



FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E

TEST REPORT

For

Smart phone

Trade Name: HTC

Model: ROSE130

Issued to

HTC Corporation
No. 23, Xinghua Rd., Taoyuan City,
Taiwan County, 330 R.O.C.

Issued by

Compliance Certification Services Inc.
No. 11, Wu-Gong 6th Rd., Wugu Industrial Park,
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1. TEST RESULT CERTIFICATION

Applicant: HTC Corporation
 No. 23, Xinghua Rd., Taoyuan City,
 Taiwan County, 330 R.O.C.

Equipment Under Test: Smart phone

Trade Name: HTC

Model Number: ROSE130

Date of Test: November 10 ~ December 18, 2008

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 22 Subpart H & Part 24 Subpart E	No non-compliance noted

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. 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 and PART 24 Subpart E.

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

Approved by:

Reviewed by:

Rex Lai
 Section Manager
 Compliance Certification Services Inc.

Amanda Wu
 Section Manager
 Compliance Certification Services Inc.



2. EUT DESCRIPTION

Product	Smart phone				
Trade Name	HTC				
Model Number	ROSE130				
Model Discrepancy	N/A				
Power Supply	1. VDC from Power Adapter 2. Battery: 3.7V, 1000mAh 3. Powered from Host device via USB cable				
Power Adapter Manufacturer	FOXLINK	Model	TC P300	P/N	629Z-002R-Z180/ 79H00082-00M
	DELTA	Model	TC P300	P/N	79H00078-10M
Power Adapter Power Rating	I/P: 100-240VAC, 50-60Hz, 0.2A O/P: 5V, 1.0A				
Battery Pack Manufacturer	TWS	Model	ROSE160 (3.7V, 1000mAh)		
	WELLDONE	Model	ROSE160 (3.7V, 1000mAh)		
LCD Panel Manufacturer	WINTEK	Model	62H00027-B1M/ WD-F2432XU-6FLW		
	LGI	Model	62H00028-A1M/ IM240DBN9A		
Camera Manufacturer	LITE ON	Model	54H00293-00M / 08PF03		
	PRIMAX	Model	D00079688 / 50-70454HTT8		
Accessories	1. Earphone: ◆ Cotron (model name: HS S200 / 36H00582-14M, Unshielded, 1.2m) 2. USB Cable: ◆ Acon (Model: DC U200 / 73H00296-04M, 1m)				
Frequency Range	GSM / GPRS / EDGE: 850: 824 ~ 849 MHz GSM / GPRS / EDGE: 1900: 1850 ~ 1910 MHz WCDMA Band II: 1852.4 ~ 1907.6 MHz WCDMA Band V: 826.4 ~ 846.6 MHz				
Modulation Technique	GSM: GMSK GPRS: GMSK EDGE: 8PSK WCDMA: Quadrature Phase Shift Keying (QPSK) with Root-raised cosine pulse shaping filters (roll off = 0.22)				
Transmit Power (ERP & EIRP Power)	ERP Power: GSM 850MHz: 28.61 dBm (Slide Mode) GPRS 850MHz: 26.21 dBm (Slide Mode) EDGE 850MHz: 20.33 dBm (Slide Mode) WCDMA Band V: 25.19 dBm (Slide Mode) WCDMA HSDPA Band V: 23.69 dBm (Slide Mode)				
	EIRP Power: GSM 1900MHz: 29.92 dBm (Slide Mode) GPRS 1900MHz: 30.71 dBm (Slide Mode) EDGE 1900MHz: 26.30 dBm (Slide Mode) WCDMA Band II: 25.68 dBm (Slide Mode) WCDMA HSDPA Band II: 25.29 dBm (Close Mode)				



Type of Emission	GSM 850 MHz: 246GXW--- GSM 1900 MHz: 247GXW--- GPRS 850 MHz: 250GXW--- GPRS 1900 MHz: 246GXW--- EDGE 850 MHz: 251G7W--- EDGE 1900 MHz: 249G7W--- WCDMA Band II: 4M18F9W--- WCDMA Band V: 4M19F9W--- WCDMA HSDPA Band II: 4M18F9W--- WCDMA HSDPA Band V: 4M20F9W---
Antenna Gain	GSM / GPRS / EDGE 850 MHz: -2.5 dBi GSM / GPRS / EDGE 1900 MHz: 1.5 dBi WCDMA band II: 1.5 dBi WCDMA band V: -2.5 dBi
Antenna Type	PIFA Antenna

Remark:

1. *The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.*
2. *This submittal(s) (test report) is intended for FCC ID: **NM8RSB** filing to comply with Part 22 and Part 24 of the FCC 47 CFR Rules.*



3. TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4: 2003, TIA/EIA-603-C and FCC CFR 47, Part 2, PART 22 SUBPART H AND PART 24 SUBPART E

3.1 EUT CONFIGURATION

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

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable 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 maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4.



3.4 DESCRIPTION OF TEST MODES

The EUT (model: ROSE130) had been tested under operating condition.

EUT staying in continuous transmitting mode was programmed.

The EUT (model: ROSE130) comes with two power adaptors, two batteries, for sale. After the preliminary test, the EUT with power adapter (FOXLINK) and battery (TWS) was found to emit the worst emissions and therefore had been tested under operating condition.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

GSM / GPRS / EDGE 850:

Channel Low (CH128), Channel Mid (CH190) and Channel High (CH251) were chosen for full testing.

GSM / GPRS / EDGE 1900:

Channel Low (CH512), Channel Mid (CH661) and Channel High (CH810) were chosen for full testing.

WCDMA Band II:

Channel Low (CH9262), Channel Mid (CH9400) and Channel High (CH9538) were chosen for full testing.

WCDMA Band V:

Channel Low (CH4132), Channel Mid (CH4182) and Channel High (CH4233) were chosen for full testing.

WCDMA / HSDPA Band II:

Channel Low (CH9262), Channel Mid (CH9400) and Channel High (CH9538) were chosen for full testing.

WCDMA / HSDPA Band V:

Channel Low (CH4132), Channel Mid (CH4182) and Channel High (CH4233) were chosen for full testing.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) for power line conducted emission testing and the worst case was recorded.

Based on the above results from the different modulations, GSM850 / GSM1900 / GPRS 850 / GPRS1900 / EDGE 850 / EDGE 1900 / WCDMA Band II / WCDMA Band V / HSDPA Band II / HSDPA Band V were determined to be the worst-case scenario for all tests.

The worst emission was found:

in lie-down (X axis) for GSM1900 / GPRS 850 / GPRS 1900 / EDGE 850 / EDGE 1900 /
WCDMA Band II for slide mode

and

in lie-down (Y axis) for HSDPA Band II for closed mode

and

in stand-up position (Z axis) GSM850 / WCDMA Band V / HSDPA Band V for slide mode.



4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.



4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.

Conducted Emissions Test Site				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	02/24/2009
Power Meter	Agilent	E4416A	GB41291611	04/06/2009
Power Sensor	Agilent	E9327A	US40441097	06/19/2009
Temp. / Humidity Chamber	Terchy	MHG-150LF	930619	08/06/2009
DC Power Source	Agilent	E3640A	MY40001774	01/10/2009

3M Semi Anechoic Chamber				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US42510252	09/10/2009
Test Receiver	Rohde & Schwarz	ESCI	100064	11/30/2009
Switch Controller	TRC	Switch Controller	SC94050010	05/03/2009
4 Port Switch	TRC	4 Port Switch	SC94050020	05/03/2009
Horn-Antenna	TRC	HA-0502	06	06/04/2009
Horn-Antenna	TRC	HA-0801	04	06/19/2009
Bilog- Antenna	Sunol Sciences	JB3	A030205	03/28/2009
Loop Antenna	EMCO	6502	8905/2356	05/29/2009
Turn Table	Max-Full	MFT-120S	T120S940302	N.C.R.
Antenna Tower	Max-Full	MFA-430	A440940302	N.C.R.
Controller	Max-Full	MF-CM886	CC-C-1F-13	N.C.R.
Site NSA	CCS	N/A	FCC MRA: TW1039 IC: IC 2324G-1/-2	10/17/2010 11/04/2010
Reject Filter	Micro-Tronics	HPM13194	003	04/24/2009
S.G.	HP	83630B	3844A01022	04/17/2009
Substituted Dipole	Schwazbeck	VHAP/UHAP	998 +999/ 981+982	06/09/2009
Substituted Horn	EMCO	3115	00022257	12/16/2009
Test S/W	LABVIEW (V 6.1)			

Powerline Conducted Emissions Test Site				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver 9kHz-30MHz	Rohde & Schwarz	ESHS30	828144/003	11/18/2009
Two-Line V-Network 9kHz-30MHz	Schaffner	NNB41	03/10013	06/11/2009
LISN 10kHz-100MHz	EMCO	3825/2	9106-1809	04/09/2009
Test S/W	LABVIEW (V 6.1)			



4.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
Powerline Conducted Emission	+/- 2.81
3M Semi Anechoic Chamber / 30MHz ~ 1GHz	+/-3.7046
3M Semi Anechoic Chamber / 1GHz 以上	+/-3.0958

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.

Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029

No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan

Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045

No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan

Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.




Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."



5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	FCC	3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements	 FCC MRA: TW1039
Taiwan	TAF	LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-210, RSS-310 IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12.2, ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328, ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893, ETSI EN 301 489-1/3/7/17 FCC OET Bulletin 65 + Supplement C, EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385, EN 50392, IEC 62209, CNS 14958-1, CNS 14959 FCC Method -47 CFR Part 15 Subpart B IEC / EN 61000-3-2, IEC / EN 61000-3-3, IEC / EN 61000-4-2/3/4/5/6/8/11	 Testing Laboratory 1309
Canada	Industry Canada	3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform	 IC 2324G-1 IC 2324G-2

** No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.*



6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
1.	Universal Radio Communication tester (Remote)	R&S	CMU 200	1100.000.8.02	N/A	N/A	Unshielded, 1.8m

Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.*
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*



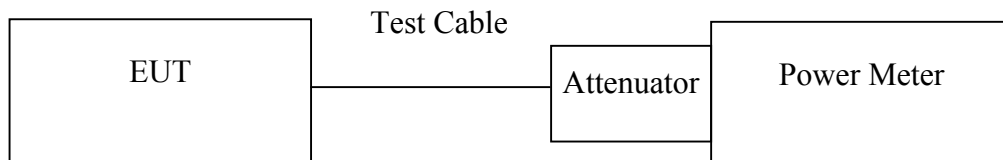
7. FCC PART 22 & 24 REQUIREMENTS

7.1 PEAK POWER

LIMIT

According to FCC §2.1046.

Test Configuration



Remark: Measurement setup for testing on Antenna connector

TEST 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.

TEST RESULTS

No non-compliance noted.



Test Data

Test Mode	CH	Frequency (MHz)	Power Meter Reading (dBm)	Attenuator (dB)	Peak Power (dBm)
GSM 850 (Class B)	128	824.20	1.73	31.00	32.73
	190	836.60	2.05		*33.05
	251	848.80	1.96		32.96
GPRS 850 (Class 12)	128	824.20	0.10	31.00	31.10
	190	836.60	0.50		*31.50
	251	848.80	0.37		31.37
EDGE 850 (Class 12)	128	824.20	-4.12	31.00	*26.88
	190	836.60	-4.21		26.79
	251	848.80	-4.24		26.76

Test Mode	CH	Frequency (MHz)	Power Meter Reading (dBm)	Attenuator (dB)	Peak Power (dBm)
GSM 1900 (Class B)	512	1850.20	-1.23	31.00	29.60
	661	1880.00	-1.21		29.59
	810	1909.80	-1.15		*29.61
GPRS 1900 (Class 12)	512	1850.20	-2.24	31.00	*29.62
	661	1880.00	-2.34		29.58
	810	1909.80	-2.52		29.56
EDGE 1900 (Class 12)	512	1850.20	-6.84	31.00	24.66
	661	1880.00	-6.81		24.69
	810	1909.80	-6.80		*24.70

Remark: The value of factor includes both the loss of cable and external attenuator



Test Mode	CH	Frequency (MHz)	Power Meter Reading (dBm)	Attenuator (dB)	Peak Power (dBm)
WCDMA (BAND II)	9262	1852.40	25.73	0.0	25.73
	9400	1880.00	25.84		*25.84
	9538	1909.80	25.21		25.21
WCDMA (BAND V)	4132	826.40	25.71	0.0	25.71
	4183	836.60	26.08		*26.08
	4233	846.60	25.81		25.81

Test Mode	CH	Frequency (MHz)	Power Meter Reading (dBm)	Attenuator (dB)	Peak Power (dBm)
WCDMA / HSDPA (BAND II)	9262	1852.40	26.11	0.0	26.11
	9400	1880.00	26.14		*26.14
	9538	1909.80	25.95		25.95
WCDMA / HSDPA (BAND V)	4132	826.40	26.11	0.0	26.11
	4183	836.60	26.49		*26.49
	4233	846.60	26.16		26.16

Remark: The value of factor includes both the loss of cable and external attenuator

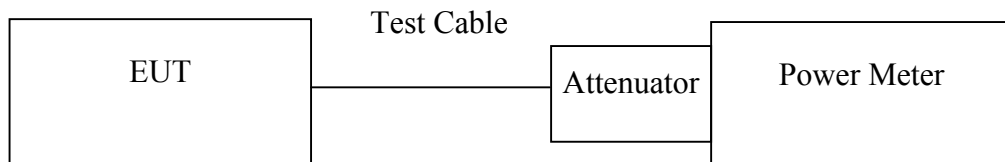


7.2 AVERAGE POWER

LIMIT

For reporting purposes only.

Test Configuration



Remark: Measurement setup for testing on Antenna connector

TEST 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.

TEST RESULTS

No non-compliance noted.



Test Data

Test Mode	CH	Frequency (MHz)	Power Meter Reading (dBm)	Attenuator (dB)	Average Power (dBm)
GSM 850 (Class B)	128	824.20	1.73	31.00	31.89
	190	836.60	2.05		*32.09
	251	848.80	1.96		31.85
GPRS 850 (Class 12)	128	824.20	0.10	31.00	30.15
	190	836.60	0.50		*30.58
	251	848.80	0.37		30.38
EDGE 850 (Class 12)	128	824.20	-4.45	31.00	26.55
	190	836.60	-4.41		26.59
	251	848.80	-4.39		*26.61

Test Mode	CH	Frequency (MHz)	Power Meter Reading (dBm)	Attenuator (dB)	Average Power (dBm)
GSM 1900 (Class B)	512	1850.20	-1.35	31.00	29.39
	661	1880.00	2.05		29.38
	810	1909.80	1.96		*29.41
GPRS 1900 (Class 12)	512	1850.20	0.10	31.00	29.38
	661	1880.00	0.50		29.34
	810	1909.80	0.37		*29.43
EDGE 1900 (Class 12)	512	1850.20	-6.92	31.00	*24.58
	661	1880.00	-6.98		24.52
	810	1909.80	-7.03		24.47

Remark: The value of factor includes both the loss of cable and external attenuator



Test Mode	CH	Frequency (MHz)	Power Meter Reading (dBm)	Attenuator (dB)	Average Power (dBm)
WCDMA (BAND II)	9262	1852.40	22.08	0.0	22.08
	9400	1880.00	22.10		*22.10
	9538	1909.80	22.06		22.06
WCDMA (BAND V)	4132	826.40	22.31	0.0	22.31
	4183	836.60	22.40		*22.40
	4233	846.60	22.39		22.39

Test Mode	CH	Frequency (MHz)	Power Meter Reading (dBm)	Attenuator (dB)	Average Power (dBm)
WCDMA / HSDPA (BAND II)	9262	1852.40	22.03	0.0	22.03
	9400	1880.00	22.07		22.07
	9538	1909.80	22.10		*22.10
WCDMA / HSDPA (BAND V)	4132	826.40	22.36	0.0	22.36
	4183	836.60	22.38		*22.38
	4233	846.60	22.16		22.16

Remark: The value of factor includes both the loss of cable and external attenuator

7.3 ERP & EIRP MEASUREMENT

LIMIT

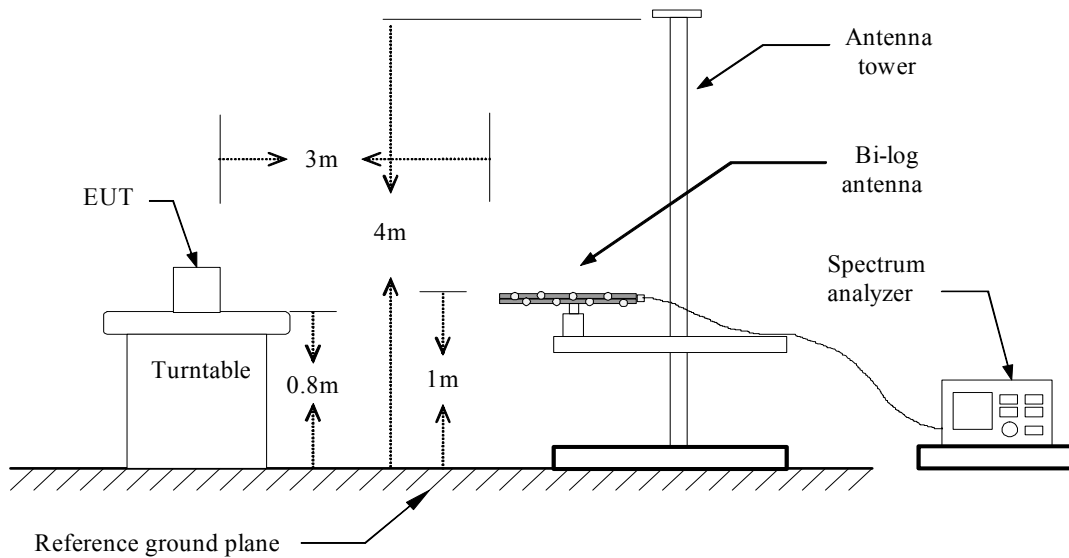
According to FCC §2.1046

FCC 22.913(b): The Effective Radiated Power (ERP) of mobile transmitters must not exceed 7 Watts.

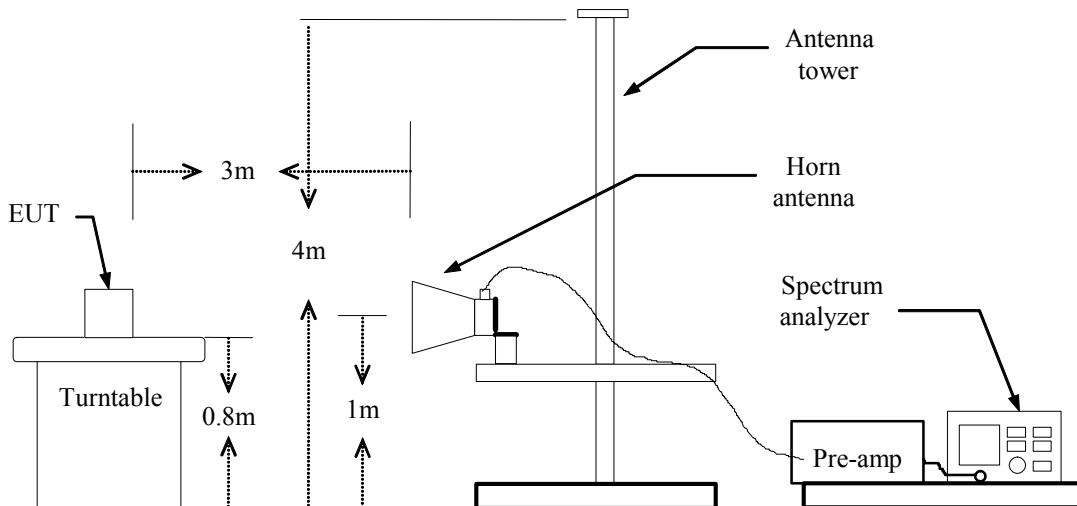
FCC 24.232(b): The equivalent Isotropic Radiated Power (EIRP) must not exceed 2 Watts.

Test Configuration

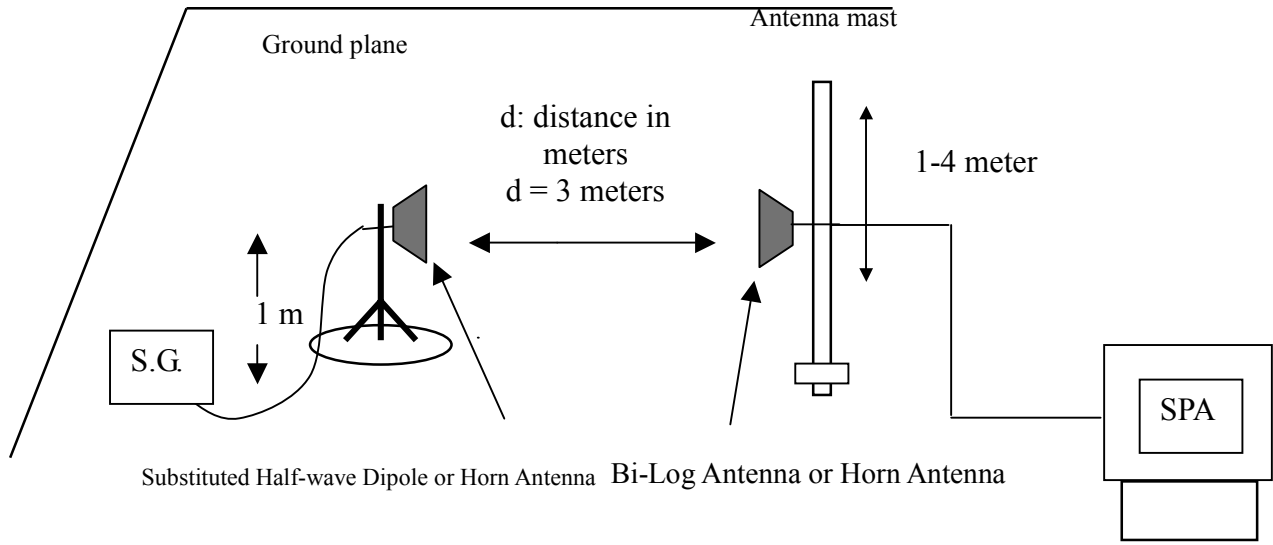
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP



TEST 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 of the EUT, the resolution bandwidth was set to 3MHz and the average bandwidth was set to 3MHz. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824-849MHz, and EIRP in frequency band 1851.25 –1910MHz were measured using a substitution method. The EUT was replaced by half-wave dipole (824-849MHz) or horn antenna (1851.25-1910MHz) connected to a signal generator. The spectrum analyzer reading was recorded and ERP/EIRP was calculated as follows:

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

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

TEST RESULTS

No non-compliance noted.

**Close Mode****GSM 850 Test Data**

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	128	824.20	V	-14.87	35.66	20.79	38.50	-17.71
		824.20	H	-14.16	35.10	20.94	38.50	-17.56
	190	836.60	V	-12.57	35.38	22.81	38.50	-15.69
		836.60	H	-11.95	35.07	23.13	38.50	-15.37
	251	848.80	V	-10.98	35.24	24.26	38.50	-14.24
		848.80	H	-10.01	35.20	25.19	38.50	-13.31
Y	128	824.20	V	-17.61	35.66	18.05	38.50	-20.45
		824.20	H	-10.63	35.10	24.47	38.50	-14.03
	190	836.60	V	-15.64	35.38	19.74	38.50	-18.76
		836.60	H	-8.99	35.07	26.08	38.50	-12.42
	251	848.80	V	-14.16	35.24	21.08	38.50	-17.42
		848.80	H	-7.78	35.20	27.42	38.50	-11.08
Z	128	824.20	V	-13.03	35.67	22.64	38.50	-15.86
		824.20	H	-11.90	35.10	23.20	38.50	-15.30
	190	836.60	V	-11.34	35.38	24.04	38.50	-14.46
		836.60	H	-9.19	35.07	25.88	38.50	-12.62
	251	848.80	V	-9.84	35.24	25.40	38.50	-13.10
		848.80	H	-8.45	35.20	*26.75	38.50	-11.75

GPRS 850 Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	128	824.20	V	-15.68	35.66	19.98	38.50	-18.52
		824.20	H	-15.12	35.10	19.98	38.50	-18.52
	190	836.60	V	-13.69	35.38	21.69	38.50	-16.81
		836.60	H	-13.04	35.07	22.04	38.50	-16.46
	251	848.80	V	-12.99	35.24	22.25	38.50	-16.25
		848.80	H	-10.97	35.20	24.22	38.50	-14.28
Y	128	824.20	V	-14.22	35.65	21.44	38.50	-17.06
		824.20	H	-16.43	35.10	18.67	38.50	-19.83
	190	836.60	V	-15.64	35.38	19.74	38.50	-18.76
		836.60	H	-13.30	35.07	21.77	38.50	-16.73
	251	848.80	V	-13.49	35.24	21.75	38.50	-16.75
		848.80	H	-11.77	35.20	23.43	38.50	-15.07
Z	128	824.20	V	-14.28	35.66	21.38	38.50	-17.12
		824.20	H	-16.25	35.10	18.85	38.50	-19.65
	190	836.60	V	-12.63	35.38	22.75	38.50	-15.75
		836.60	H	-13.31	35.07	21.76	38.50	-16.74
	251	848.80	V	-10.92	35.24	*24.32	38.50	-14.18
		848.80	H	-11.68	35.20	23.51	38.50	-14.99

**GSM 1900 Test Data**

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	512	1850.20	V	-20.82	42.27	21.46	33.00	-11.54
		1850.20	H	-14.47	42.51	28.04	33.00	-4.96
	661	1880.00	V	-21.45	42.16	20.71	33.00	-12.29
		1880.00	H	-14.51	42.46	27.95	33.00	-5.05
	810	1909.80	V	-22.61	42.03	19.42	33.00	-13.58
		1909.80	H	-14.21	42.38	*28.17	33.00	-4.83
Y	512	1850.20	V	-15.32	42.27	26.96	33.00	-6.04
		1850.20	H	-15.85	42.51	26.66	33.00	-6.34
	661	1880.00	V	-15.67	42.16	26.50	33.00	-6.50
		1880.00	H	-15.22	42.46	27.24	33.00	-5.76
	810	1909.80	V	-15.47	42.03	26.56	33.00	-6.44
		1909.80	H	-15.52	42.38	26.86	33.00	-6.14
Z	512	1850.20	V	-18.83	42.27	23.45	33.00	-9.55
		1850.20	H	-14.72	42.51	27.79	33.00	-5.21
	661	1880.00	V	-18.79	42.16	23.37	33.00	-9.63
		1880.00	H	-14.48	42.46	27.98	33.00	-5.02
	810	1909.80	V	-18.87	42.03	23.16	33.00	-9.84
		1909.80	H	-14.76	42.38	27.61	33.00	-5.39

GPRS 1900 Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	512	1850.20	V	-22.66	42.27	19.62	33.00	-13.38
		1850.20	H	-13.19	42.51	*29.33	33.00	-3.67
	661	1880.00	V	-21.67	42.16	20.49	33.00	-12.51
		1880.00	H	-13.71	42.46	28.75	33.00	-4.25
	810	1909.80	V	-21.03	42.03	21.00	33.00	-12.00
		1909.80	H	-12.85	42.38	29.53	33.00	-3.47
Y	512	1850.20	V	-13.42	42.27	28.85	33.00	-4.15
		1850.20	H	-17.15	42.51	25.36	33.00	-7.64
	661	1880.00	V	-13.43	42.16	28.73	33.00	-4.27
		1880.00	H	-15.71	42.46	26.75	33.00	-6.25
	810	1909.80	V	-15.88	42.03	26.15	33.00	-6.85
		1909.80	H	-15.70	42.38	26.68	33.00	-6.32
Z	512	1850.20	V	-19.78	42.28	22.50	33.00	-10.50
		1850.20	H	-16.12	42.51	26.39	33.00	-6.61
	661	1880.00	V	-19.59	42.16	22.57	33.00	-10.43
		1880.00	H	-16.24	42.46	26.22	33.00	-6.78
	810	1909.80	V	-19.67	42.03	22.36	33.00	-10.64
		1909.80	H	-16.66	42.38	25.71	33.00	-7.29

**EDGE 850 Test Data**

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	128	824.20	V	-25.94	35.66	9.71	38.50	-28.79
		824.20	H	-18.71	35.10	16.39	38.50	-22.11
	190	836.60	V	-24.64	35.38	10.74	38.50	-27.76
		836.60	H	-16.82	35.07	18.25	38.50	-20.25
	251	848.80	V	-22.81	35.24	12.43	38.50	-26.07
		848.80	H	-16.19	35.20	*19.00	38.50	-19.50
Y	128	824.20	V	-22.49	35.66	13.17	38.50	-25.33
		824.20	H	-21.76	35.10	13.34	38.50	-25.16
	190	836.60	V	-19.95	35.38	15.43	38.50	-23.07
		836.60	H	-19.69	35.07	15.38	38.50	-23.12
	251	848.80	V	-18.81	35.24	16.43	38.50	-22.07
		848.80	H	-18.57	35.20	16.63	38.50	-21.87
Z	128	824.20	V	-20.09	35.66	15.56	38.50	-22.94
		824.20	H	-22.22	35.10	12.88	38.50	-25.62
	190	836.60	V	-18.70	35.38	16.68	38.50	-21.82
		836.60	H	-19.53	35.07	15.54	38.50	-22.96
	251	848.80	V	-16.90	35.24	18.34	38.50	-20.16
		848.80	H	-18.09	35.20	17.11	38.50	-21.39

EDGE 1900 Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	512	1850.20	V	-27.56	42.27	14.72	33.00	-18.28
		1850.20	H	-18.26	42.51	24.25	33.00	-8.75
	661	1880.00	V	-26.64	42.16	15.52	33.00	-17.48
		1880.00	H	-18.67	42.46	23.79	33.00	-9.21
	810	1909.80	V	-26.49	42.03	15.54	33.00	-17.46
		1909.80	H	-18.29	42.38	24.09	33.00	-8.91
Y	512	1850.20	V	-17.89	42.27	24.39	33.00	-8.61
		1850.20	H	-19.65	42.51	22.86	33.00	-10.14
	661	1880.00	V	-17.54	42.16	*24.62	33.00	-8.38
		1880.00	H	-19.23	42.46	23.23	33.00	-9.77
	810	1909.80	V	-17.94	42.03	24.09	33.00	-8.91
		1909.80	H	-19.09	42.38	23.29	33.00	-9.71
Z	512	1850.20	V	-20.04	42.27	22.24	33.00	-10.76
		1850.20	H	-18.02	42.51	24.48	33.00	-8.52
	661	1880.00	V	-20.48	42.16	21.68	33.00	-11.32
		1880.00	H	-17.55	42.46	24.91	33.00	-8.09
	810	1909.80	V	-20.68	42.03	21.35	33.00	-11.65
		1909.80	H	-17.23	42.38	25.15	33.00	-7.85



WCDMA BAND II Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	9262	1852.40	V	-25.30	42.26	16.96	33.00	-16.04
		1852.40	H	-19.94	42.50	22.56	33.00	-10.44
	9400	1880.00	V	-26.20	42.17	15.97	33.00	-17.03
		1880.00	H	-19.78	42.46	22.68	33.00	-10.32
	9538	1909.80	V	-26.79	42.05	15.26	33.00	-17.74
		1909.80	H	-20.01	42.39	22.38	33.00	-10.62
Y	9262	1852.40	V	-19.15	42.26	*23.11	33.00	-9.89
		1852.40	H	-20.88	42.51	21.63	33.00	-11.37
	9400	1880.00	V	-19.20	42.17	22.97	33.00	-10.03
		1880.00	H	-21.28	42.46	21.18	33.00	-11.82
	9538	1909.80	V	-19.59	42.05	22.46	33.00	-10.54
		1909.80	H	-21.28	42.39	21.11	33.00	-11.89
Z	9262	1852.40	V	-20.97	42.26	21.29	33.00	-11.71
		1852.40	H	-19.47	42.50	23.03	33.00	-9.97
	9400	1880.00	V	-22.61	42.17	19.56	33.00	-13.44
		1880.00	H	-19.97	42.46	22.49	33.00	-10.51
	9538	1909.80	V	-22.84	42.05	19.21	33.00	-13.79
		1909.80	H	-20.15	42.39	22.24	33.00	-10.76

WCDMA BAND V Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	4132	826.40	V	-23.14	36.25	13.10	38.50	-25.40
		826.40	H	-17.83	36.11	18.28	38.50	-20.22
	4183	836.60	V	-23.89	36.31	12.42	38.50	-26.08
		836.60	H	-17.53	36.19	18.65	38.50	-19.85
	4233	846.60	V	-22.81	36.36	13.55	38.50	-24.95
		846.60	H	-16.13	36.33	20.21	38.50	-18.29
Y	4132	826.40	V	-18.70	36.25	17.55	38.50	-20.95
		826.40	H	-16.13	36.11	19.99	38.50	-18.51
	4183	836.60	V	-19.25	36.30	17.05	38.50	-21.45
		836.60	H	-15.67	36.18	20.51	38.50	-17.99
	4233	846.60	V	-18.96	36.37	17.41	38.50	-21.09
		846.60	H	-14.88	36.30	*21.42	38.50	-17.08
Z	4132	826.40	V	-21.02	36.25	15.23	38.50	-23.27
		826.40	H	-19.29	36.11	16.83	38.50	-21.67
	4183	836.60	V	-20.09	36.30	16.21	38.50	-22.29
		836.60	H	-19.59	36.18	16.59	38.50	-21.91
	4233	846.60	V	-19.06	36.36	17.30	38.50	-21.20
		846.60	H	-20.30	36.30	16.00	38.50	-22.50



