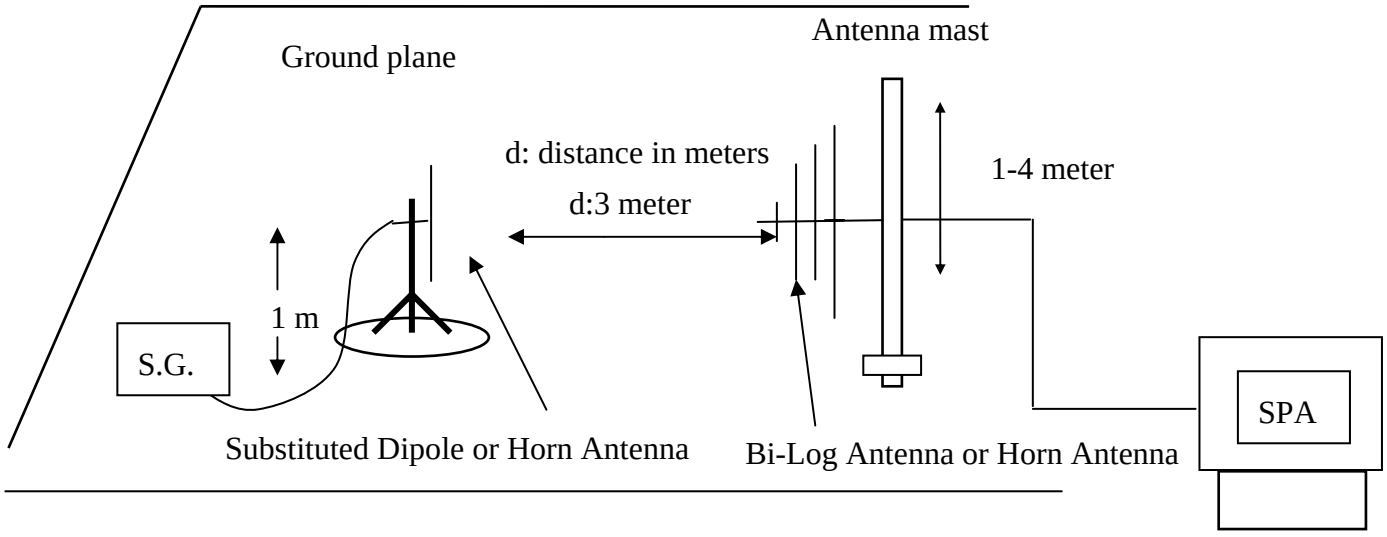
(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3. Measurement Procedure:

The EUT was placed on an 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:

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

6.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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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 (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GPRS 850	824.20	128	E2	V	123.91	37.52	-7.87	3.62	26.02	38.45
				H	129.96	43.69	-7.87	3.62	32.19	38.45
	836.60	190	E2	V	123.49	37.24	-7.88	3.65	25.71	38.45
				H	130.37	44.14	-7.88	3.65	32.61	38.45
	848.80	251	E2	V	123.03	36.91	-7.88	3.68	25.35	38.45
				H	130.83	44.64	-7.88	3.68	**33.08**	38.45

Remark：

(1) The RBW,VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz

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	E2	V	115.12	10.73	9.90	5.56	15.07	33.00
				H	125.04	20.86	9.90	5.84	**24.92**	33.00
	1880.00	661	E2	V	114.75	10.39	9.99	5.61	14.77	33.00
				H	123.52	19.38	9.99	5.61	23.75	33.00
	1909.80	810	E2	V	112.79	8.46	10.08	5.66	12.88	33.00
				H	124.16	20.05	10.08	5.66	24.47	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	121.83	35.44	-7.87	3.62	23.94	38.45
				H	127.76	41.49	-7.87	3.62	29.99	38.45
	836.60	190	E2	V	121.08	34.83	-7.88	3.65	23.30	38.45
				H	128.02	41.79	-7.88	3.65	30.26	38.45
	848.80	251	E2	V	121.18	35.06	-7.88	3.68	23.50	38.45
				H	128.91	42.72	-7.88	3.68	**31.16**	38.45

Remark：

(1) The RBW,VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz

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 1900	1850.20	512	E2	V	113.76	9.37	9.90	5.56	13.71	33.00
				H	124.03	19.85	9.90	5.84	23.91	33.00
	1880.00	661	E2	V	113.47	9.11	9.99	5.61	13.49	33.00
				H	123.65	19.51	9.99	5.61	23.88	33.00
	1909.80	810	E2	V	113.33	9.00	10.08	5.66	13.42	33.00
				H	124.38	20.27	10.08	5.66	**24.69**	33.00

