

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 22 SUBPART H and PART 24 SUBPART E
INDUSTRY CANADA RSS-132 and RSS-133
FULL MODULE APPROVED REQUIREMENT**

OF

Product Name: 3.5G module

Brand Name: Flex

Model Name: MC8775

Market Name: N/A

FCC ID: ID48775

IC ID: 5248N-8775

Report No.: ER/2008/50016~17

Issue Date: May. 27, 2008

Rule Part: 2, 22H & 24E
RSS 132, Issue 2 and RSS 133, Issue 3

Prepared for: Flextronics International (Taiwan) Ltd.
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Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: Flextronics International (Taiwan) Ltd.
6F., No.758, Sec.4, Bade Rd., Songshan District, Taipei City 10567, Taiwan, R.O.C.

Product Name: 3.5G module

FCC ID Number: ID48775

IC ID Number: 5248N-8775

Brand Name: Flex

Model No.: MC8775

Market name: N/A

Module FCC ID: N7NMC8775

Model Difference: N/A

File Number: ER/2008/50016~17




Date of test: May. 09, 2008 ~ May 20, 2008

Date of EUT Received: May. 08, 2008

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. 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-B-2002 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 and FCC PART 24 subpart E, Issue 2 of RSS-132 and Issue 3 of RSS-133.

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

Test By:		Date	May. 27, 2008
	_____ <i>Sky Wang / Asst. Supervisor</i>		
Prepared By:		Date	May. 27, 2008
	_____ <i>Alex Hsieh / Sr. Engineer</i>		
Approved By:		Date	May. 27, 2008
	_____ <i>Vincent Su / Manager</i>		

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Report Version

Version No.	Date
00	May. 27, 2008

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1. GENERAL INFORMATION

Product Name:	3.5G module	
Model Name:	MC8775	
Market name:	N/A	
Model Difference:	N/A	
Brand Name:	Flex	
Power Supply:	3.7 Vdc	
	Battery Model:	N/A
	Adapter Model:	N/A

GSM and WCDMA:

Cellular Phone Standards Frequency Range and Power	GSM/GPRS 850, class 10	824 MHz– 849MHz	33 dBm
	EDGE 850	824 MHz– 849MHz	27 dBm
	GSM/GPRS 1900, class 10	1850MHz – 1910MHz	30 dBm
	EDGE 1900	1850MHz – 1910MHz	26 dBm
	WCDMA/HSDPA Band II	1852MHz – 1908MHz	24 dBm
	WCDMA/HSDPA Band V	826 MHz– 847MHz	24 dBm
Type of Emission	GSM: 300KGXW EDGE: 300KG7W WCDMA: 4M20F9W		
IMEI	352678013333643		

Antenna Specification

Item no.	Model/Type	
Antenna	Antenna Type	PIFA Antenna
	Manufacture:	YAGEO
	Frequency Range:	850 / 900 / 1800 / 1900 / 2100
	Antenna Gain:	850MHz: -1.4dBi ; 1900MHz: 1.35dBi

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

This submittal(s) (test report) is intended for FCC ID: ID48775 and IC ID: 5248N-8775 filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules and issue 2 of RSS-132 and issue 3 of RSS-133

1.2. Test Methodology

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4 (2003) and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, issue 2 of RSS-132 and issue 3 of RSS-133.

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-1

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.

1.4. 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 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 Radiated Emissions

The EUT is a placed on as 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 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 8 and 13 and Subclause 8.3.1.2 of ANSI C63.4-2003.

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2.4. Configuration of Tested System

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

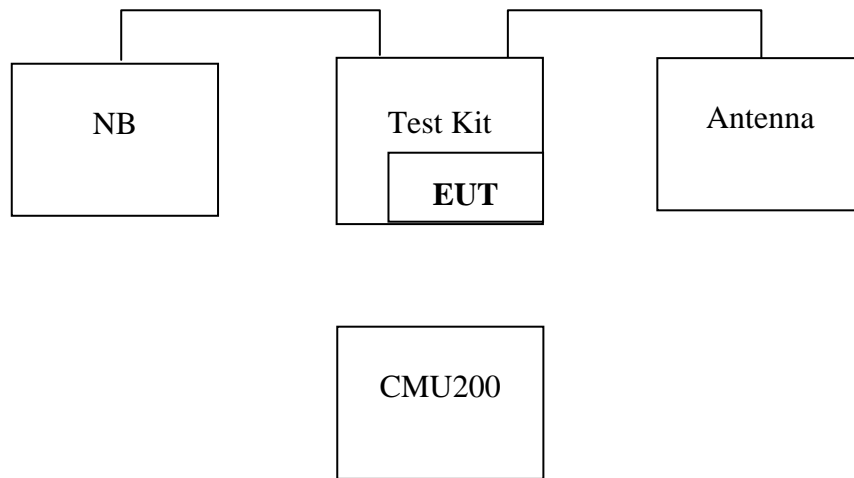


Table 2-1 Equipment Used in Tested System

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	Test Kit	FLEX	N/A	N/A	N/A	N/A
3	Antenna	N/A	N/A	N/A	Un-shielded	Un-shielded
4	Notebook	IBM	T43	L3LHHN6	N/A	Un-shielded
5	Test software	Sierra	N/A	N/A	N/A	N/A

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §22.913(a) §24.232(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a) §24.232(a) §4.4 (RSS-132) §6.4 (RSS-133)	ERP/ EIRP measurement	Compliant
§2.1049	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §4.5(RSS-132) §6.5(RSS-133)	Out of Band Emissions at Antenna Terminals and Band Edge	N/A
§2.1053 §22.917(a) §24.238(a) §4.5(RSS-132) §6.5(RSS-133)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1)(b) §4.6(RSS-132) §6.7(RSS-133)	Frequency Stability vs. Temperature	N/A
§2.1055(d)(1)(2) §4.3(RSS-132) §6.3(RSS-133)	Frequency Stability vs. Voltage	N/A
§15.107;§15.207	AC Power Line Conducted Emission	N/A
§4.6(RSS-132) §6.7(RSS-133)	Receiver Spurious Emissions	Compliant

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

The module was pre-approved and the FCC ID number is N7NMC8775. Thus, the output power, ERP/EIRP, Field Strength of Spurious Radiation were tested at GSM, EDGE and WCDMA modes.

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

The field strength of spurious radiation emission was measured with antenna for both GSM850/GSM1900 and WCDMA Band II /V at channel Low, Mid and High were reported.

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5. RF POWER OUTPUT MEASUREMENT

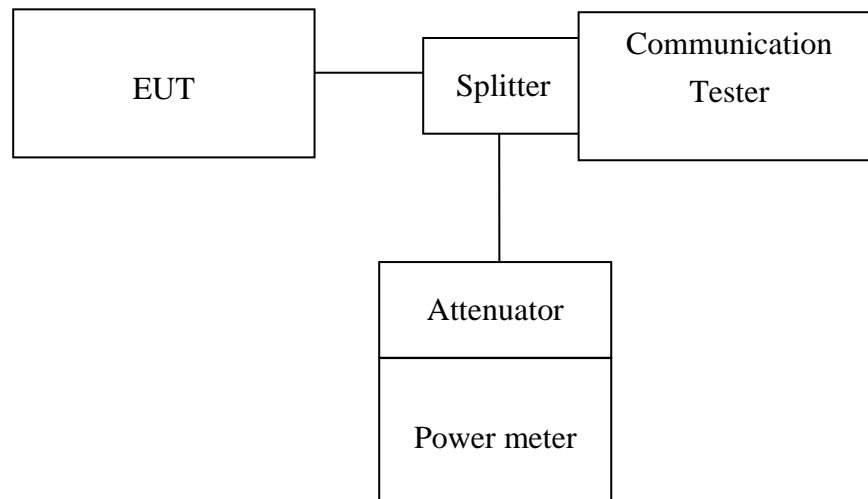
5.1. Standard Applicable

According to FCC §2.1046.

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

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

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.

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5.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	06/28/2007	06/27/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	06/28/2007	06/27/2008
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2007	06/27/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2007	10/13/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2007	09/22/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	09/23/2007	09/22/2008
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008
DC Power Supply	TOPWARD	3303A	N/A	N/A	N/A

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5.5. Measurement Result

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
GSM 850	824.20	128	32.08	0.00	32.08
	836.60	190	32.02	0.00	32.02
	848.80	251	31.96	0.00	31.96

**Offset 17.8dB*

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
PCS 1900	1850.20	512	28.80	0.00	29.60
	1880.00	661	28.66	0.00	29.70
	1909.80	810	28.57	0.00	29.60

**Offset 17.8dB*

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
EDGE 850	824.20	128	25.85	0.00	26.88
	836.60	190	25.88	0.00	26.80
	848.80	251	25.74	0.00	26.79

**Offset 17.8dB*

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
EDGE 1900	1850.20	512	25.74	0.00	25.54
	1880.00	661	25.54	0.00	25.36
	1909.80	810	25.48	0.00	25.28

**Offset 17.8dB*

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EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
WCDMA Band II	1852.40	9262	22.84	0.00	22.84
	1880.00	9400	22.86	0.00	22.86
	1907.60	9538	22.10	0.00	22.10

**Offset 17.8dB*

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
WCDMA Band V	826.40	4132	22.75	0.00	22.75
	836.00	4180	22.73	0.00	22.73
	846.60	4233	22.49	0.00	22.49

**Offset 17.8dB*

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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.

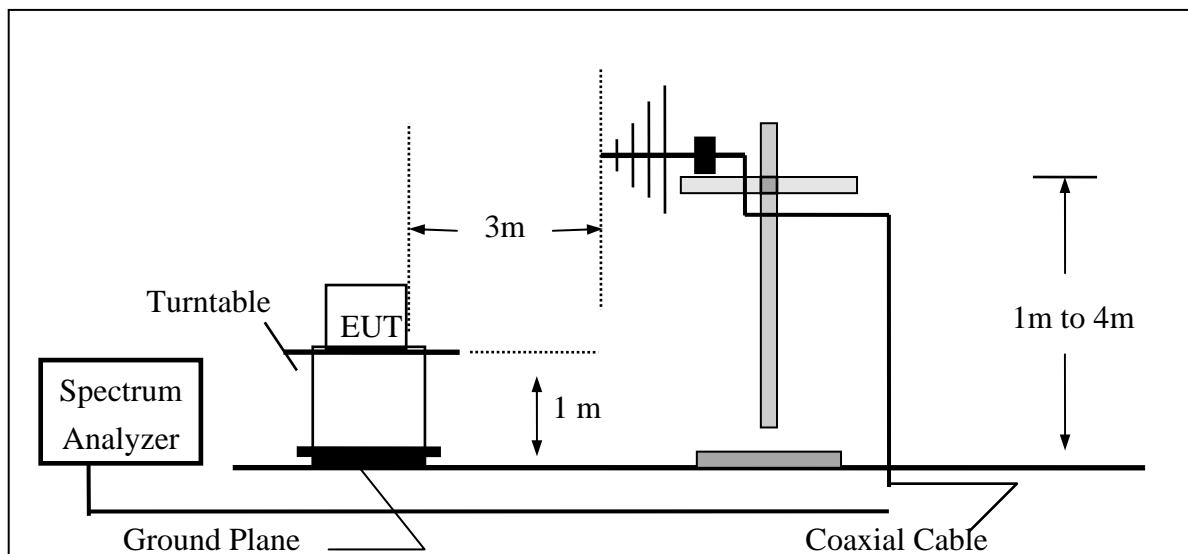
According to IC RSS-133 §6.4

The peak e.i.r.p. for transmitters operating in the band 1850-1910 MHz shall not exceed the limits 2W which given in SRSP-510.

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

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

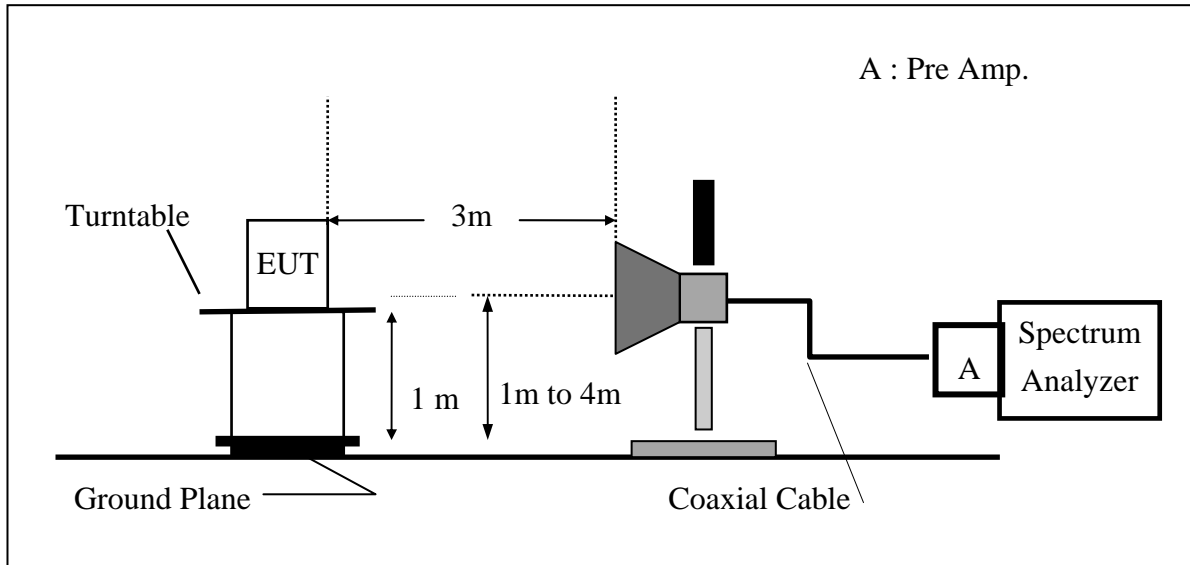
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



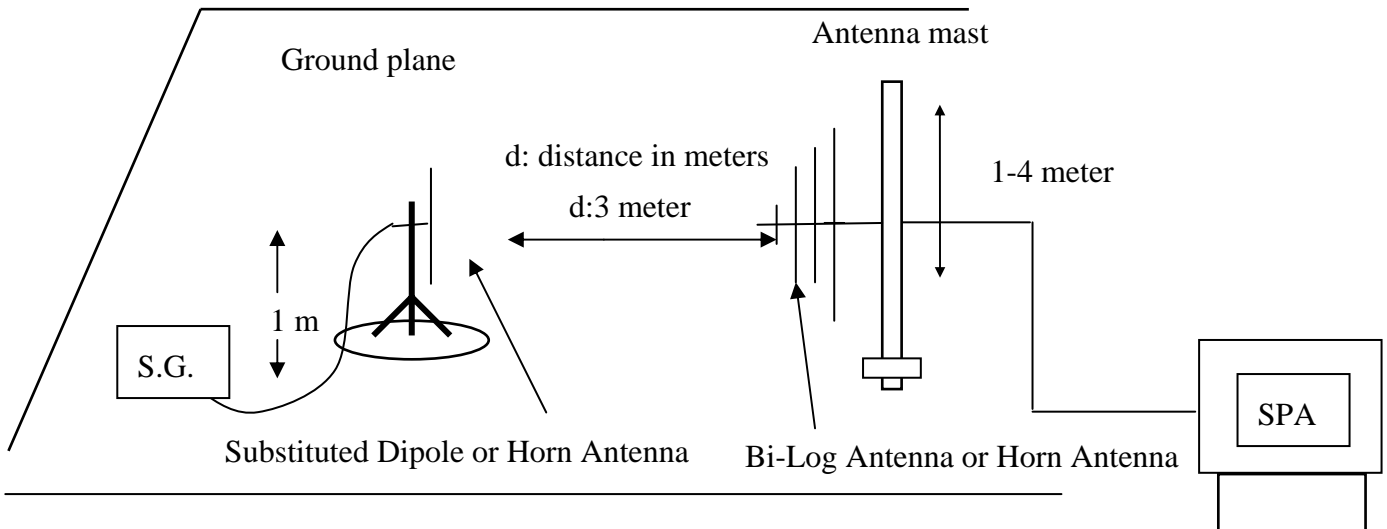
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3. Measurement Procedure

The EUT was placed on a non-conductive, 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.