HSDPA BAND II Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	9262	1852.40	V	-24.94	42.26	17.33	33.00	-15.67
		1852.40	H	-19.17	42.50	23.33	33.00	-9.67
	9400	1880.00	V	-26.01	42.17	16.16	33.00	-16.84
		1880.00	H	-19.83	42.46	22.63	33.00	-10.37
	9538	1907.60	V	-25.03	42.05	17.02	33.00	-15.98
		1907.60	H	-19.27	42.39	23.13	33.00	-9.87
Y	9262	1852.40	V	-16.97	42.26	*25.29	33.00	-7.71
		1852.40	H	-19.29	42.50	23.21	33.00	-9.79
	9400	1880.00	V	-18.32	42.17	23.85	33.00	-9.15
		1880.00	H	-20.64	42.46	21.82	33.00	-11.18
	9538	1907.60	V	-18.84	42.05	23.21	33.00	-9.79
		1907.60	H	-20.33	42.39	22.06	33.00	-10.94
Z	9262	1852.40	V	-21.83	42.26	20.43	33.00	-12.57
		1852.40	H	-17.99	42.50	24.52	33.00	-8.48
	9400	1880.00	V	-23.66	42.17	18.51	33.00	-14.49
		1880.00	H	-19.75	42.46	22.71	33.00	-10.29
	9538	1907.60	V	-23.61	42.05	18.43	33.00	-14.57
		1907.60	H	-19.21	42.39	23.18	33.00	-9.82

HSDPA BAND V Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	4132	826.40	V	-20.18	36.25	16.07	38.50	-22.43
		826.40	H	-16.93	36.11	19.18	38.50	-19.32
	4183	836.60	V	-19.50	36.30	16.80	38.50	-21.70
		836.60	H	-17.53	36.18	18.66	38.50	-19.84
	4233	846.60	V	-20.98	36.36	15.37	38.50	-23.13
		846.60	H	-18.90	36.30	17.40	38.50	-21.10
Y	4132	826.40	V	-18.15	36.25	18.10	38.50	-20.40
		826.40	H	-15.23	36.11	20.89	38.50	-17.61
	4183	836.60	V	-18.27	36.31	18.04	38.50	-20.46
		836.60	H	-14.53	36.19	21.66	38.50	-16.84
	4233	846.60	V	-17.62	36.37	18.75	38.50	-19.75
		846.60	H	-13.92	36.33	*22.42	38.50	-16.08
Z	4132	826.40	V	-20.41	36.25	15.84	38.50	-22.66
		826.40	H	-18.36	36.11	17.75	38.50	-20.75
	4183	836.60	V	-19.55	36.30	16.75	38.50	-21.75
		836.60	H	-18.81	36.19	17.38	38.50	-21.12
	4233	846.60	V	-18.25	36.37	18.11	38.50	-20.39
		846.60	H	-19.61	36.30	16.69	38.50	-21.81

**Slide Mode****GSM 850 Test Data**

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	128	824.20	V	-15.50	35.66	20.16	38.50	-18.34
		824.20	H	-13.44	35.10	21.66	38.50	-16.84
	190	836.60	V	-13.21	35.38	22.18	38.50	-16.32
		836.60	H	-10.18	35.07	24.89	38.50	-13.61
	251	848.80	V	-11.11	35.24	24.13	38.50	-14.37
		848.80	H	-8.03	35.20	27.17	38.50	-11.33
Y	128	824.20	V	-12.84	35.66	22.82	38.50	-15.68
		824.20	H	-11.35	35.10	23.75	38.50	-14.75
	190	836.60	V	-10.80	35.38	24.58	38.50	-13.92
		836.60	H	-9.35	35.07	25.72	38.50	-12.78
	251	848.80	V	-9.02	35.24	26.22	38.50	-12.28
		848.80	H	-7.57	35.20	27.63	38.50	-10.87
Z	128	824.20	V	-13.42	35.66	22.23	38.50	-16.27
		824.20	H	-10.33	35.10	24.76	38.50	-13.74
	190	836.60	V	-11.30	35.38	24.09	38.50	-14.41
		836.60	H	-8.19	35.07	26.89	38.50	-11.61
	251	848.80	V	-9.66	35.24	25.58	38.50	-12.92
		848.80	H	-6.59	35.20	*28.61	38.50	-9.89

GPRS 850 Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	128	824.20	V	-16.36	35.66	19.30	38.50	-19.20
		824.20	H	-14.41	35.10	20.69	38.50	-17.81
	190	836.60	V	-14.16	35.38	21.22	38.50	-17.28
		836.60	H	-11.05	35.07	24.02	38.50	-14.48
	251	848.80	V	-12.09	35.24	23.15	38.50	-15.35
		848.80	H	-8.99	35.20	*26.21	38.50	-12.29
Y	128	824.20	V	-15.79	35.65	19.87	38.50	-18.63
		824.20	H	-14.90	35.10	20.20	38.50	-18.30
	190	836.60	V	-14.48	35.38	20.91	38.50	-17.59
		836.60	H	-13.21	35.07	21.86	38.50	-16.64
	251	848.80	V	-12.51	35.24	22.73	38.50	-12.28
		848.80	H	-12.00	35.20	23.20	38.50	-15.30
Z	128	824.20	V	-13.40	35.66	22.26	38.50	-16.24
		824.20	H	-14.29	35.10	20.81	38.50	-17.69
	190	836.60	V	-11.62	35.38	23.76	38.50	-14.74
		836.60	H	-12.60	35.07	22.48	38.50	-16.02
	251	848.80	V	-10.29	35.24	24.95	38.50	-13.55
		848.80	H	-10.89	35.20	24.31	38.50	-14.19

**GSM 1900 Test Data**

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	512	1850.20	V	-20.04	42.27	22.24	33.00	-10.76
		1850.20	H	-12.59	42.51	*29.92	33.00	-3.08
	661	1880.00	V	-20.43	42.16	21.73	33.00	-11.27
		1880.00	H	-13.07	42.46	29.39	33.00	-3.61
	810	1909.80	V	-20.36	42.03	21.67	33.00	-11.33
		1909.80	H	-12.60	42.38	29.77	33.00	-3.23
Y	512	1850.20	V	-13.94	42.27	28.34	33.00	-4.66
		1850.20	H	-16.78	42.51	25.73	33.00	-7.27
	661	1880.00	V	-13.37	42.16	28.79	33.00	-4.21
		1880.00	H	-16.81	42.46	25.65	33.00	-7.35
	810	1909.80	V	-14.54	42.03	27.49	33.00	-5.51
		1909.80	H	-17.03	42.38	25.34	33.00	-7.66
Z	512	1850.20	V	-17.63	42.27	24.65	33.00	-8.35
		1850.20	H	-16.67	42.51	25.84	33.00	-7.16
	661	1880.00	V	-17.09	42.16	25.08	33.00	-7.92
		1880.00	H	-16.32	42.46	26.14	33.00	-6.86
	810	1909.80	V	-15.68	42.03	26.35	33.00	-6.65
		1909.80	H	-14.83	42.38	27.55	33.00	-5.45

GPRS 1900 Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	512	1850.20	V	-21.46	42.27	20.82	33.00	-12.18
		1850.20	H	-11.80	42.51	*30.71	33.00	-2.29
	661	1880.00	V	-18.65	42.16	23.51	33.00	-9.49
		1880.00	H	-13.36	42.46	29.10	33.00	-3.90
	810	1909.80	V	-19.76	42.03	22.27	33.00	-10.73
		1909.80	H	-13.31	42.38	29.06	33.00	-3.94
Y	512	1850.20	V	-13.29	42.28	28.98	33.00	-4.02
		1850.20	H	-16.58	42.51	25.93	33.00	-7.07
	661	1880.00	V	-13.43	42.16	28.74	33.00	-4.26
		1880.00	H	-16.14	42.46	26.32	33.00	-6.68
	810	1909.80	V	-14.03	42.03	28.00	33.00	-5.00
		1909.80	H	-16.08	42.38	26.29	33.00	-6.71
Z	512	1850.20	V	-16.79	42.27	25.48	33.00	-7.52
		1850.20	H	-16.78	42.51	25.73	33.00	-7.27
	661	1880.00	V	-16.84	42.16	25.32	33.00	-7.68
		1880.00	H	-16.05	42.46	26.41	33.00	-6.59
	810	1909.80	V	-15.93	42.03	26.11	33.00	-6.89
		1909.80	H	-15.12	42.38	27.26	33.00	-5.74



EDGE 850 Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	128	824.20	V	-22.98	35.62	12.64	38.50	-25.86
		824.20	H	-17.45	35.10	17.65	38.50	-20.85
	190	836.60	V	-25.26	35.38	10.12	38.50	-28.38
		836.60	H	-15.72	35.07	19.35	38.50	-19.15
	251	848.80	V	-23.69	35.24	11.55	38.50	-26.95
		848.80	H	-14.87	35.20	*20.33	38.50	-18.17
Y	128	824.20	V	-22.32	35.66	13.34	38.50	-25.16
		824.20	H	-21.89	35.10	13.21	38.50	-25.29
	190	836.60	V	-20.64	35.38	14.74	38.50	-23.76
		836.60	H	-20.32	35.07	14.75	38.50	-23.75
	251	848.80	V	-18.91	35.24	16.33	38.50	-22.17
		848.80	H	-18.27	35.20	16.94	38.50	-21.56
Z	128	824.20	V	-19.22	35.66	16.44	38.50	-22.06
		824.20	H	-20.27	35.10	14.83	38.50	-23.67
	190	836.60	V	-17.75	35.38	17.64	38.50	-20.86
		836.60	H	-18.19	35.07	16.88	38.50	-21.62
	251	848.80	V	-16.67	35.24	18.57	38.50	-19.93
		848.80	H	-17.06	35.20	18.14	38.50	-20.36

EDGE 1900 Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	512	1850.20	V	-25.65	42.28	16.62	33.00	-16.38
		1850.20	H	-16.48	42.51	26.03	33.00	-6.97
	661	1880.00	V	-21.03	42.16	21.13	33.00	-11.87
		1880.00	H	-16.16	42.46	*26.30	33.00	-6.70
	810	1909.80	V	-20.56	42.03	21.47	33.00	-11.53
		1909.80	H	-16.23	42.38	26.15	33.00	-6.85
Y	512	1850.20	V	-17.94	42.27	24.33	33.00	-8.67
		1850.20	H	-18.94	42.51	23.57	33.00	-9.43
	661	1880.00	V	-17.26	42.16	24.90	33.00	-8.10
		1880.00	H	-19.24	42.46	23.22	33.00	-9.78
	810	1909.80	V	-17.24	42.03	24.79	33.00	-8.21
		1909.80	H	-18.73	42.38	23.64	33.00	-9.36
Z	512	1850.20	V	-20.25	42.27	22.02	33.00	-10.98
		1850.20	H	-19.91	42.51	22.60	33.00	-10.40
	661	1880.00	V	-20.36	42.16	21.80	33.00	-11.20
		1880.00	H	-18.80	42.46	23.66	33.00	-9.34
	810	1909.80	V	-19.66	42.03	22.38	33.00	-10.62
		1909.80	H	-17.67	42.38	24.71	33.00	-8.29



WCDMA BAND II Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)	
X	9262	1852.40	V	-22.33	42.26	19.94	33.00	-13.06	
		1852.40	H	-16.97	42.50	25.54	33.00	-7.46	
	9400	1880.00	V	-22.54	42.17	19.63	33.00	-13.37	
		1880.00	H	-16.36	42.46	26.11	33.00	-6.89	
	9538	1907.60	V	-22.54	42.05	19.51	33.00	-13.49	
		1907.60	H	-16.71	42.39	*25.68	33.00	-7.32	
Y	9262	1852.40	V	-19.45	42.26	22.82	33.00	-10.18	
		1852.40	H	-20.34	42.50	22.17	33.00	-10.83	
	9400	1880.00	V	-19.80	42.17	22.37	33.00	-10.63	
		1880.00	H	-21.11	42.46	21.36	33.00	-11.64	
	9538	1907.60	V	-20.25	42.05	21.80	33.00	-11.20	
		1907.60	H	-22.14	42.39	20.25	33.00	-12.75	
	Z	9262	1852.40	V	-23.12	42.26	19.15	33.00	-13.85
			1852.40	H	-20.33	42.51	22.18	33.00	-10.82
9400		1880.00	V	-22.32	42.16	19.84	33.00	-13.16	
		1880.00	H	-20.19	42.46	22.27	33.00	-10.73	
9538		1907.60	V	-23.04	42.05	19.00	33.00	-14.00	
		1907.60	H	-20.55	42.39	21.84	33.00	-11.16	

WCDMA BAND V Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	4132	826.40	V	-23.76	36.24	12.49	38.50	-26.01
		826.40	H	-19.36	36.11	16.75	38.50	-21.75
	4183	836.60	V	-23.55	36.30	12.75	38.50	-25.75
		836.60	H	-19.62	36.18	16.57	38.50	-21.93
	4233	846.60	V	-22.79	36.36	13.57	38.50	-24.93
		846.60	H	-20.09	36.30	16.21	38.50	-22.29
Y	4132	826.40	V	-19.22	36.25	17.03	38.50	-21.47
		826.40	H	-18.69	36.11	17.42	38.50	-21.08
	4183	836.60	V	-18.54	36.31	17.77	38.50	-20.73
		836.60	H	-18.37	36.19	17.82	38.50	-20.68
	4233	846.60	V	-17.57	36.37	18.79	38.50	-19.71
		846.60	H	-17.12	36.33	19.21	38.50	-19.29
Z	4132	826.40	V	-14.36	36.25	21.88	38.50	-16.62
		826.40	H	-12.21	36.11	23.90	38.50	-14.60
	4183	836.60	V	-13.92	36.31	22.39	38.50	-16.11
		836.60	H	-12.30	36.18	23.89	38.50	-14.61
	4233	846.60	V	-12.95	36.37	23.41	38.50	-15.09
		846.60	H	-11.12	36.31	*25.19	38.50	-13.31

**HSDPA BAND II Test Data**

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	9262	1852.40	V	-23.13	42.26	19.13	33.00	-13.87
		1852.40	H	-17.41	42.50	25.10	33.00	-7.90
	9400	1880.00	V	-22.65	42.17	19.51	33.00	-13.49
		1880.00	H	-17.25	42.46	*25.21	33.00	-7.79
	9538	1907.60	V	-22.19	42.05	19.85	33.00	-13.15
		1907.60	H	-18.13	42.40	24.27	33.00	-8.73
Y	9262	1852.40	V	-18.50	42.26	23.77	33.00	-9.23
		1852.40	H	-18.00	42.50	24.51	33.00	-8.49
	9400	1880.00	V	-18.73	42.17	23.43	33.00	-9.57
		1880.00	H	-17.62	42.46	24.85	33.00	-8.15
	9538	1907.60	V	-19.36	42.05	22.69	33.00	-10.31
		1907.60	H	-18.04	42.39	24.36	33.00	-8.64
Z	9262	1852.40	V	-20.87	42.26	21.39	33.00	-11.61
		1852.40	H	-20.37	42.51	22.14	33.00	-10.86
	9400	1880.00	V	-20.63	42.16	21.53	33.00	-11.47
		1880.00	H	-19.59	42.46	22.87	33.00	-10.13
	9538	1907.60	V	-20.28	42.05	21.77	33.00	-11.23
		1907.60	H	-18.52	42.39	23.88	33.00	-9.12

HSDPA BAND V Test Data

EUT Pol.	Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
X	4132	826.40	V	-22.52	36.25	13.72	38.50	-24.78
		826.40	H	-18.95	36.11	17.16	38.50	-21.34
	4183	836.60	V	-22.26	36.30	14.04	38.50	-24.46
		836.60	H	-18.65	36.18	17.53	38.50	-20.97
	4233	846.60	V	-22.07	36.37	14.30	38.50	-24.20
		846.60	H	-19.50	36.33	16.83	38.50	-21.67
Y	4132	826.40	V	-19.56	36.25	16.68	38.50	-21.82
		826.40	H	-15.42	36.11	20.70	38.50	-17.80
	4183	836.60	V	-18.92	36.30	17.38	38.50	-21.12
		836.60	H	-14.87	36.19	21.31	38.50	-17.19
	4233	846.60	V	-18.27	36.36	18.08	38.50	-20.42
		846.60	H	-14.25	36.33	22.09	38.50	-16.41
Z	4132	826.40	V	-14.81	36.25	21.44	38.50	-17.06
		826.40	H	-16.19	36.11	19.92	38.50	-18.58
	4183	836.60	V	-13.89	36.30	22.41	38.50	-16.09
		836.60	H	-14.91	36.18	21.27	38.50	-17.23
	4233	846.60	V	-12.67	36.36	*23.69	38.50	-14.81
		846.60	H	-13.53	36.30	22.77	38.50	-15.73

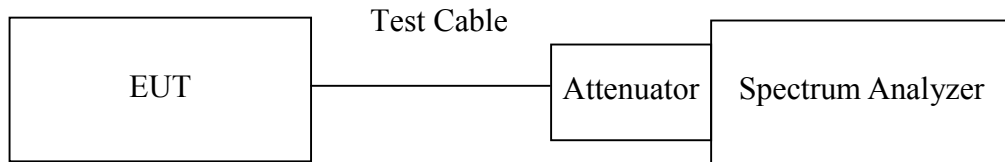


7.4 OCCUPIED BANDWIDTH MEASUREMENT

LIMIT

According to §FCC 2.1049.

Test Configuration



Remark: Measurement setup for testing on Antenna connector

TEST PROCEDURE

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW is set to 3 times the RBW, -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.

TEST RESULTS

No non-compliance noted.



Test Data

Test Mode	CH	Frequency (MHz)	99% Bandwidth (kHz)
GSM 850 (Class B)	128	824.200	246.8075
	190	836.600	246.1936
	251	848.800	246.0096
GPRS 850 (Class 12)	128	824.200	246.0338
	190	836.600	250.1415
	251	848.800	241.7197
EDGE 850 (Class B)	128	824.200	244.3555
	190	836.570	241.9489
	251	848.800	251.2547
GSM 1900 (Class B)	512	1850.210	247.4547
	661	1880.000	242.5568
	810	1909.823	243.0451
GPRS 1900 (Class 12)	512	1850.210	243.2263
	661	1880.000	243.8855
	810	1909.823	246.0830
EDGE 1900 (Class 12)	512	1850.173	249.3360
	661	1880.000	243.3682
	810	1909.800	244.6230



Test Mode	CH	Frequency (MHz)	99% Bandwidth (MHz)
WCDMA (Band II)	9262	1852.40	4.1713
	9400	1880.00	4.1739
	9538	1907.60	4.1858
WCDMA (Band V)	4132	826.40	4.1804
	4183	836.60	4.1970
	4233	846.60	4.1694
WCDMA / HSDPA (BAND II)	9262	1852.40	4.1874
	9400	1880.00	4.1819
	9538	1907.60	4.1851
WCDMA / HSDPA (BAND V)	4132	826.40	4.1722
	4183	836.60	4.2009
	4233	846.60	4.1986

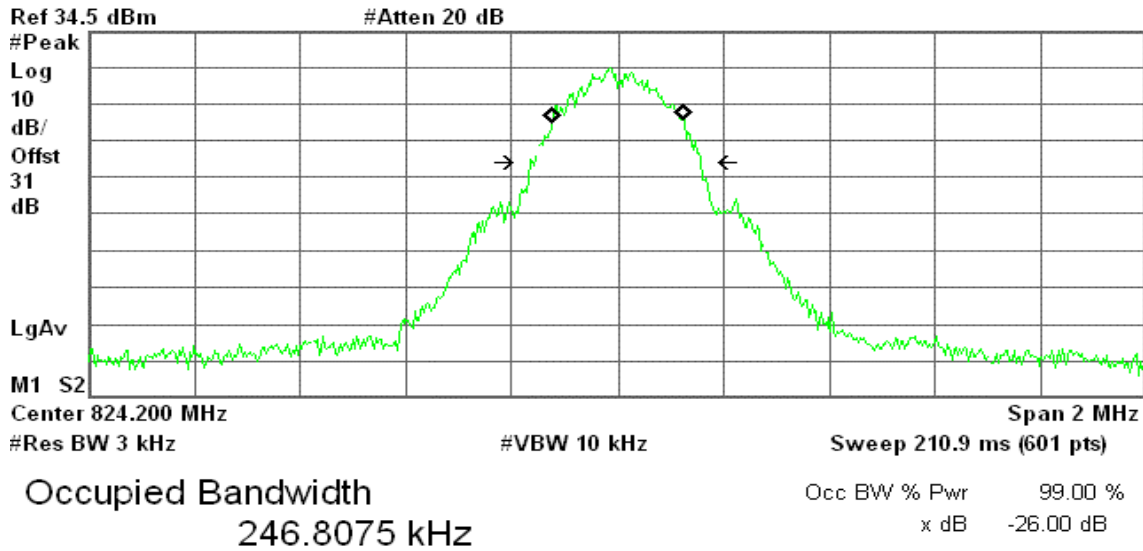


Test Plot

GSM 850 (CH Low)

Agilent 14:11:18 Nov 10, 2008

R T

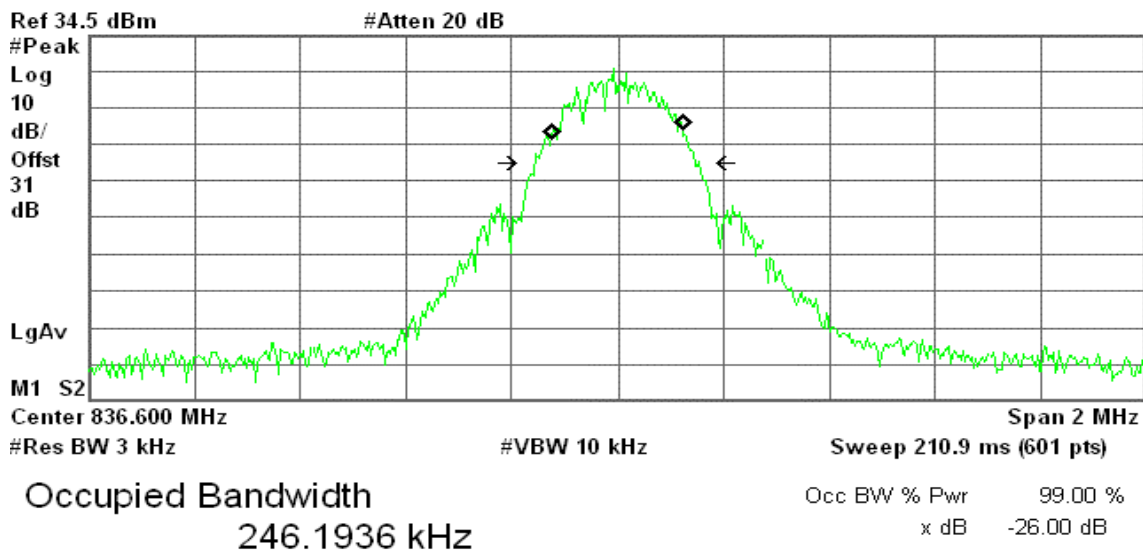


Transmit Freq Error 1.566 kHz
x dB Bandwidth 321.744 kHz

GSM 850 (CH Mid)

Agilent 14:12:06 Nov 10, 2008

R T



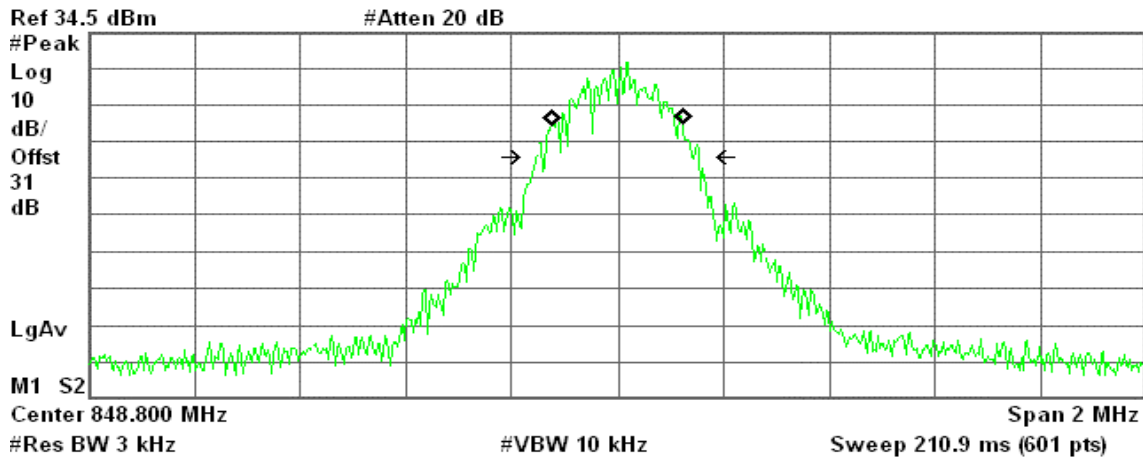
Transmit Freq Error -1.142 kHz
x dB Bandwidth 308.984 kHz



GSM 850 (CH High)

Agilent 14:12:24 Nov 10, 2008

R T



Occupied Bandwidth
246.0096 kHz

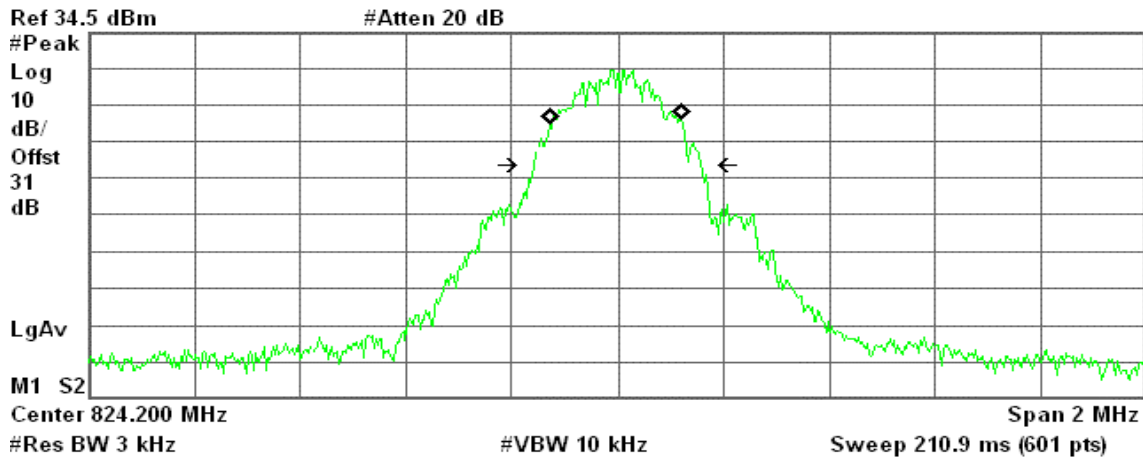
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -1.277 kHz
x dB Bandwidth 306.479 kHz

GPRS 850 (CH Low)

Agilent 14:11:33 Nov 10, 2008

R T



Occupied Bandwidth
246.0338 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

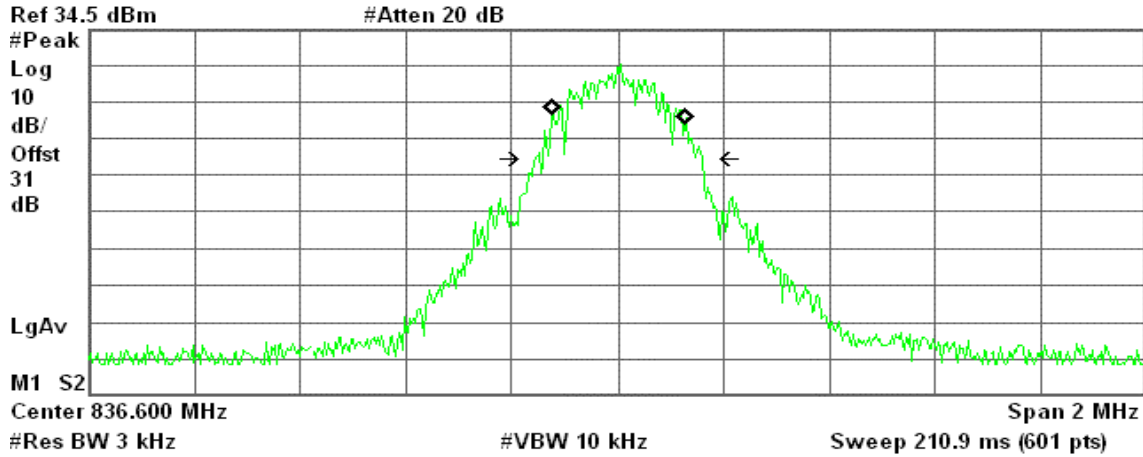
Transmit Freq Error -2.157 kHz
x dB Bandwidth 312.901 kHz



GPRS 850 (CH Mid)

Agilent 14:11:54 Nov 10, 2008

R T



Occupied Bandwidth
250.1415 kHz

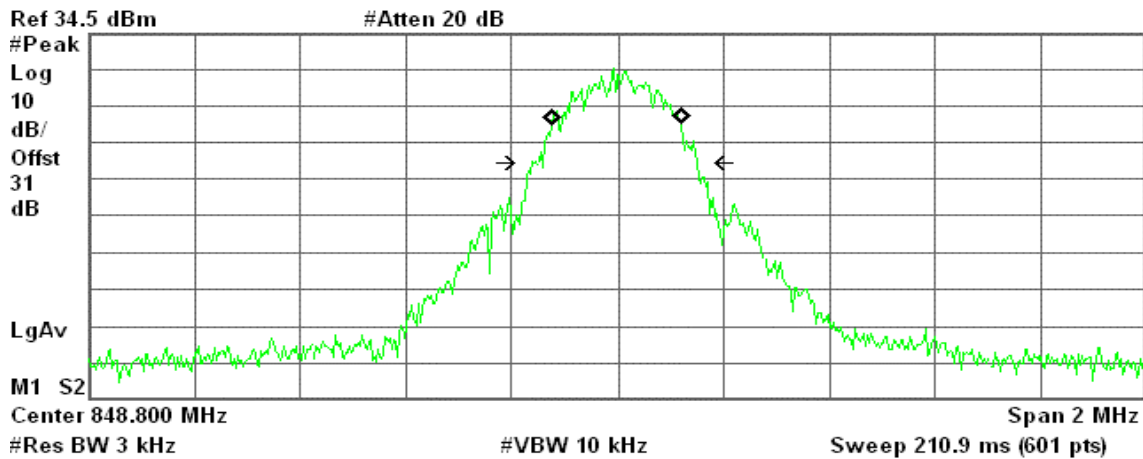
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 3.229 kHz
x dB Bandwidth 313.909 kHz

GPRS 850(CH High)

Agilent 14:12:36 Nov 10, 2008

R T



Occupied Bandwidth
241.7197 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

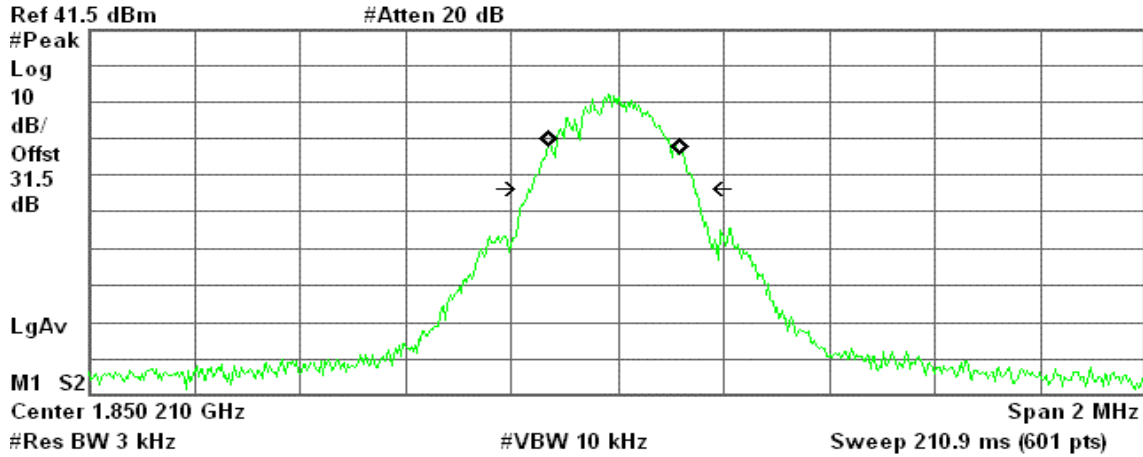
Transmit Freq Error -2.088 kHz
x dB Bandwidth 311.205 kHz



GSM 1900 (CH Low)

Agilent 14:37:20 Nov 10, 2008

R T



Occupied Bandwidth
247.4547 kHz

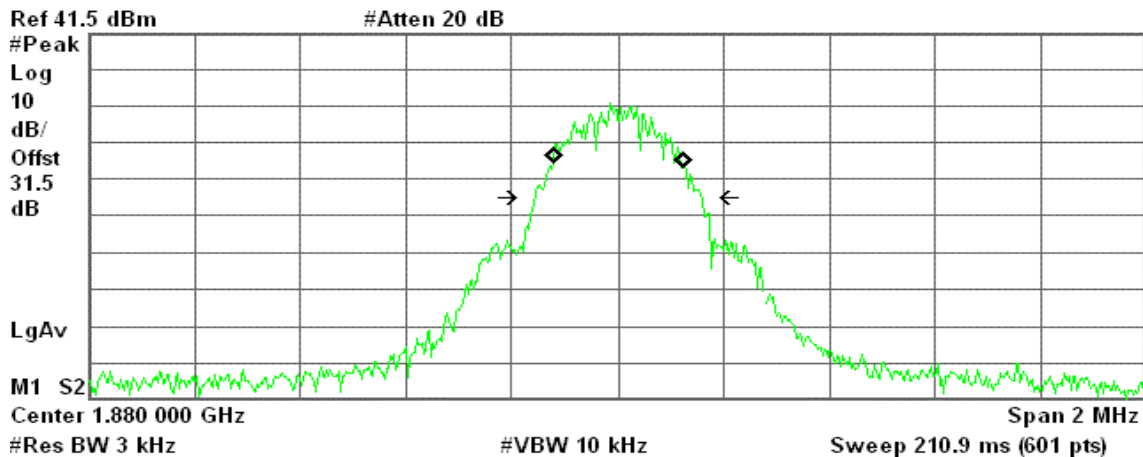
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -6.898 kHz
x dB Bandwidth 307.158 kHz