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

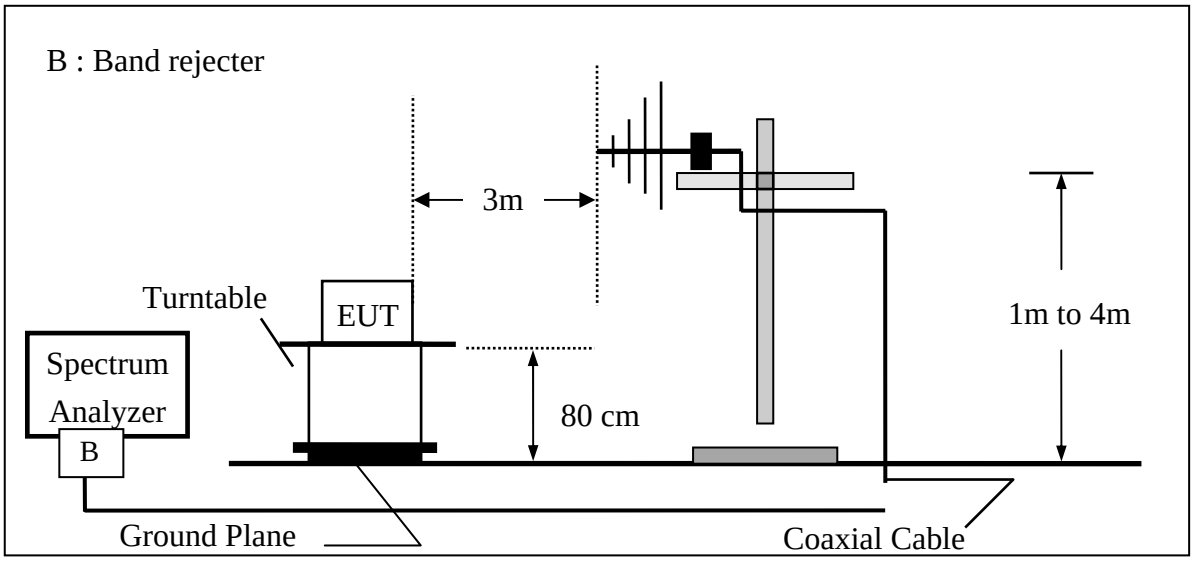
7.1. Standard Applicable:

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)

7.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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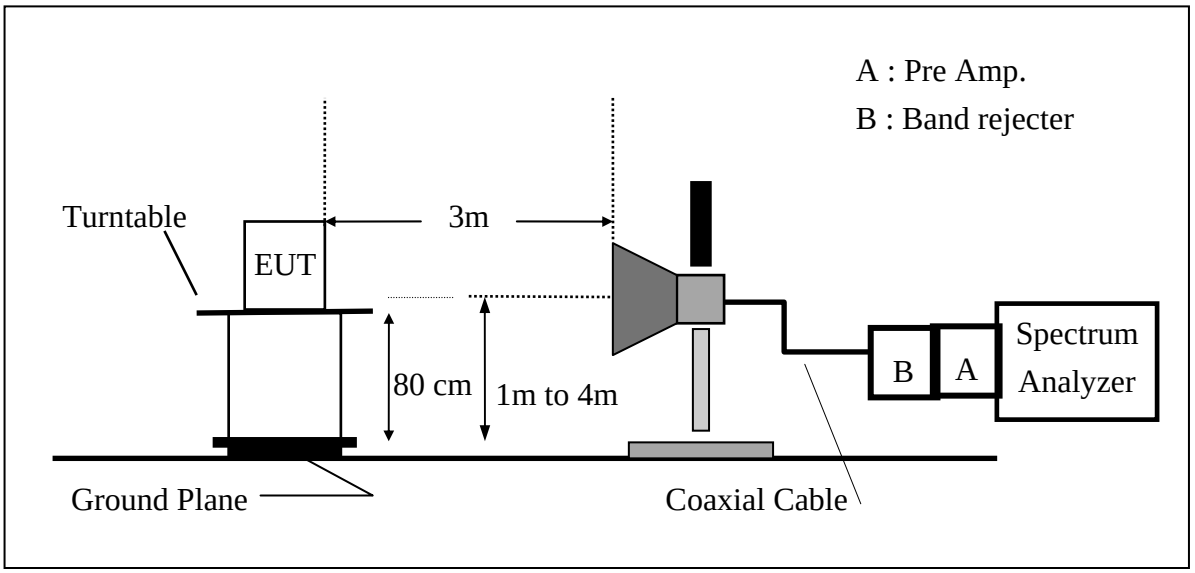
Radiated Emission Test Set-UP Frequency Over 1 GHz