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. And Peak detector was used during this test.

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 or 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:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/27/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bi-log Antenna	SCHWAZBECK	VULB9160	3224	11/14/2007	11/13/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2007	08/15/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2008	02/25/2009
Signal Generator	R&S	SMR40	100210	02/09/2008	02/10/2009
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	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2007	10/08/2008
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2007	09/22/2008
Dipole Antenna	SCHWAZBECK	VHAP	908/909	06/10/2006	06/09/2008
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/10/2006	06/09/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	N/A	08/16/2007	08/15/2008

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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)
GSM 850	824.20	128	H	V	126.11	38.79	-7.87	3.64	27.27	38.45
				H	128.53	40.87	-7.87	3.64	29.36	38.45
	836.60	190	H	V	126.97	39.94	-7.88	3.70	28.37	38.45
				H	128.15	40.81	-7.88	3.70	29.24	38.45
	848.80	251	H	V	128.37	41.63	-7.88	3.75	30.00	38.45
				H	128.11	41.09	-7.88	3.75	29.46	38.45

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)
PCS 1900	1850.20	512	H	V	123.29	16.33	9.90	5.41	20.82	33.00
				H	126.42	19.53	9.90	5.41	24.02	33.00
	1880.00	661	H	V	125.63	18.68	9.99	5.46	23.21	33.00
				H	127.37	20.50	9.99	5.46	25.03	33.00
	1909.80	810	H	V	124.60	17.66	10.08	5.51	22.23	33.00
				H	127.26	20.41	10.08	5.51	24.97	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=100 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz
- (2) Peak detector was used during test.

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6.6. 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)
EDGE 850	824.20	128	H	V	121.24	33.92	-7.87	3.64	22.40	38.45
				H	120.10	32.44	-7.87	3.64	20.93	38.45
	836.60	190	H	V	120.83	33.80	-7.88	3.70	22.23	38.45
				H	120.52	33.18	-7.88	3.70	21.61	38.45
	848.80	251	H	V	121.35	34.61	-7.88	3.75	22.98	38.45
				H	122.21	35.19	-7.88	3.75	23.56	38.45

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	H	V	122.12	15.16	9.90	5.41	19.65	33.00
				H	125.41	18.52	9.90	5.41	23.01	33.00
	1880.00	661	H	V	124.62	17.67	9.99	5.46	22.20	33.00
				H	126.61	19.74	9.99	5.46	24.27	33.00
	1909.80	810	H	V	126.12	19.18	10.08	5.51	23.75	33.00
				H	123.46	16.61	10.08	5.51	21.17	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=100 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz
- (2) Peak detector was used during test.

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6.7. Measurement Result

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
WCDMA Band II	1852.40	9262	H	V	118.01	11.05	9.90	5.41	15.54	33.00
				H	120.00	13.11	9.90	5.41	17.60	33.00
	1880.00	9400	H	V	119.16	12.21	9.99	5.46	16.74	33.00
				H	120.91	14.04	9.99	5.46	18.57	33.00
	1907.60	9538	H	V	119.36	12.42	10.08	5.51	16.99	33.00
				H	121.69	14.84	10.08	5.51	19.40	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 Band V	826.40	4132	H	V	115.85	28.53	-7.87	3.64	17.01	38.45
				H	118.59	30.93	-7.87	3.64	19.42	38.45
	836.00	4180	H	V	115.98	28.95	-7.88	3.70	17.38	38.45
				H	117.95	30.61	-7.88	3.70	19.04	38.45
	846.60	4233	H	V	117.88	31.14	-7.88	3.75	19.51	38.45
				H	117.23	30.21	-7.88	3.75	18.58	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=100 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz
- (2) Peak detector was used during test.

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7 99% OCCUPIED BANDWIDTH MEASUREMENT

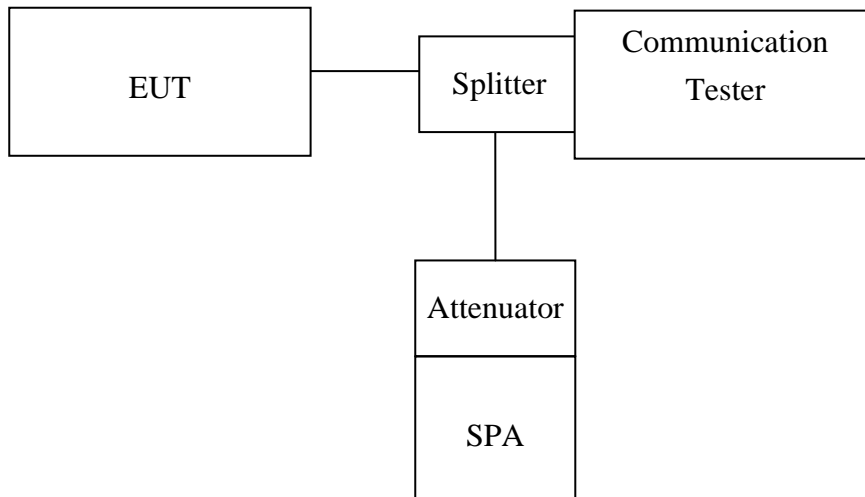
7.1 Standard Applicable

According to FCC§2.1049.

According to IC RSS-132 §4.2

According to IC RSS-133 §2.6

7.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

7.3 Measurement Procedure

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW (10KHz) was set to about 1% of emission BW, VBW= 30KHz, -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

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7.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Communication Test	R&S	CMU200	N/A	N/A	N/A
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2007	04/25/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2007	07/04/2008
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008
Signal Generator	R&S	SMR40	100210	12/20/2007	12/19/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

7.5 Measurement Result:.

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.2460
	836.60	190	0.2403
	848.80	251	0.2404

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.2396
	1880.00	661	0.2382
	1909.80	810	0.2412

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.2473
	836.60	190	0.2440
	848.80	251	0.2433

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.2494
	1880.00	661	0.2448
	1909.80	810	0.2445

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band II	1852.40	9262	4.1519
	1880.00	9400	4.1341
	1907.60	9538	4.1589

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band V	826.40	4132	4.1436
	836.00	4180	4.1524
	846.60	4233	4.1456

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Figure 7-1: GSM 850 Channel Low

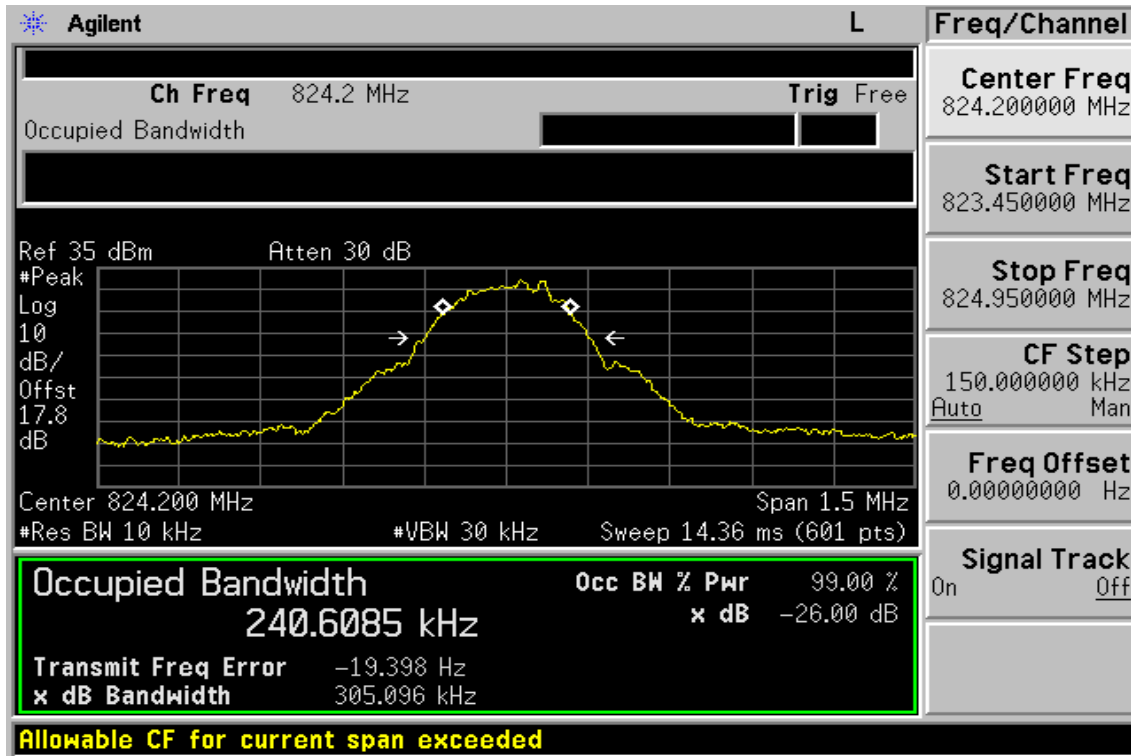
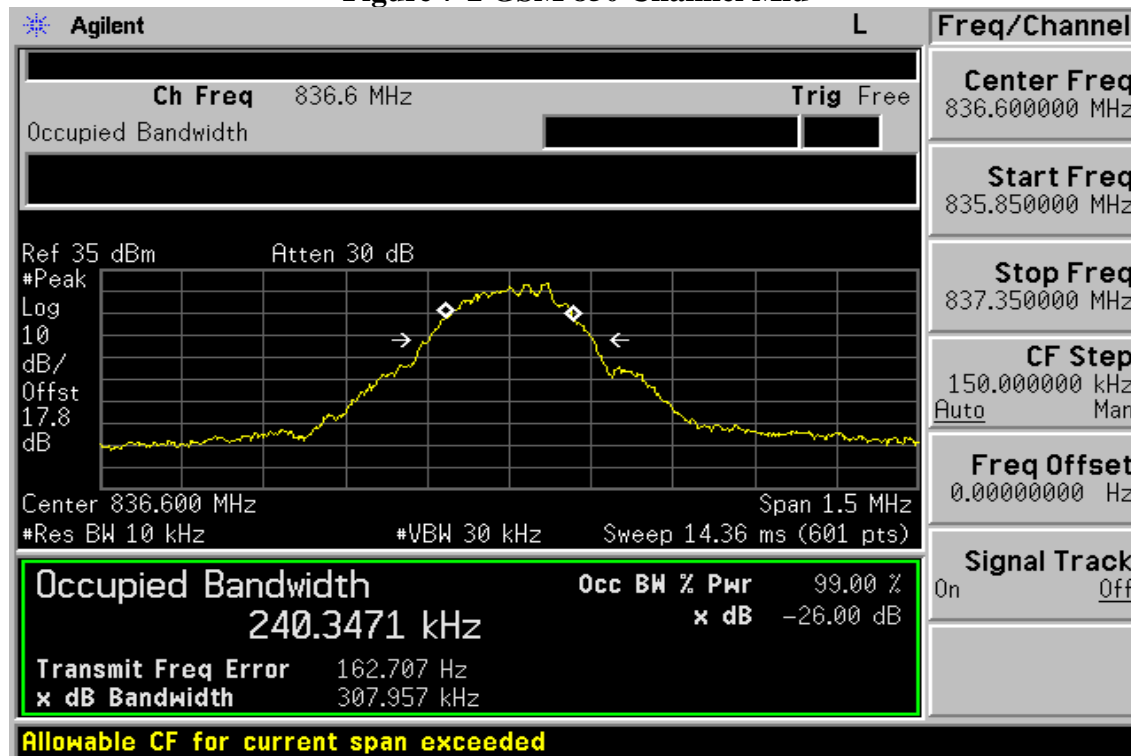


Figure 7-2 GSM 850 Channel Mid



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Figure 7-3: GSM 850 Channel High

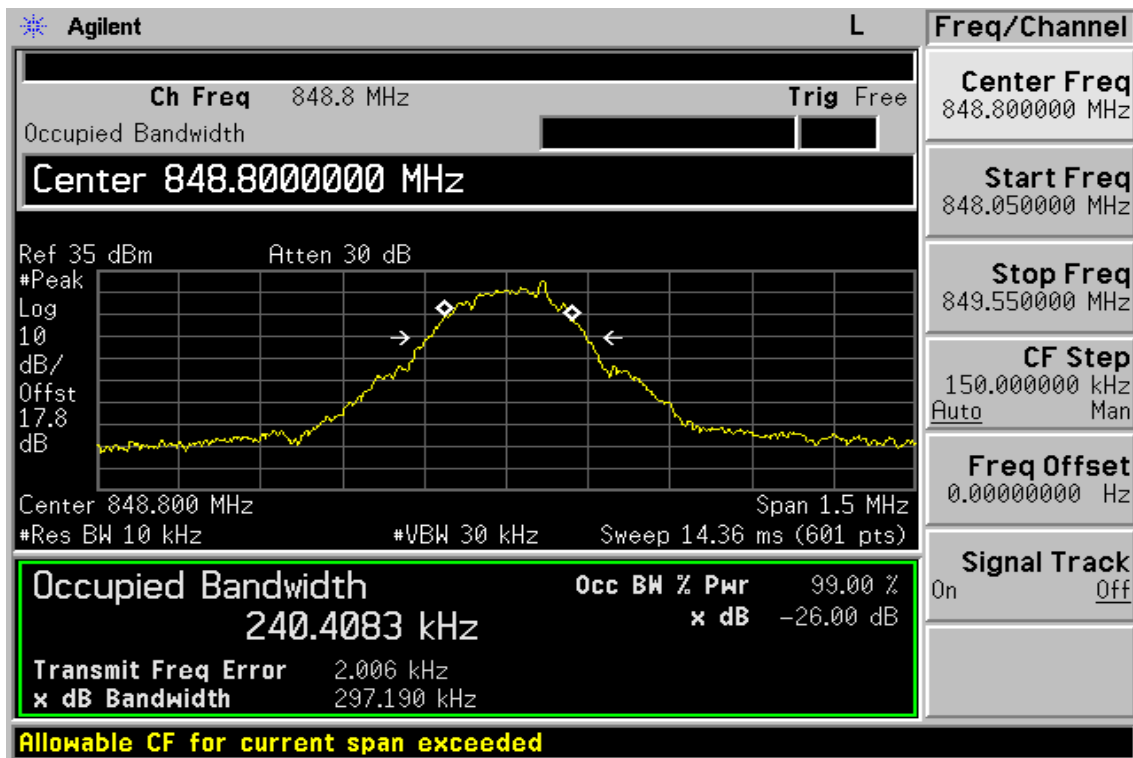
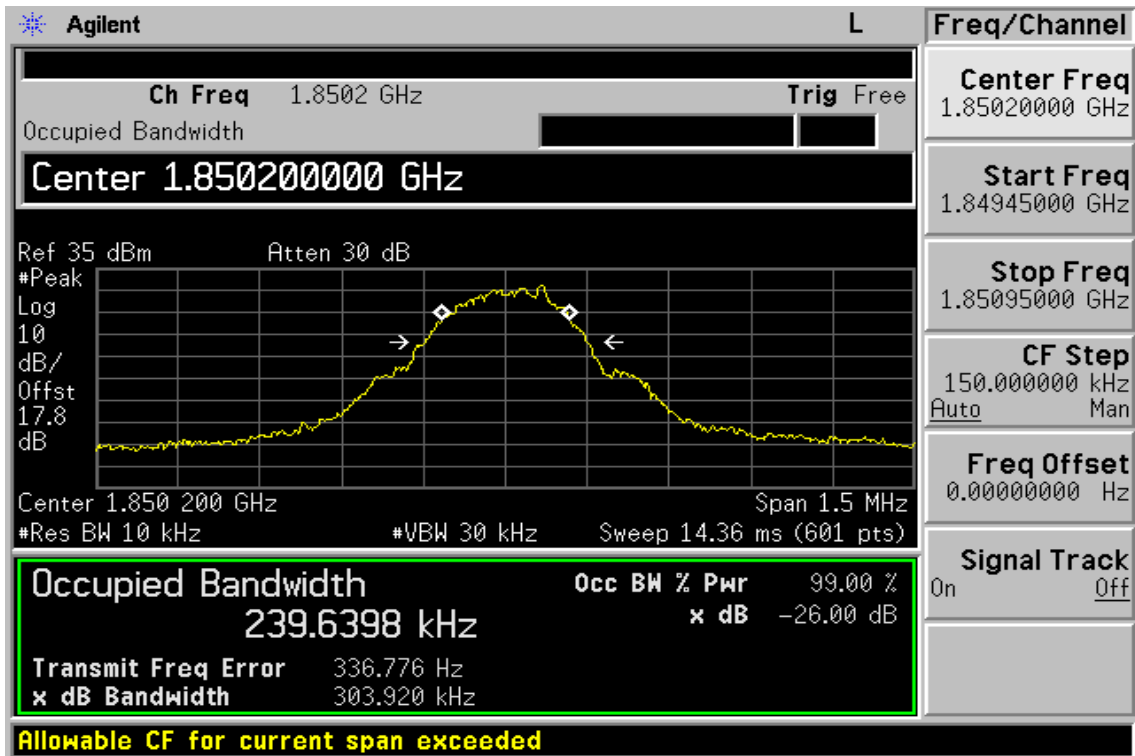