GSM 1900 (CH Mid)

Agilent 14:38:10 Nov 10, 2008

R T



Occupied Bandwidth
242.5568 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

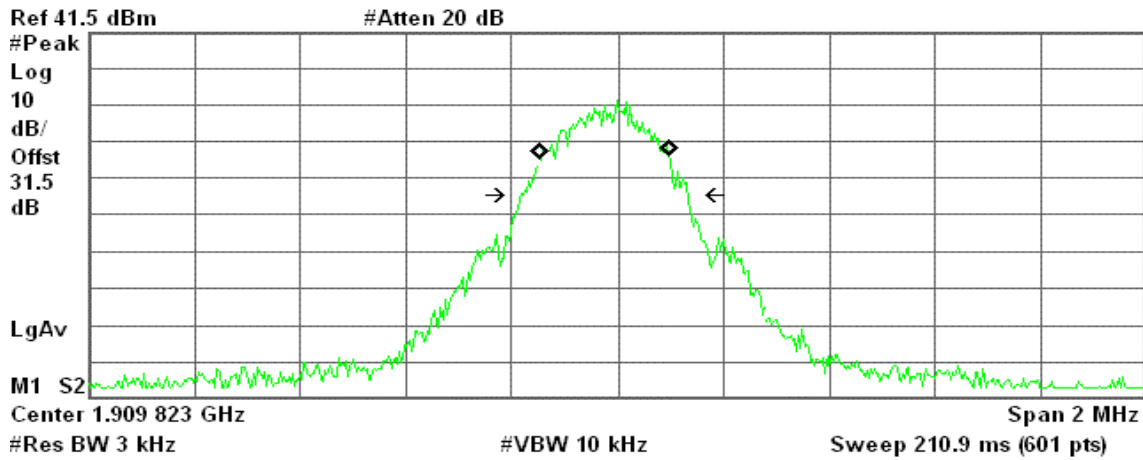
Transmit Freq Error 722.069 Hz
x dB Bandwidth 314.439 kHz



GSM 1900 (CH High)

Agilent 14:38:33 Nov 10, 2008

R T



Occupied Bandwidth
243.0451 kHz

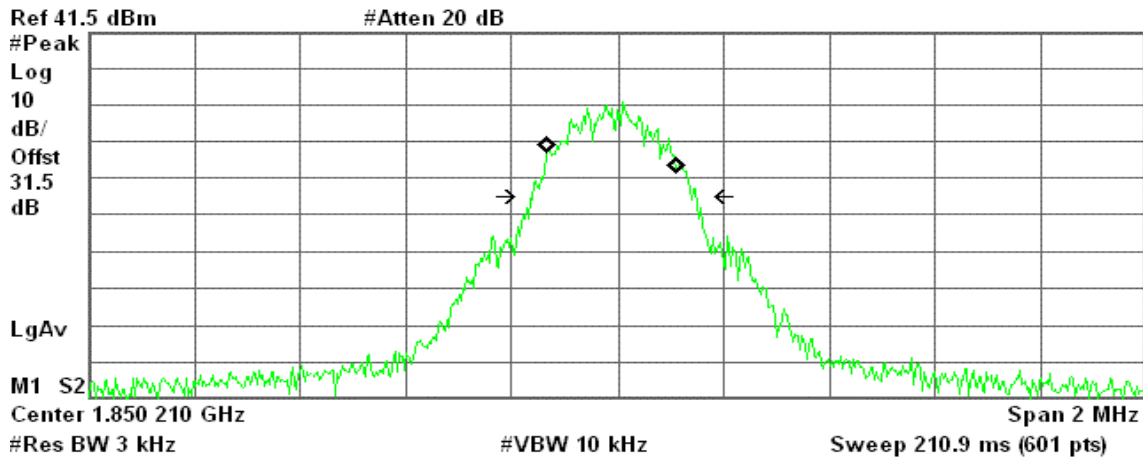
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -24.188 kHz
x dB Bandwidth 313.786 kHz

GPRS 1900 (CH Low)

Agilent 14:37:33 Nov 10, 2008

R T



Occupied Bandwidth
243.2263 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

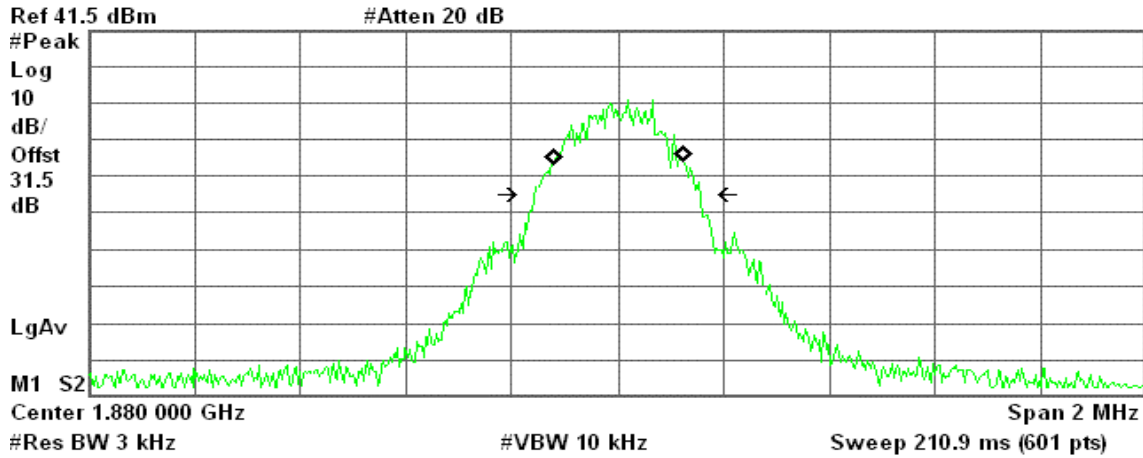
Transmit Freq Error -10.191 kHz
x dB Bandwidth 308.362 kHz



GPRS 1900 (CH Mid)

Agilent 14:37:52 Nov 10, 2008

R T



Occupied Bandwidth
243.8855 kHz

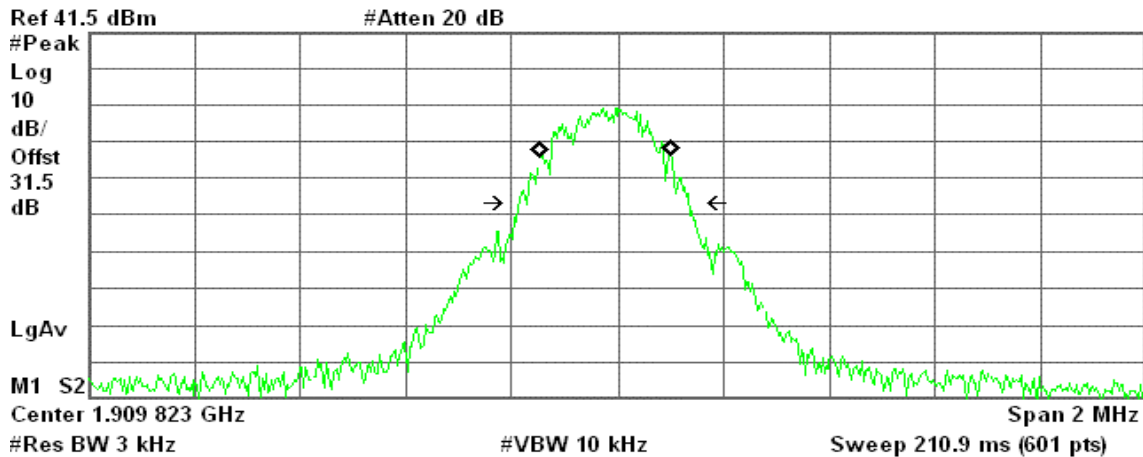
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 1.910 kHz
x dB Bandwidth 311.456 kHz

GPRS 1900 (CH High)

Agilent 14:38:46 Nov 10, 2008

R T



Occupied Bandwidth
246.0830 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

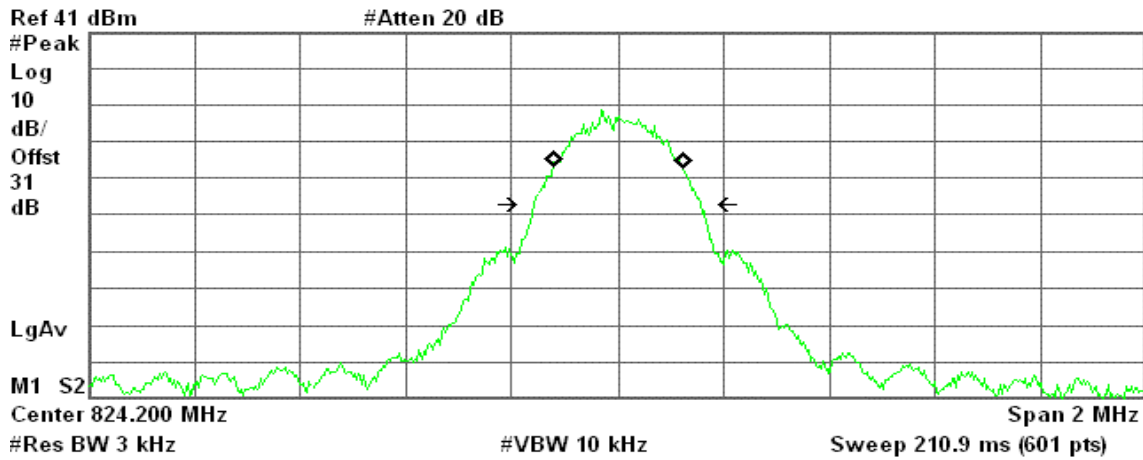
Transmit Freq Error -22.846 kHz
x dB Bandwidth 319.733 kHz



EDGE 850 (CH Low)

Agilent 15:40:33 Nov 10, 2008

R T



Occupied Bandwidth
244.3555 kHz

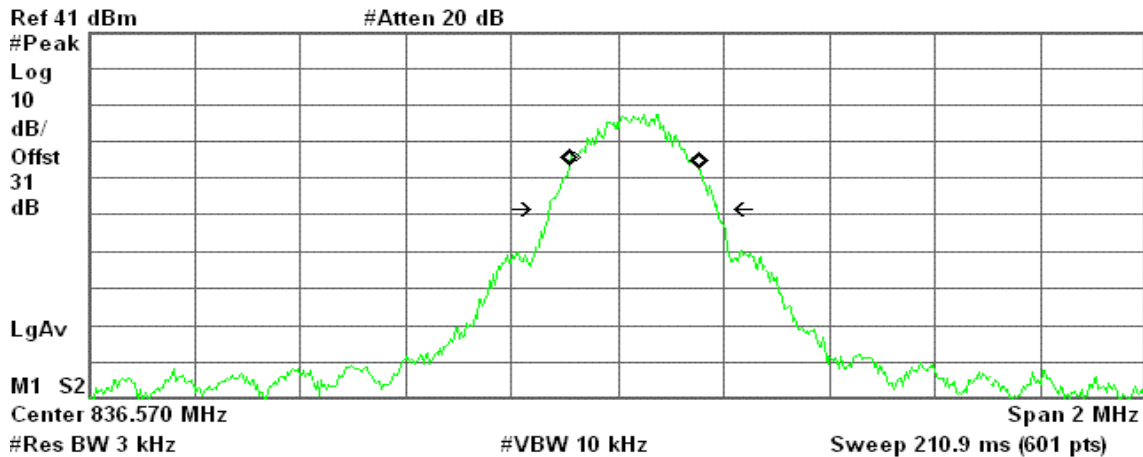
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 947.179 Hz
x dB Bandwidth 315.132 kHz

EDGE 850 (CH Mid)

Agilent 15:41:05 Nov 10, 2008

R L



Occupied Bandwidth
241.9489 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

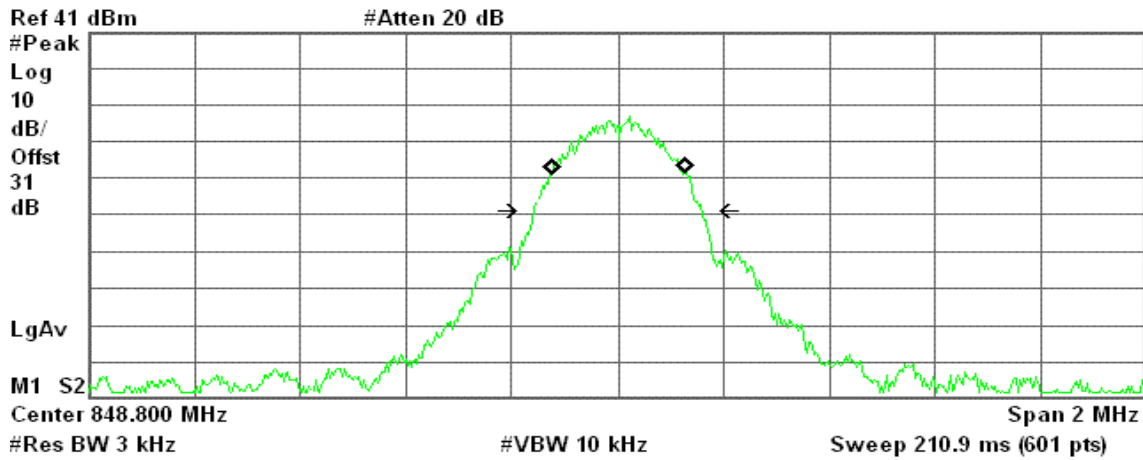
Transmit Freq Error 30.822 kHz
x dB Bandwidth 316.875 kHz



EDGE 850 (CH High)

Agilent 15:41:22 Nov 10, 2008

R T



Occupied Bandwidth
251.2547 kHz

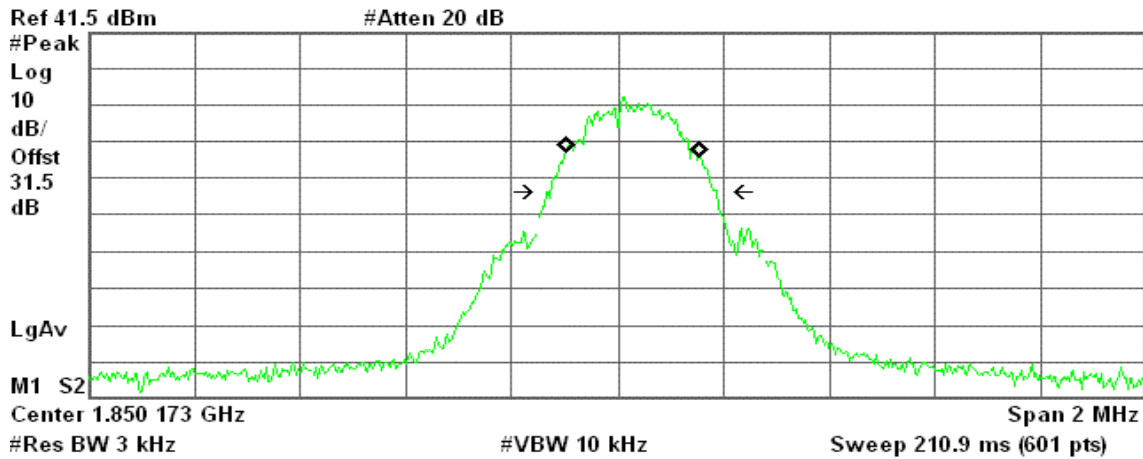
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 1.686 kHz
x dB Bandwidth 316.278 kHz

EDGE 1900 (CH Low)

Agilent 15:22:36 Nov 10, 2008

R T



Occupied Bandwidth
249.3360 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

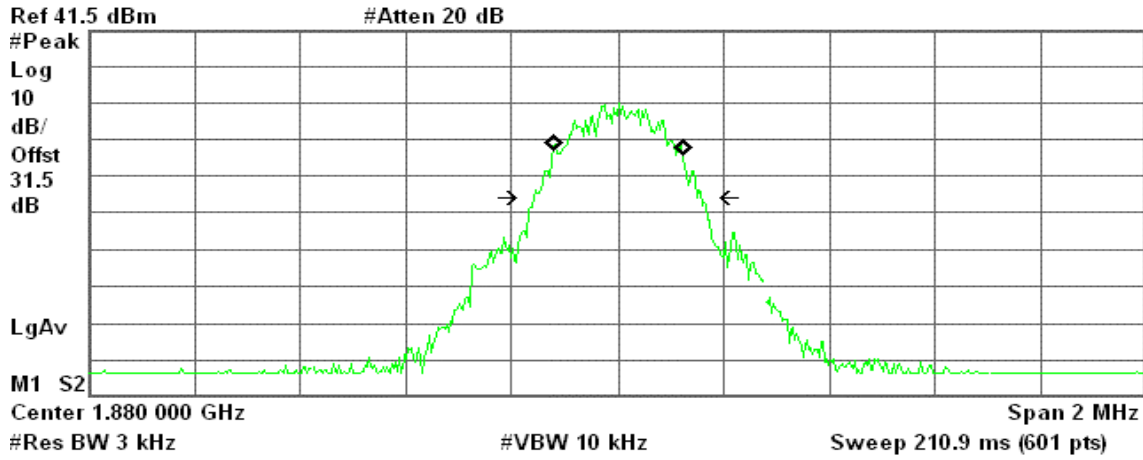
Transmit Freq Error 27.519 kHz
x dB Bandwidth 312.610 kHz



EDGE 1900 (CH Mid)

Agilent 15:22:57 Nov 10, 2008

R T



Occupied Bandwidth
243.3682 kHz

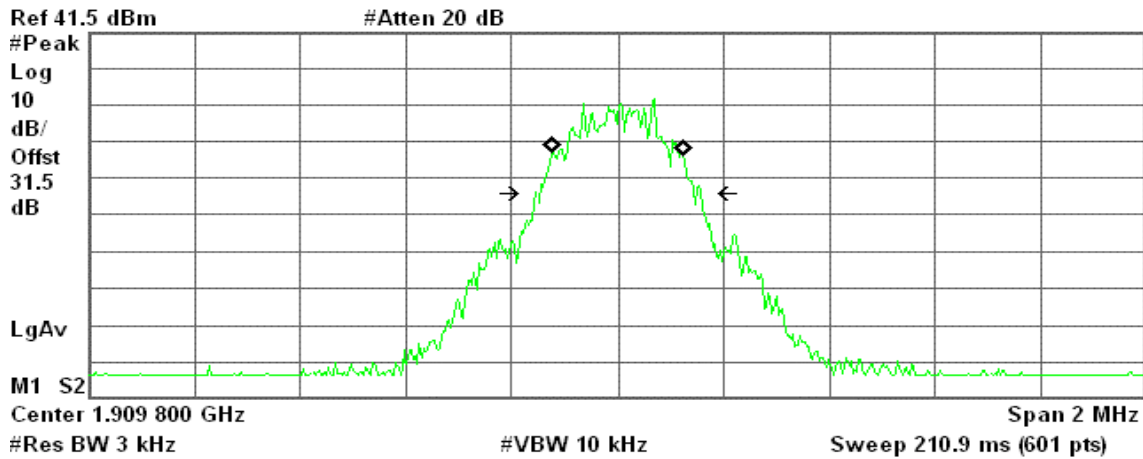
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 733.173 Hz
x dB Bandwidth 314.871 kHz

EDGE 1900 (CH High)

Agilent 15:23:25 Nov 10, 2008

R T



Occupied Bandwidth
244.6230 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

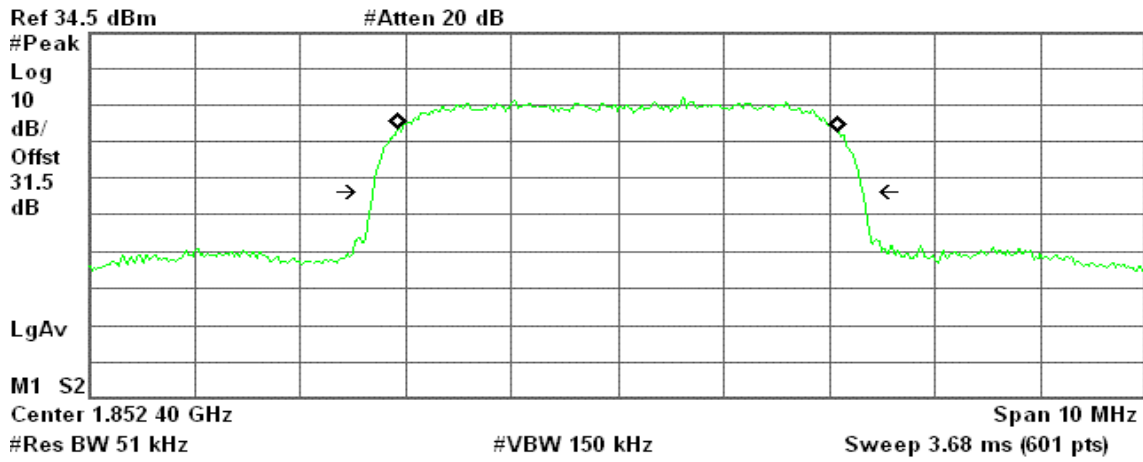
Transmit Freq Error -105.531 Hz
x dB Bandwidth 311.859 kHz



WCDMA Band II (CH Low)

Agilent 13:49:17 Nov 10, 2008

R T



Occupied Bandwidth
4.1713 MHz

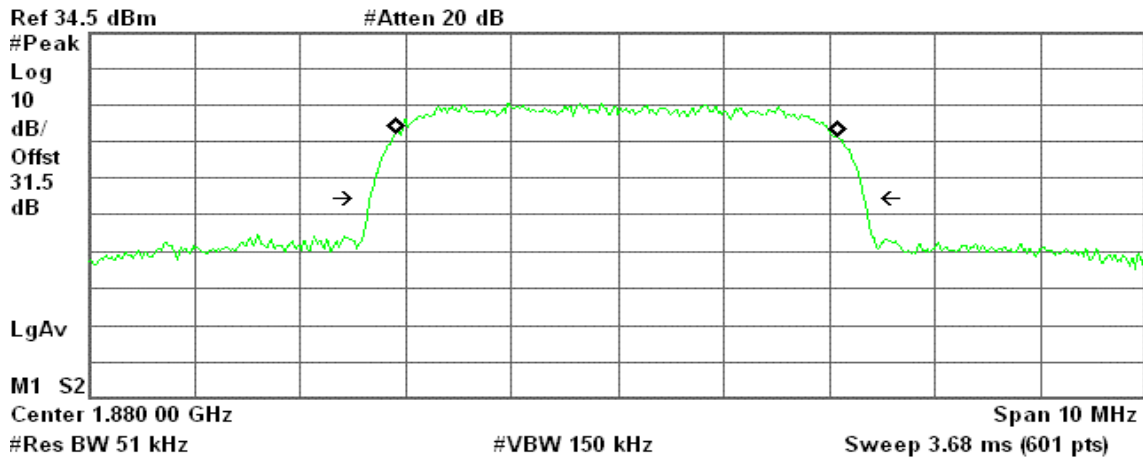
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 1.443 kHz
x dB Bandwidth 4.640 MHz

WCDMA Band II (CH Mid)

Agilent 13:49:32 Nov 10, 2008

R T



Occupied Bandwidth
4.1739 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

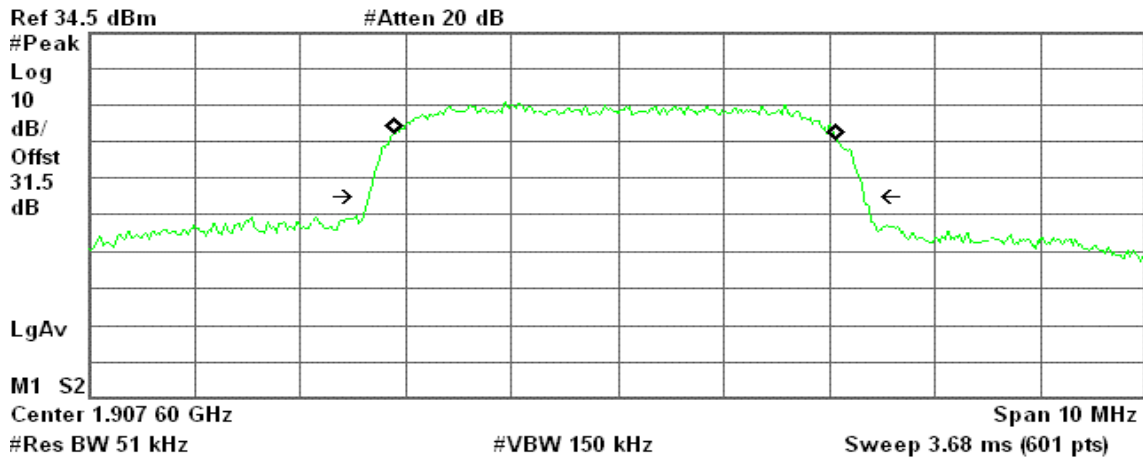
Transmit Freq Error -6.271 kHz
x dB Bandwidth 4.678 MHz



WCDMA Band II (CH High)

Agilent 13:49:50 Nov 10, 2008

R T



Occupied Bandwidth
4.1858 MHz

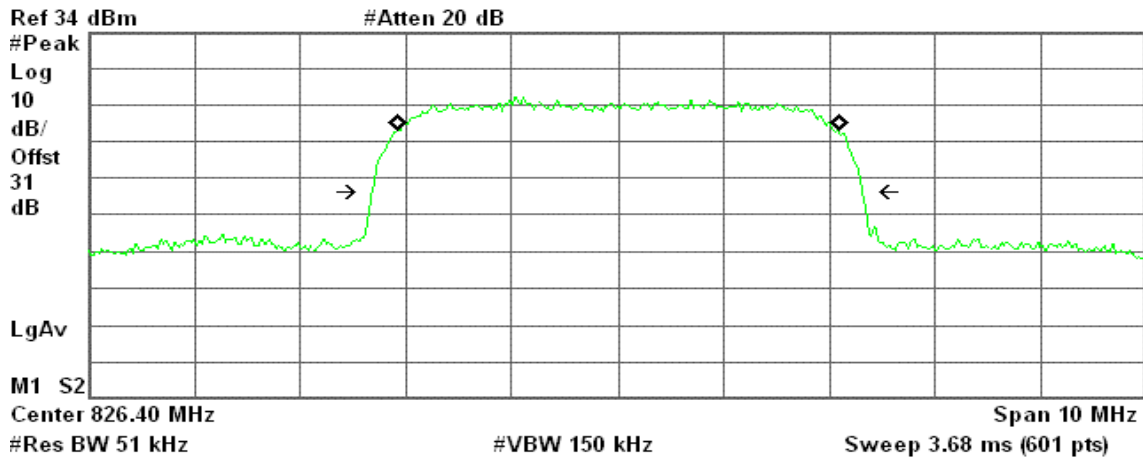
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -27.274 kHz
x dB Bandwidth 4.684 MHz

WCDMA Band V (CH Low)

Agilent 13:50:57 Nov 10, 2008

R T



Occupied Bandwidth
4.1804 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

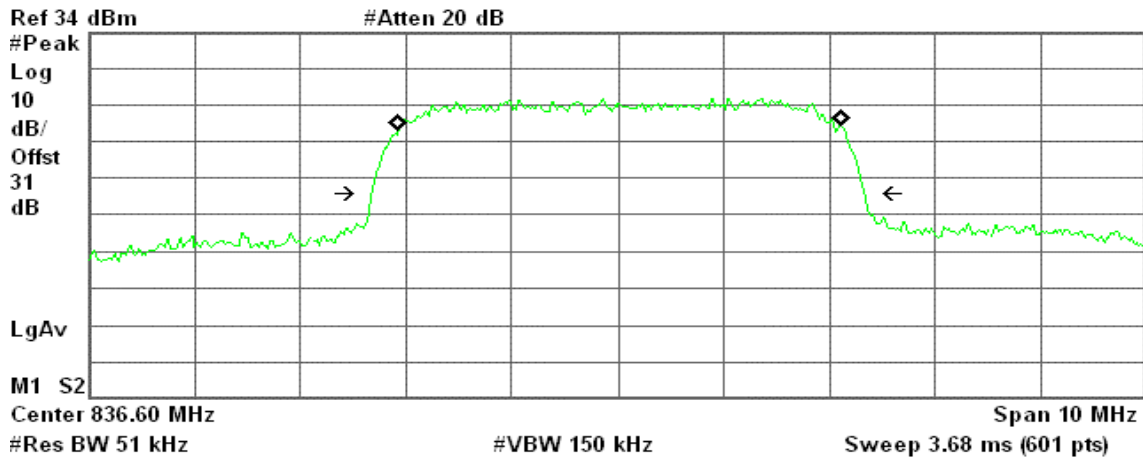
Transmit Freq Error 2.050 kHz
x dB Bandwidth 4.643 MHz



WCDMA Band V (CH Mid)

Agilent 13:51:13 Nov 10, 2008

R T



Occupied Bandwidth
4.1970 MHz

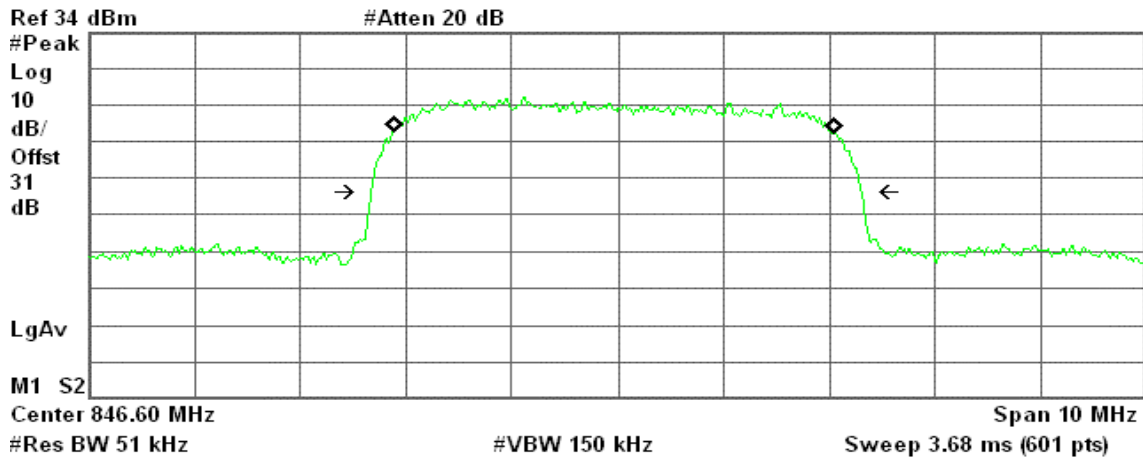
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 23.246 kHz
x dB Bandwidth 4.668 MHz

WCDMA Band V (CH High)

Agilent 13:51:39 Nov 10, 2008

R T



Occupied Bandwidth
4.1694 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

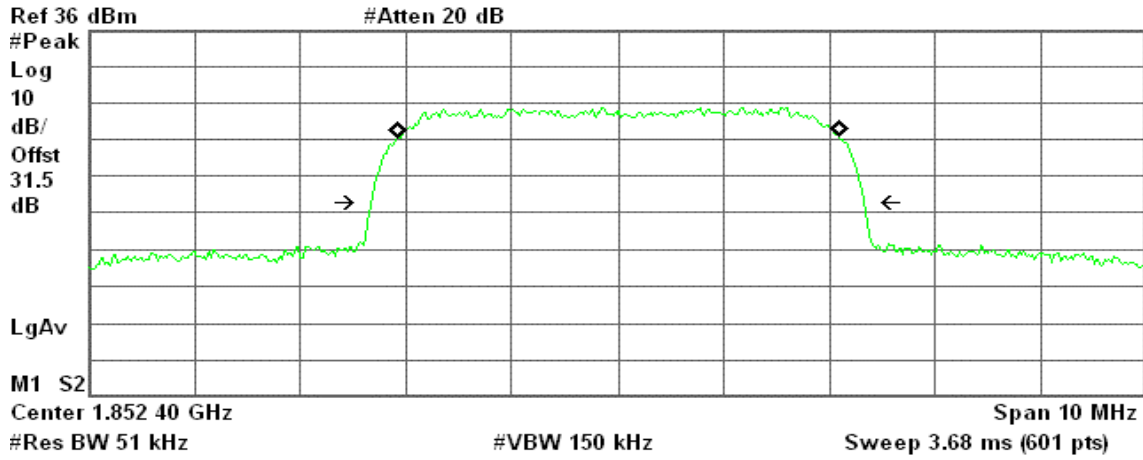
Transmit Freq Error -26.459 kHz
x dB Bandwidth 4.647 MHz



WCDMA / HSDPA Band II (CH Low)

Agilent 13:04:10 Nov 10, 2008

R T



Occupied Bandwidth
4.1874 MHz

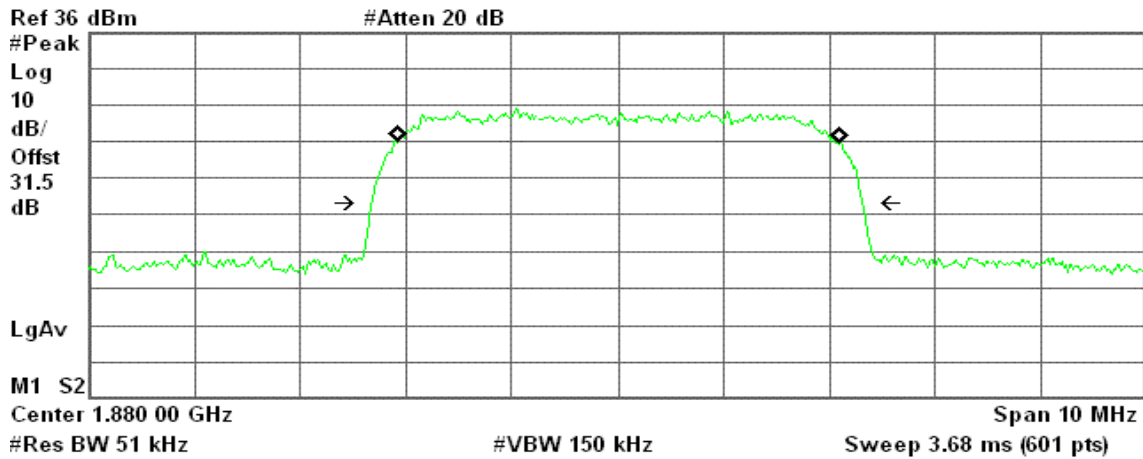
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 12.250 kHz
x dB Bandwidth 4.663 MHz