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 frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

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

ERP= S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain(dBi) – Cable Loss (dB)

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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:	Feb. 11, 2011
Fundamental Frequency	: 824.20 MHz	Test By:	Bondi
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)
148.34	33.18	V	-64.26	-7.80	1.58	-73.64	-13.00	-60.64
335.55	32.78	V	-65.03	-7.72	2.31	-75.06	-13.00	-62.06
490.75	32.89	V	-61.21	-7.72	2.77	-71.70	-13.00	-58.70
648.86	32.74	V	-56.19	-7.81	3.16	-67.16	-13.00	-54.16
738.10	33.36	V	-54.30	-7.87	3.43	-65.60	-13.00	-52.60
823.98	76.56	V	-9.83	-7.87	3.62	-21.33	-13.00	-8.33
963.14	33.89	V	-50.43	-8.00	3.92	-62.34	-13.00	-49.34
1648.40	50.24	V	-54.34	9.29	5.23	-50.28	-13.00	-37.28
2472.60	39.39	V	-61.62	10.08	6.53	-58.07	-13.00	-45.07
3296.80	47.70	V	-51.17	12.17	7.71	-46.72	-13.00	-33.72
4121.00	40.17	V	-55.95	12.61	8.86	-52.20	-13.00	-39.20
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 - 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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Low Mode	Test Date:	Feb. 11, 2011
Fundamental Frequency	: 824.20 MHz	Test By:	Bondi
Temperature	: 25℃	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)
148.34	32.31	H	-65.63	-7.80	1.58	-75.01	-13.00	-62.01
319.06	31.68	H	-65.80	-7.81	2.24	-75.86	-13.00	-62.86
458.74	33.36	H	-60.45	-7.70	2.68	-70.84	-13.00	-57.84
650.80	33.31	H	-56.38	-7.81	3.16	-67.35	-13.00	-54.35
823.97	82.47	H	-3.80	-7.87	3.62	-15.30	-13.00	-2.30
907.85	32.90	H	-51.85	-7.96	3.80	-63.61	-13.00	-50.61
972.84	33.74	H	-50.33	-8.00	3.95	-62.28	-13.00	-49.28
1648.40	44.22	H	-60.18	9.29	5.23	-56.12	-13.00	-43.12
2472.60	42.49	H	-58.42	10.08	6.53	-54.87	-13.00	-41.87
3296.80	44.69	H	-54.41	12.17	7.71	-49.95	-13.00	-36.95
4121.00	39.63	H	-56.62	12.61	8.86	-52.87	-13.00	-39.87
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 - 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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Feb. 11, 2011
Fundamental Frequency	: 836.60 MHz	Test By:	Bondi
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)
154.16	32.83	V	-64.83	-7.80	1.60	-74.24	-13.00	-61.24
367.56	31.83	V	-65.05	-7.65	2.41	-75.11	-13.00	-62.11
447.10	32.63	V	-61.39	-7.70	2.65	-71.74	-13.00	-58.74
610.06	33.17	V	-56.27	-7.79	3.06	-67.12	-13.00	-54.12
704.15	33.38	V	-55.87	-7.86	3.30	-67.03	-13.00	-54.03
970.90	33.25	V	-50.89	-8.00	3.94	-62.83	-13.00	-49.83
1673.20	44.78	V	-59.78	9.36	5.27	-55.68	-13.00	-42.68
2509.80	42.65	V	-58.13	10.09	6.58	-54.63	-13.00	-41.63
3346.40	45.00	V	-53.86	12.28	7.79	-49.38	-13.00	-36.38
4183.00	38.38	V	-57.51	12.62	8.93	-53.82	-13.00	-40.82
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 belongs 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: GPRS 850 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Feb. 11, 2011
Fundamental Frequency	: 836.60 MHz	Test By:	Bondi
Temperature	: 25℃	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)
154.16	33.08	H	-65.01	-7.80	1.60	-74.42	-13.00	-61.42
352.04	32.65	H	-64.52	-7.64	2.37	-74.53	-13.00	-61.53
476.20	33.12	H	-60.54	-7.71	2.73	-70.98	-13.00	-57.98
645.95	32.98	H	-56.82	-7.81	3.15	-67.78	-13.00	-54.78
716.76	32.86	H	-57.90	-7.86	3.35	-69.12	-13.00	-56.12