Figure 7-4: GSM 1900 Channel Low



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Figure 7-5 GSM 1900 Channel Mid

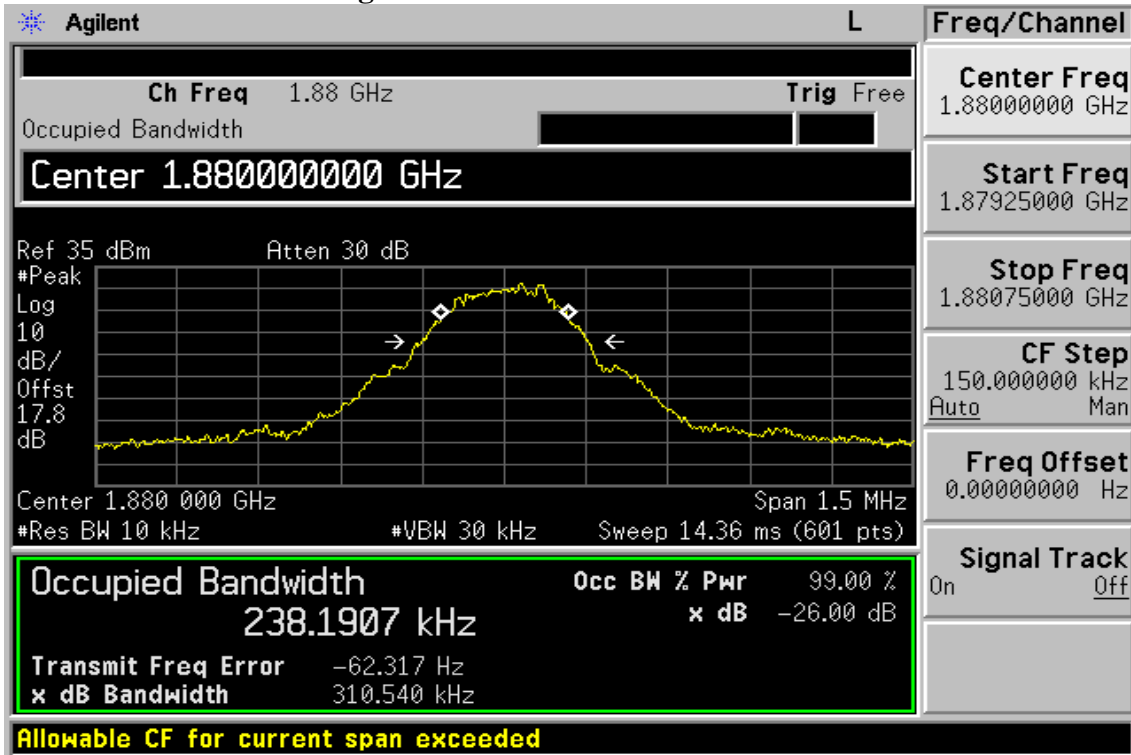
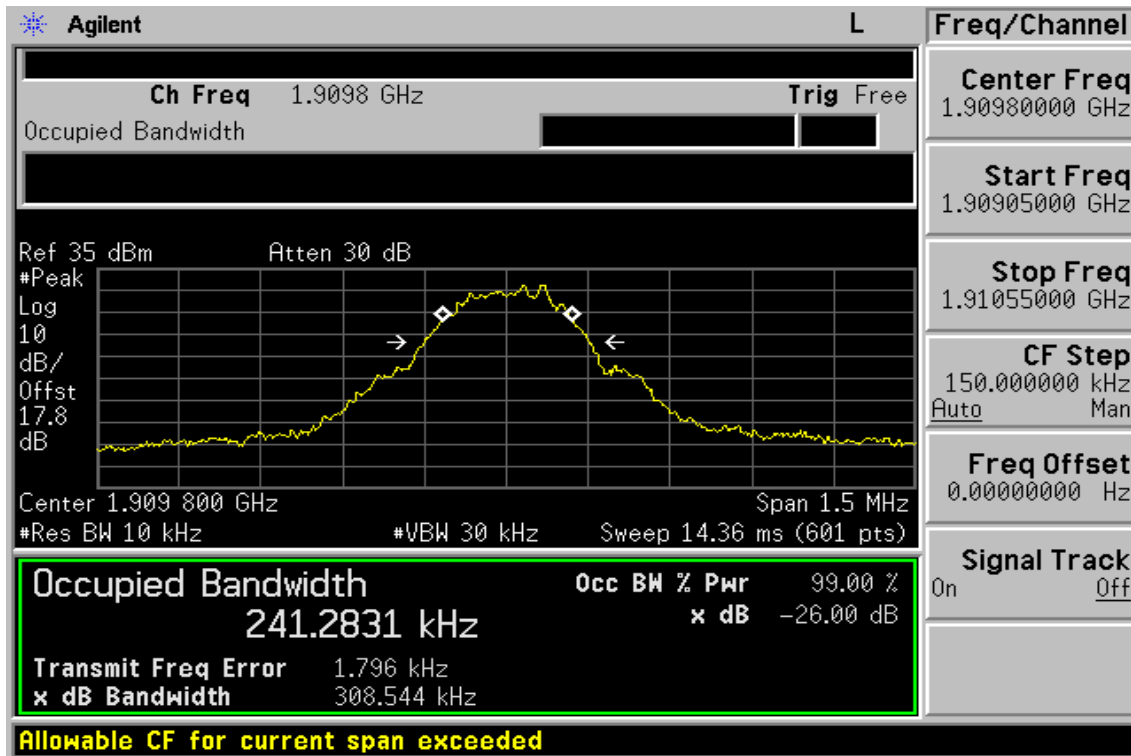


Figure 7-6: GSM 1900 Channel High



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Figure 7-7: EDGE 850 Channel Low

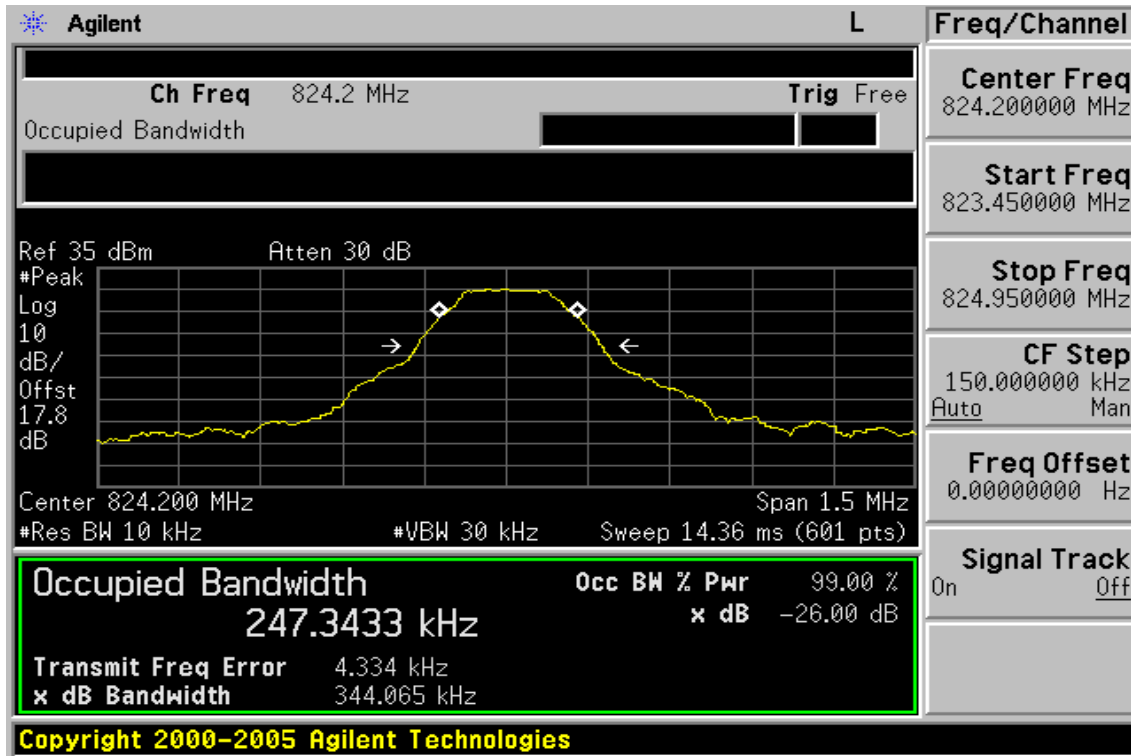
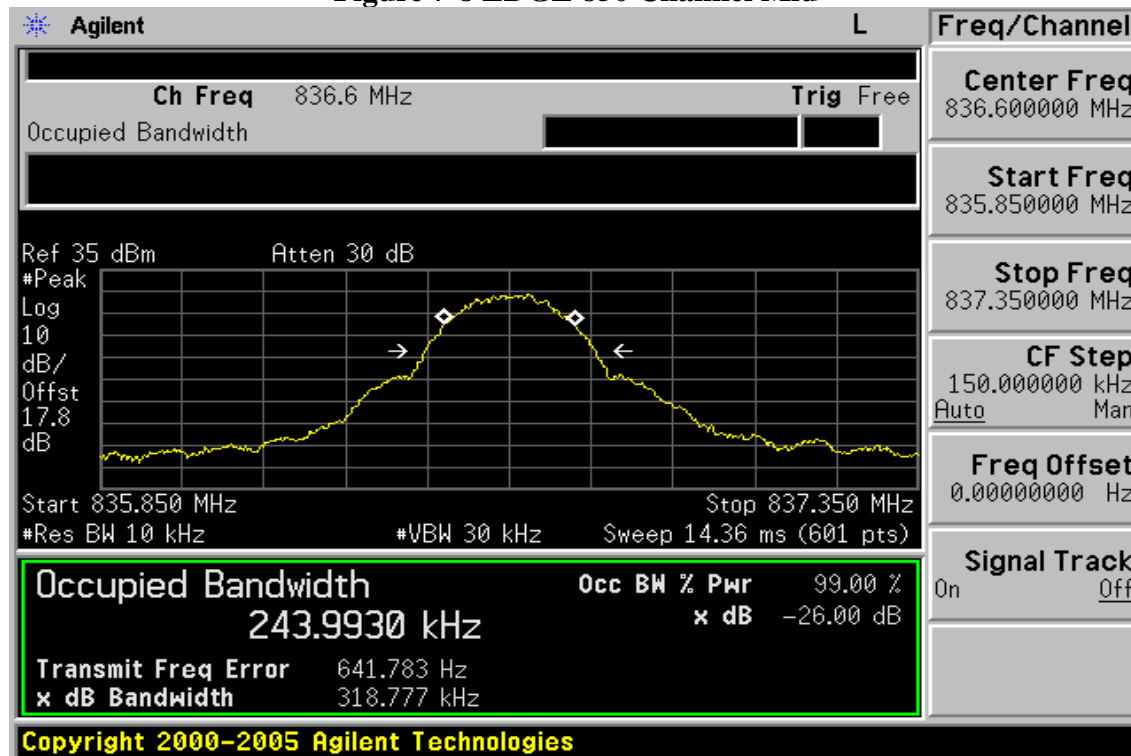


Figure 7-8 EDGE 850 Channel Mid



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Figure 7-9: EDGE 850 Channel High