WCDMA / HSDPA Band II (CH Mid)

Agilent 13:04:44 Nov 10, 2008

R T



Occupied Bandwidth
4.1819 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

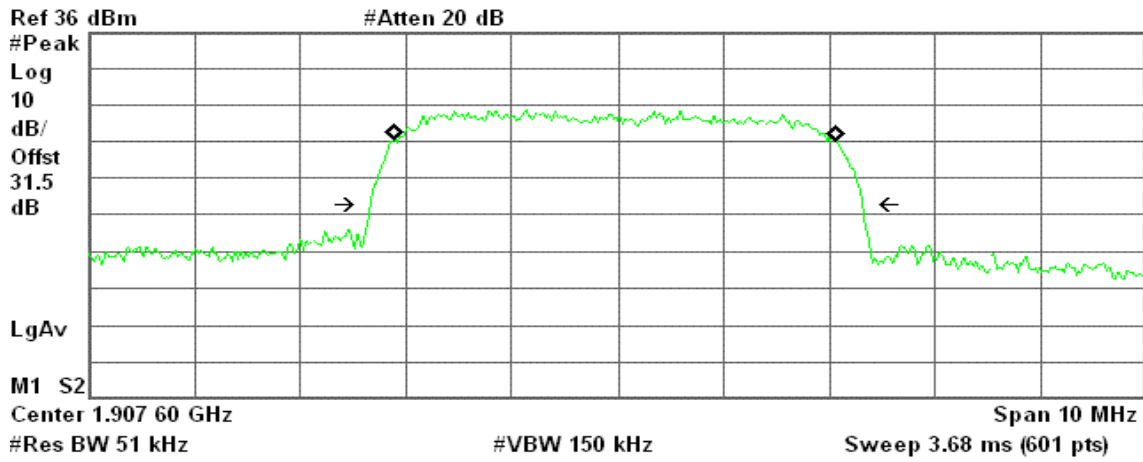
Transmit Freq Error 1.022 kHz
x dB Bandwidth 4.656 MHz



WCDMA / HSDPA Band II (CH High)

Agilent 13:05:04 Nov 10, 2008

R T



Occupied Bandwidth
4.1851 MHz

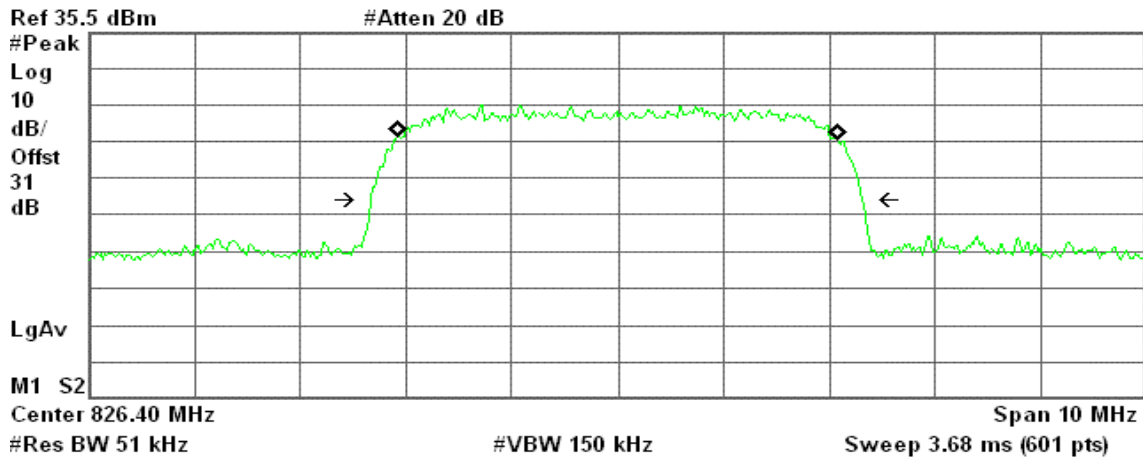
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -21.057 kHz
x dB Bandwidth 4.662 MHz

WCDMA / HSDPA Band V (CH Low)

Agilent 13:06:22 Nov 10, 2008

R T



Occupied Bandwidth
4.1722 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

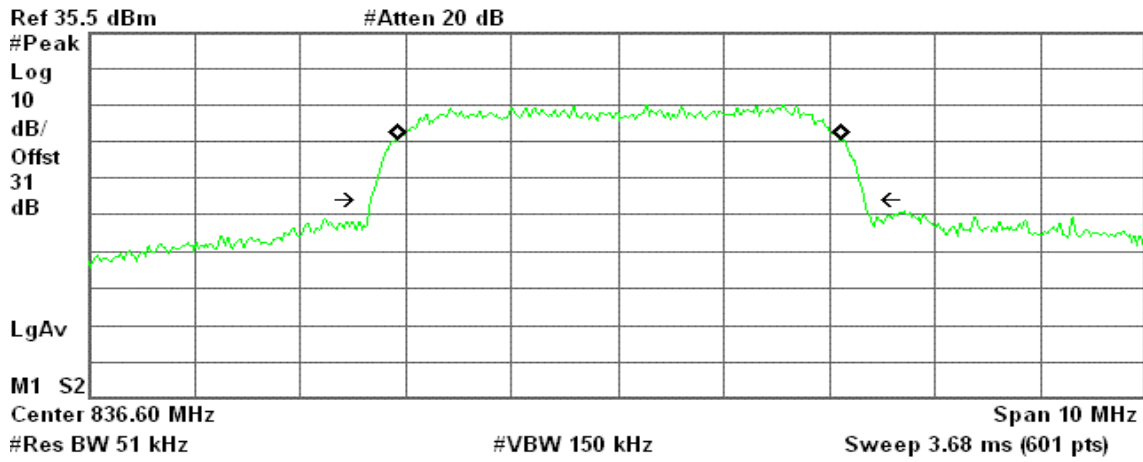
Transmit Freq Error 2.158 kHz
x dB Bandwidth 4.653 MHz



WCDMA / HSDPA Band V (CH Mid)

Agilent 13:06:37 Nov 10, 2008

R T



Occupied Bandwidth
4.2009 MHz

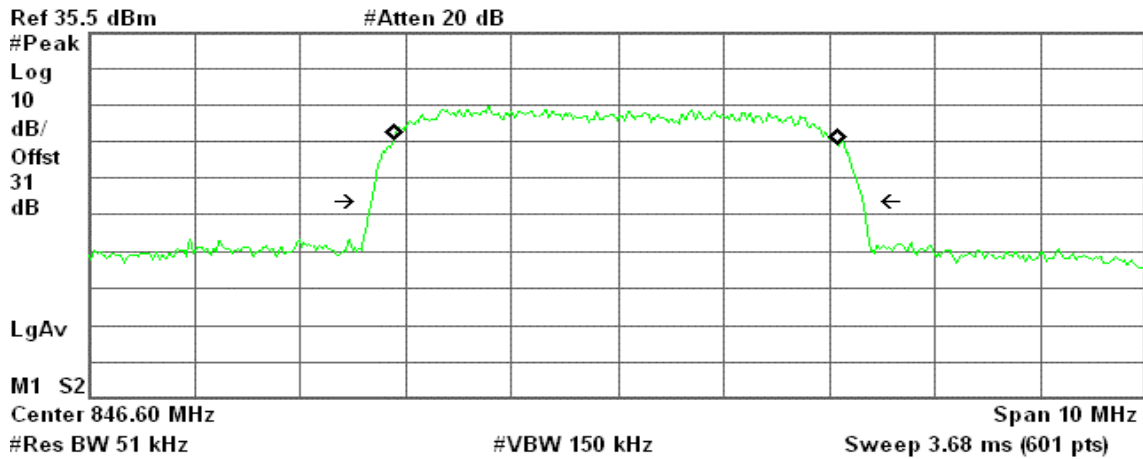
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 10.898 kHz
x dB Bandwidth 4.670 MHz

WCDMA / HSDPA Band V (CH High)

Agilent 13:06:52 Nov 10, 2008

R T



Occupied Bandwidth
4.1986 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -12.914 kHz
x dB Bandwidth 4.653 MHz



7.5 OUT OF BAND EMISSION AT ANTENNA TERMINALS

LIMIT

According to FCC §2.1051, FCC §22.917, FCC §24.238(a).

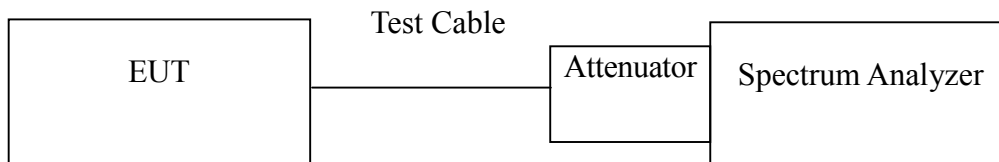
Out of Band Emissions: The mean power of emission must be attenuated below the mean power of the non-modulated carrier (P) on any frequency twice or more than twice the fundamental frequency by at least $43 + 10 \log P$ dB.

Mobile Emissions in Base Frequency Range: The mean power of any emissions appearing in the base station frequency range from cellular mobile transmitters operated must be attenuated to a level not exceed -80 dBm at the transmit antenna connector.

Band Edge Requirements: In the 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the Out of band Emission

Test Configuration

Out of band emission at antenna terminals:



TEST PROCEDURE

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm

Band Edge Requirements (824 MHz and 849 MHz /1850MHz and 1910MHz): In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

TEST RESULTS

No non-compliance noted.



Test Data

Mode	CH	Location	Description
GSM 850 (Class B)	128	Figure 7-1	Conducted spurious emissions, 30MHz - 20GHz
	190	Figure 7-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 7-3	Conducted spurious emissions, 30MHz - 20GHz
GPRS 850 (Class 12)	128	Figure 7-4	Conducted spurious emissions, 30MHz - 20GHz
	190	Figure 7-5	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 7-6	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
GSM 1900 (Class B)	512	Figure 8-1	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 8-2	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 8-3	Conducted spurious emissions, 30MHz - 20GHz
GPRS 1900 (Class 12)	512	Figure 8-4	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 8-5	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 8-6	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
GSM 850 (Class B)	128	Figure 9-1	Band Edge emissions
	251	Figure 9-2	Band Edge emissions
GPRS 850 (Class 12)	128	Figure 9-3	Band Edge emissions
	251	Figure 9-4	Band Edge emissions

Mode	CH	Location	Description
GSM 1900 (Class B)	512	Figure 10-1	Band Edge emissions
	810	Figure 10-2	Band Edge emissions
GPRS 1900 (Class 12)	512	Figure 10-3	Band Edge emissions
	810	Figure 10-4	Band Edge emissions



Mode	CH	Location	Description
EDGE 850 (Class 12)	128	Figure 11-1	Conducted spurious emissions, 30MHz - 20GHz
	190	Figure 11-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 11-3	Conducted spurious emissions, 30MHz - 20GHz
EDGE 1900 (Class 12)	512	Figure 11-4	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 11-5	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 11-6	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
EDGE 850 (Class 12)	128	Figure 12-1	Band Edge emissions
	251	Figure 12-2	Band Edge emissions
EDGE 1900 (Class 12)	512	Figure 12-3	Band Edge emissions
	810	Figure 12-4	Band Edge emissions



Test Plot

GSM 850

Figure 7-1: Out of Band emission at antenna terminals – GSM CH Low

Agilent 14:19:26 Nov 10, 2008

R T

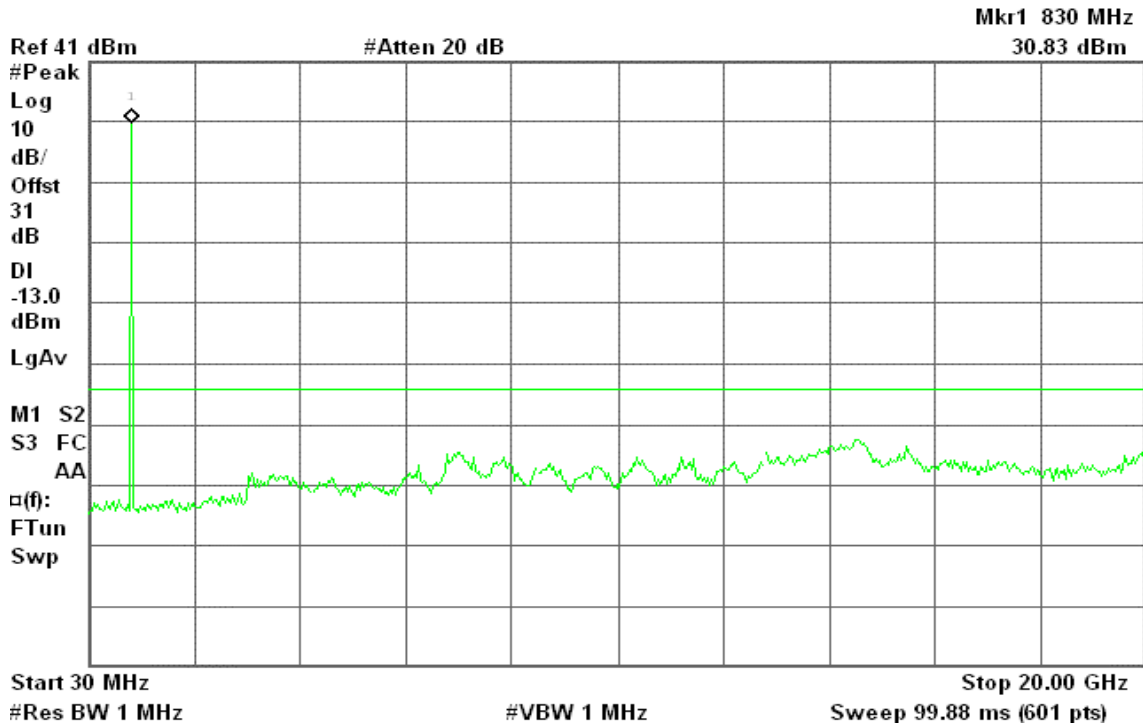


Figure 7-2: Out of Band emission at antenna terminals – GSM CH Mid

Agilent 14:18:54 Nov 10, 2008

R T

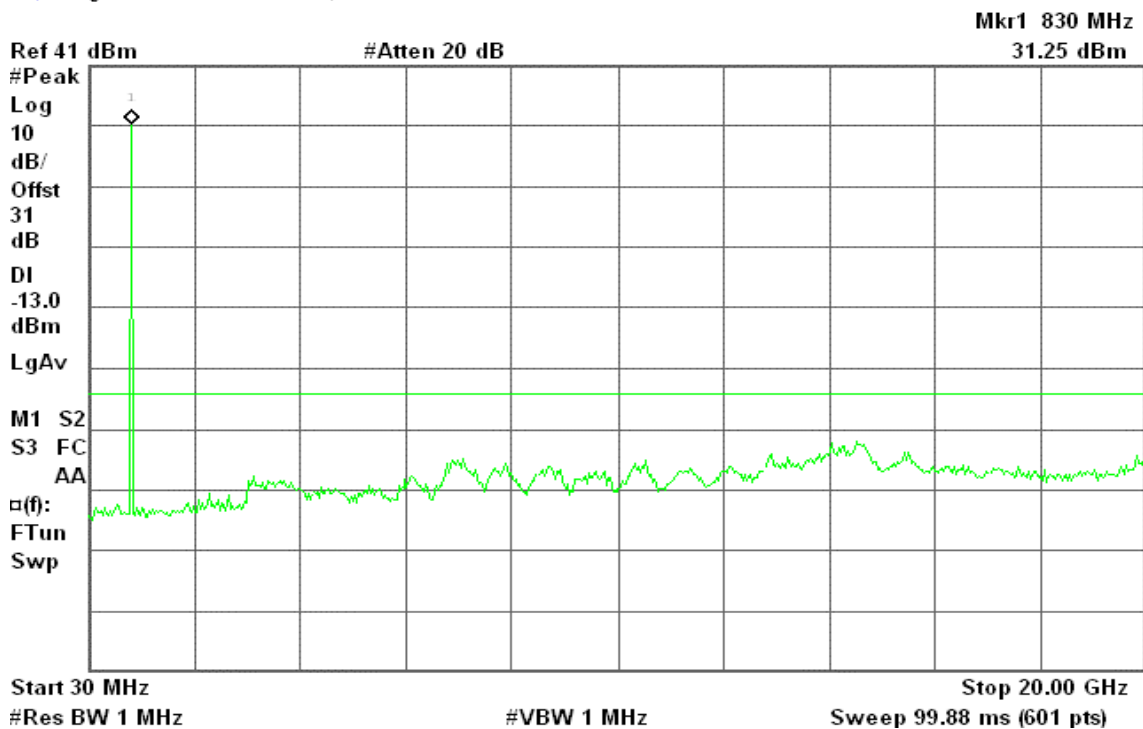
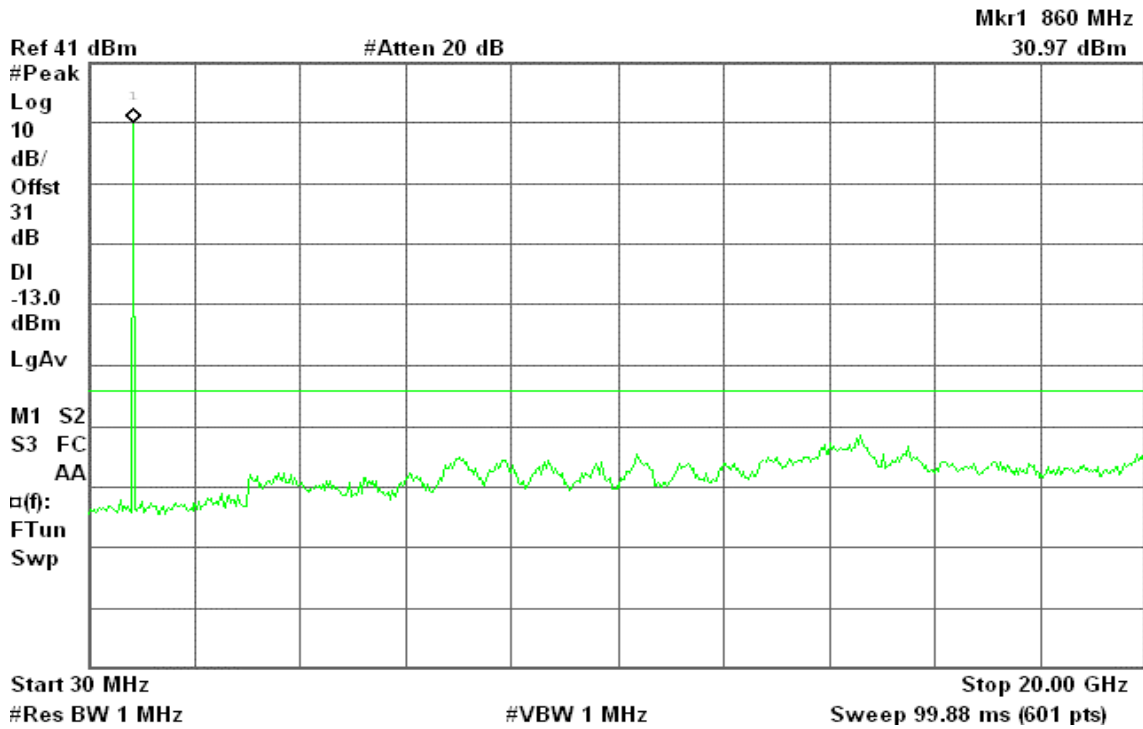




Figure 7-3: Out of Band emission at antenna terminals – GSM CH High

Agilent 14:18:07 Nov 10, 2008

R T



GPRS 850

Figure 7-4: Out of Band emission at antenna terminals – GPRS CH Low

Agilent 14:19:43 Nov 10, 2008

R T

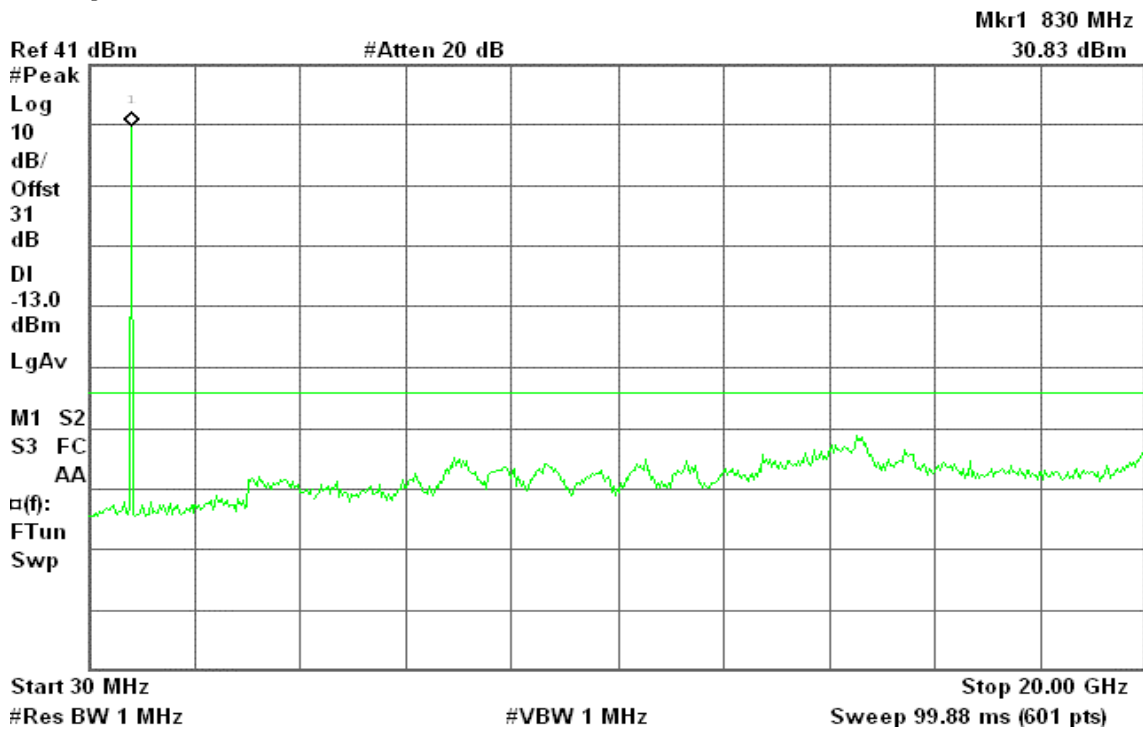




Figure 7-5: Out of Band emission at antenna terminals – GPRS CH Mid

Agilent 14:18:34 Nov 10, 2008

R T

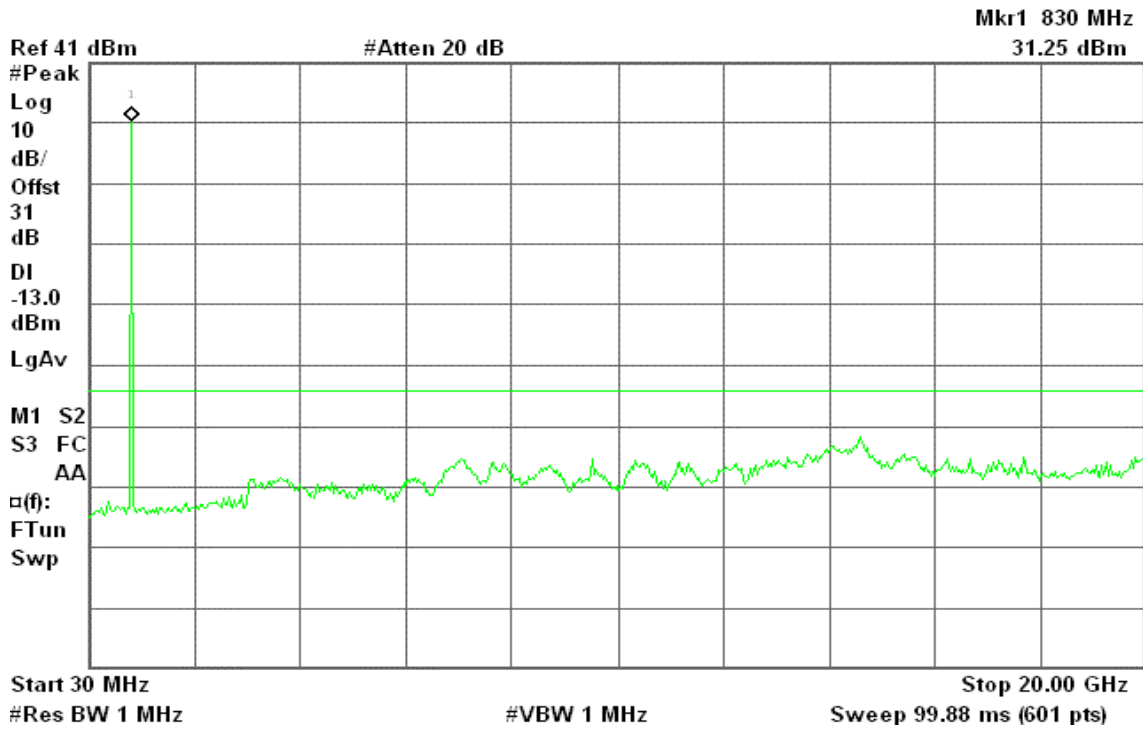
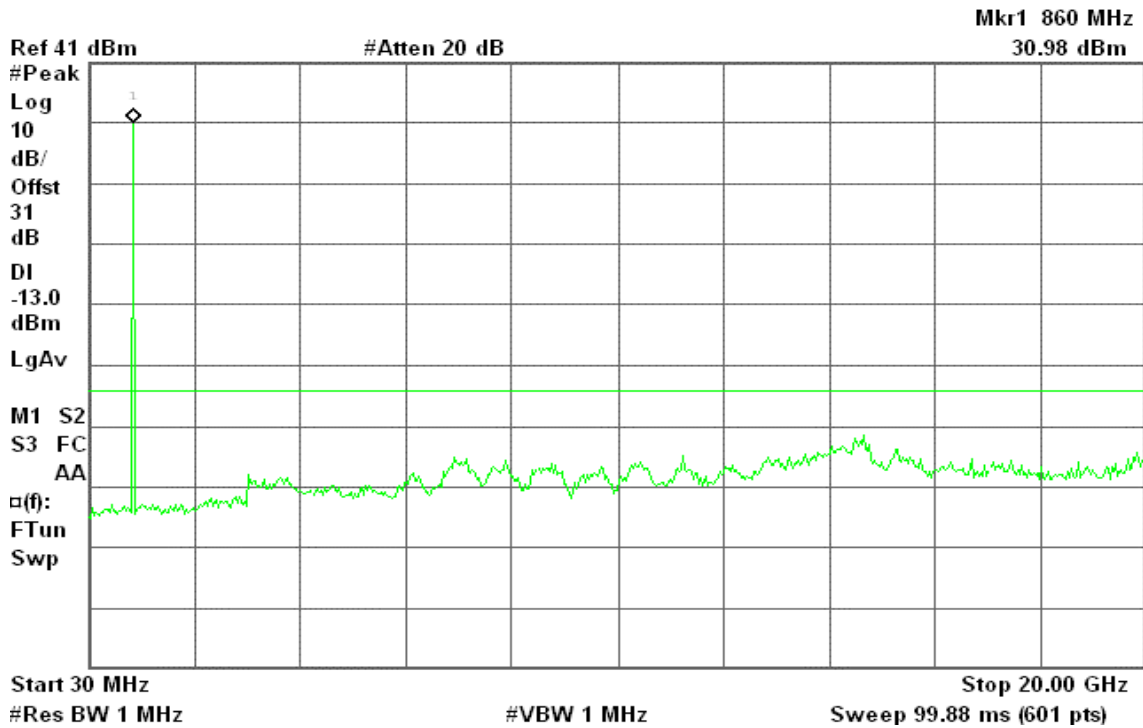


Figure 7-6: Out of Band emission at antenna terminals – GPRS CH High

Agilent 14:18:18 Nov 10, 2008

R T





GSM 1900

Figure 8-1: Out of Band emission at antenna terminals – GSM CH Low

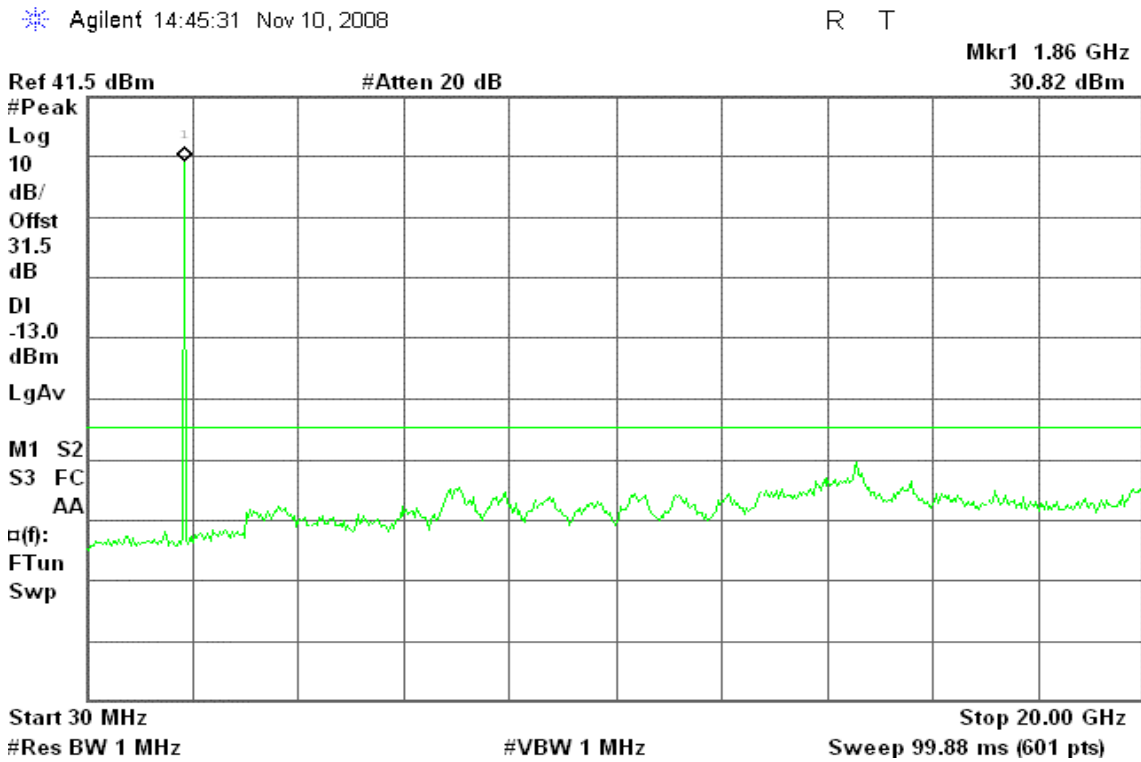


Figure 8-2: Out of Band emission at antenna terminals – GSM CH Mid

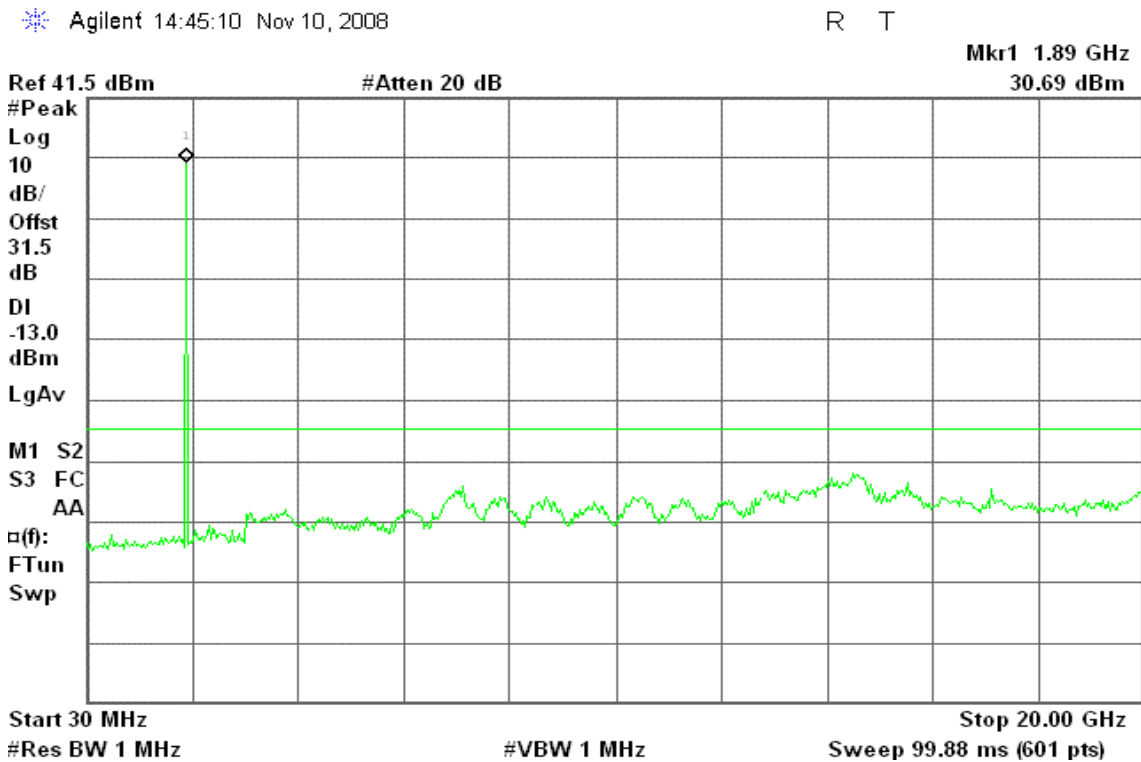
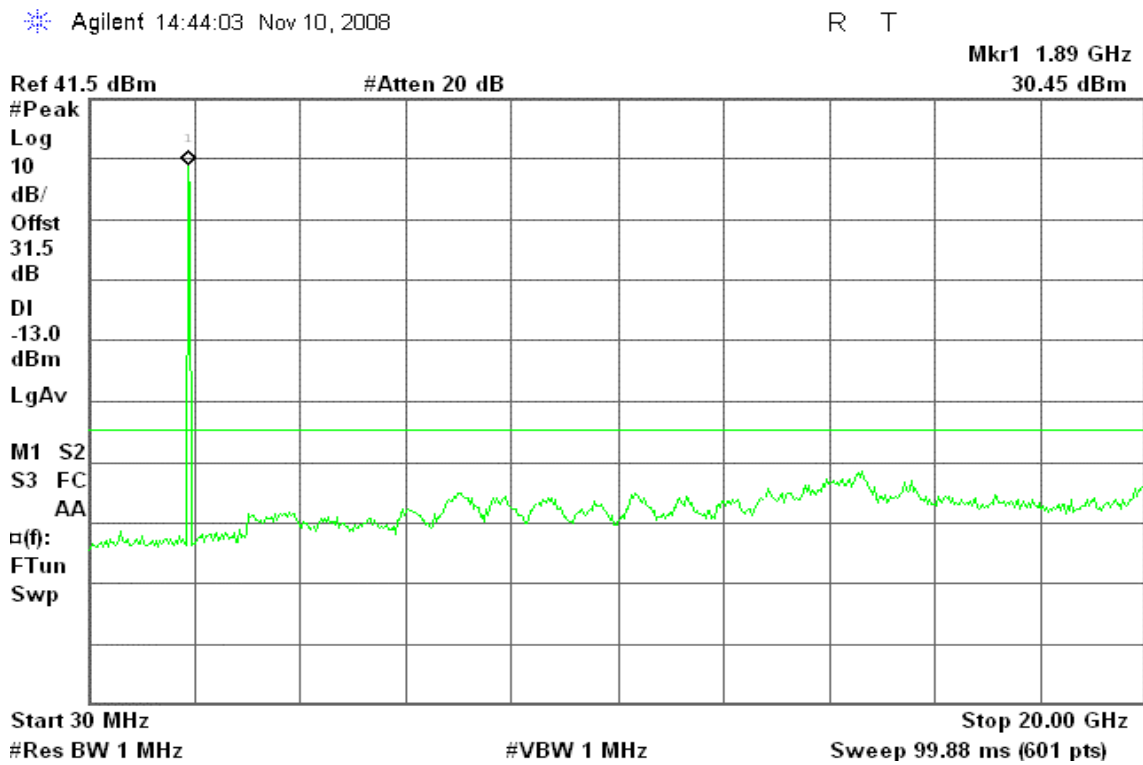