936.95	33.15	H	-51.23	-7.99	3.86	-63.07	-13.00	-50.07
1673.20	42.82	H	-61.56	9.36	5.27	-57.46	-13.00	-44.46
2509.80	41.57	H	-59.13	10.09	6.58	-55.63	-13.00	-42.63
3346.40	45.28	H	-53.78	12.28	7.79	-49.30	-13.00	-36.30
4183.00	36.43	H	-59.60	12.62	8.93	-55.91	-13.00	-42.91
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH High Mode	Test Date:	Feb. 11, 2011
Fundamental Frequency	: 848.80 MHz	Test By:	Bondi
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)
146.40	33.13	V	-64.49	-7.80	1.57	-73.86	-13.00	-60.86
243.40	33.01	V	-67.13	-7.88	1.95	-76.97	-13.00	-63.97
422.85	32.07	V	-62.71	-7.68	2.58	-72.97	-13.00	-59.97
619.76	32.60	V	-56.71	-7.80	3.08	-67.59	-13.00	-54.59
720.64	32.61	V	-55.87	-7.86	3.36	-67.10	-13.00	-54.10
849.02	77.68	V	-8.44	-7.88	3.68	-20.00	-13.00	-7.00
924.34	33.33	V	-51.36	-7.97	3.83	-63.16	-13.00	-50.16
1697.60	48.82	V	-55.72	9.44	5.31	-51.59	-13.00	-38.59
2546.40	43.22	V	-57.42	10.20	6.63	-53.86	-13.00	-40.86
3395.20	42.84	V	-56.01	12.38	7.87	-51.50	-13.00	-38.50
4244.00	37.71	V	-57.95	12.63	9.00	-54.32	-13.00	-41.32
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 - 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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH High Mode	Test Date:	Feb. 11, 2011
Fundamental Frequency	: 848.80 MHz	Test By:	Bondi
Temperature	: 25℃	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)
148.34	32.11	H	-65.83	-7.80	1.58	-75.21	-13.00	-62.21
406.36	32.52	H	-63.59	-7.67	2.53	-73.78	-13.00	-60.78
553.80	33.33	H	-58.31	-7.76	2.97	-69.04	-13.00	-56.04
681.84	33.18	H	-55.21	-7.84	3.24	-66.29	-13.00	-53.29
781.75	31.50	H	-58.72	-7.87	3.53	-70.13	-13.00	-57.13
849.03	83.86	H	-2.33	-7.88	3.68	-13.89	-13.00	-0.89
959.26	33.86	H	-50.29	-8.00	3.91	-62.20	-13.00	-49.20
1697.60	47.74	H	-56.61	9.44	5.31	-52.48	-13.00	-39.48
2546.40	42.28	H	-58.32	10.20	6.63	-54.76	-13.00	-41.76
3395.20	42.78	H	-56.25	12.38	7.87	-51.73	-13.00	-38.73
4244.00	37.40	H	-58.41	12.63	9.00	-54.79	-13.00	-41.79
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 - 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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Low Mode	Test Date:	Feb. 11, 2011
Fundamental Frequency	: 1850.20MHz	Test By:	Bondi
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)
158.04	32.91	V	-65.10	-7.81	1.61	-74.52	-13.00	-61.52
255.04	32.74	V	-66.98	-7.89	2.01	-76.89	-13.00	-63.89
384.05	32.42	V	-63.76	-7.65	2.46	-73.88	-13.00	-60.88
607.15	32.75	V	-56.73	-7.79	3.05	-67.57	-13.00	-54.57
740.04	32.50	V	-55.07	-7.87	3.43	-66.38	-13.00	-53.38
885.54	33.03	V	-52.11	-7.93	3.76	-63.80	-13.00	-50.80
1849.98	64.94	V	-39.45	9.90	5.56	-35.11	-13.00	-22.11
3700.40	63.77	V	-34.16	12.61	8.31	-29.86	-13.00	-16.86
5550.60	41.37	V	-49.47	13.23	10.33	-46.57	-13.00	-33.57
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 - 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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Low Mode	Test Date:	Feb. 11, 2011
Fundamental Frequency	: 1850.20MHz	Test By:	Bondi
Temperature	: 25℃	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)
148.34	32.23	H	-65.71	-7.80	1.58	-75.09	-13.00	-62.09
251.16	32.37	H	-66.81	-7.89	1.99	-76.70	-13.00	-63.70
388.90	32.89	H	-63.71	-7.66	2.48	-73.84	-13.00	-60.84
675.05	33.13	H	-55.54	-7.84	3.23	-66.60	-13.00	-53.60
883.60	33.21	H	-52.08	-7.93	3.75	-63.76	-13.00	-50.76