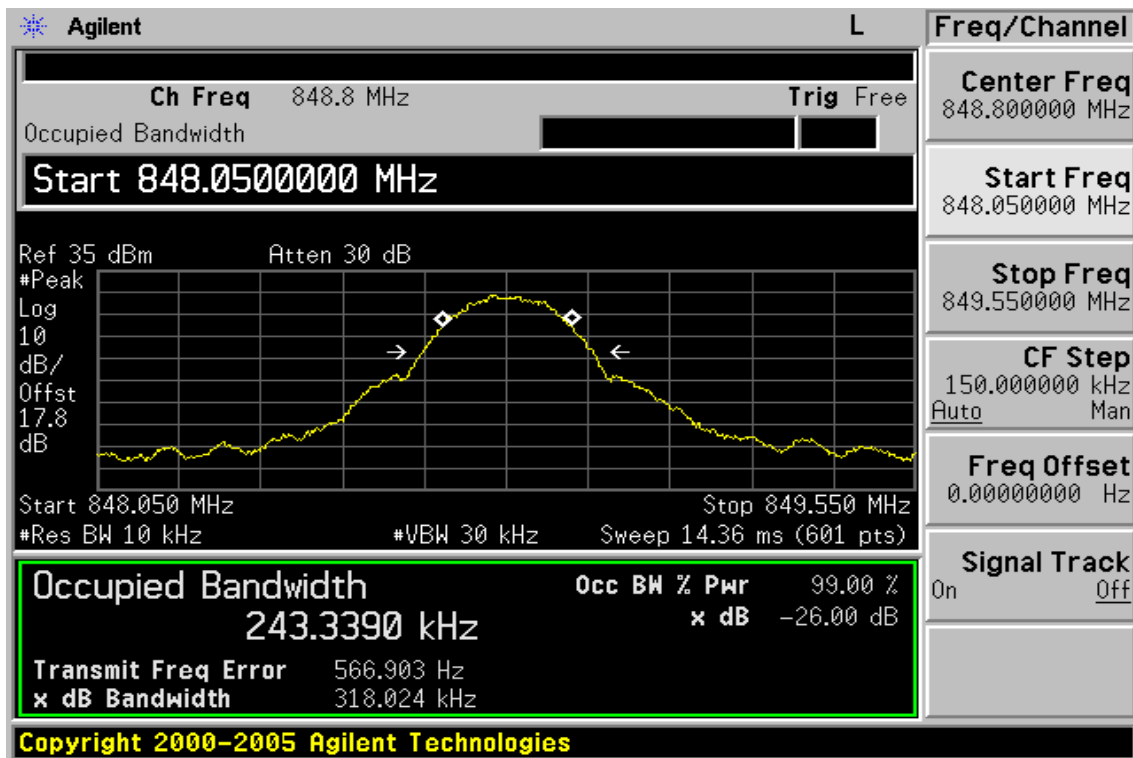
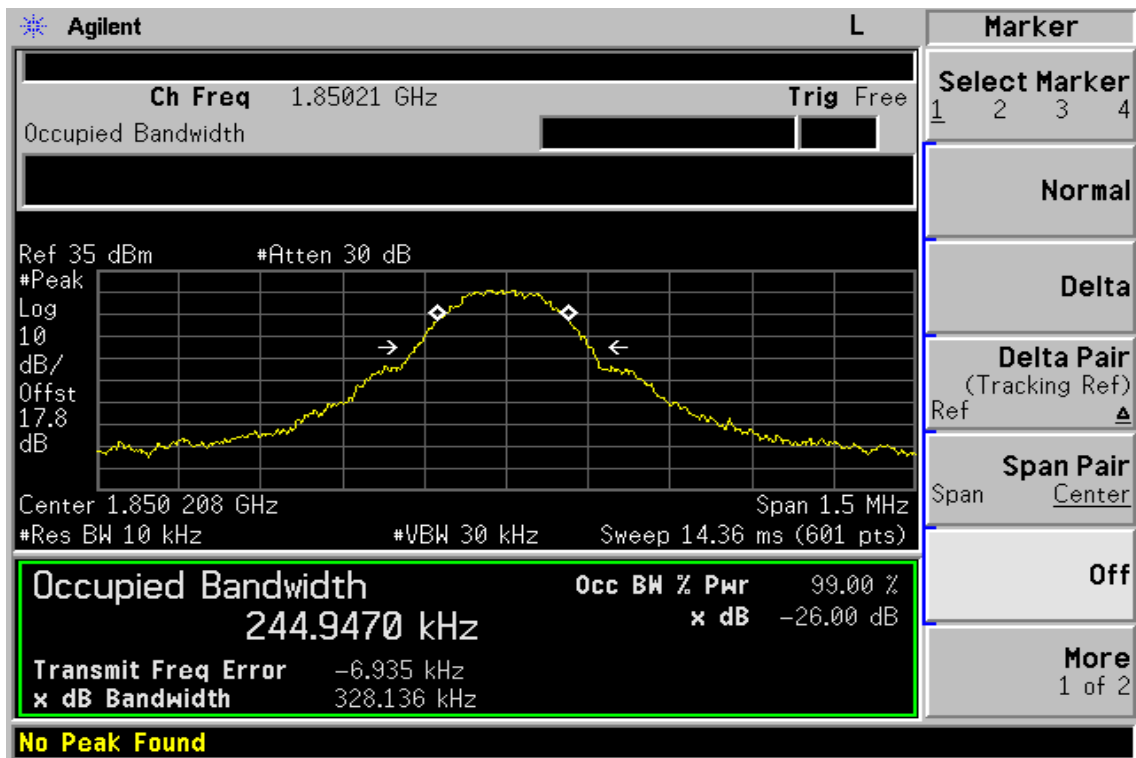


Figure 7-10: EDGE 1900 Channel Low



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Figure 7-11 EDGE 1900 Channel Mid

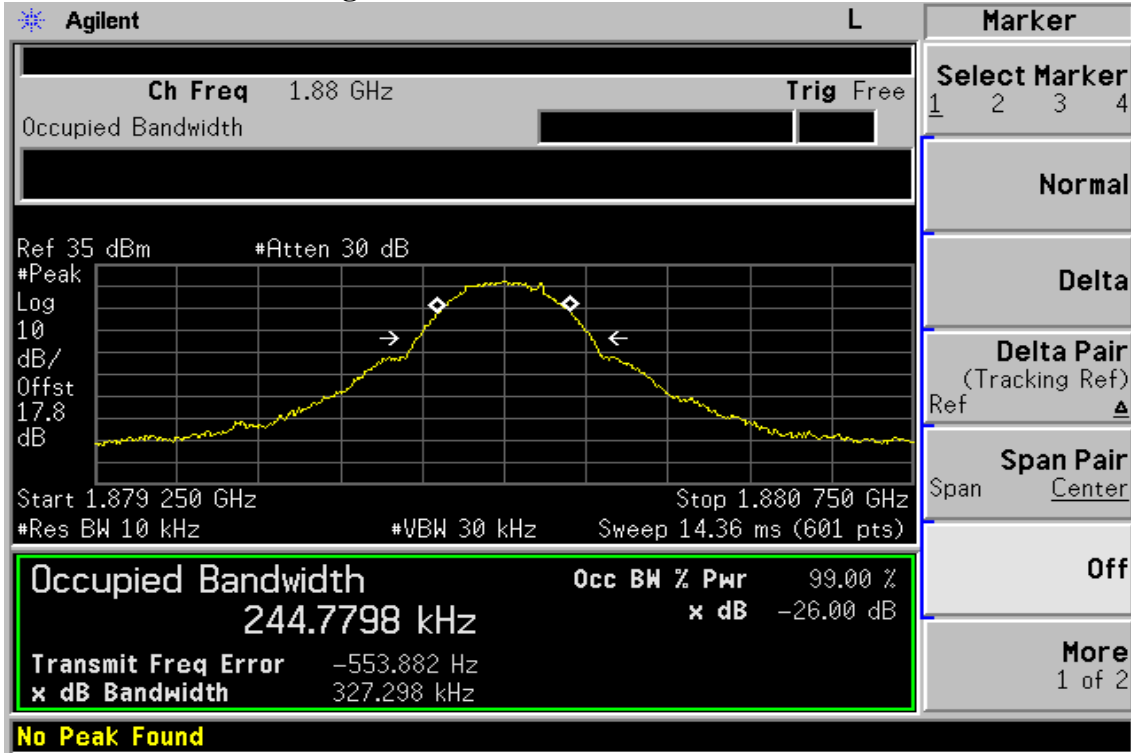
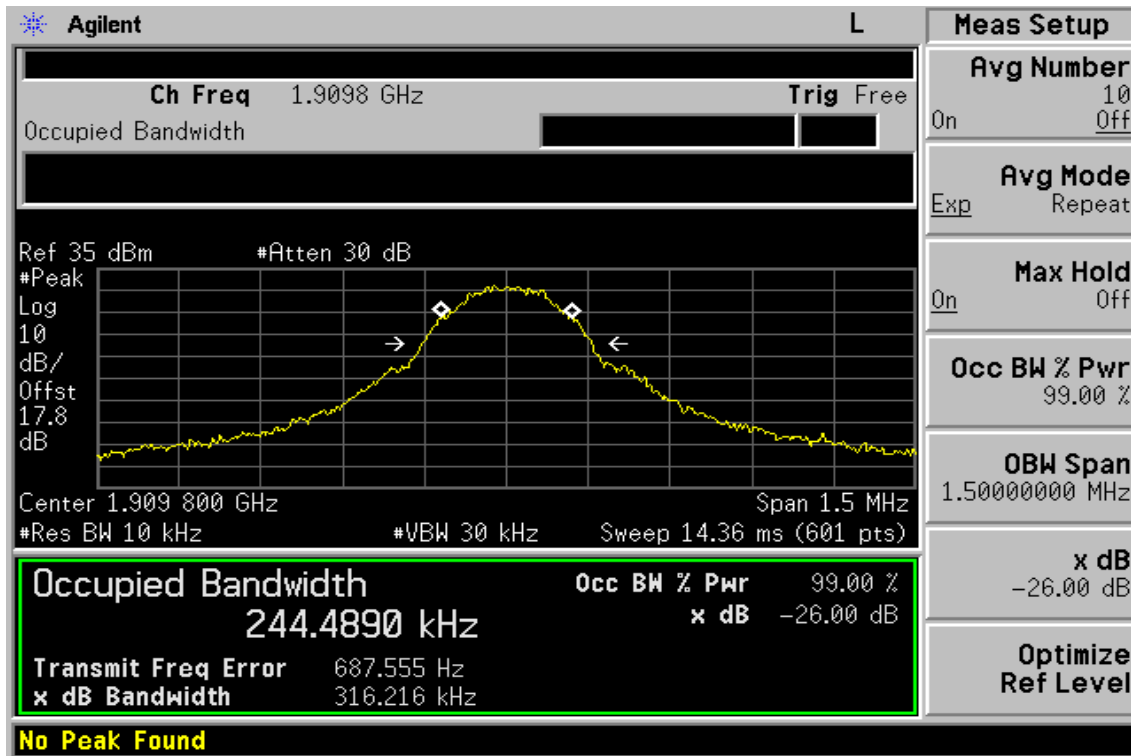


Figure 7-12: EDGE 1900 Channel High



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Figure 7-13: WCDMA Band V 850 Channel Low

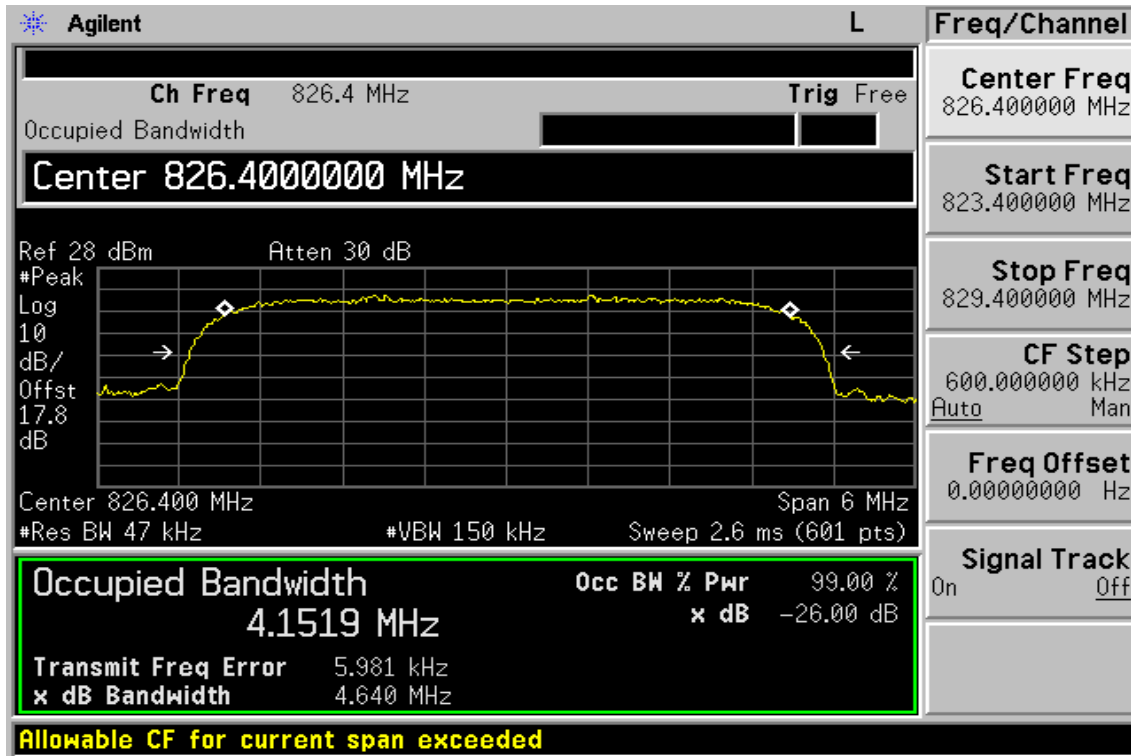
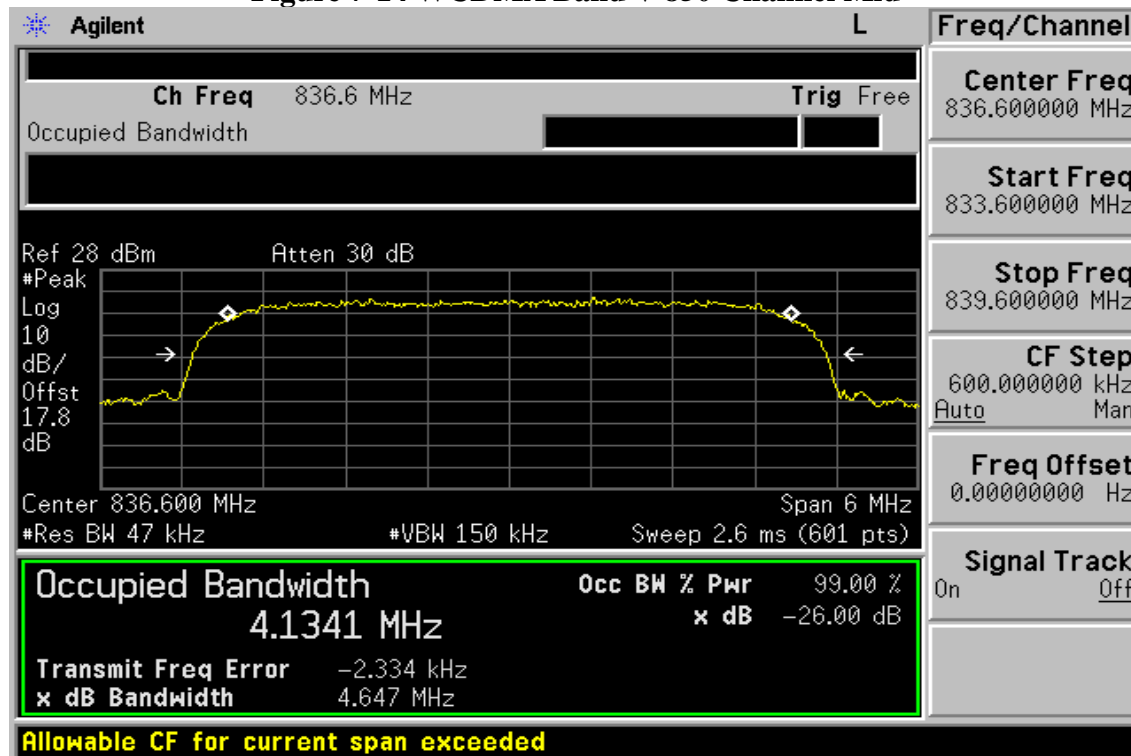


Figure 7-14 WCDMA Band V 850 Channel Mid



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Figure 7-15: WCDMA Band V 850 Channel High