Figure 8-3: Out of Band emission at antenna terminals – GSM CH High



GPRS 1900

Figure 8-4: Out of Band emission at antenna terminals – GPRS CH Low

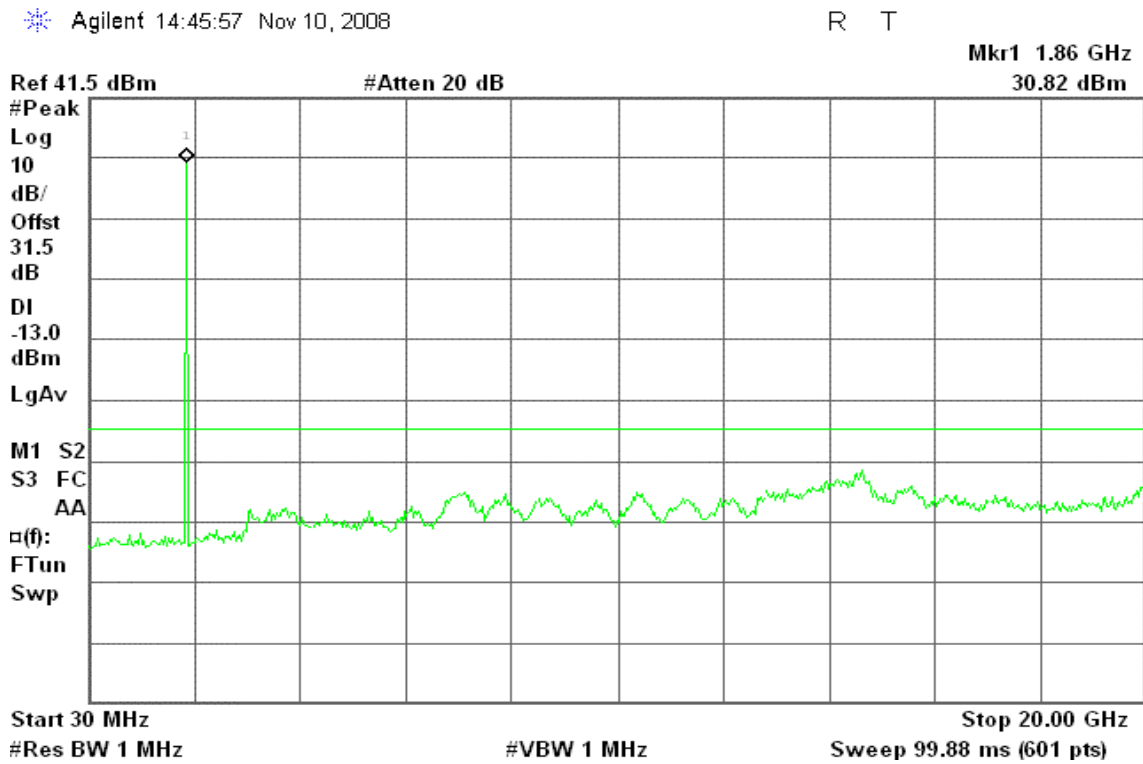




Figure 8-5: Out of Band emission at antenna terminals – GPRS CH Mid

Agilent 14:44:52 Nov 10, 2008

R T

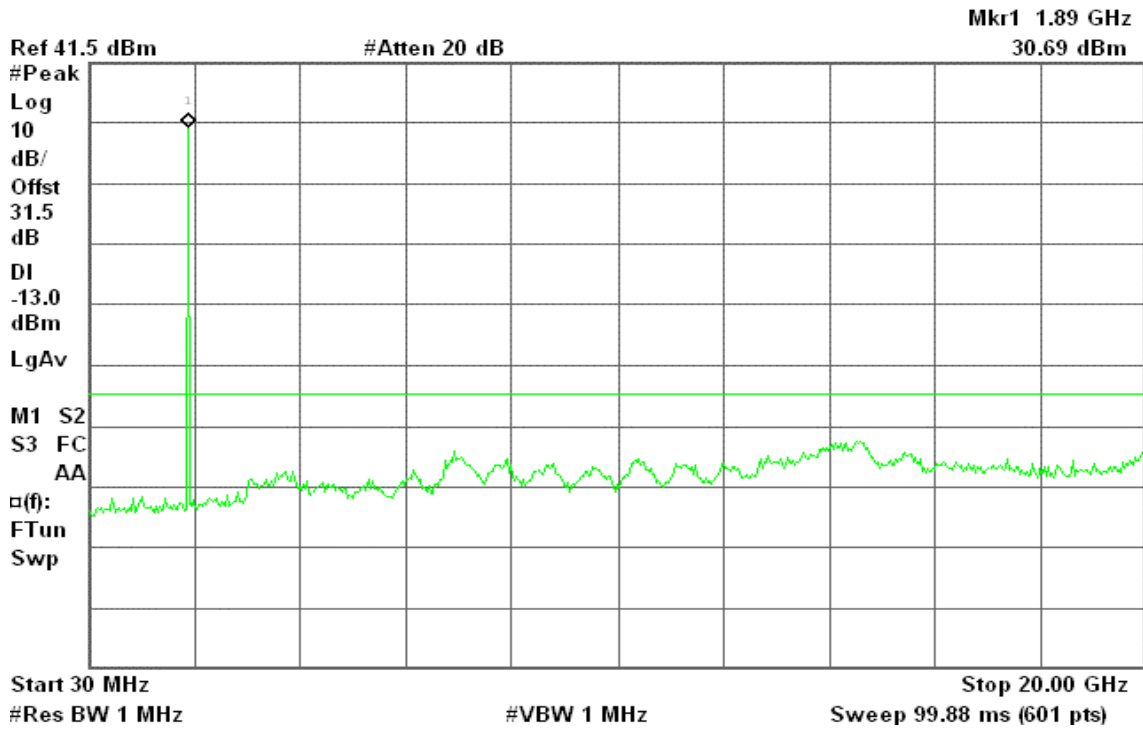
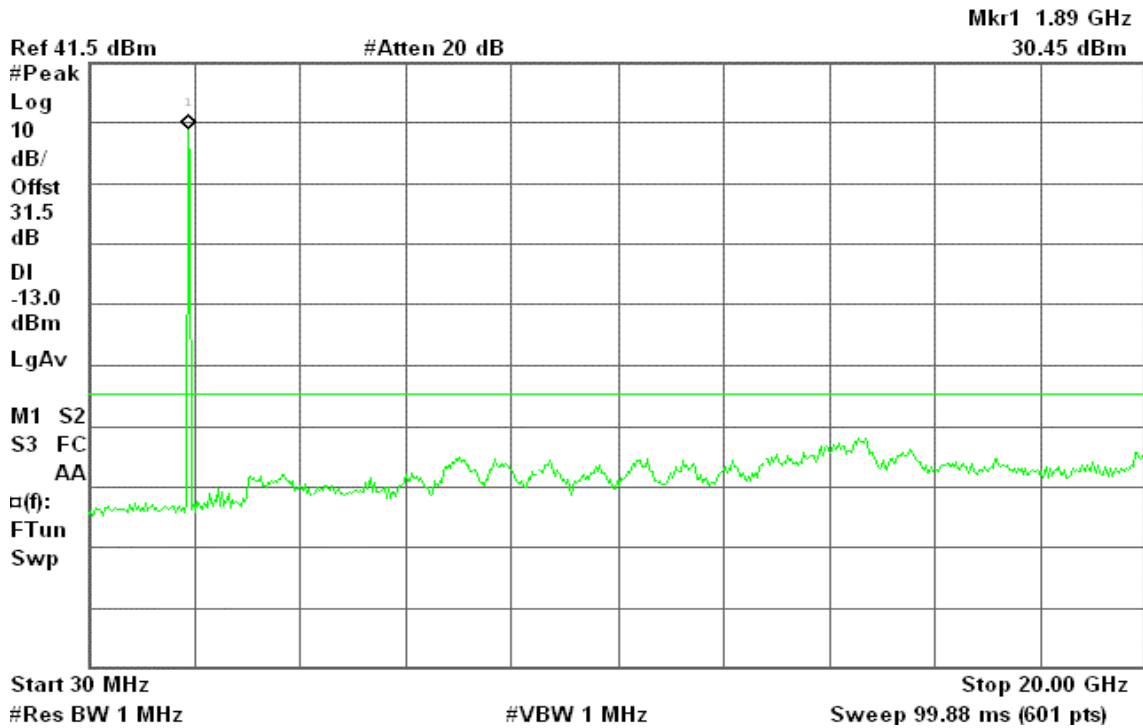


Figure 8-6: Out of Band emission at antenna terminals – GPRS CH High

Agilent 14:44:24 Nov 10, 2008

R T





GSM 850

Figure 9-1: Band Edge emissions – GSM CH Low

Agilent 14:14:59 Nov 10, 2008

R T

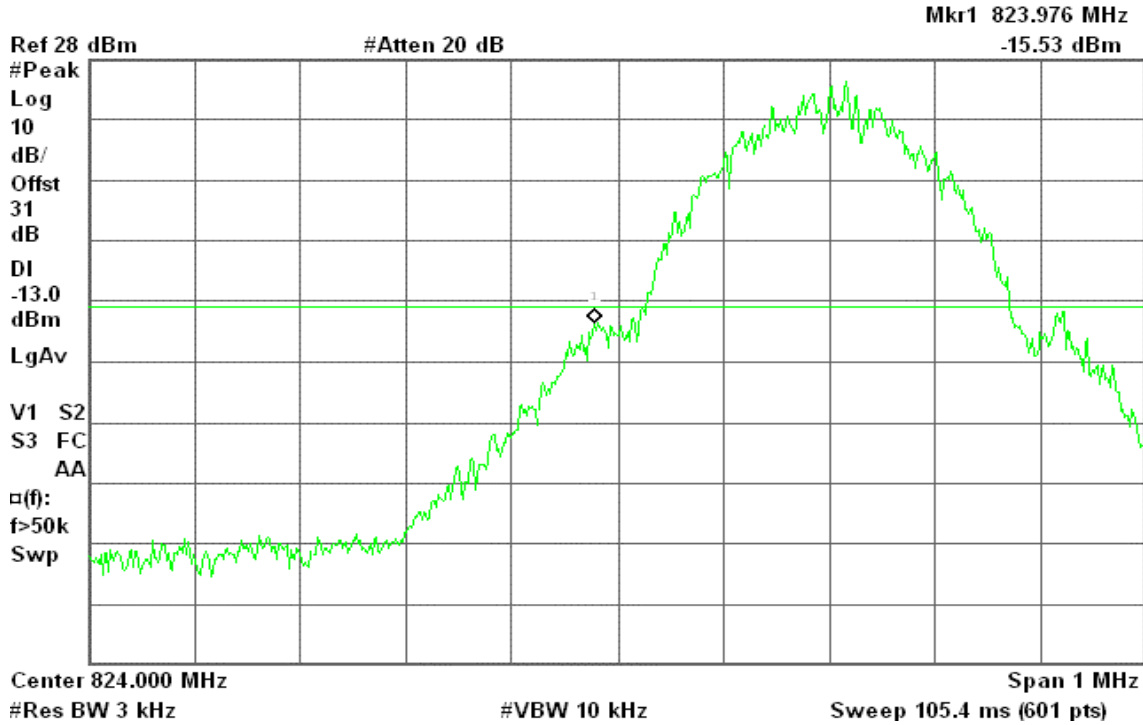
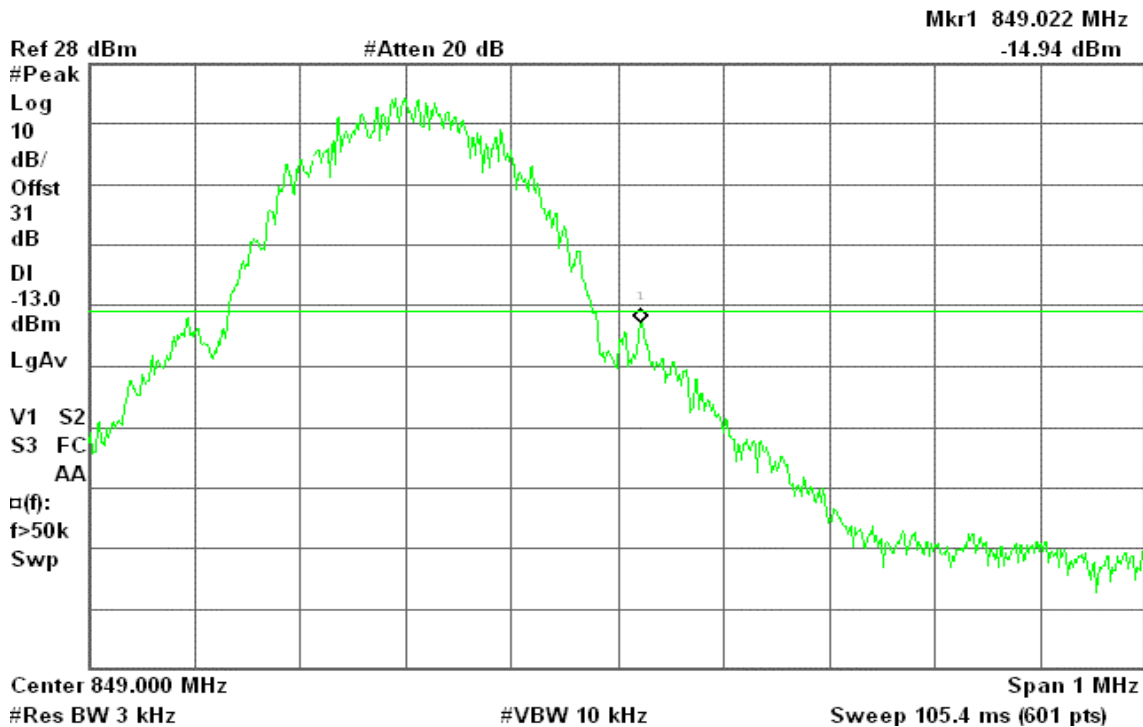


Figure 9-2: Band Edge emissions – GSM CH High

Agilent 14:17:04 Nov 10, 2008

R T





GPRS 850

Figure 9-3: Band Edge emissions – GPRS CH Low

Agilent 14:15:28 Nov 10, 2008

R T

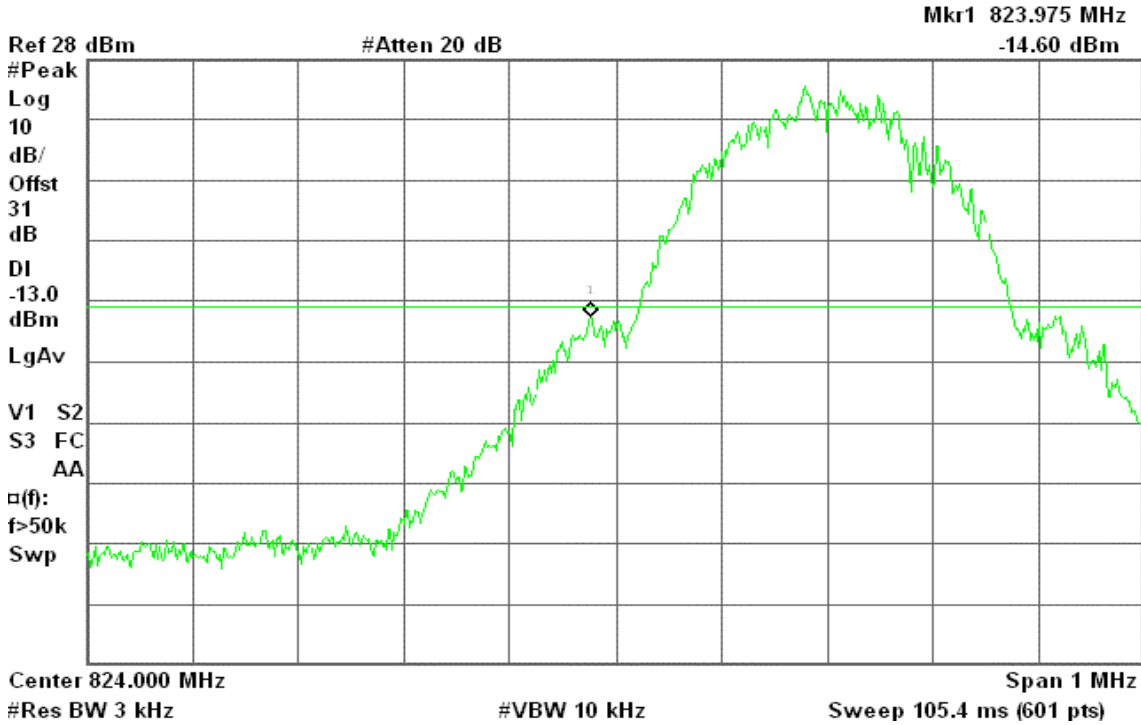
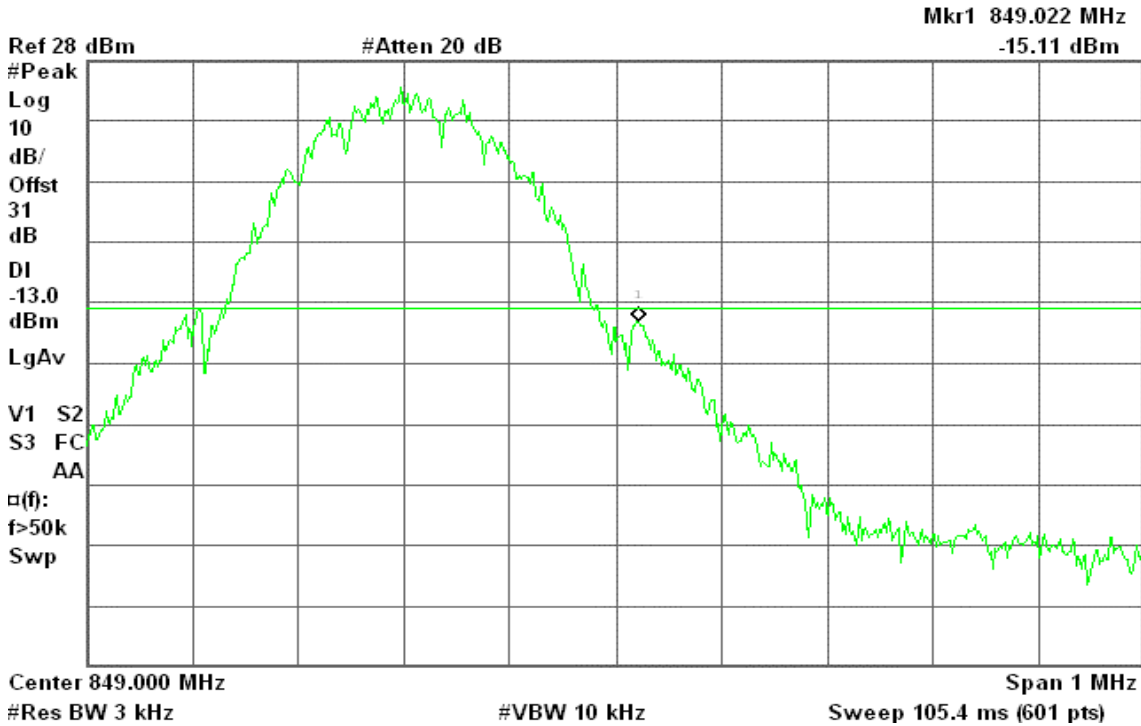


Figure 9-4: Band Edge emissions –GPRS CH High

Agilent 14:16:05 Nov 10, 2008

R T





GSM 1900

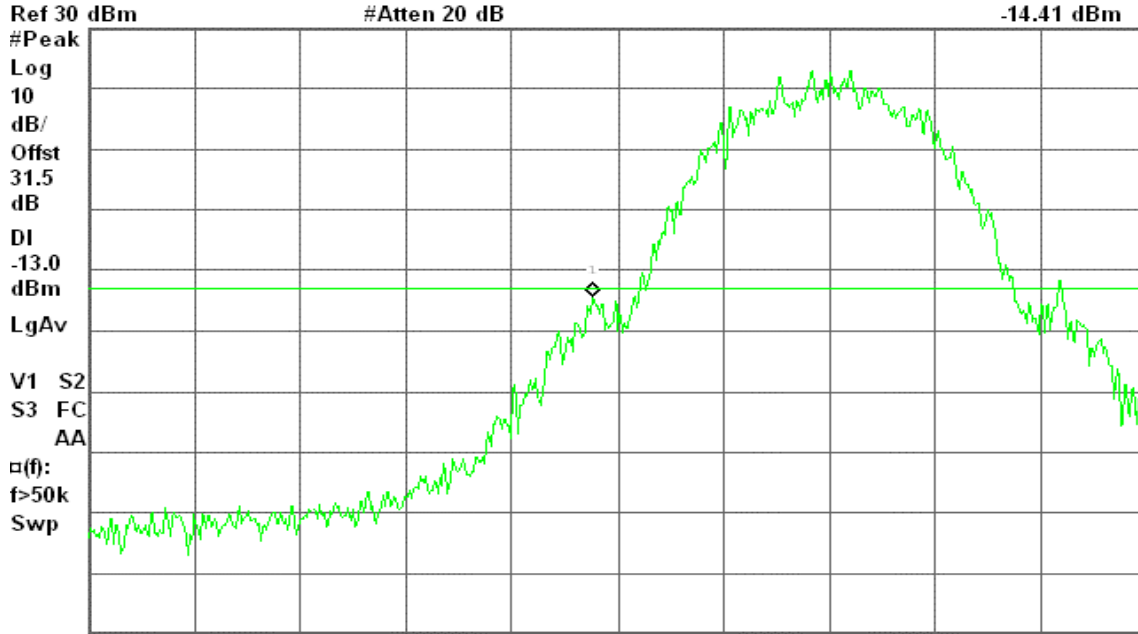
Figure 10-1: Band Edge emissions – GSM CH Low

Agilent 14:40:23 Nov 10, 2008

R T

Mkr1 1.849 975 GHz

-14.41 dBm



Center 1.850 000 GHz

#Res BW 3 kHz

#VBW 10 kHz

Span 1 MHz
Sweep 105.4 ms (601 pts)

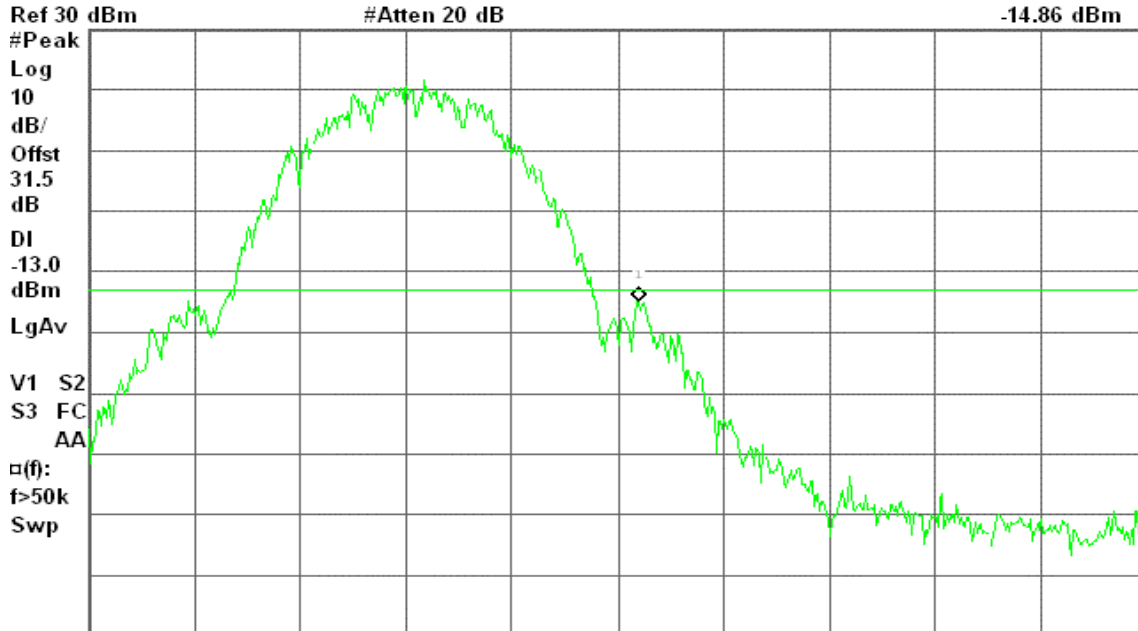
Figure 10-2: Band Edge emissions – GSM CH High

Agilent 14:42:58 Nov 10, 2008

R T

Mkr1 1.910 020 GHz

-14.86 dBm



Center 1.910 000 GHz

#Res BW 3 kHz

#VBW 10 kHz

Span 1 MHz
Sweep 105.4 ms (601 pts)



GPRS 1900

Figure 10-3: Band Edge emissions – GPRS CH Low

Agilent 14:41:33 Nov 10, 2008

R T

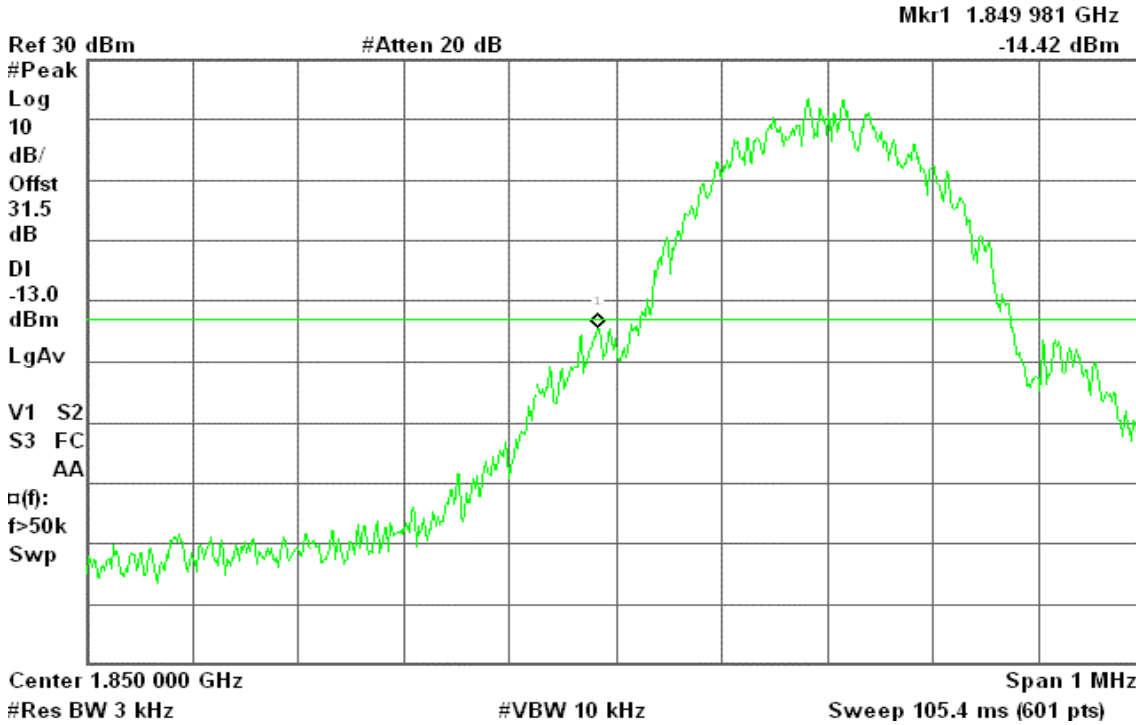
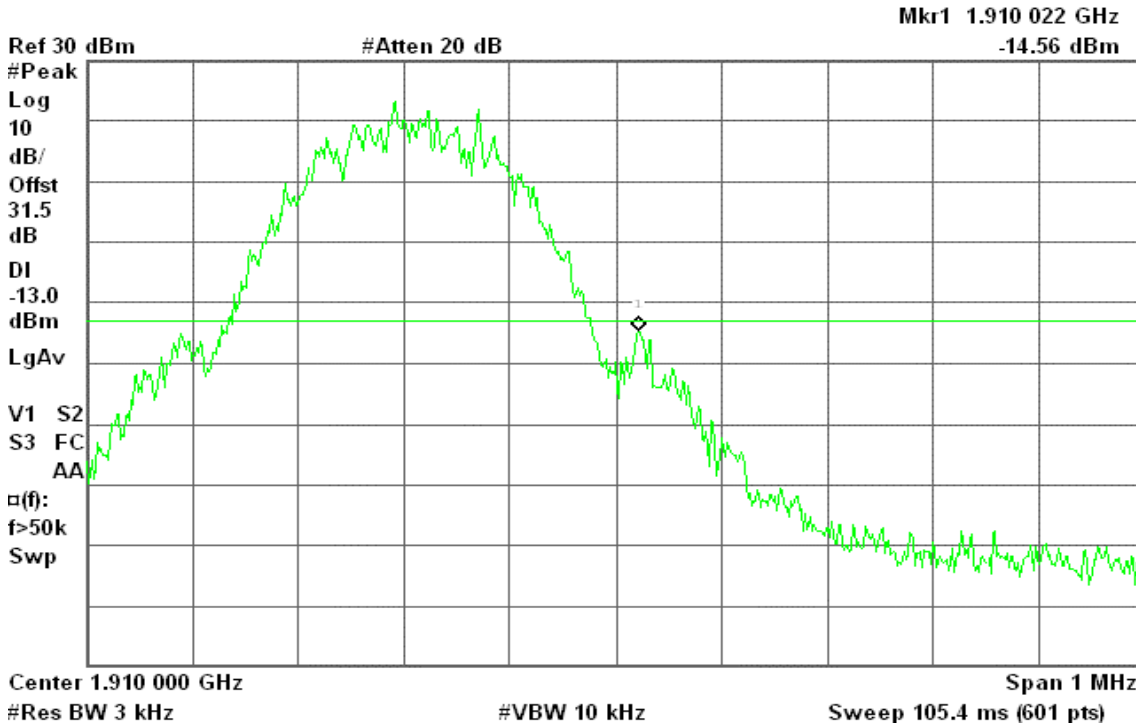