975.75	32.79	H	-51.27	-7.99	3.96	-63.22	-13.00	-50.22
1849.98	76.97	H	-27.21	9.90	5.56	-22.87	-13.00	-9.87
3700.40	64.07	H	-33.97	12.61	8.31	-29.67	-13.00	-16.67
5550.60	37.22	H	-53.83	13.23	10.33	-50.93	-13.00	-37.93
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 - 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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Feb. 11, 2011
Fundamental Frequency	: 1880MHz	Test By:	Bondi
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)
156.10	32.76	V	-65.08	-7.80	1.60	-74.49	-13.00	-61.49
272.50	32.47	V	-66.68	-7.90	2.07	-76.66	-13.00	-63.66
468.44	32.55	V	-61.46	-7.71	2.71	-71.88	-13.00	-58.88
604.24	33.61	V	-55.90	-7.79	3.04	-66.74	-13.00	-53.74
742.95	32.80	V	-54.64	-7.87	3.44	-65.95	-13.00	-52.95
881.66	32.75	V	-52.50	-7.92	3.75	-64.17	-13.00	-51.17
3760.00	65.00	V	-32.66	12.60	8.39	-28.44	-13.00	-15.44
5640.00	46.22	V	-44.36	13.36	10.41	-41.41	-13.00	-28.41
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	Feb. 11, 2011
Fundamental Frequency	: 1880MHz	Test By:	Bondi
Temperature	: 25℃	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)
165.80	33.68	H	-65.32	-7.81	1.63	-74.76	-13.00	-61.76
296.75	33.13	H	-64.63	-7.92	2.16	-74.71	-13.00	-61.71
524.70	32.40	H	-60.20	-7.74	2.88	-70.81	-13.00	-57.81
658.56	32.70	H	-56.66	-7.82	3.18	-67.66	-13.00	-54.66
791.45	32.53	H	-55.63	-7.87	3.55	-67.05	-13.00	-54.05
927.25	32.45	H	-52.05	-7.98	3.84	-63.87	-13.00	-50.87
3760.00	60.85	H	-36.92	12.60	8.39	-32.71	-13.00	-19.71
5640.00	37.44	H	-53.31	13.36	10.41	-50.36	-13.00	-37.36
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH High Mode	Test Date:	Feb. 11, 2011
Fundamental Frequency	: 1909.8 MHz	Test By:	Bondi
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)
156.10	32.41	V	-65.43	-7.80	1.60	-74.84	-13.00	-61.84
262.80	32.60	V	-66.87	-7.90	2.04	-76.80	-13.00	-63.80
432.55	32.48	V	-62.00	-7.69	2.61	-72.29	-13.00	-59.29
650.80	33.01	V	-55.92	-7.81	3.16	-66.89	-13.00	-53.89
728.40	32.93	V	-55.19	-7.87	3.39	-66.44	-13.00	-53.44
888.45	32.39	V	-52.67	-7.93	3.76	-64.37	-13.00	-51.37
1910.02	66.21	V	-38.12	10.08	5.66	-33.70	-13.00	-20.70
3819.60	67.93	V	-29.46	12.60	8.47	-25.33	-13.00	-12.33
5729.40	45.60	V	-44.72	13.49	10.50	-41.72	-13.00	-28.72
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 - 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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode	: TX CH High Mode	Test Date:	Feb. 11, 2011
Fundamental Frequency	: 1909.8 MHz	Test By:	Bondi
Temperature	: 25℃	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)
148.34	32.37	H	-65.57	-7.80	1.58	-74.95	-13.00	-61.95
282.20	32.55	H	-65.67	-7.91	2.11	-75.68	-13.00	-62.68
379.20	32.72	H	-64.03	-7.65	2.45	-74.13	-13.00	-61.13
464.56	32.42	H	-61.34	-7.71	2.70	-71.75	-13.00	-58.75
648.86	33.27	H	-56.47	-7.81	3.16	-67.44	-13.00	-54.44
895.24	32.03	H	-52.95	-7.94	3.78	-64.67	-13.00	-51.67
1910.02	77.20	H	-26.91	10.08	5.66	-22.49	-13.00	-9.49
3819.60	62.07	H	-35.44	12.60	8.47	-31.30	-13.00	-18.30
5729.40	43.51	H	-46.94	13.49	10.50	-43.95	-13.00	-30.95
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	
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15278.40	---	H		15.00	18.29		-13.00	
17188.20	---	H		14.47	19.52		-13.00	
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Measurement uncertainty	30MHz - 80MHz: 5.04dB
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