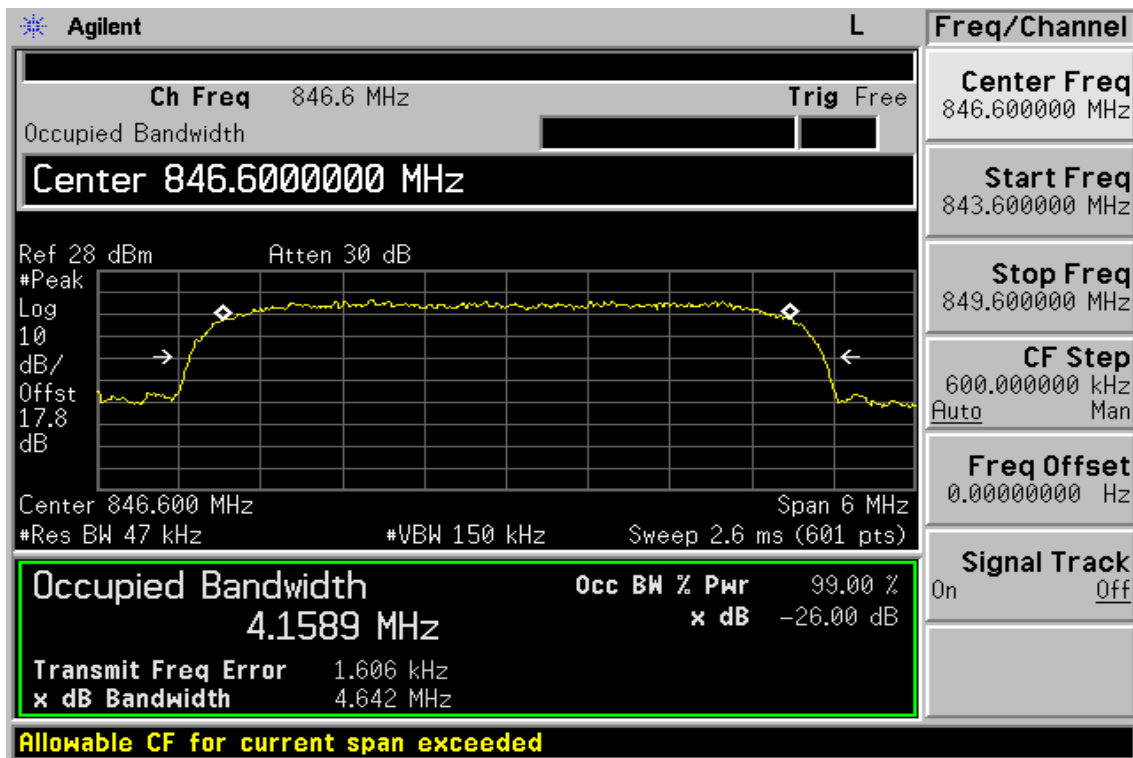
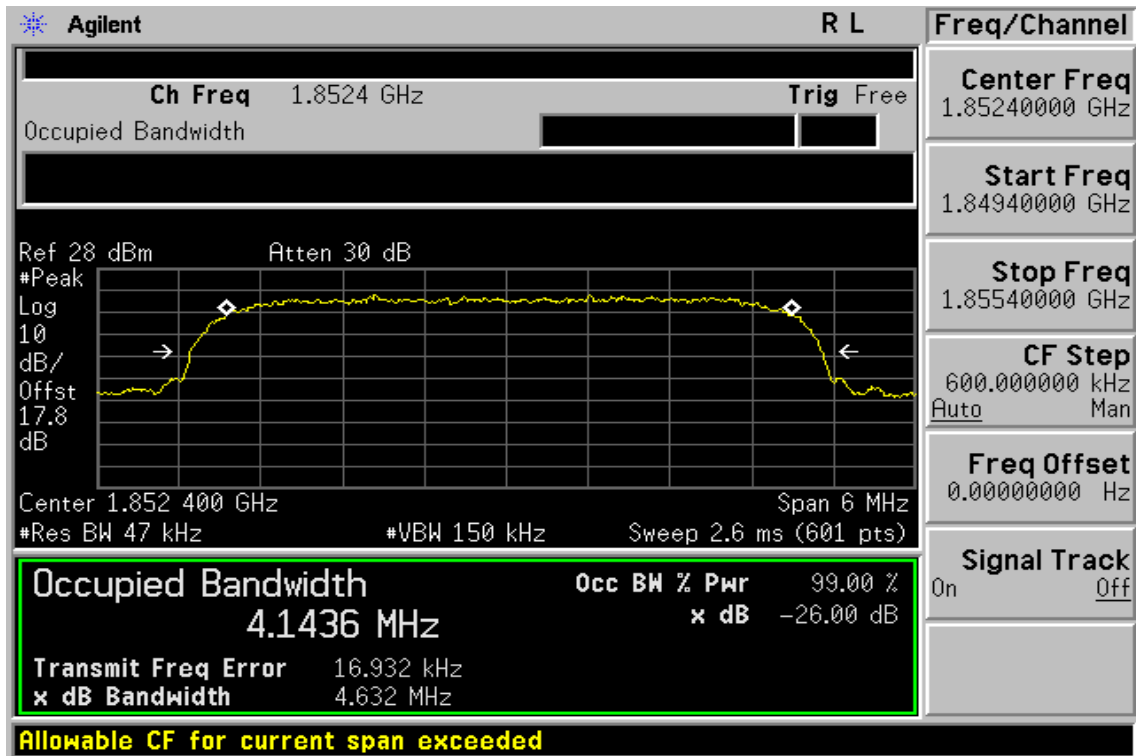


Figure 7-16: WCDMA Band II 1900 Channel Low



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Figure 7-17 WCDMA Band II 1900 Channel Mid

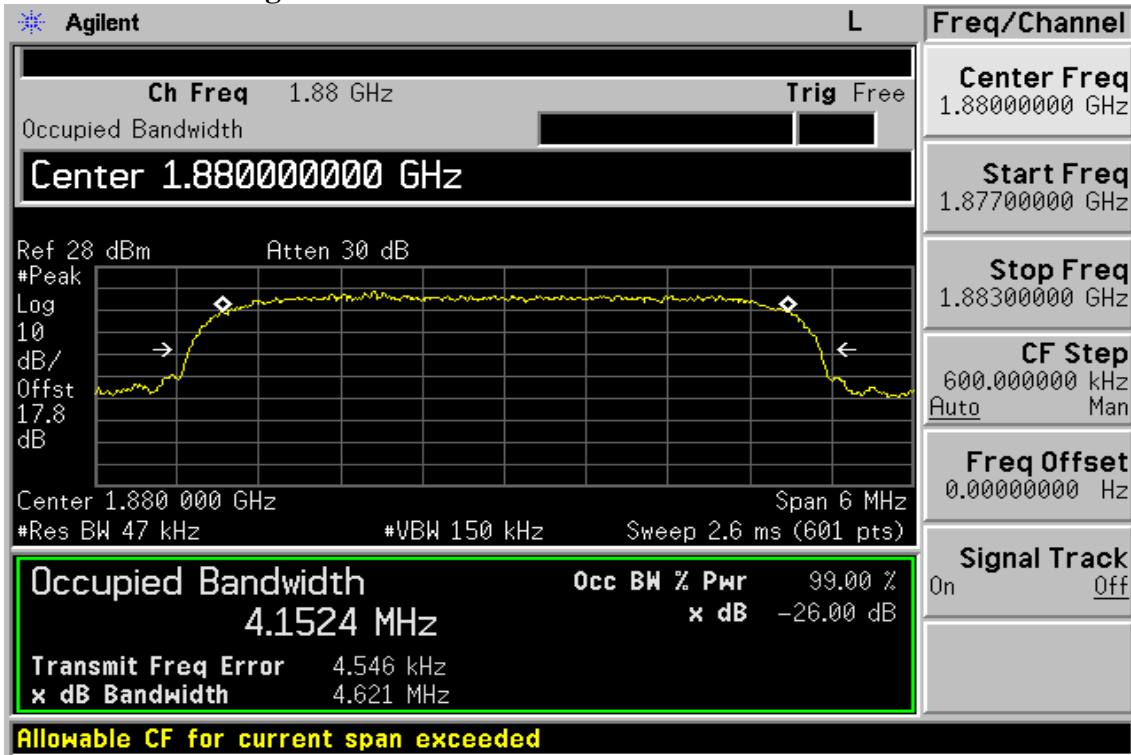
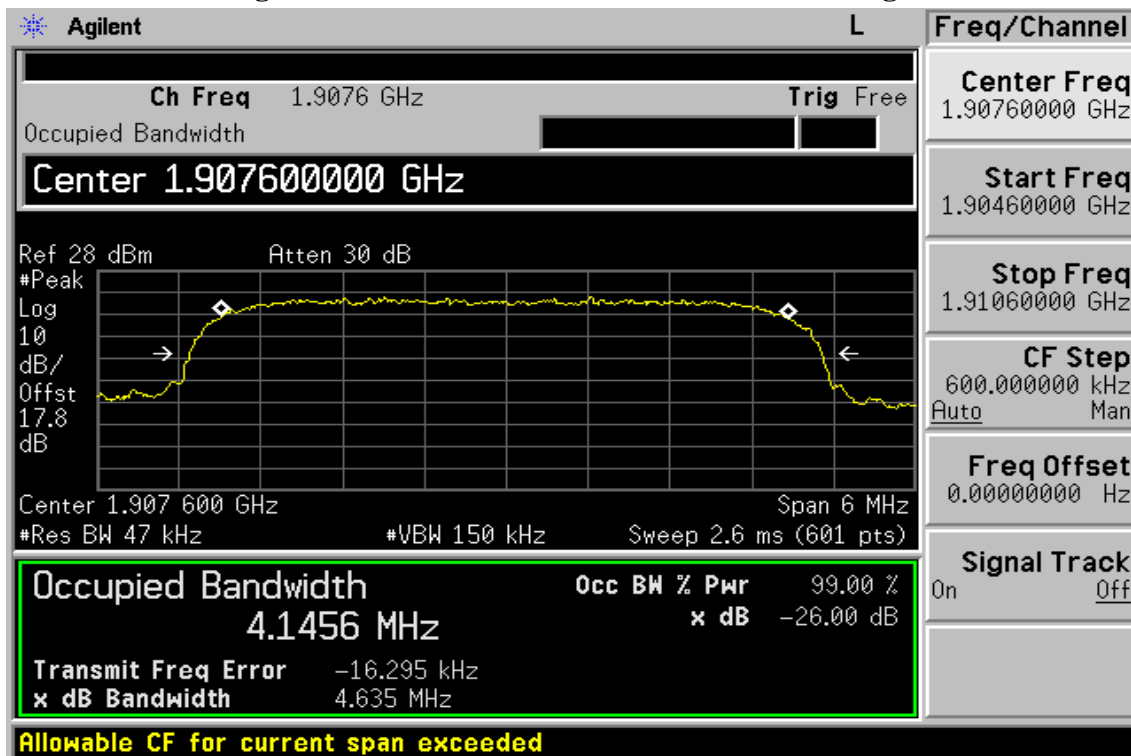


Figure 7-18: WCDMA Band II 1900 Channel High



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8. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

8.1. 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)

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

According to RSS-133 §6.5

6.5.1 Out-of-Block Emissions

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

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

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

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

6.5.2 Out-of-Sub-band Emissions

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

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According to RSS-132 §4.5

4.5.1 Out-of-block Emissions

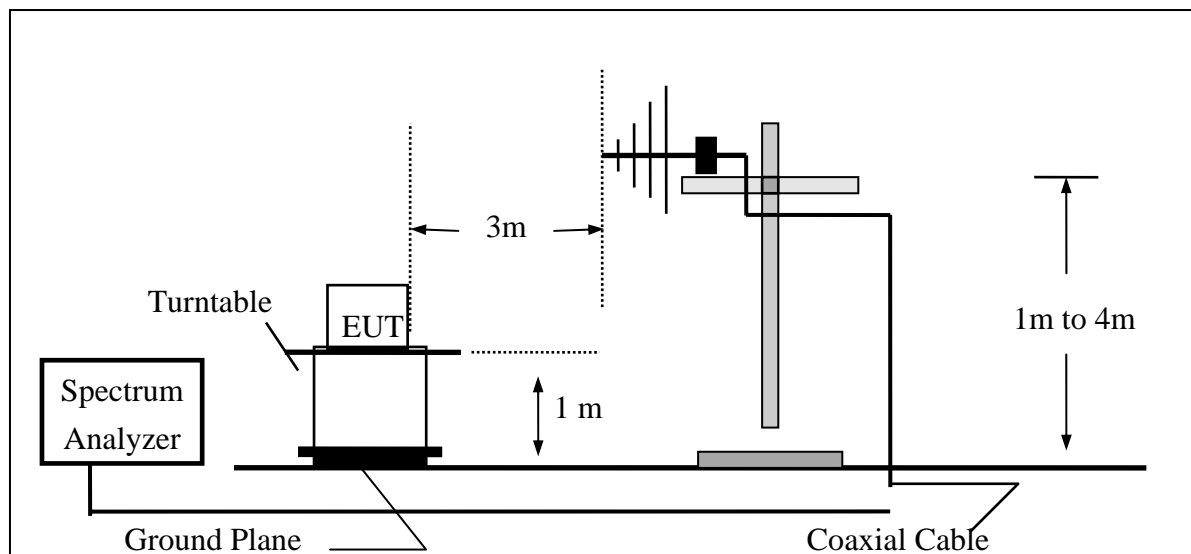
Mobile and base station equipment with emission bandwidth less than or equal to 4 MHz shall comply with 4.5.1.1. Mobile station equipment with emission bandwidth greater than 4 MHz shall comply with 4.5.1.2. Base station equipment with emission bandwidth greater than 4 MHz shall comply with either 4.5.1.2 or 4.5.1.3.

4.5.1.1 In the first 1.0 MHz band immediately outside and adjacent to the licensee's frequency block, the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least $43 + 10 \log (P)$, dB. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least $43 + 10 \log (P)$, dB, in any 100 kHz bandwidth.