Figure 10-4: Band Edge emissions – GPRS CH High

Agilent 14:42:26 Nov 10, 2008

R T





EDGE 850

Figure 11-1: Out of Band emission at antenna terminals –EDGE CH Low

Agilent 15:44:54 Nov 10, 2008

R T

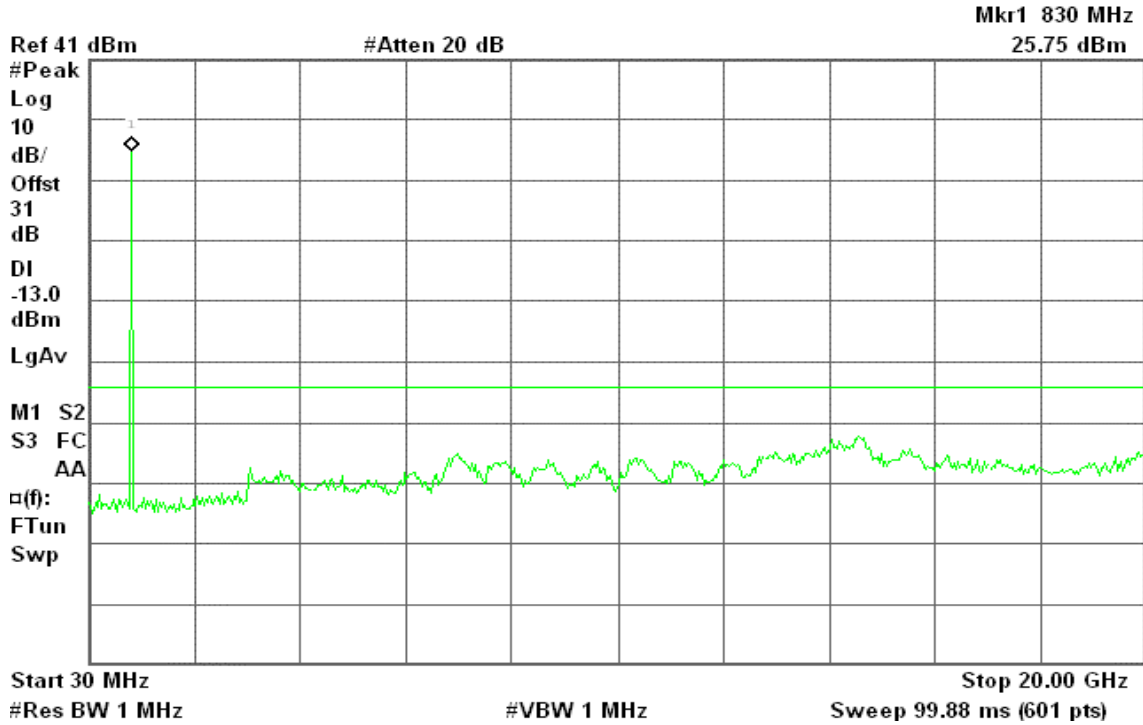


Figure 11-2: Out of Band emission at antenna terminals –EDGE CH Mid

Agilent 15:44:39 Nov 10, 2008

R T

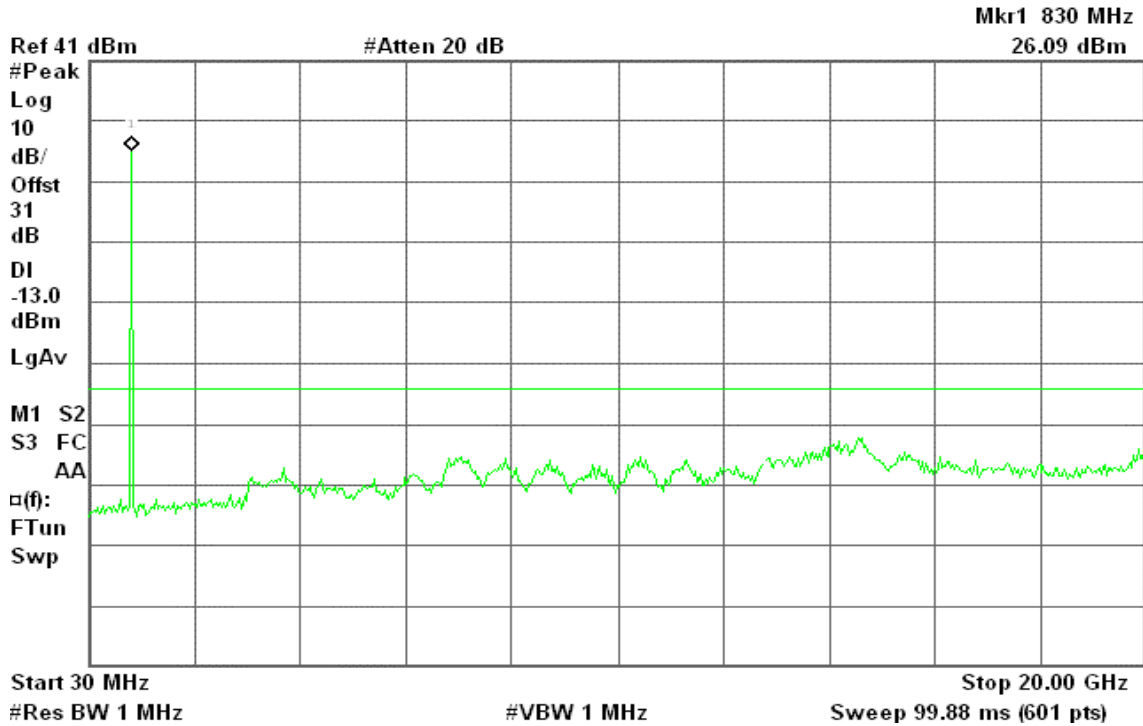
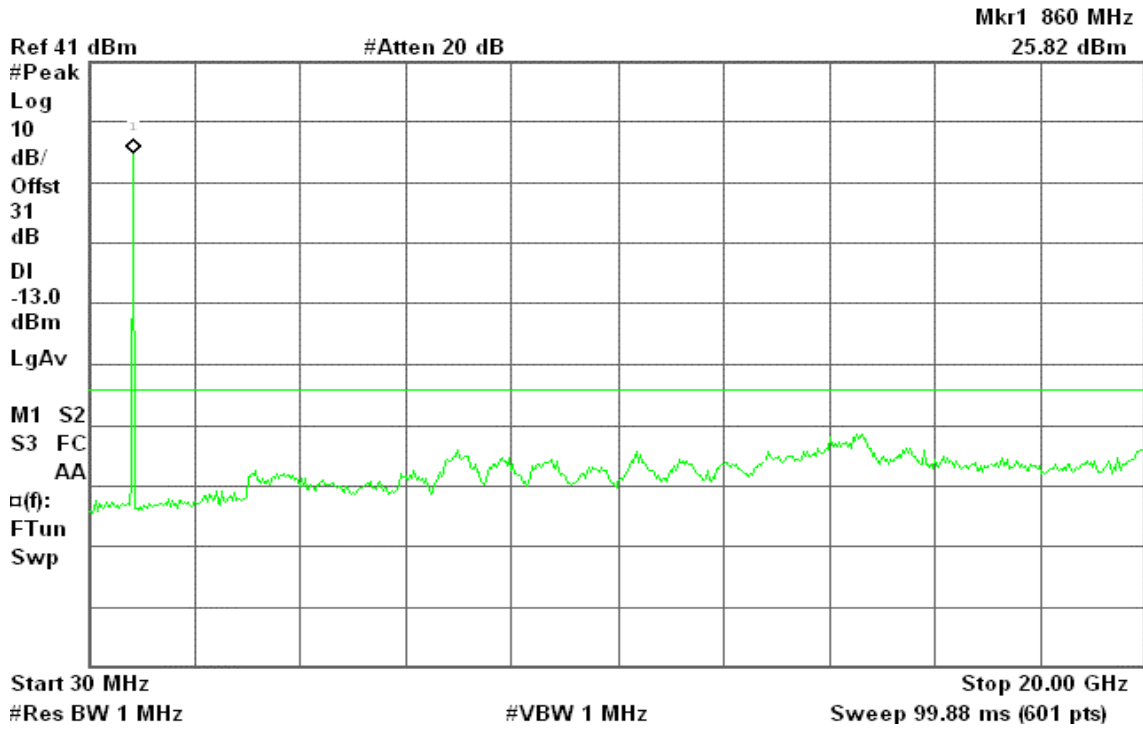




Figure 11-3: Out of Band emission at antenna terminals –EDGE CH High

Agilent 15:44:25 Nov 10, 2008

R T



EDGE 1900

Figure 11-4: Out of Band emission at antenna terminals –EDGE CH Low

Agilent 15:31:47 Nov 10, 2008

R T

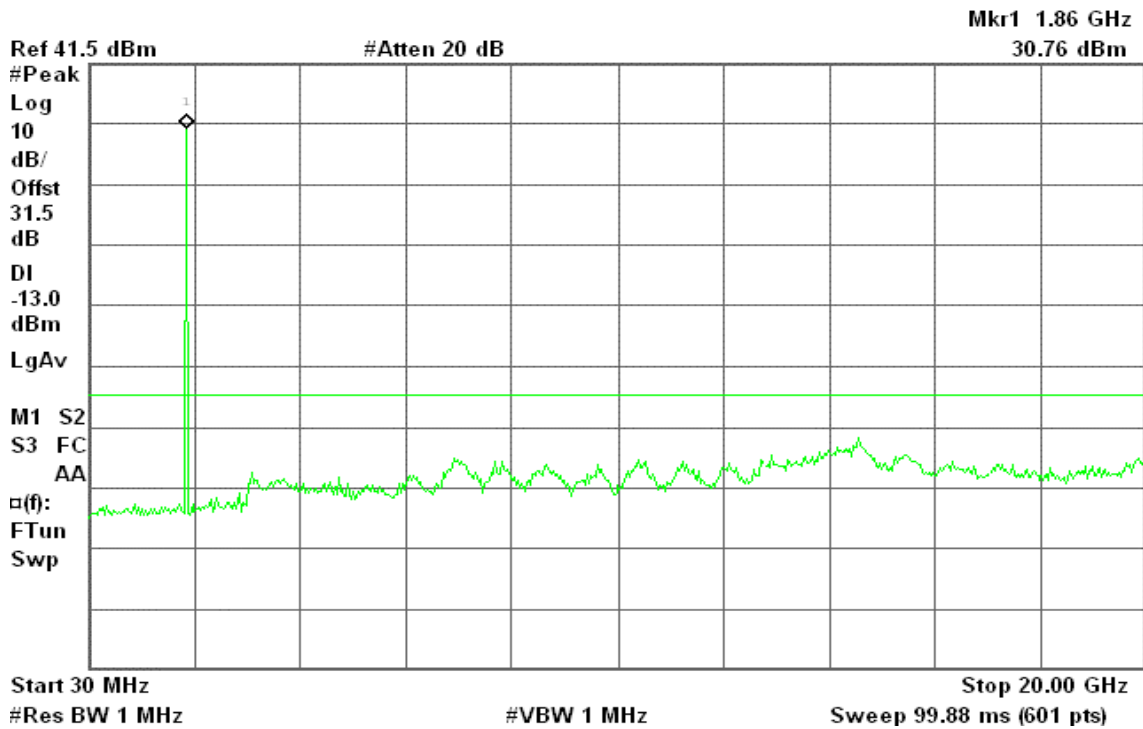




Figure 11-5: Out of Band emission at antenna terminals –EDGE CH Mid

Agilent 15:31:33 Nov 10, 2008

R T

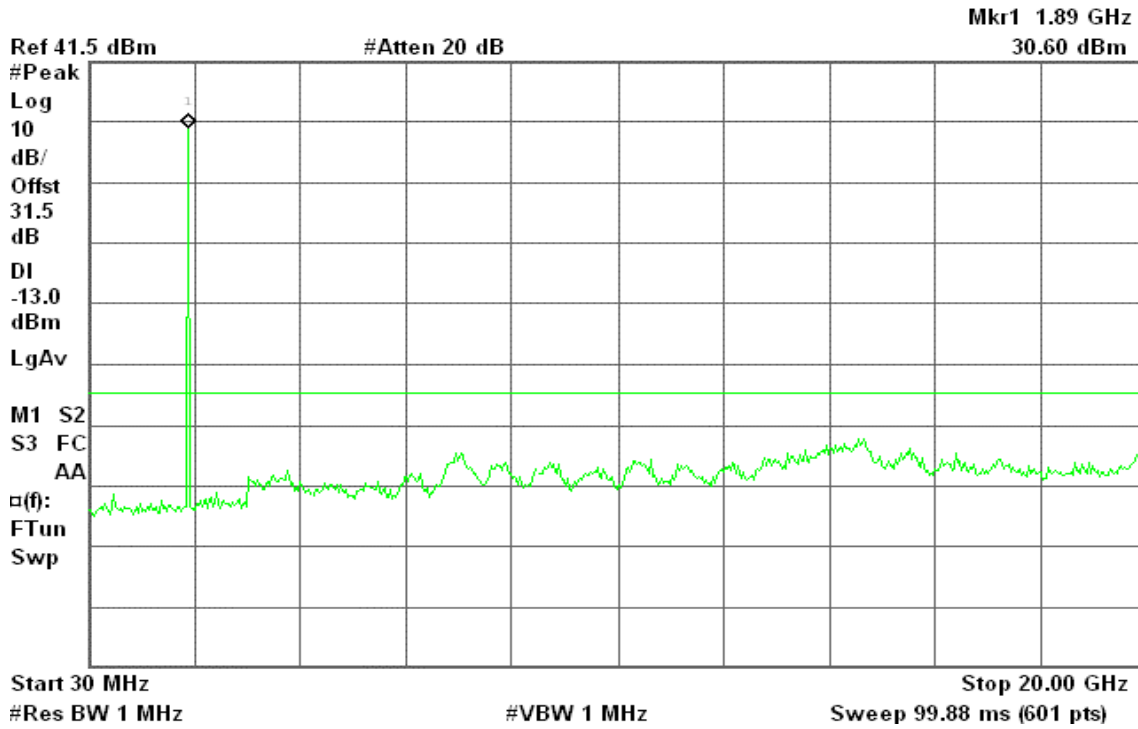
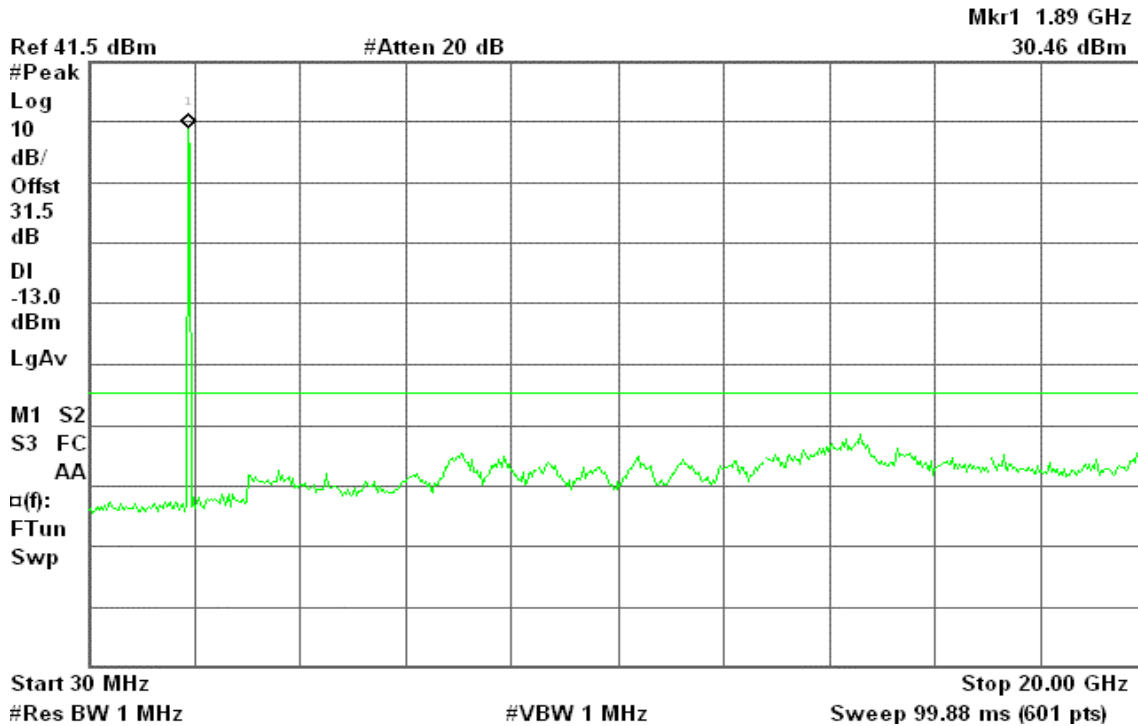


Figure 11-6: Out of Band emission at antenna terminals –EDGE CH High

Agilent 15:31:13 Nov 10, 2008

R T





EDGE 850

Figure 12-1: Band Edge emissions – EDGE CH Low

Agilent 15:45:46 Nov 10, 2008

R T

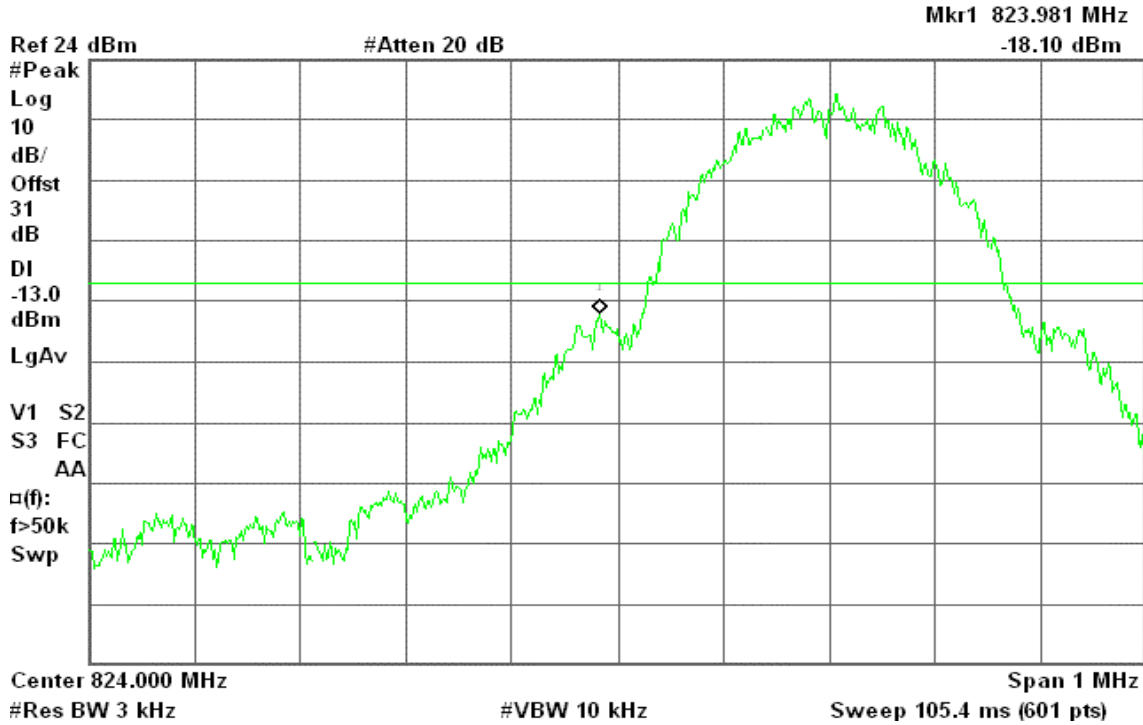
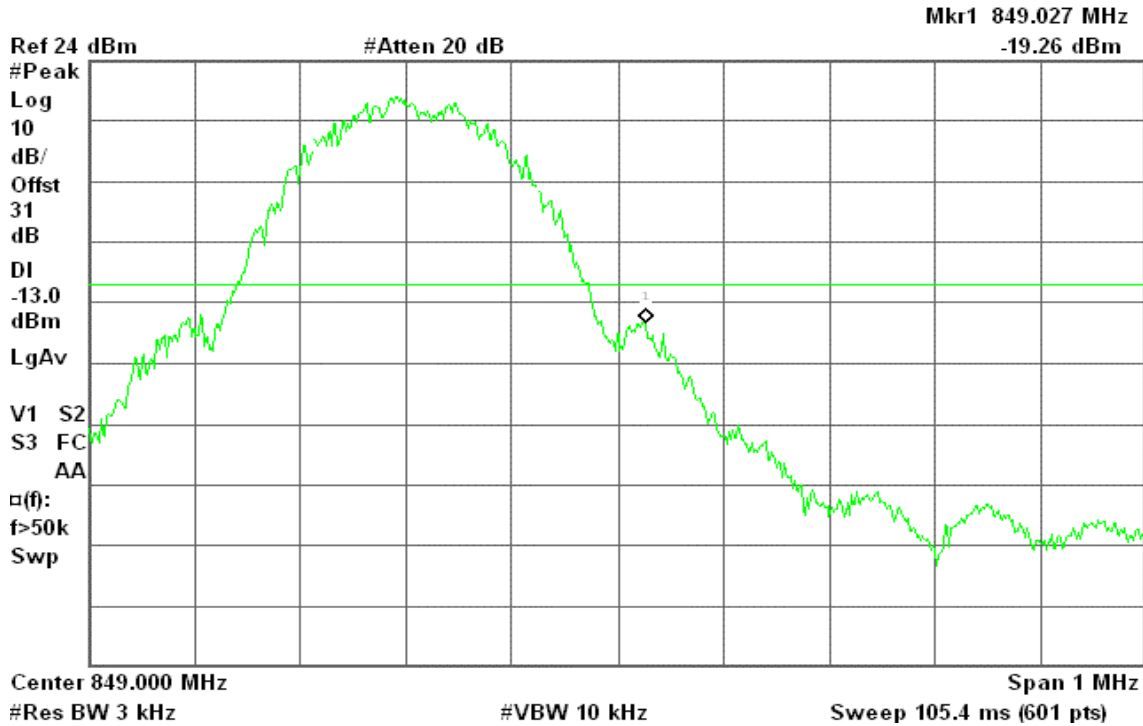


Figure 12-2: Band Edge emissions – EDGE CH High

Agilent 15:46:30 Nov 10, 2008

R T





EDGE 1900

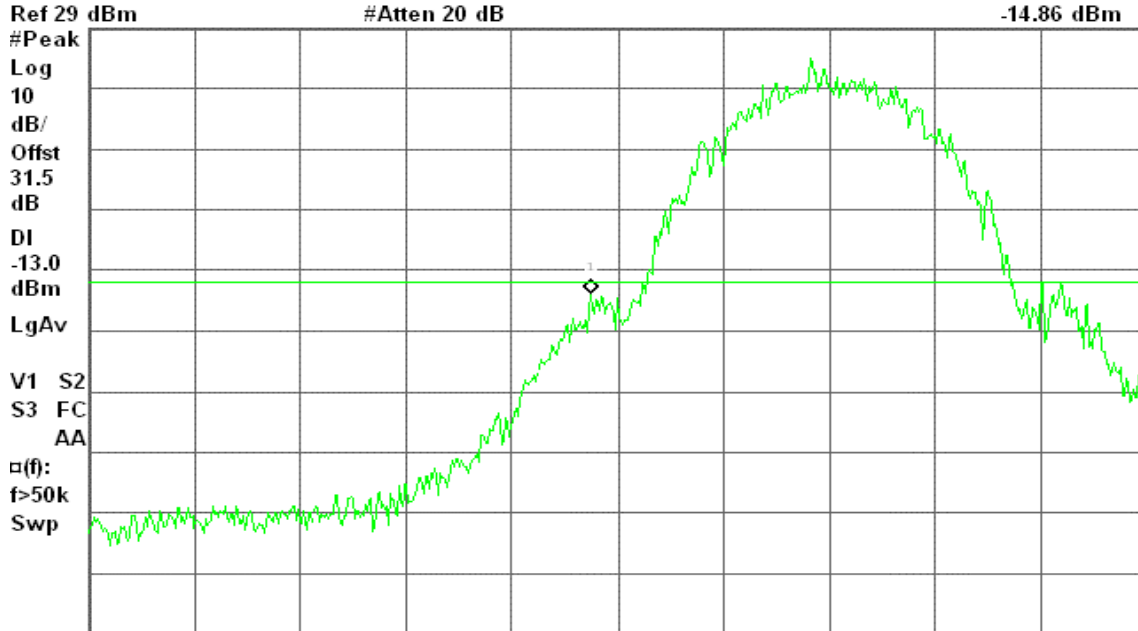
Figure 12-3: Band Edge emissions – EDGE CH Low

Agilent 15:26:09 Nov 10, 2008

R T

Mkr1 1.849 973 GHz

-14.86 dBm



Center 1.850 000 GHz

#Res BW 3 kHz

#VBW 10 kHz

Span 1 MHz
Sweep 105.4 ms (601 pts)

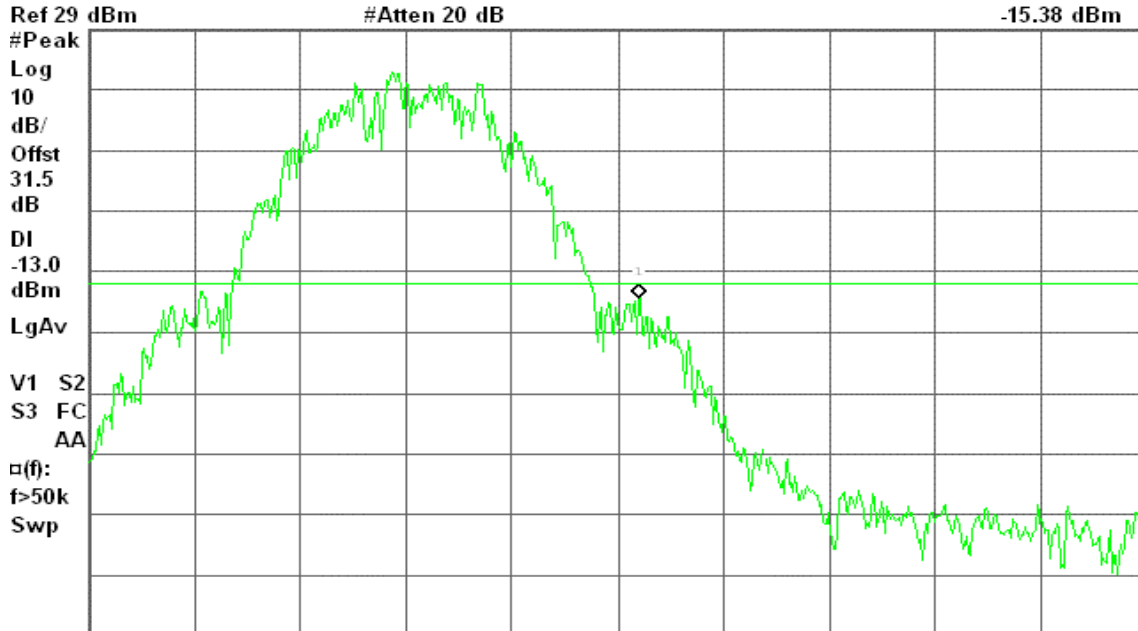
Figure 12-4: Band Edge emissions – EDGE CH High

Agilent 15:28:37 Nov 10, 2008

R T

Mkr1 1.910 020 GHz

-15.38 dBm



Center 1.910 000 GHz

#Res BW 3 kHz

#VBW 10 kHz

Span 1 MHz
Sweep 105.4 ms (601 pts)



WCDMA Band II

Figure 13-1: Out of Band emission at antenna terminals – WCDMA CH Low

Agilent 13:55:27 Nov 10, 2008

R T

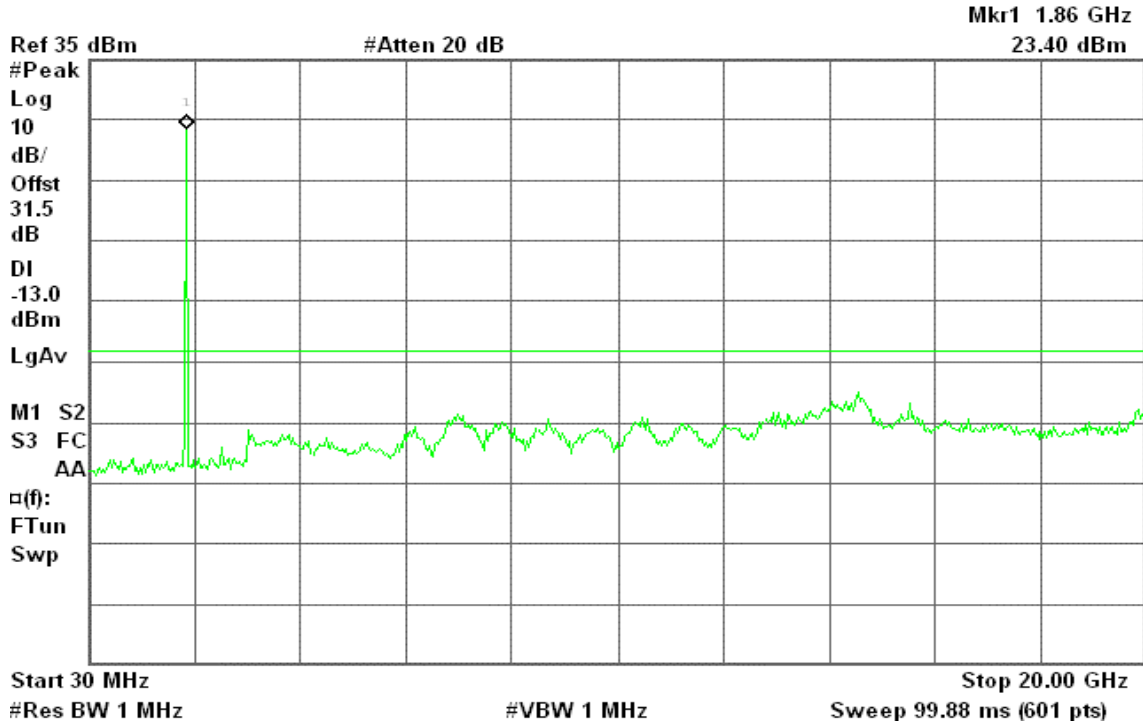


Figure 13-2: Out of Band emission at antenna terminals – WCDMA CH Mid

Agilent 13:55:15 Nov 10, 2008

R T

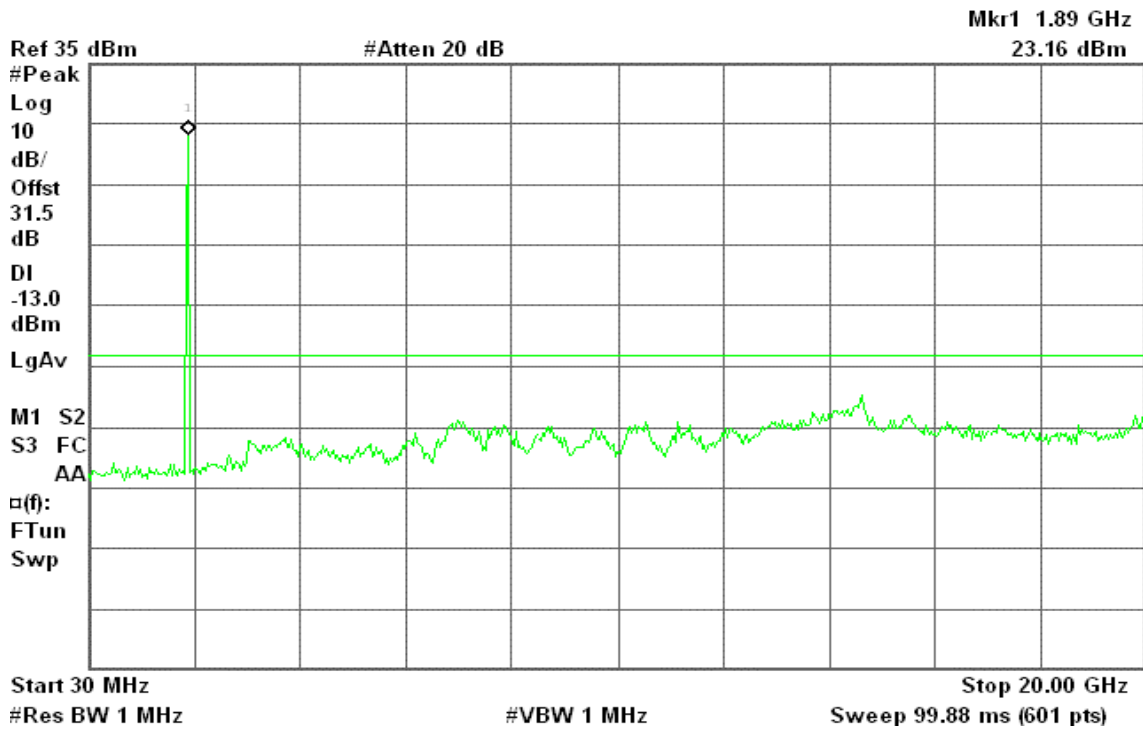
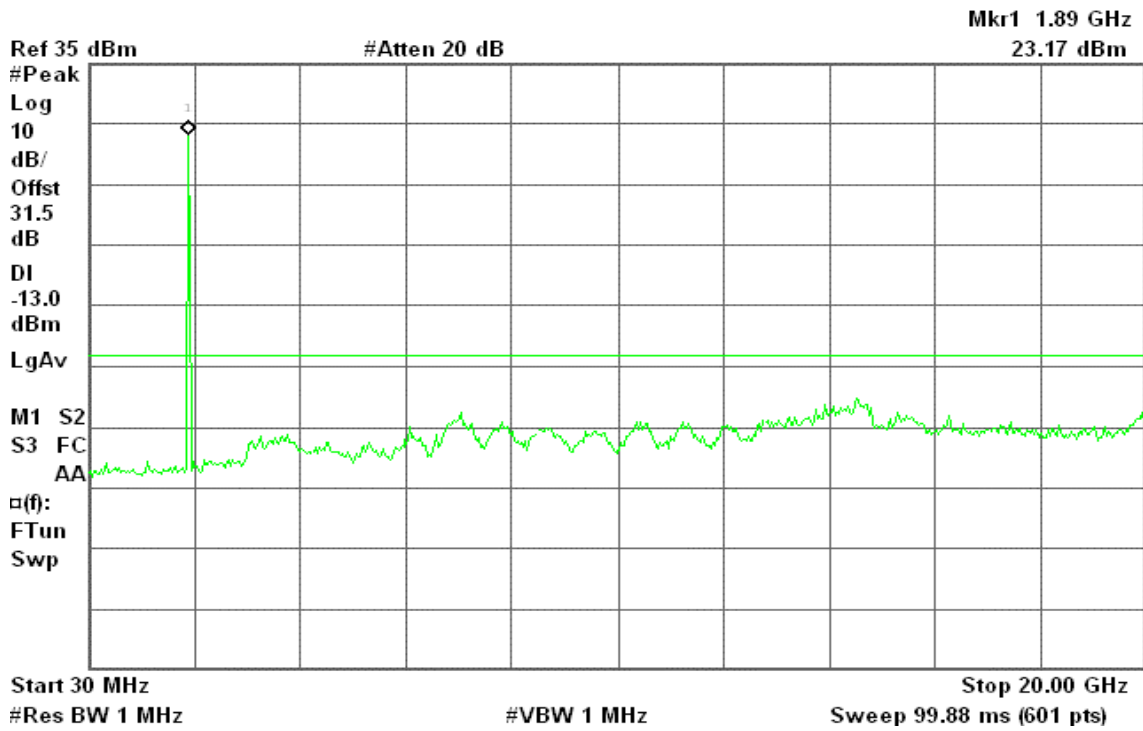




Figure 13-3: Out of Band emission at antenna terminals – WCDMA CH High

Agilent 13:55:03 Nov 10, 2008

R T



WCDMA Band V

Figure 13-4: Out of Band emission at antenna terminals – WCDMA CH Low

Agilent 13:55:48 Nov 10, 2008

R T

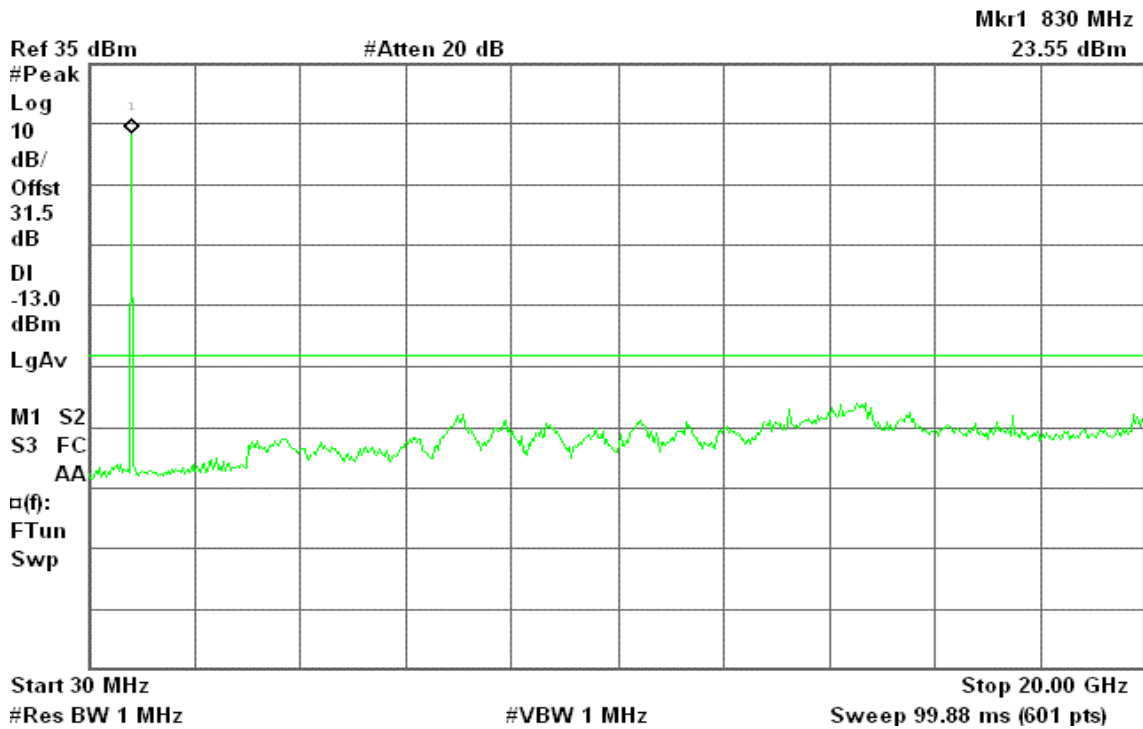




Figure 13-5: Out of Band emission at antenna terminals – WCDMA CH Mid

Agilent 13:56:00 Nov 10, 2008

R T

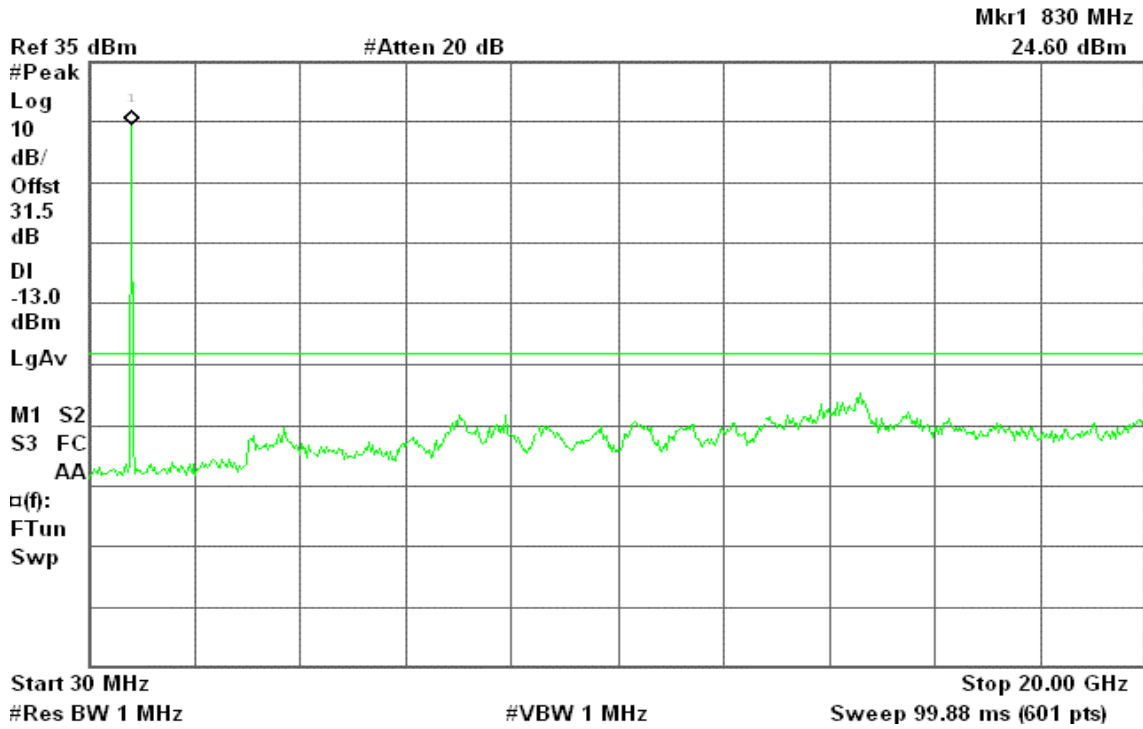
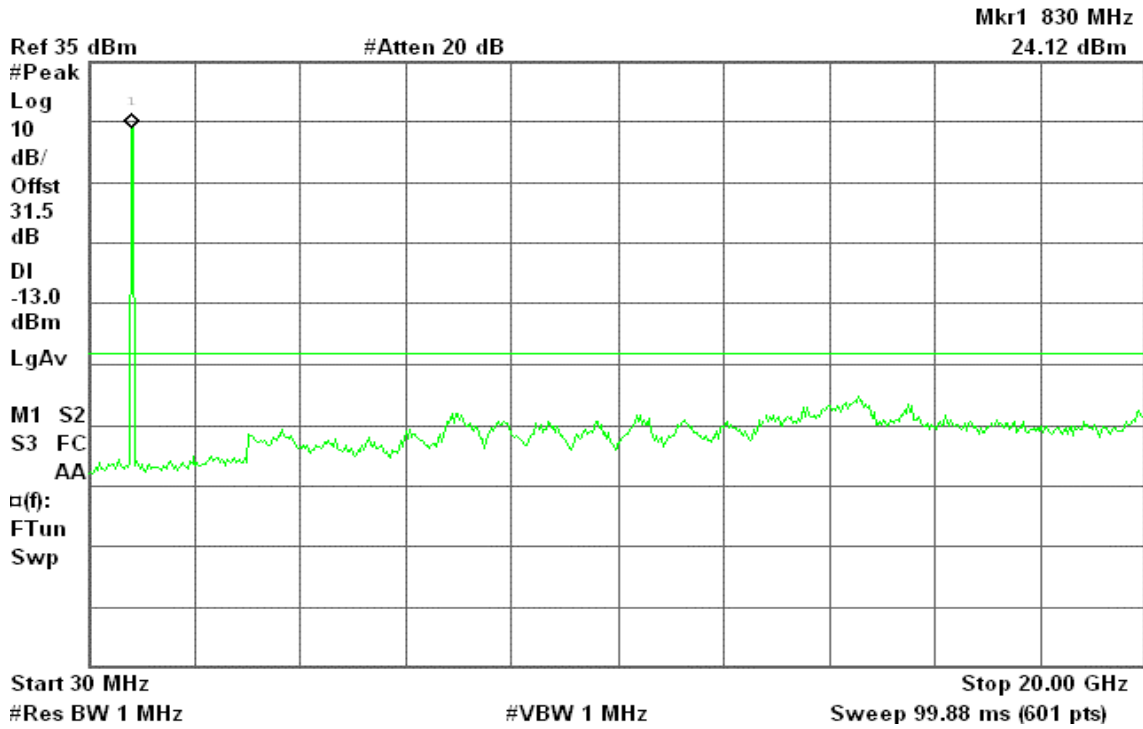


Figure 13-6: Out of Band emission at antenna terminals – WCDMA CH High

Agilent 13:56:46 Nov 10, 2008

R T





WCDMA Band II

Figure 14-1: Band Edge emissions – WCDMA CH Low

Agilent 13:53:37 Nov 10, 2008

R T

Mkr1 1.849 975 GHz

-21.43 dBm

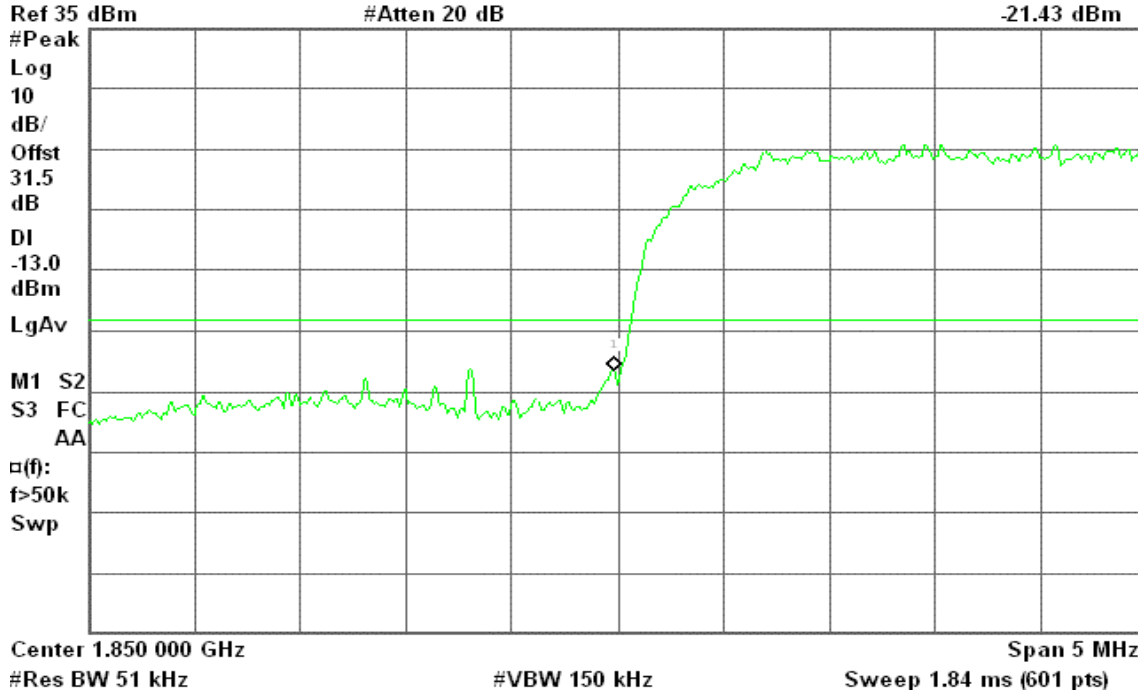


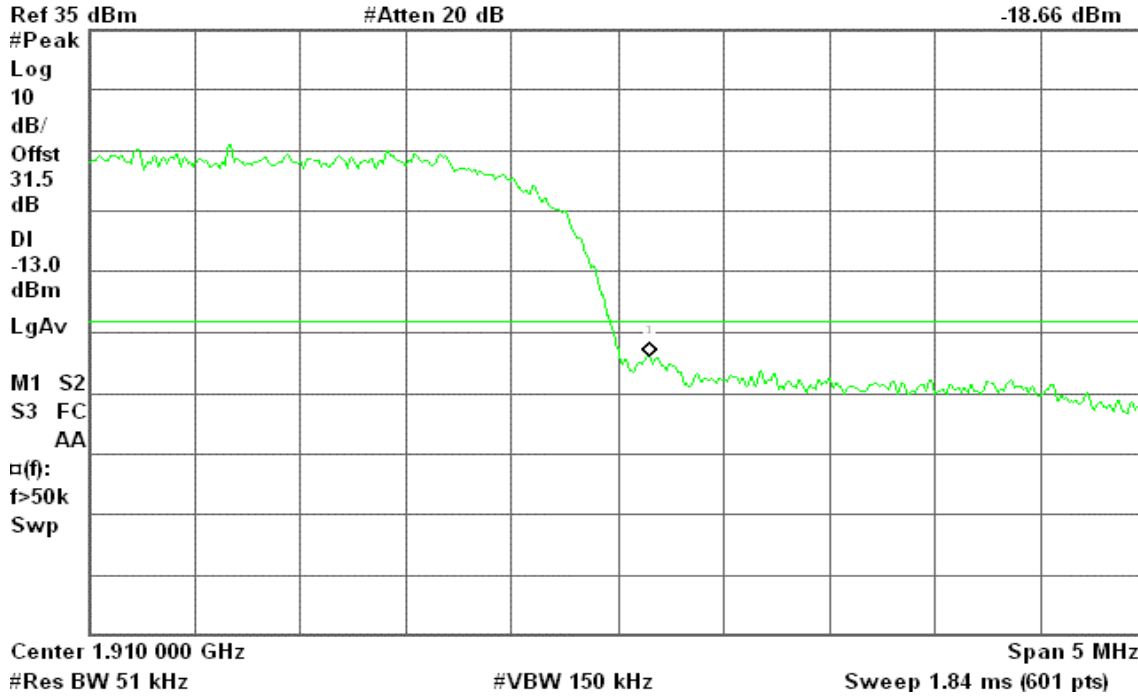
Figure 14-2: Band Edge emissions –WCDMA CH High

Agilent 13:54:06 Nov 10, 2008

R T

Mkr1 1.910 150 GHz

-18.66 dBm





WCDMA Band V

Figure 14-3: Band Edge emissions –WCDMA CH Low

Agilent 13:52:52 Nov 10, 2008

R T

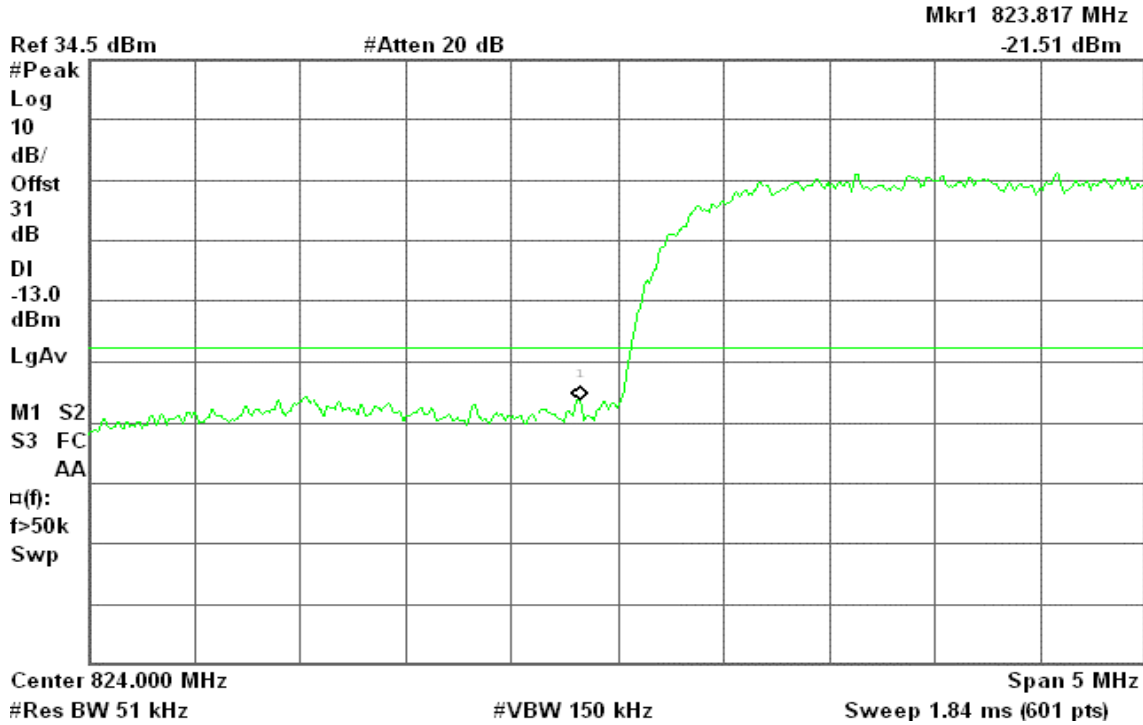
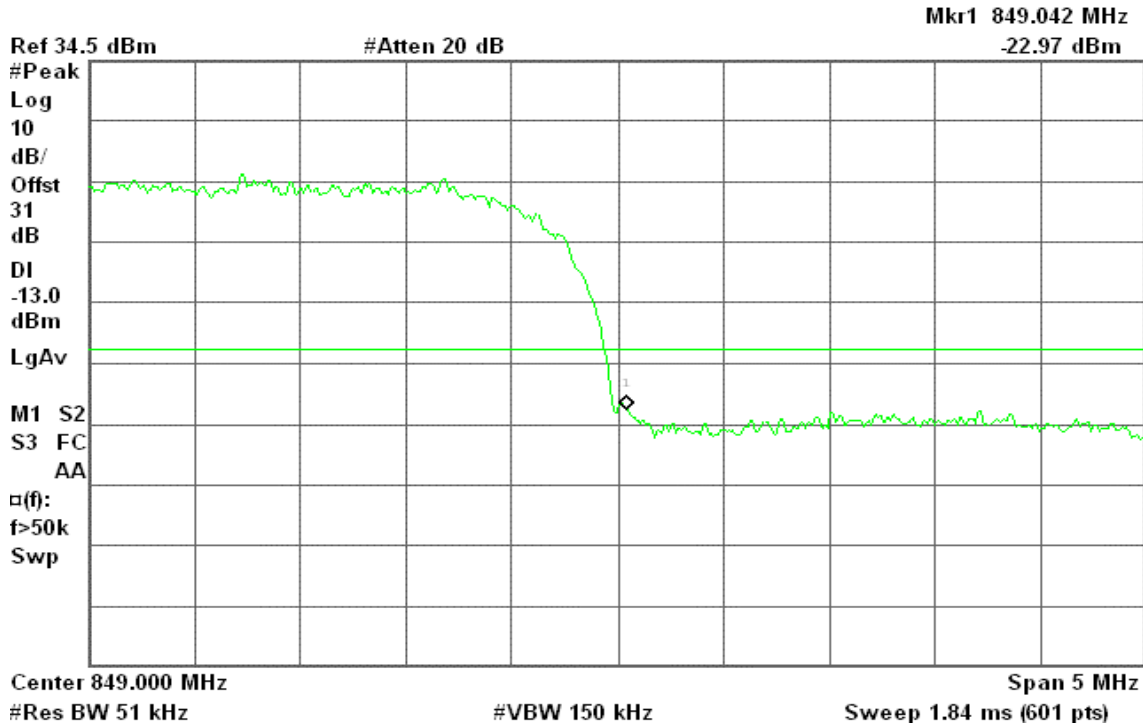


Figure 14-4: Band Edge emissions –WCDMA CH High

Agilent 13:52:25 Nov 10, 2008

R T





WCDMA / HSDPA Band II

Figure 15-1: Out of Band emission at antenna terminals –HSDPA CH Low

Agilent 13:16:31 Nov 10, 2008

R T

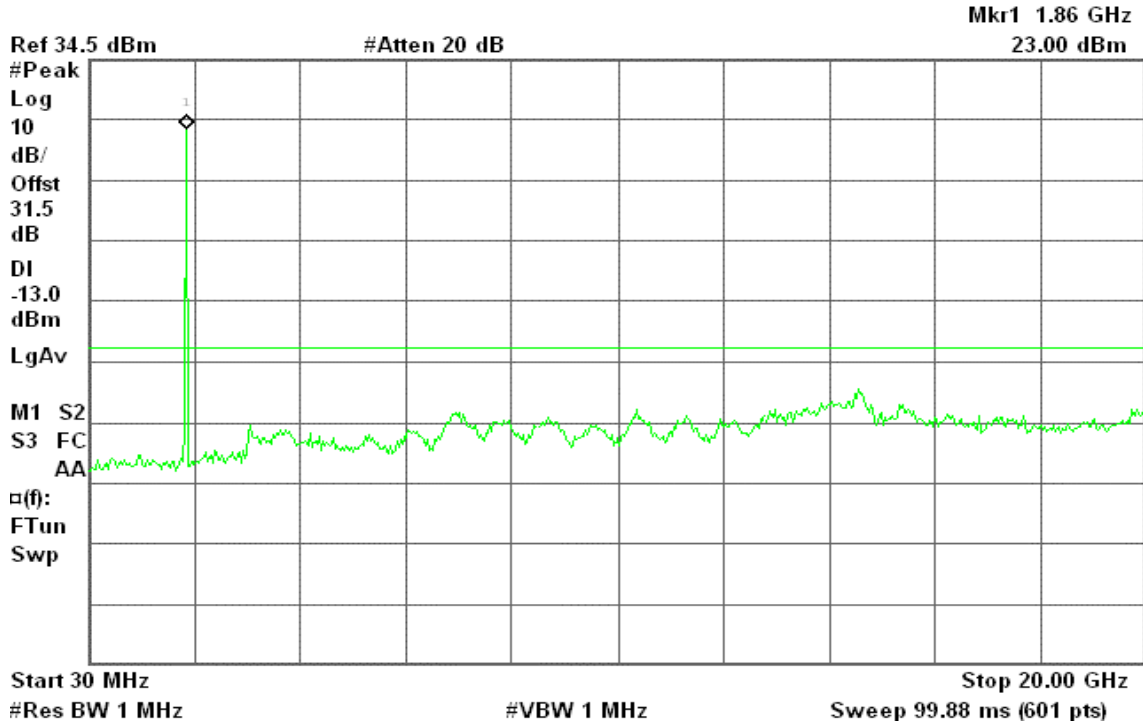


Figure 15-2: Out of Band emission at antenna terminals –HSDPA CH Mid

Agilent 13:16:45 Nov 10, 2008

R T

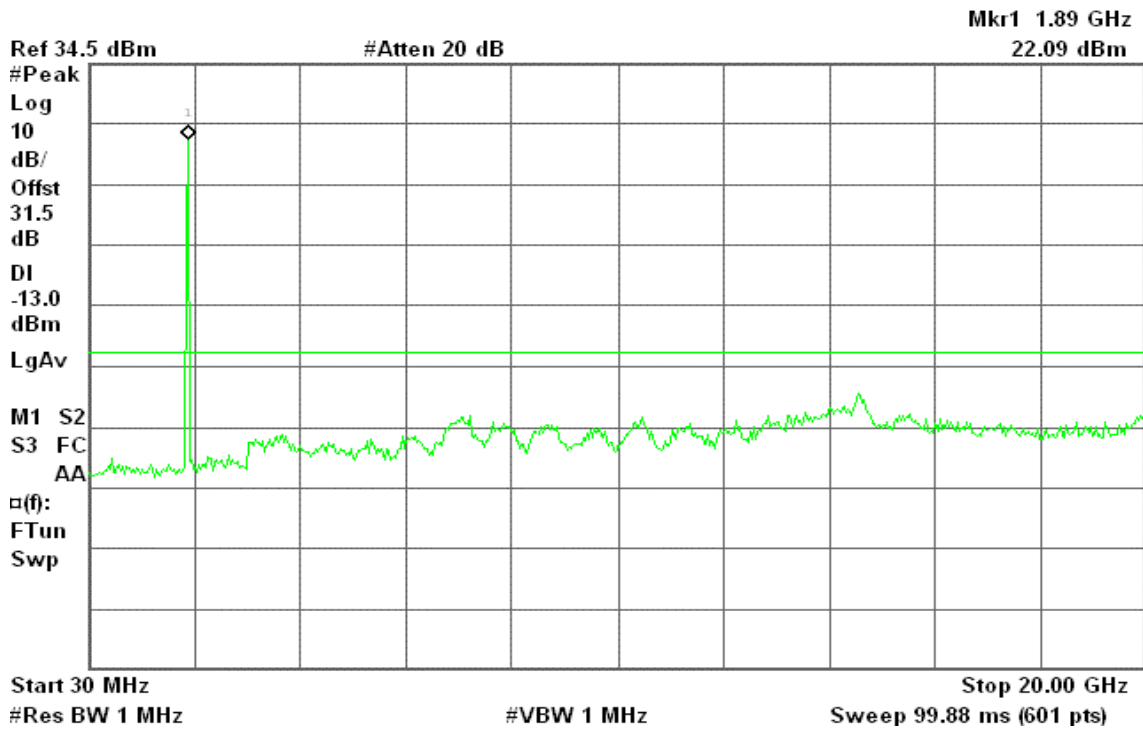
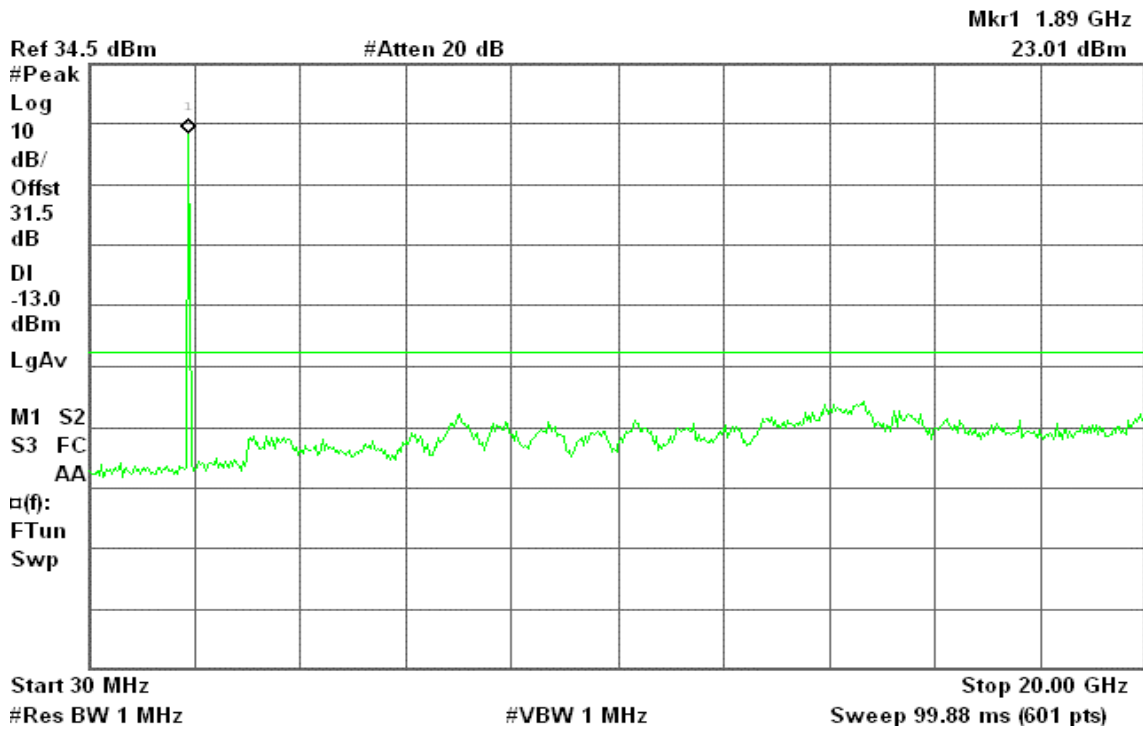




Figure 15-3: Out of Band emission at antenna terminals –HSDPA CH High

Agilent 13:16:57 Nov 10, 2008

R T



WCDMA / HSDPA Band V

Figure 15-4: Out of Band emission at antenna terminals –HSDPA CH Low

Agilent 13:14:13 Nov 10, 2008

R T

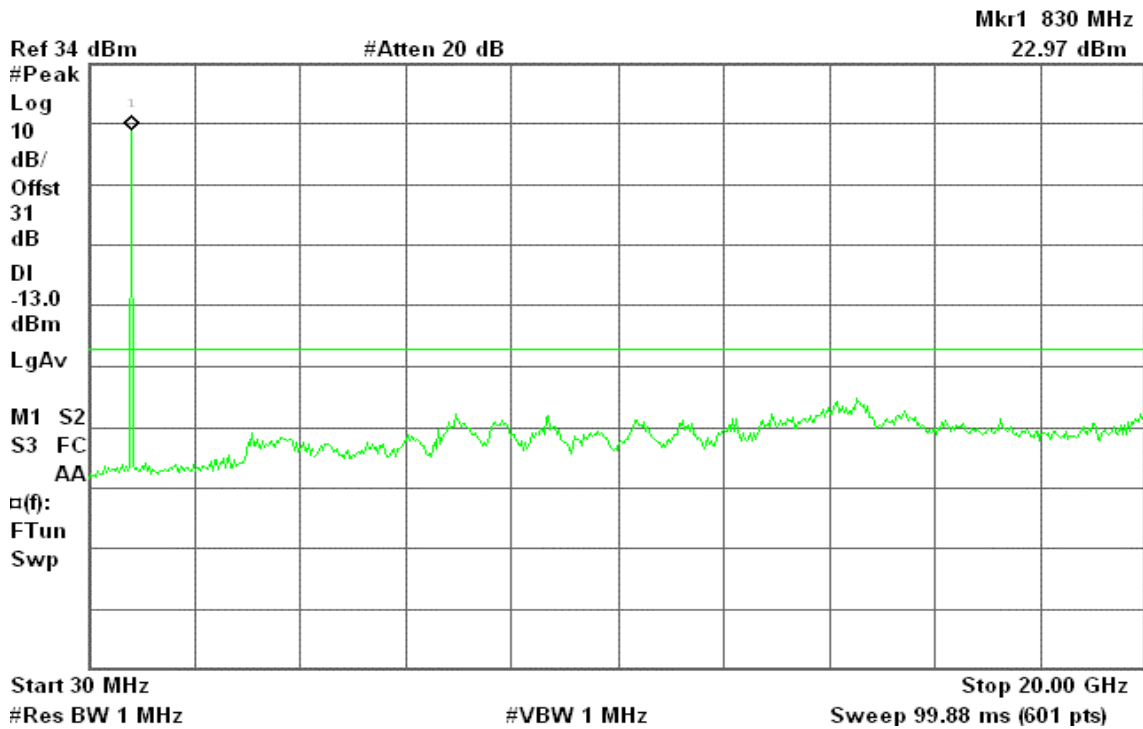




Figure 15-5: Out of Band emission at antenna terminals –HSDPA CH Mid

Agilent 13:14:28 Nov 10, 2008

R T

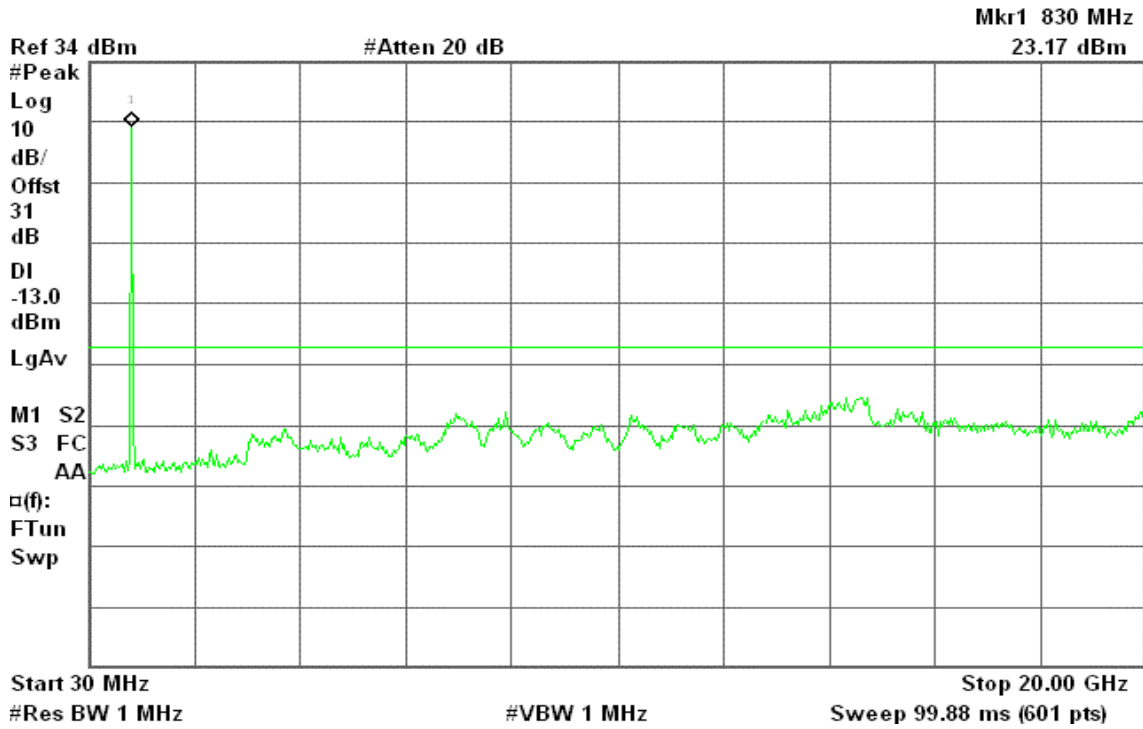
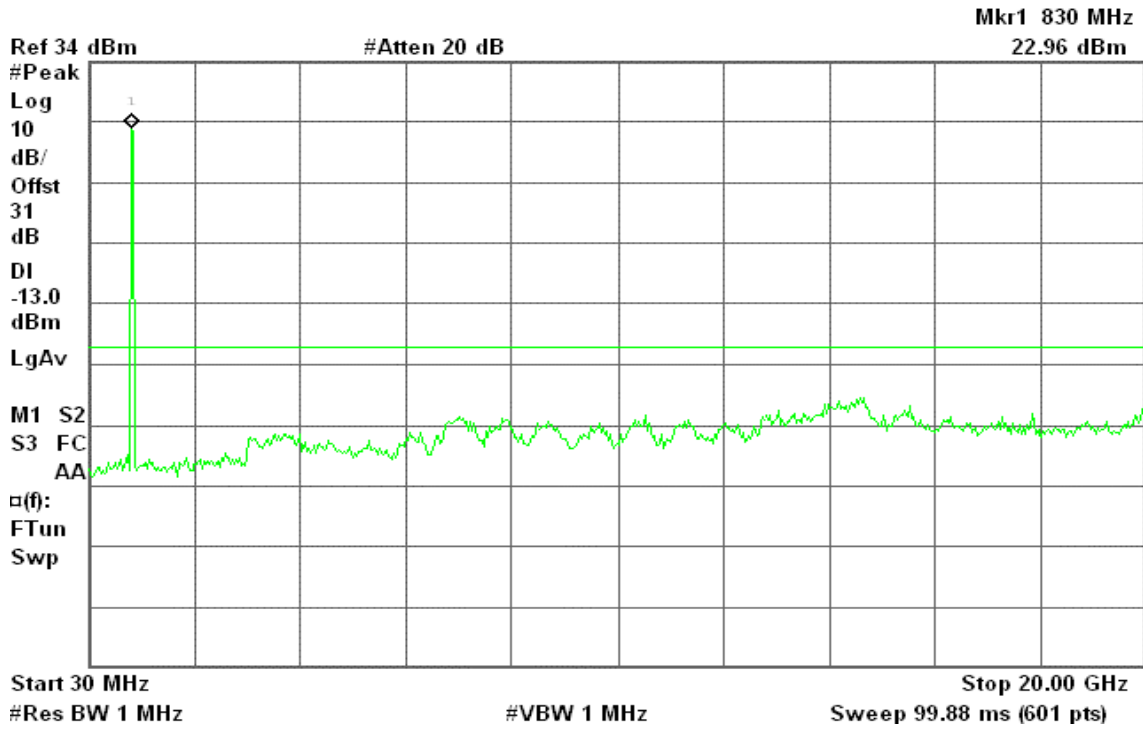