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

8.2. EUT Setup (Block Diagram of Configuration)

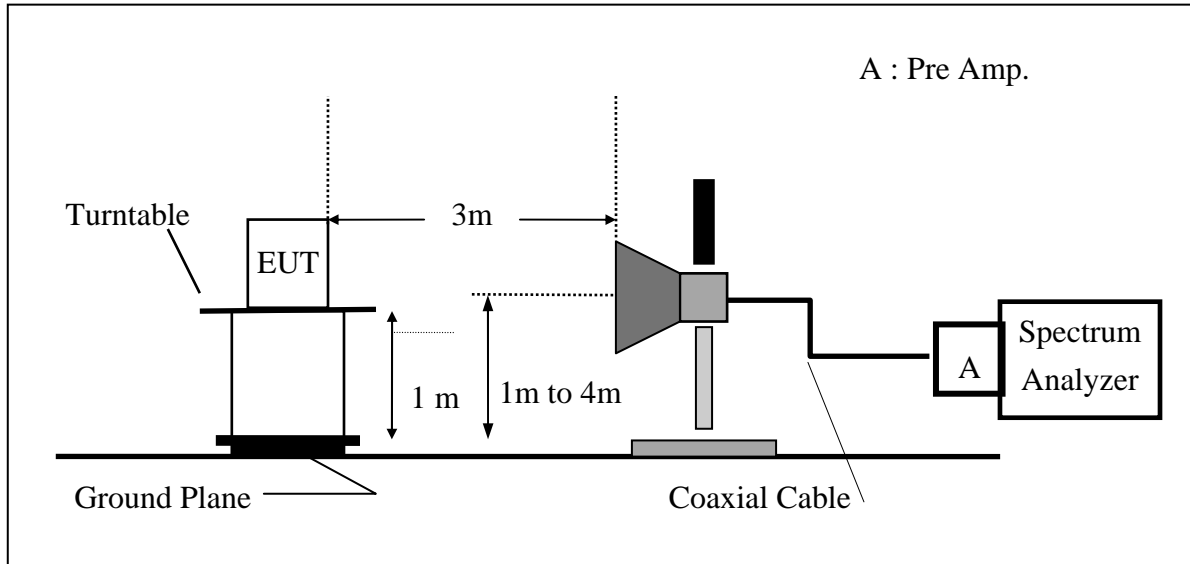
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



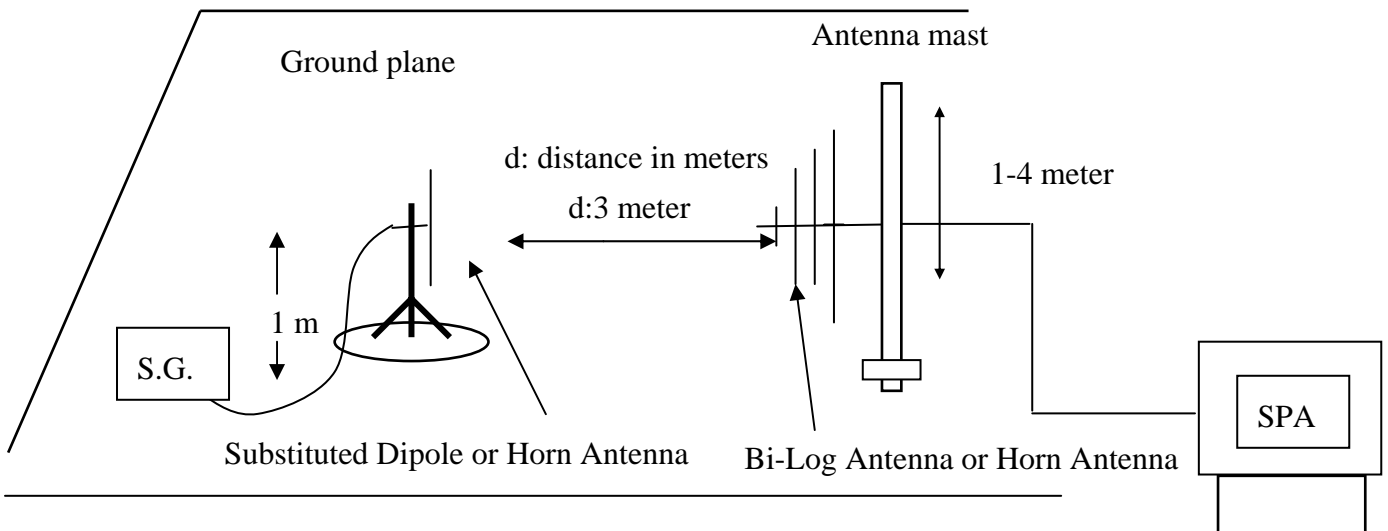
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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8.3. 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.

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. And Peak detector was used during this test.

When 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.

ERP was 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 was measured using a substitution method. The EUT was replaced by or 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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8.4. Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2007	08/26/2008
Bi-log Antenna	SCHWAZBECK	VULB9160	3224	11/14/2007	11/13/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2007	08/15/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2008	02/25/2009
Signal Generator	R&S	SMR40	100210	02/09/2008	02/10/2009
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	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2007	10/08/2008
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2007	10/06/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2007	10/13/2008
Dipole Antenna	SCHWAZBECK	VHAP	908/909	06/10/2006	06/09/2008
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/10/2006	06/09/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	N/A	08/16/2007	08/15/2008

8.5. Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Low Mode Test Date: May. 16, 2008
Fundamental Frequency : 824.20 MHz Test By: Sky
Temperature : 25 Pol: Ver
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
213.33	51.37	V	-50.36	-7.85	1.68	-59.89	-13.00	-46.89
240.49	50.88	V	-50.09	-7.88	1.91	-59.87	-13.00	-46.87
266.68	47.28	V	-53.05	-7.90	1.99	-62.93	-13.00	-49.93
368.53	46.04	V	-51.20	-7.65	2.45	-61.30	-13.00	-48.30
453.89	41.13	V	-53.49	-7.70	2.58	-63.77	-13.00	-50.77
824.00	74.29	V	-13.04	-7.87	3.64	-24.56	-13.00	-11.56
1648.40	49.90	V	-57.14	9.29	5.06	-52.91	-13.00	-39.91
2463.00	58.59	V	-45.53	10.08	6.28	-41.74	-13.00	-28.74
3296.80	---	V		12.17	7.26		-13.00	
4121.00	37.46	V	-62.32	12.61	8.33	-58.03	-13.00	-45.03
4945.20	---	V		12.65	9.19		-13.00	
5769.40	---	V		13.55	9.80		-13.00	
6593.60	---	V		12.05	10.61		-13.00	
7417.80	---	V		11.49	11.28		-13.00	
8242.00	---	V		11.48	12.26		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Low Mode Test Date: May. 16, 2008
Fundamental Frequency : 824.20 MHz Test By: Sky
Temperature : 25 Pol: Hor
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
216.24	54.45	H	-47.06	-7.86	1.70	-56.61	-13.00	-43.61
240.49	49.42	H	-51.65	-7.88	1.91	-61.44	-13.00	-48.44
266.68	47.30	H	-53.17	-7.90	1.99	-63.06	-13.00	-50.06
368.53	51.91	H	-44.95	-7.65	2.45	-55.05	-13.00	-42.05
431.58	39.79	H	-55.96	-7.69	2.51	-66.15	-13.00	-53.15
824.00	81.36	H	-6.30	-7.87	3.64	-17.82	-13.00	-4.82
1648.40	58.38	H	-48.63	9.29	5.06	-44.40	-13.00	-31.40
2463.00	51.51	H	-52.60	10.08	6.28	-48.81	-13.00	-35.81
3296.80	---	H		12.17	7.26		-13.00	
4121.00	39.02	H	-60.63	12.61	8.33	-56.34	-13.00	-43.34
4945.20	---	H		12.65	9.19		-13.00	
5769.40	---	H		13.55	9.80		-13.00	
6593.60	---	H		12.05	10.61		-13.00	
7417.80	---	H		11.49	11.28		-13.00	
8242.00	---	H		11.48	12.26		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Mid Mode	Test Date:	May. 16, 2008
Fundamental Frequency	: 836.60 MHz	Test By:	Sky
Temperature	: 25	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
240.49	51.39	V	-49.58	-7.88	1.91	-59.36	-13.00	-46.36
266.68	45.54	V	-54.79	-7.90	1.99	-64.67	-13.00	-51.67
368.53	47.04	V	-50.20	-7.65	2.45	-60.30	-13.00	-47.30
453.89	41.68	V	-52.94	-7.70	2.58	-63.22	-13.00	-50.22
499.48	37.63	V	-56.98	-7.72	2.73	-67.43	-13.00	-54.43
1673.20	49.37	V	-57.66	9.36	5.10	-53.40	-13.00	-40.40
2498.00	61.19	V	-42.72	10.06	6.33	-38.99	-13.00	-25.99
3346.40	---	V		12.28	7.29		-13.00	
4183.00	36.96	V	-62.60	12.62	8.40	-58.38	-13.00	-45.38
5019.60	---	V		12.67	9.26		-13.00	
5856.20	---	V		13.68	9.85		-13.00	
6692.80	---	V		11.95	10.74		-13.00	
7529.40	---	V		11.45	11.35		-13.00	
8366.00	---	V		11.59	12.43		-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 (dB/dBi) – Cable loss (dB)
- 5 Peak detector was used during test.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid Mode Test Date: May. 16, 2008
Fundamental Frequency : 836.60 MHz Test By: Sky
Temperature : 25 Pol: Hor
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
218.18	51.99	H	-49.48	-7.86	1.72	-59.06	-13.00	-46.06
240.49	49.58	H	-51.49	-7.88	1.91	-61.28	-13.00	-48.28
264.74	46.48	H	-54.04	-7.90	1.99	-63.92	-13.00	-50.92
368.53	52.17	H	-44.69	-7.65	2.45	-54.79	-13.00	-41.79
431.58	38.97	H	-56.78	-7.69	2.51	-66.97	-13.00	-53.97
1673.20	55.21	H	-51.79	9.36	5.10	-47.52	-13.00	-34.52
2498.00	58.33	H	-45.58	10.06	6.33	-41.85	-13.00	-28.85
2509.80	---	H		10.09	6.35		-13.00	
3346.40	44.72	H	-57.60	12.28	7.29	-52.62	-13.00	-39.62
4183.00	---	H		12.62	8.40		-13.00	
5019.60	---	H		12.67	9.26		-13.00	
5856.20	---	H		13.68	9.85		-13.00	
6692.80	---	H		11.95	10.74		-13.00	
7529.40	---	H		11.45	11.35		-13.00	
8366.00	---	H		11.59	12.43		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High Mode Test Date: May. 16, 2008
Fundamental Frequency : 848.80 MHz Test By: Sky
Temperature : 25 Pol: Ver
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
240.49	51.47	V	-49.50	-7.88	1.91	-59.28	-13.00	-46.28
298.69	43.10	V	-56.51	-7.92	1.99	-66.41	-13.00	-53.41
368.53	48.58	V	-48.66	-7.65	2.45	-58.76	-13.00	-45.76
453.89	41.71	V	-52.91	-7.70	2.58	-63.19	-13.00	-50.19
499.48	37.62	V	-56.99	-7.72	2.73	-67.44	-13.00	-54.44
850.00	77.49	V	-9.22	-7.88	3.75	-20.85	-13.00	-7.85
1697.60	55.27	V	-51.75	9.44	5.14	-47.46	-13.00	-34.46
2533.00	64.23	V	-39.59	10.16	6.38	-35.81	-13.00	-22.81
2546.40	---	V		10.20	6.40		-13.00	
3395.20	---	V		12.38	7.33		-13.00	
4244.00	38.29	V	-61.06	12.63	8.46	-56.89	-13.00	-43.89
5092.80	---	V		12.74	9.32		-13.00	
5941.60	---	V		13.81	9.89		-13.00	
6790.40	---	V		11.86	10.87		-13.00	
7639.20	---	V		11.40	11.48		-13.00	
8488.00	---	V		11.70	12.59		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High Mode Test Date: May. 16, 2008
Fundamental Frequency : 848.80 MHz Test By: Sky
Temperature : 25 Pol: Hor
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
216.24	53.02	H	-48.49	-7.86	1.70	-58.04	-13.00	-45.04
252.13	47.87	H	-52.98	-7.89	1.99	-62.85	-13.00	-49.85
298.69	43.46	H	-56.18	-7.92	1.99	-66.09	-13.00	-53.09
368.53	52.22	H	-44.64	-7.65	2.45	-54.74	-13.00	-41.74
455.83	38.17	H	-57.05	-7.70	2.58	-67.34	-13.00	-54.34
850.00	79.42	H	-7.57	-7.88	3.75	-19.20	-13.00	-6.20
1697.60	55.69	H	-51.29	9.44	5.14	-47.00	-13.00	-34.00
2533.00	62.31	H	-41.50	10.16	6.38	-37.73	-13.00	-24.73
2546.40	---	H		10.20	6.40		-13.00	
3395.20	---	H		12.38	7.33		-13.00	
4244.00	40.15	H	-59.04	12.63	8.46	-54.87	-13.00	-41.87
5092.80	---	H		12.74	9.32		-13.00	
5941.60	---	H		13.81	9.89		-13.00	
6790.40	---	H		11.86	10.87		-13.00	
7639.20	---	H		11.40	11.48		-13.00	
8488.00	---	H		11.70	12.59		-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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$
- 5 Peak detector was used during test.

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Low Mode Test Date May. 16, 2008
 Fundamental Frequency : 1850.20MHz Test By: Sky
 Temperature : 25 Pol: Ver
 Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
240.49	51.19	V	-49.78	-7.88	1.91	-59.56	-13.00	-46.56
266.68	45.27	V	-55.06	-7.90	1.99	-64.94	-13.00	-51.94
368.53	46.47	V	-50.77	-7.65	2.45	-60.87	-13.00	-47.87
455.83	44.20	V	-50.42	-7.70	2.58	-60.70	-13.00	-47.70
499.48	39.35	V	-55.26	-7.72	2.73	-65.71	-13.00	-52.71
1850.00	76.55	V	-30.41	9.90	5.41	-25.92	-13.00	-12.92
3700.40	52.41	V	-49.17	12.61	7.73	-44.29	-13.00	-31.29
5550.60	41.86	V	-53.35	13.23	9.68	-49.81	-13.00	-36.81
7400.80	---	V		11.50	11.28		-13.00	
9251.00	---	V		11.92	13.10		-13.00	
11101.20	---	V		11.66	14.33		-13.00	
12951.40	---	V		13.63	15.98		-13.00	
14801.60	---	V		12.76	17.27		-13.00	
16651.80	---	V		15.92	19.04		-13.00	
18502.00	---	V		18.75	21.21		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Low Mode Test Date May. 16, 2008
Fundamental Frequency : 1850.20MHz Test By: Sky
Temperature : 25 Pol: Hor
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
216.24	51.72	H	-49.79	-7.86	1.70	-59.34	-13.00	-46.34
240.49	48.90	H	-52.17	-7.88	1.91	-61.96	-13.00	-48.96
368.53	52.45	H	-44.41	-7.65	2.45	-54.51	-13.00	-41.51
455.83	40.10	H	-55.12	-7.70	2.58	-65.41	-13.00	-52.41
613.49	39.22	H	-52.07	-7.80	2.96	-62.82	-13.00	-49.82
1850.00	78.20	H	-28.69	9.90	5.41	-24.20	-13.00	-11.20
3700.40	44.21	H	-57.15	12.61	7.73	-52.27	-13.00	-39.27
5550.60	47.22	H	-47.91	13.23	9.68	-44.36	-13.00	-31.36
7400.80	---	H		11.50	11.28		-13.00	
9251.00	---	H		11.92	13.10		-13.00	
11101.20	---	H		11.66	14.33		-13.00	
12951.40	---	H		13.63	15.98		-13.00	
14801.60	---	H		12.76	17.27		-13.00	
16651.80	---	H		15.92	19.04		-13.00	
18502.00	---	H		18.75	21.21		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Mid Mode	Test Date	May. 16, 2008
Fundamental Frequency	: 1880MHz	Test By	Sky
Temperature	: 25	Pol	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
240.49	51.70	V	-49.27	-7.88	1.91	-59.05	-13.00	-46.05
266.68	46.13	V	-54.20	-7.90	1.99	-64.08	-13.00	-51.08
368.53	47.77	V	-49.47	-7.65	2.45	-59.57	-13.00	-46.57
455.83	44.68	V	-49.94	-7.70	2.58	-60.22	-13.00	-47.22
497.54	37.08	V	-57.53	-7.72	2.72	-67.97	-13.00	-54.97
3760.00	42.41	V	-58.89	12.60	7.82	-54.11	-13.00	-41.11
5640.00	41.89	V	-53.07	13.36	9.73	-49.44	-13.00	-36.44
7520.00	---	V		11.45	11.33		-13.00	
9400.00	---	V		11.93	13.15		-13.00	
11280.00	---	V		11.92	14.56		-13.00	
13160.00	---	V		13.33	16.11		-13.00	
15040.00	---	V		13.76	17.57		-13.00	
16920.00	---	V		15.27	19.66		-13.00	
18800.00	---	V		18.68	21.34		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Mid Mode	Test Date	May. 16, 2008
Fundamental Frequency	: 1880MHz	Test By	Sky
Temperature	: 25	Pol	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
213.33	51.47	H	-50.09	-7.85	1.68	-59.62	-13.00	-46.62
240.49	48.91	H	-52.16	-7.88	1.91	-61.95	-13.00	-48.95
368.53	52.46	H	-44.40	-7.65	2.45	-54.50	-13.00	-41.50
455.53	39.82	H	-55.41	-7.70	2.58	-65.70	-13.00	-52.70
613.94	39.43	H	-51.84	-7.80	2.96	-62.60	-13.00	-49.60
3760.00	43.22	H	-57.89	12.60	7.82	-53.10	-13.00	-40.10
5640.00	44.54	H	-50.35	13.36	9.73	-46.72	-13.00	-33.72
7520.00	---	H		11.45	11.33		-13.00	
9400.00	---	H		11.93	13.15		-13.00	
11280.00	---	H		11.92	14.56		-13.00	
13160.00	---	H		13.33	16.11		-13.00	
15040.00	---	H		13.76	17.57		-13.00	
16920.00	---	H		15.27	19.66		-13.00	
18800.00	---	H		18.68	21.34		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH High Mode	Test Date	May. 16, 2008
Fundamental Frequency	: 1909.8 MHz	Test By	Sky
Temperature	: 25	Pol	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
240.49	51.29	V	-49.68	-7.88	1.91	-59.46	-13.00	-46.46
266.68	44.94	V	-55.39	-7.90	1.99	-65.27	-13.00	-52.27
368.53	47.91	V	-49.33	-7.65	2.45	-59.43	-13.00	-46.43
453.89	44.35	V	-50.27	-7.70	2.58	-60.55	-13.00	-47.55
644.98	35.87	V	-54.57	-7.81	2.99	-65.37	-13.00	-52.37
1910.00	77.06	V	-29.88	10.08	5.51	-25.31	-13.00	-12.31
3981.60	41.23	V	-59.05	12.60	8.17	-54.63	-13.00	-41.63
5972.40	43.51	V	-50.51	13.86	9.91	-46.56	-13.00	-33.56
7963.20	---	V		11.27	11.88		-13.00	
9954.00	---	V		12.08	13.43		-13.00	
11944.80	---	V		13.08	15.21		-13.00	
13935.60	---	V		11.82	16.86		-13.00	
15926.40	---	V		17.08	18.33		-13.00	
17917.20	---	V		9.63	20.12		-13.00	
19908.00	---	V		18.88	20.85		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH High Mode	Test Date	May. 16, 2008
Fundamental Frequency	: 1909.8 MHz	Test By	Sky
Temperature	: 25	Pol	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
213.33	51.64	H	-49.92	-7.85	1.68	-59.45	-13.00	-46.45
240.49	49.14	H	-51.93	-7.88	1.91	-61.72	-13.00	-48.72
368.53	51.69	H	-45.17	-7.65	2.45	-55.27	-13.00	-42.27
613.94	38.96	H	-52.31	-7.80	2.96	-63.07	-13.00	-50.07
676.99	40.60	H	-49.40	-7.84	3.17	-60.41	-13.00	-47.41
1910.00	80.75	H	-26.10	10.08	5.51	-21.54	-13.00	-8.54
3981.60	38.97	H	-61.21	12.60	8.17	-56.78	-13.00	-43.78
5972.40	37.26	H	-56.75	13.86	9.91	-52.80	-13.00	-39.80
7963.20	---	H		11.27	11.88		-13.00	
9954.00	---	H		12.08	13.43		-13.00	
11944.80	---	H		13.08	15.21		-13.00	
13935.60	---	H		11.82	16.86		-13.00	
15926.40	---	H		17.08	18.33		-13.00	
17917.20	---	H		9.63	20.12		-13.00	
19908.00	---	H		18.88	20.85		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

Operation Mode	: TX CH Low Mode	Test Date:	May. 16, 2008
Fundamental Frequency	: 1852.40MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
167.74	48.66	V	-50.54	-7.81	1.50	-59.86	-13.00	-46.86
216.24	49.00	V	-52.65	-7.86	1.70	-62.20	-13.00	-49.20
240.49	48.69	V	-52.28	-7.88	1.91	-62.06	-13.00	-49.06
1850.00	72.29	V	-34.67	9.90	5.41	-30.18	-13.00	-17.18
3704.80	37.11	V	-64.45	12.61	7.73	-59.58	-13.00	-46.58
5557.20	---	V		13.24	9.69		-13.00	
7409.60	---	V		11.49	11.28		-13.00	
9262.00	---	V		11.92	13.10		-13.00	
11114.40	---	V		11.68	14.35		-13.00	
12966.80	---	V		13.62	16.00		-13.00	
14819.20	---	V		12.83	17.30		-13.00	
16671.60	---	V		15.87	19.09		-13.00	
18524.00	---	V		18.74	21.22		-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 (dB/dBi) – Cable loss (dB)
- 5 Peak detector was used during test.

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Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

Operation Mode : TX CH Low Mode Test Date: May. 16, 2008
Fundamental Frequency : 1852.40MHz Test By: Sky
Temperature : 25°C Pol: Hor
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
216.24	51.97	H	-49.54	-7.86	1.70	-59.09	-13.00	-46.09
252.13	48.74	H	-52.11	-7.89	1.99	-61.98	-13.00	-48.98
368.53	54.89	H	-41.97	-7.65	2.45	-52.07	-13.00	-39.07
1850.00	69.75	H	-37.14	9.90	5.41	-32.65	-13.00	-19.65
3704.80	36.43	H	-64.91	12.61	7.73	-60.04	-13.00	-47.04
5557.20	---	H		13.24	9.69		-13.00	
7409.60	---	H		11.49	11.28		-13.00	
9262.00	---	H		11.92	13.10		-13.00	
11114.40	---	H		11.68	14.35		-13.00	
12966.80	---	H		13.62	16.00		-13.00	
14819.20	---	H		12.83	17.30		-13.00	
16671.60	---	H		15.87	19.09		-13.00	
18524.00	---	H		18.74	21.22		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

Operation Mode	: TX CH Mid Mode	Test Date:	May. 16, 2008
Fundamental Frequency	: 1880MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
216.24	48.49	V	-53.16	-7.86	1.70	-62.71	-13.00	-49.71
240.49	48.07	V	-52.90	-7.88	1.91	-62.68	-13.00	-49.68
368.53	47.59	V	-49.65	-7.65	2.45	-59.75	-13.00	-46.75
3760.00	37.55	V	-63.75	12.60	7.82	-58.97	-13.00	-45.97
5640.00	---	V		13.36	9.73		-13.00	
7520.00	---	V		11.45	11.33		-13.00	
9400.00	---	V		11.93	13.15		-13.00	
11280.00	---	V		11.92	14.56		-13.00	
13160.00	---	V		13.33	16.11		-13.00	
15040.00	---	V		13.76	17.57		-13.00	
16920.00	---	V		15.27	19.66		-13.00	
18800.00	---	V		18.68	21.34		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

Operation Mode	: TX CH Mid Mode	Test Date:	May. 16, 2008
Fundamental Frequency	: 1880MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
216.24	51.73	H	-49.78	-7.86	1.70	-59.33	-13.00	-46.33
252.13	49.69	H	-51.16	-7.89	1.99	-61.03	-13.00	-48.03
368.53	54.37	H	-42.49	-7.65	2.45	-52.59	-13.00	-39.59
3760.00	36.70	H	-64.41	12.60	7.82	-59.62	-13.00	-46.62
5640.00	---	H		13.36	9.73		-13.00	
7520.00	---	H		11.45	11.33		-13.00	
9400.00	---	H		11.93	13.15		-13.00	
11280.00	---	H		11.92	14.56		-13.00	
13160.00	---	H		13.33	16.11		-13.00	
15040.00	---	H		13.76	17.57		-13.00	
16920.00	---	H		15.27	19.66		-13.00	
18800.00	---	H		18.68	21.34		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

Operation Mode	: TX CH High Mode	Test Date:	May. 16, 2008
Fundamental Frequency	: 1907.6 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBUV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
240.49	48.17	V	-52.80	-7.88	1.91	-62.58	-13.00	-49.58
337.49	39.44	V	-58.91	-7.71	2.35	-68.97	-13.00	-55.97
368.53	49.62	V	-47.62	-7.65	2.45	-57.72	-13.00	-44.72
1910.00	73.33	V	-33.52	10.08	5.51	-28.96	-13.00	-15.96
3815.20	52.82	V	-48.23	12.60	7.91	-43.54	-13.00	-30.54
5722.80	---	V		13.48	9.78		-13.00	
7630.40	---	V		11.41	11.47		-13.00	
9538.00	---	V		11.95	13.21		-13.00	
11445.60	---	V		12.15	14.77		-13.00	
13353.20	---	V		13.00	16.21		-13.00	
15260.80	---	V		14.91	17.86		-13.00	
17168.40	---	V		14.53	19.76		-13.00	
19076.00	---	V		18.65	21.37		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

Operation Mode : TX CH High Mode Test Date: May. 16, 2008
 Fundamental Frequency : 1907.6 MHz Test By: Sky
 Temperature : 25°C Pol: Hor
 Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant. Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
216.24	52.26	H	-49.25	-7.86	1.70	-58.80	-13.00	-45.80
368.53	52.53	H	-44.33	-7.65	2.45	-54.43	-13.00	-41.43
431.58	40.46	H	-55.29	-7.69	2.51	-65.48	-13.00	-52.48
1910.00	65.28	H	-41.57	10.08	5.51	-37.01	-13.00	-24.01
3815.20	51.53	H	-49.35	12.60	7.91	-44.65	-13.00	-31.65
5722.80	---	H		13.48	9.78		-13.00	
7630.40	---	H		11.41	11.47		-13.00	
9538.00	---	H		11.95	13.21		-13.00	
11445.60	---	H		12.15	14.77		-13.00	
13353.20	---	H		13.00	16.21		-13.00	
15260.80	---	H		14.91	17.86		-13.00	
17168.40	---	H		14.53	19.76		-13.00	
19076.00	---	H		18.65	21.37		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

Operation Mode : TX CH Low Mode Test Date: May. 16, 2008
Fundamental Frequency : 826.4MHz Test By: Sky
Temperature : 25°C Pol: Ver
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
216.24	48.65	V	-53.00	-7.86	1.70	-62.55	-13.00	-49.55
240.49	48.82	V	-52.15	-7.88	1.91	-61.93	-13.00	-48.93
368.53	45.23	V	-52.01	-7.65	2.45	-62.11	-13.00	-49.11
824.00	65.29	V	-22.04	-7.87	3.64	-33.56	-13.00	-20.56
1652.80	40.59	V	-66.45	9.30	5.06	-62.21	-13.00	-49.21
2479.20	49.78	V	-54.24	10.07	6.31	-50.48	-13.00	-37.48
3305.60	---	V		12.19	7.26		-13.00	
4132.00	---	V		12.62	8.34		-13.00	
4958.40	---	V		12.65	9.20		-13.00	
5784.80	---	V		13.58	9.81		-13.00	
6611.20	---	V		12.03	10.63		-13.00	
7437.60	---	V		11.48	11.29		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

Operation Mode : TX CH Low Mode Test Date: May. 16, 2008
Fundamental Frequency : 826.4MHz Test By: Sky
Temperature : 25°C Pol: Hor
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
216.24	50.91	H	-50.60	-7.86	1.70	-60.15	-13.00	-47.15
240.49	48.72	H	-52.35	-7.88	1.91	-62.14	-13.00	-49.14
368.53	53.84	H	-43.02	-7.65	2.45	-53.12	-13.00	-40.12
824.00	63.69	H	-23.97	-7.87	3.64	-35.49	-13.00	-22.49
1652.80	35.69	H	-71.32	9.30	5.06	-67.08	-13.00	-54.08
2479.20	47.35	H	-56.67	10.07	6.31	-52.90	-13.00	-39.90
3305.60	---	H		12.19	7.26		-13.00	
4132.00	---	H		12.62	8.34		-13.00	
4958.40	---	H		12.65	9.20		-13.00	
5784.80	---	H		13.58	9.81		-13.00	
6611.20	---	H		12.03	10.63		-13.00	
7437.60	---	H		11.48	11.29		-13.00	
8264.00	---	H		11.50	12.29		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

Operation Mode : TX CH Mid Mode Test Date: May. 16, 2008
Fundamental Frequency : 836.0MHz Test By: Sky
Temperature : 25°C Pol: Ver
Humidity : 65%

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
216.24	48.98	V	-52.67	-7.86	1.70	-62.22	-13.00	-49.22
240.49	48.75	V	-52.22	-7.88	1.91	-62.00	-13.00	-49.00
264.74	45.97	V	-54.40	-7.90	1.99	-64.28	-13.00	-51.28
1693.20	41.32	V	-65.70	9.42	5.13	-61.41	-13.00	-48.41
2539.80	52.19	V	-51.61	10.18	6.39	-47.83	-13.00	-34.83
3344.00	---	V		12.27	7.29		-13.00	
4180.00	---	V		12.62	8.39		-13.00	
5016.00	---	V		12.67	9.25		-13.00	
5852.00	---	V		13.68	9.84		-13.00	
7524.00	---	V		11.45	11.34		-13.00	
8360.00	---	V		11.58	12.42		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

Operation Mode : TX CH Mid Mode Test Date: May. 16, 2008
Fundamental Frequency : 836.0MHz Test By: Sky
Temperature : 25°C Pol: Hor
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
216.24	52.38	H	-49.13	-7.86	1.70	-58.68	-13.00	-45.68
240.49	49.92	H	-51.15	-7.88	1.91	-60.94	-13.00	-47.94
368.53	53.61	H	-43.25	-7.65	2.45	-53.35	-13.00	-40.35
1693.20	39.52	H	-67.46	9.42	5.13	-63.17	-13.00	-50.17
2539.80	47.39	H	-56.41	10.18	6.39	-52.62	-13.00	-39.62
3344.00	---	H		12.27	7.29		-13.00	
4180.00	---	H		12.62	8.39		-13.00	
5016.00	---	H		12.67	9.25		-13.00	
5852.00	---	H		13.68	9.84		-13.00	
6688.00	---	H		11.96	10.73		-13.00	
7524.00	---	H		11.45	11.34		-13.00	
8360.00	---	H		11.58	12.42		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

Operation Mode	: TX CH High Mode	Test Date:	May. 16, 2008
Fundamental Frequency	: 846.6 MHz	Test By:	Sky
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
216.24	48.99	V	-52.66	-7.86	1.70	-62.21	-13.00	-49.21
240.49	48.85	V	-52.12	-7.88	1.91	-61.90	-13.00	-48.90
368.53	46.17	V	-51.07	-7.65	2.45	-61.17	-13.00	-48.17
850.00	62.48	V	-24.23	-7.88	3.75	-35.86	-13.00	-22.86
1693.20	40.69	V	-66.33	9.42	5.13	-62.04	-13.00	-49.04
2539.80	52.75	V	-51.05	10.18	6.39	-47.27	-13.00	-34.27
3386.40	---	V		12.36	7.32		-13.00	
4233.00	---	V		12.63	8.45		-13.00	
5079.60	---	V		12.73	9.31		-13.00	
5926.20	---	V		13.79	9.88		-13.00	
6772.80	---	V		11.87	10.84		-13.00	
7619.40	---	V		11.41	11.46		-13.00	
8466.00	---	V		11.68	12.56		-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 (dB/dBi) – Cable loss (dB)
- 5 Peak detector was used during test.

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Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

Operation Mode : TX CH High Mode Test Date: May. 16, 2008
 Fundamental Frequency : 846.60 MHz Test By: Sky
 Temperature : 25°C Pol: Hor
 Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
216.24	51.89	H	-49.62	-7.86	1.70	-59.17	-13.00	-46.17
252.13	48.27	H	-52.58	-7.89	1.99	-62.45	-13.00	-49.45
368.53	52.99	H	-43.87	-7.65	2.45	-53.97	-13.00	-40.97
850.00	63.25	H	-23.74	-7.88	3.75	-35.37	-13.00	-22.37
1693.20	36.25	H	-70.73	9.42	5.13	-66.44	-13.00	-53.44
2539.80	49.06	H	-54.74	10.18	6.39	-50.95	-13.00	-37.95
3386.40	---	H		12.36	7.32		-13.00	
4233.00	---	H		12.63	8.45		-13.00	
5079.60	---	H		12.73	9.31		-13.00	
5926.20	---	H		13.79	9.88		-13.00	
6772.80	---	H		11.87	10.84		-13.00	
7619.40	---	H		11.41	11.46		-13.00	
8466.00	---	H		11.68	12.56		-13.00	

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

Remark :

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

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9 SPURIOUS RADIATED EMISSION TEST (RX)

9.1 Standard Applicable

According to §6.7, all spurious emissions shall comply with the limits of Table 2. The resolution bandwidth of the spectrum analyzer shall be 100 kHz for spurious emissions measurements below 1.0 GHz, and 1.0 MHz for measurements above 1.0 GHz.

Frequency (MHz)	Field strength $\mu\text{V/m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V/m}$
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

9.2 EUT Setup

1. The radiated emission tests were performed in the 3 meter open-test site, using the setup in accordance with the ANSI C63.4-2003.
2. The EUT was put in the front of the test table. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The spacing between the peripherals was 10 centimeters.
4. External I/O cables were draped along the edge of the test table and bundle when necessary.
5. The host was connected with 110Vac/60Hz power source.

9.3 Measurement Procedure

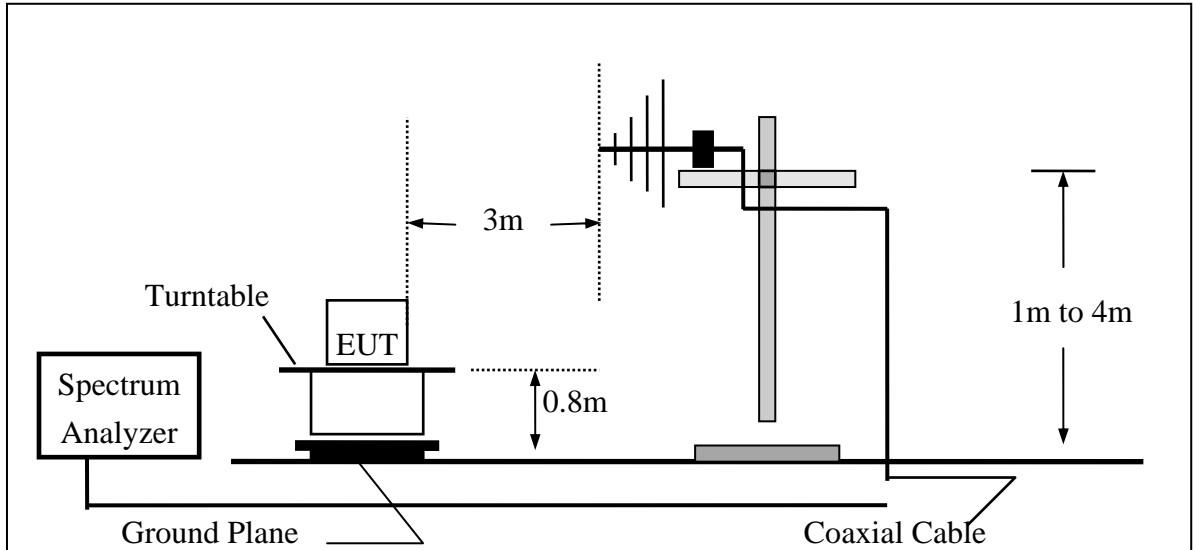
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Repeat above procedures until all frequency measured were complete.

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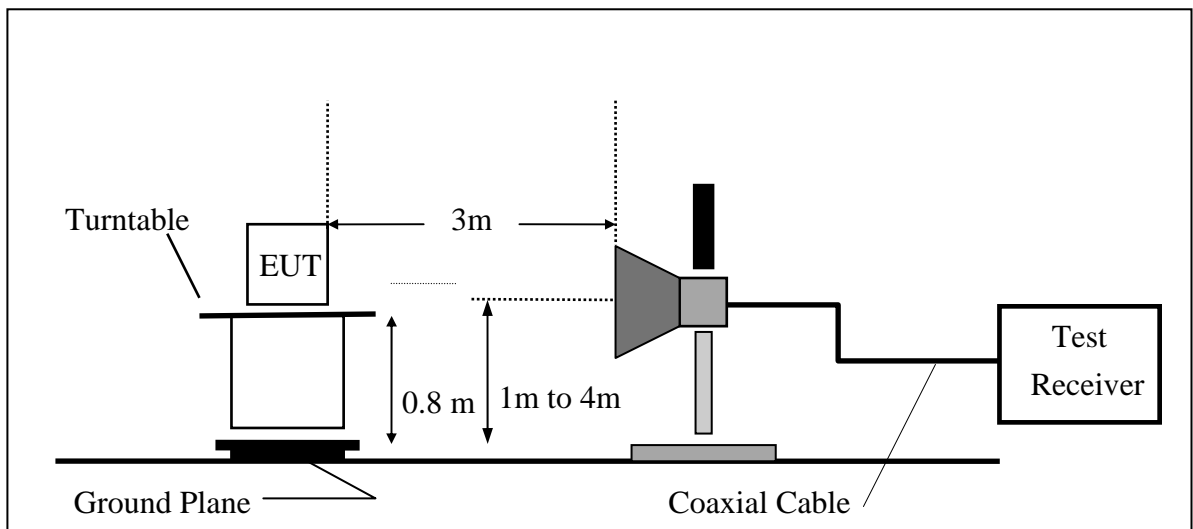
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9.4 Test SET-UP (Block Diagram of Configuration)

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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



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9.5 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Communication Test	R&S	CMU200	N/A	N/A	N/A
Bi-log Antenna	SCHWAZBECK	VULB9160	3224	11/17/2007	11/16/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2007	08/15/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2007	02/25/2008
Signal Generator	R&S	SMR40	100210	02/09/2007	02/10/2008
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	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2007	10/08/2008
Site NSA	SGS	966 chamber	N/A	10/02/2006	10/01/2008
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2007	09/22/2008
Dipole Antenna	SCHWAZBECK	VHAP	908/909	06/09/2007	06/10/2008
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/09/2007	06/10/2008

9.6 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

9.7 Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	GSM850 H Plan CH High (worst case)	Test Date	May. 16, 2008
Fundamental Frequency	N/A	Test By	Sky
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
128.94	V	Peak	59.12	-16.87	42.25	43.50	-1.25
308.39	V	Peak	54.42	-12.36	42.06	46.00	-3.94
308.39	H	Peak	60.49	-17.16	43.33	46.00	-2.67
363.68	H	Peak	53.11	-13.28	39.83	46.00	-6.17

Remark :

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM850 H Plan CH MID (worst case)	Test Date	May. 16, 2008
Fundamental Frequency	N/A	Test By	Sky
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1697.6	----							
2546.4	----							
3395.2	----							
4244.0	----							

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Datas of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM850 H Plan CH MID (worst case)	Test Date	May. 16, 2008
Fundamental Frequency	N/A	Test By	Sky
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
1697.6	----							
2546.4	----							
3395.2	----							
4244.0	----							

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Datas of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	GSM1900 H Plan CH MID (worst case)	Test Date	May. 16, 2008
Fundamental Frequency	N/A	Test By	Sky
Temperature	25	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
187.14	V	Peak	58.10	-16.87	41.23	43.50	-2.27
232.73	V	Peak	53.73	-10.25	43.48	46.00	-2.52
232.73	H	Peak	55.39	-17.16	38.23	46.00	-7.77
308.39	H	Peak	54.66	-12.24	42.42	46.00	-3.58

Remark :

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

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM1900 H Plan CH MID (worst case)	Test Date	May. 16, 2008
Fundamental Frequency	N/A	Test By	Sky
Temperature	25	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
3819.6	----							
5729.4	----							
7639.2	----							
9549.0	----							

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Datas of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	GSM1900 H Plan CH MID (worst case)	Test Date	May. 16, 2008
Fundamental Frequency	N/A	Test By	Sky
Temperature	25	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	
3819.6	----							
5729.4	----							
7639.2	----							
9549.0	----							

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Datas of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 13GHz, RBW= 1MHz, VBW= 1MHz, Sweep time= 200 ms.
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APPENDIX 1

PHOTOGRAPHS OF SET UP

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Radiated Emission Set up Photos



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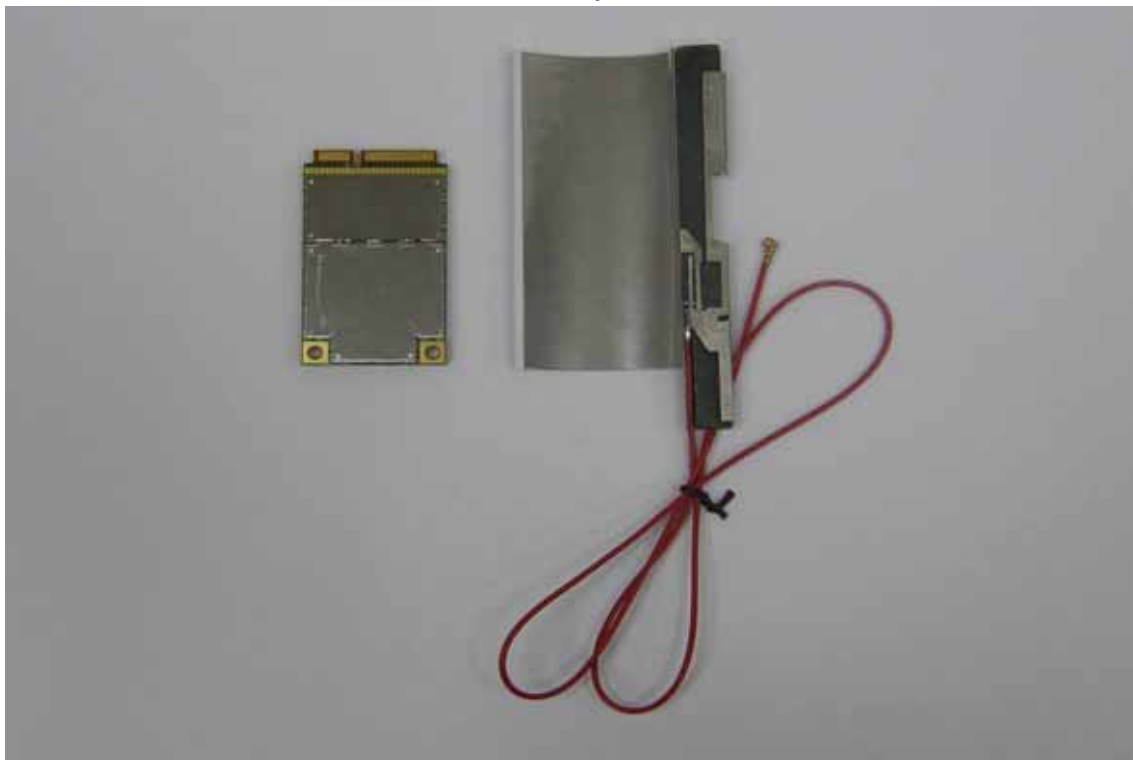
APPENDIX 2

PHOTOGRAPHS OF EUT

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All View of EUT



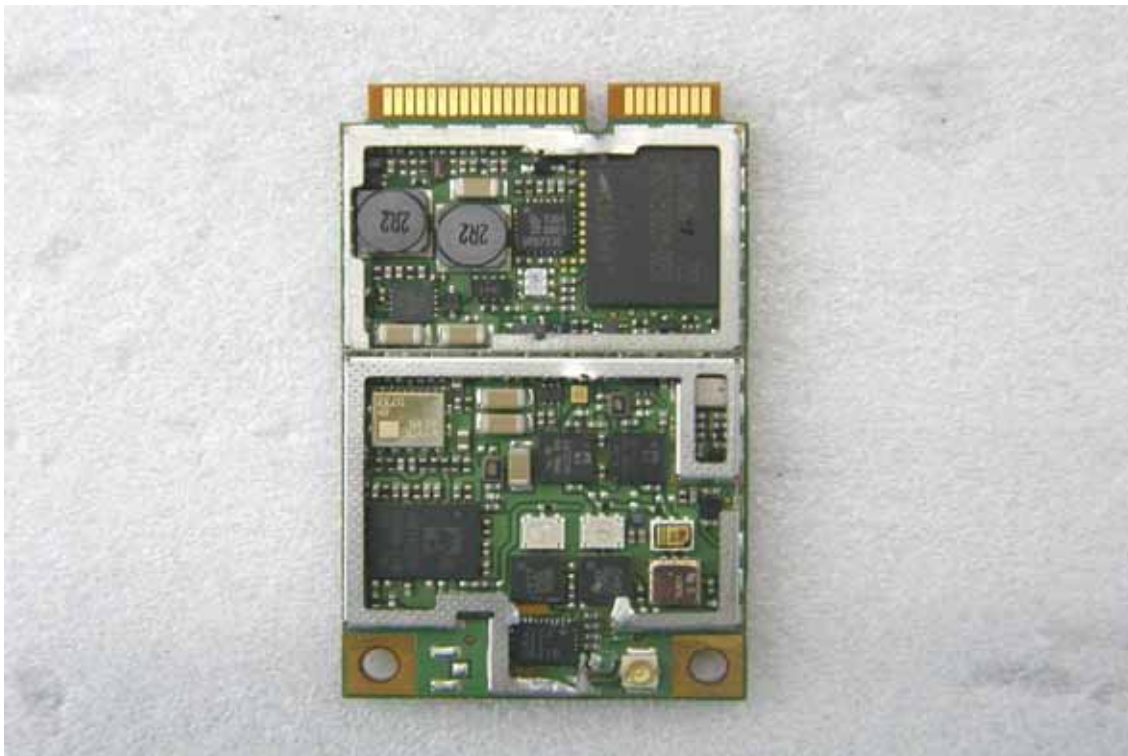
Internal View of EUT – 1



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Internal View of EUT – 2



Internal View of EUT – 3



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Internal View of EUT – 4

~ End of Report ~

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