Figure 15-6: Out of Band emission at antenna terminals –HSDPA CH High

Agilent 13:14:41 Nov 10, 2008

R T





WCDMA / HSDPA Band II

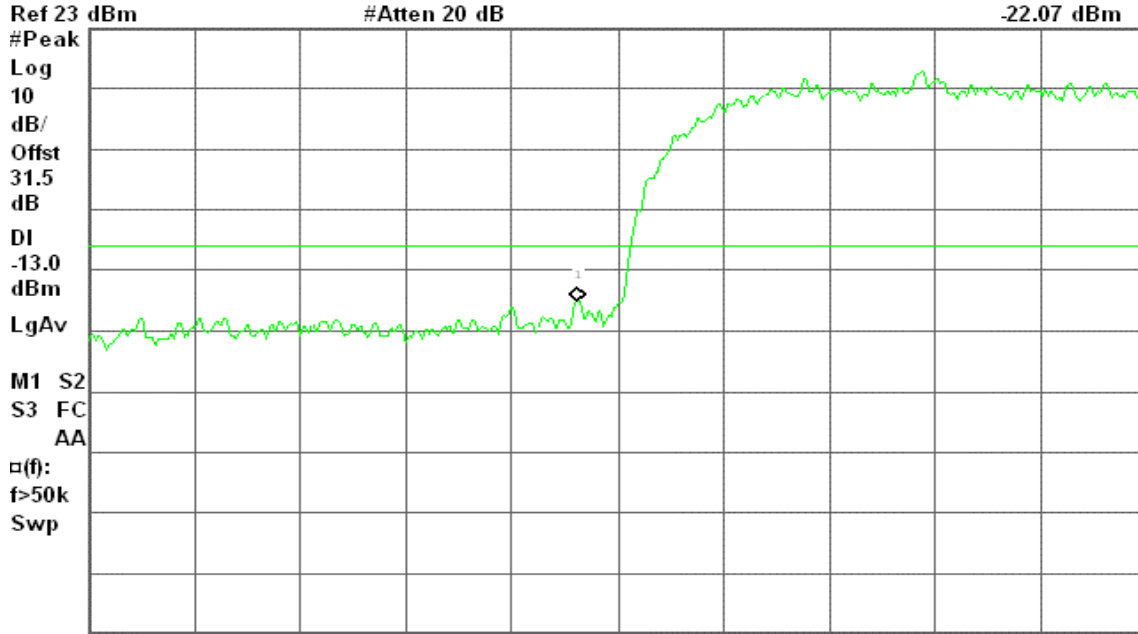
Figure 16-1: Band Edge emissions –HSDPA CH Low

Agilent 13:11:45 Nov 10, 2008

R T

Mkr1 1.849 808 GHz

-22.07 dBm



Center 1.850 000 GHz

#Res BW 51 kHz

#VBW 150 kHz

Span 5 MHz

Sweep 1.84 ms (601 pts)

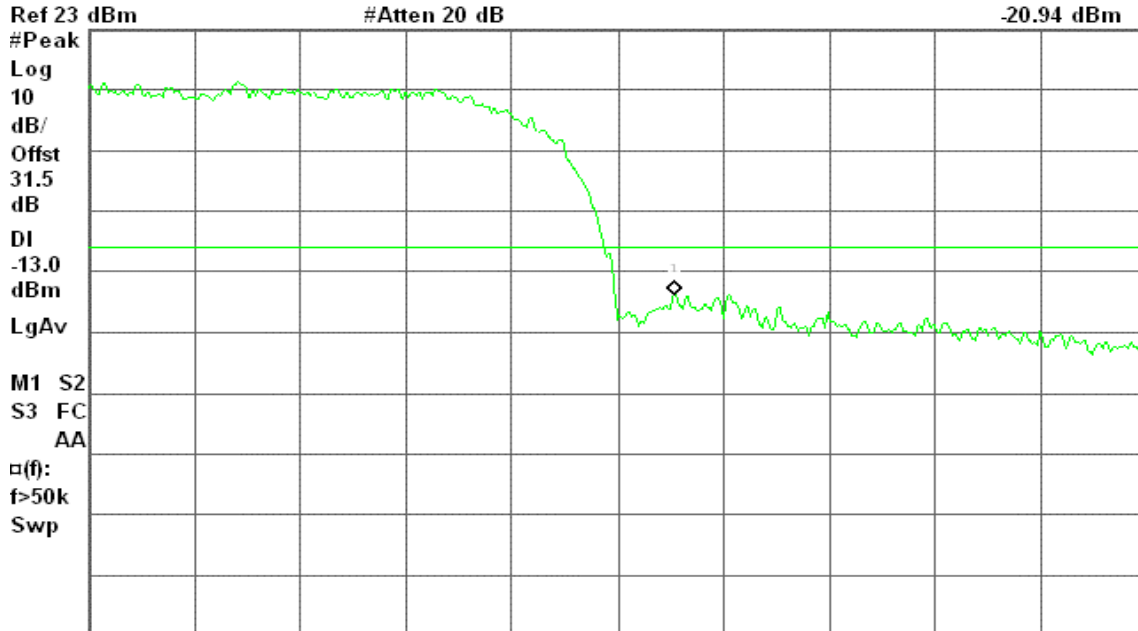
Figure 16-2: Band Edge emissions –HSDPA CH High

Agilent 13:12:25 Nov 10, 2008

R T

Mkr1 1.910 267 GHz

-20.94 dBm



Center 1.910 000 GHz

#Res BW 51 kHz

#VBW 150 kHz

Span 5 MHz

Sweep 1.84 ms (601 pts)



WCDMA / HSDPA Band V

Figure 16-3: Band Edge emissions –HSDPA CH Low

Agilent 13:11:09 Nov 10, 2008

R T

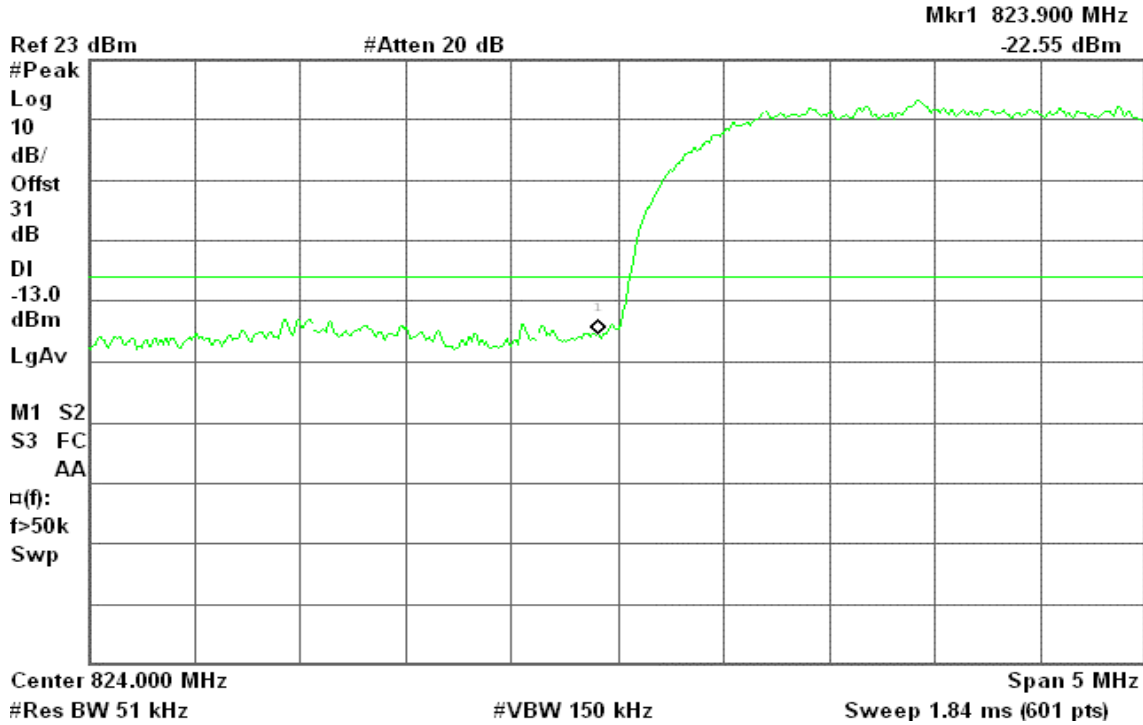
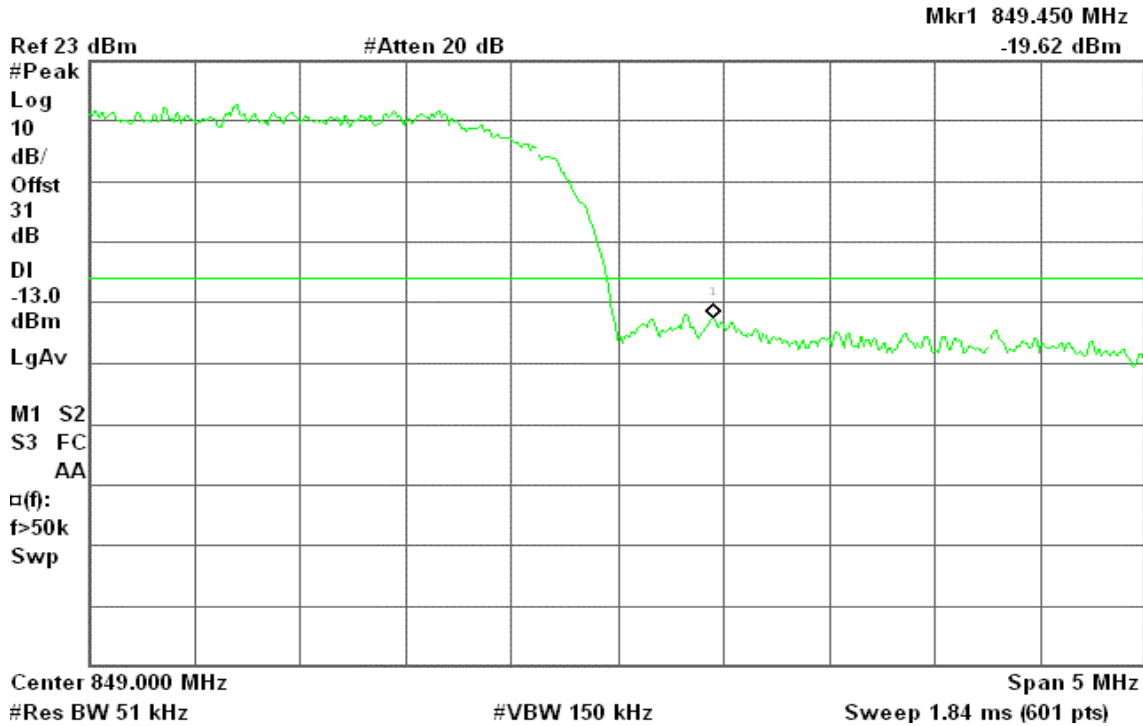


Figure 16-4: Band Edge emissions –HSDPA CH High

Agilent 13:09:52 Nov 10, 2008

R T



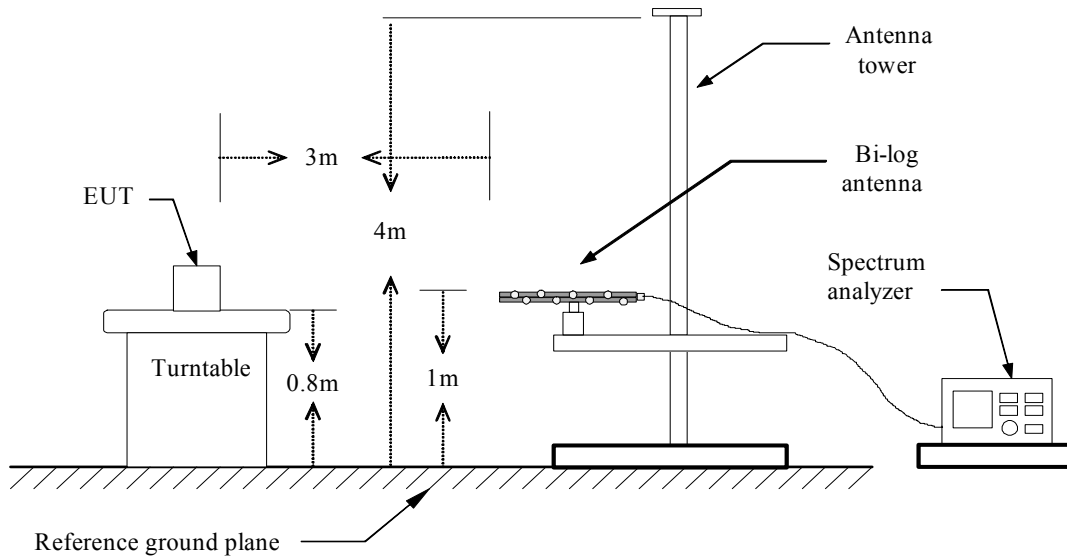
7.6 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

LIMIT

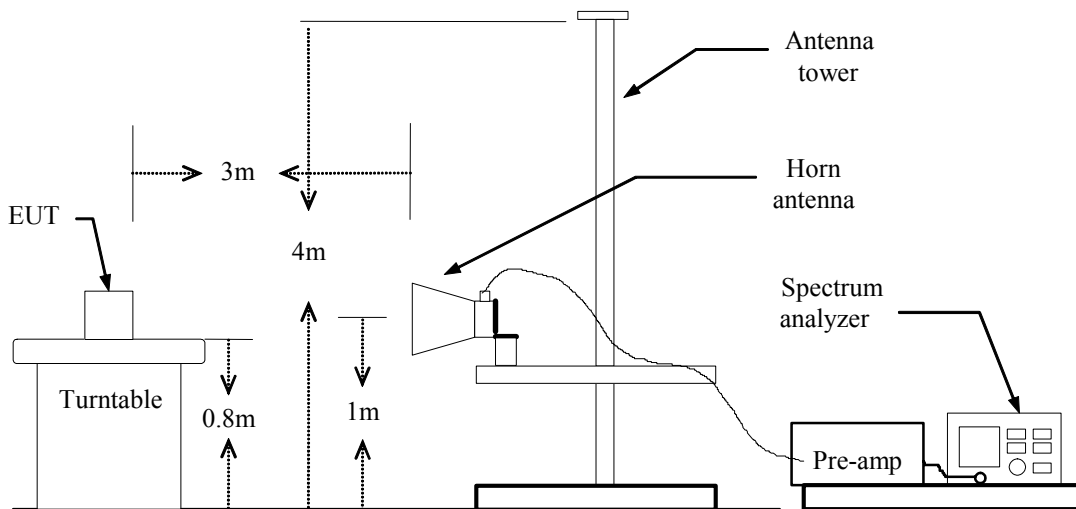
According to FCC §2.1053

Test Configuration

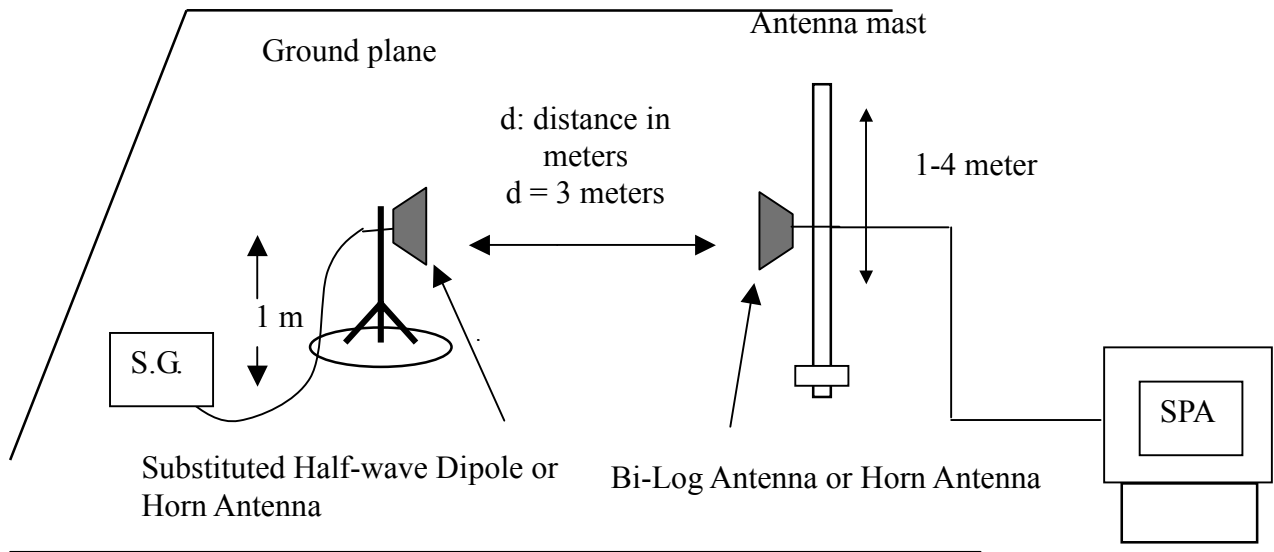
Below 1 GHz



Above 1 GHz



Substituted Method Test Set-up



TEST 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 were 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.

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

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

TEST RESULTS

Refer to the attached tabular data sheets.



Radiated Spurious Emission Measurement Result / Below 1GHz

Operation Mode: GSM 850 / TX / CH 128

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-59.41	-15.80	-75.22	-13.00	-62.22
66.86	V	-57.27	-15.18	-72.45	-13.00	-59.45
86.26	V	-57.49	-20.28	-77.78	-13.00	-64.78
198.78	V	-65.77	-13.35	-79.12	-13.00	-66.12
452.92	V	-62.79	-9.04	-71.83	-13.00	-58.83
512.09	V	-64.69	-7.71	-72.40	-13.00	-59.40
99.84	H	-47.56	-18.73	-66.29	-13.00	-53.29
132.82	H	-59.92	-14.38	-74.31	-13.00	-61.31
398.60	H	-56.37	-10.51	-66.88	-13.00	-53.88
407.33	H	-54.67	-10.19	-64.87	-13.00	-51.87
512.09	H	-60.61	-7.78	-68.38	-13.00	-55.38
681.84	H	-60.31	-6.02	-66.33	-13.00	-53.33

Remark:

- The emission behaviour belongs to narrowband spurious emission.*
- Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GSM 850 / TX / CH 190

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
41.64	V	-64.06	-13.09	-77.15	-13.00	-64.15
65.89	V	-57.02	-15.25	-72.27	-13.00	-59.27
86.26	V	-56.25	-20.28	-76.54	-13.00	-63.54
200.72	V	-65.57	-13.32	-78.89	-13.00	-65.89
427.70	V	-66.08	-9.51	-75.59	-13.00	-62.59
452.92	V	-63.98	-9.04	-73.02	-13.00	-60.02
44.55	H	-63.66	-11.83	-75.49	-13.00	-62.49
130.88	H	-48.28	-14.72	-63.01	-13.00	-50.01
161.92	H	-61.67	-13.55	-75.23	-13.00	-62.23
452.92	H	-56.17	-9.18	-65.35	-13.00	-52.35
523.73	H	-61.91	-7.98	-69.89	-13.00	-56.89
967.02	H	-60.95	-2.88	-63.83	-13.00	-50.83

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 850 / TX / CH 251

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
44.55	V	-64.79	-12.63	-77.42	-13.00	-64.42
66.86	V	-57.49	-15.18	-72.67	-13.00	-59.67
86.26	V	-56.51	-20.28	-76.79	-13.00	-63.79
148.34	V	-66.58	-11.90	-78.49	-13.00	-65.49
196.84	V	-65.79	-13.64	-79.43	-13.00	-66.43
452.92	V	-62.35	-9.04	-71.39	-13.00	-58.39
44.55	H	-64.91	-11.53	-76.44	-13.00	-63.44
86.26	H	-56.62	-21.33	-77.95	-13.00	-64.95
136.70	H	-65.74	-14.28	-80.02	-13.00	-67.02
160.95	H	-62.77	-13.35	-76.12	-13.00	-63.12
295.78	H	-66.65	-12.47	-79.12	-13.00	-66.12
452.92	H	-68.37	-9.00	-77.37	-13.00	-64.37

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 850 / TX / CH 128

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
32.91	V	-43.59	-17.07	-60.66	-13.00	-47.66
57.16	V	-58.37	-15.80	-74.17	-13.00	-61.17
66.86	V	-57.99	-15.18	-73.17	-13.00	-60.17
200.72	V	-61.46	-13.32	-74.78	-13.00	-61.78
427.70	V	-66.09	-9.51	-75.60	-13.00	-62.60
452.92	V	-63.33	-9.04	-72.37	-13.00	-59.37
99.84	H	-47.35	-18.73	-66.07	-13.00	-53.07
132.82	H	-58.98	-14.38	-73.37	-13.00	-60.37
398.60	H	-56.11	-10.51	-66.62	-13.00	-53.62
408.30	H	-54.34	-10.16	-64.50	-13.00	-51.50
512.09	H	-61.67	-7.78	-69.45	-13.00	-56.45
682.81	H	-62.12	-6.01	-68.13	-13.00	-55.13

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 850 / TX / CH 190

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
30.97	V	-42.95	-18.26	-61.21	-13.00	-48.21
57.16	V	-57.79	-15.80	-73.59	-13.00	-60.59
66.86	V	-59.00	-15.18	-74.18	-13.00	-61.18
86.26	V	-58.35	-20.28	-78.64	-13.00	-65.64
198.78	V	-65.73	-13.35	-79.08	-13.00	-66.08
452.92	V	-63.03	-9.04	-72.07	-13.00	-59.07
44.55	H	-65.31	-11.53	-76.84	-13.00	-63.84
86.26	H	-57.79	-21.33	-79.11	-13.00	-66.11
130.88	H	-48.02	-14.44	-62.46	-13.00	-49.46
452.92	H	-56.94	-9.00	-65.94	-13.00	-52.94
523.73	H	-61.57	-7.80	-69.37	-13.00	-56.37
967.02	H	-62.21	-2.69	-64.90	-13.00	-51.90

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 850 / TX / CH 251

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
32.91	V	-44.89	-17.07	-61.96	-13.00	-48.96
57.16	V	-58.86	-15.80	-74.66	-13.00	-61.66
66.86	V	-59.08	-15.18	-74.26	-13.00	-61.26
86.26	V	-57.51	-20.28	-77.79	-13.00	-64.79
103.72	V	-61.33	-17.40	-78.73	-13.00	-65.73
452.92	V	-63.71	-9.04	-72.75	-13.00	-59.75
43.58	H	-64.49	-11.53	-76.02	-13.00	-63.02
86.26	H	-58.15	-21.33	-79.47	-13.00	-66.47
116.33	H	-64.39	-14.80	-79.19	-13.00	-66.19
160.95	H	-63.88	-13.35	-77.23	-13.00	-64.23
289.96	H	-68.47	-11.69	-80.16	-13.00	-67.16
452.92	H	-68.38	-9.00	-77.39	-13.00	-64.39

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 1900 / TX / CH 512

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
32.91	V	-44.45	-17.07	-61.52	-13.00	-48.52
40.67	V	-49.84	-13.24	-63.08	-13.00	-50.08
62.01	V	-51.15	-15.52	-66.67	-13.00	-53.67
117.30	V	-53.61	-14.43	-68.03	-13.00	-55.03
193.93	V	-50.51	-14.08	-64.59	-13.00	-51.59
218.18	V	-49.58	-14.86	-64.44	-13.00	-51.44
32.91	H	-31.16	-17.31	-48.47	-13.00	-35.47
45.52	H	-52.91	-11.85	-64.76	-13.00	-51.76
86.26	H	-54.09	-21.33	-75.42	-13.00	-62.42
115.36	H	-57.02	-14.97	-72.00	-13.00	-59.00
202.66	H	-55.25	-12.49	-67.74	-13.00	-54.74
248.25	H	-56.70	-14.37	-71.06	-13.00	-58.06

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 1900 / TX / CH 661

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
32.91	V	-30.46	-17.07	-47.53	-13.00	-34.53
60.07	V	-49.99	-15.66	-65.65	-13.00	-52.65
116.33	V	-54.33	-14.60	-68.93	-13.00	-55.93
202.66	V	-50.73	-13.72	-64.45	-13.00	-51.45
232.73	V	-54.68	-13.87	-68.55	-13.00	-55.55
813.76	V	-59.57	-4.12	-63.69	-13.00	-50.69
33.88	H	-31.91	-16.36	-48.27	-13.00	-35.27
127.00	H	-57.72	-14.36	-72.08	-13.00	-59.08
202.66	H	-57.54	-12.49	-70.03	-13.00	-57.03
221.09	H	-57.32	-14.38	-71.70	-13.00	-58.70
288.02	H	-58.30	-11.93	-70.23	-13.00	-57.23
751.68	H	-59.96	-5.09	-65.05	-13.00	-52.05

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 1900 / TX / CH 810

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
32.91	V	-28.30	-17.07	-45.37	-13.00	-32.37
62.01	V	-51.38	-15.52	-66.90	-13.00	-53.90
148.34	V	-58.00	-11.90	-69.90	-13.00	-56.90
198.78	V	-51.01	-13.35	-64.37	-13.00	-51.37
220.12	V	-53.11	-14.77	-67.88	-13.00	-54.88
452.92	V	-58.22	-9.04	-67.26	-13.00	-54.26
33.88	H	-48.37	-16.36	-64.73	-13.00	-51.73
45.52	H	-53.92	-11.85	-65.77	-13.00	-52.77
120.21	H	-57.51	-14.13	-71.63	-13.00	-58.63
200.72	H	-58.35	-12.05	-70.40	-13.00	-57.40
244.37	H	-57.10	-14.19	-71.28	-13.00	-58.28
452.92	H	-59.00	-9.00	-68.00	-13.00	-55.00

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 1900 / TX / CH 512

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
32.91	V	-46.21	-17.07	-63.29	-13.00	-50.29
42.61	V	-52.34	-12.94	-65.28	-13.00	-52.28
61.04	V	-51.72	-15.59	-67.31	-13.00	-54.31
199.75	V	-51.85	-13.21	-65.05	-13.00	-52.05
224.97	V	-53.89	-14.42	-68.31	-13.00	-55.31
453.89	V	-58.88	-9.02	-67.90	-13.00	-54.90
32.91	H	-47.12	-17.31	-64.42	-13.00	-51.42
47.46	H	-54.93	-13.03	-67.96	-13.00	-54.96
120.21	H	-57.45	-14.13	-71.58	-13.00	-58.58
208.48	H	-55.99	-13.84	-69.83	-13.00	-56.83
246.31	H	-56.67	-14.28	-70.95	-13.00	-57.95
672.14	H	-59.95	-5.98	-65.93	-13.00	-52.93

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GPRS 1900 / TX / CH 661

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
32.91	V	-35.01	-17.07	-52.09	-13.00	-39.09
65.89	V	-52.62	-15.25	-67.87	-13.00	-54.87
139.61	V	-58.31	-11.97	-70.28	-13.00	-57.28
197.81	V	-52.63	-13.50	-66.13	-13.00	-53.13
452.92	V	-58.75	-9.04	-67.79	-13.00	-54.79
615.88	V	-59.57	-6.44	-66.01	-13.00	-53.01
44.55	H	-54.28	-11.53	-65.81	-13.00	-52.81
86.26	H	-54.31	-21.33	-75.64	-13.00	-62.64
116.33	H	-55.24	-14.80	-70.04	-13.00	-57.04
193.93	H	-57.96	-12.92	-70.88	-13.00	-57.88
403.45	H	-58.10	-10.32	-68.42	-13.00	-55.42
751.68	H	-59.57	-5.09	-64.66	-13.00	-51.66

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GPRS 1900 / TX / CH 810

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
32.91	V	-39.55	-17.07	-56.62	-13.00	-43.62
61.04	V	-51.21	-15.59	-66.79	-13.00	-53.79
152.22	V	-58.51	-12.21	-70.72	-13.00	-57.72
201.69	V	-52.19	-13.52	-65.71	-13.00	-52.71
298.69	V	-58.57	-12.22	-70.79	-13.00	-57.79
452.92	V	-57.92	-9.04	-66.96	-13.00	-53.96
32.91	H	-35.02	-17.31	-52.32	-13.00	-39.32
45.52	H	-54.35	-11.85	-66.19	-13.00	-53.19
195.87	H	-57.57	-12.59	-70.16	-13.00	-57.16
310.33	H	-57.37	-13.11	-70.47	-13.00	-57.47
497.54	H	-60.15	-7.80	-67.94	-13.00	-54.94
773.99	H	-60.15	-4.51	-64.66	-13.00	-51.66

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: EDGE 850 / TX / CH 128

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
57.16	V	-53.07	-15.80	-68.87	-13.00	-55.87
65.89	V	-55.08	-15.25	-70.33	-13.00	-57.33
86.26	V	-48.78	-20.28	-69.06	-13.00	-56.06
194.90	V	-60.00	-13.94	-73.93	-13.00	-60.93
245.34	V	-53.38	-13.69	-67.07	-13.00	-54.07
869.05	V	-62.97	-3.61	-66.57	-13.00	-53.57
32.91	H	-38.94	-17.31	-56.25	-13.00	-43.25
86.26	H	-43.81	-21.33	-65.14	-13.00	-52.14
99.84	H	-48.42	-18.73	-67.15	-13.00	-54.15
138.64	H	-55.28	-14.23	-69.51	-13.00	-56.51
407.33	H	-59.39	-10.19	-69.58	-13.00	-56.58
512.09	H	-59.38	-7.78	-67.16	-13.00	-54.16

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: EDGE 850 / TX / CH 190

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
34.85	V	-51.19	-15.89	-67.08	-13.00	-54.08
57.16	V	-52.52	-15.80	-68.32	-13.00	-55.32
65.89	V	-54.07	-15.25	-69.31	-13.00	-56.31
86.26	V	-48.10	-20.28	-68.38	-13.00	-55.38
245.34	V	-51.14	-13.69	-64.83	-13.00	-51.83
452.92	V	-65.45	-9.04	-74.50	-13.00	-61.50
32.91	H	-38.26	-17.31	-55.57	-13.00	-42.57
86.26	H	-42.65	-21.33	-63.97	-13.00	-50.97
130.88	H	-48.90	-14.44	-63.34	-13.00	-50.34
245.34	H	-55.79	-14.23	-70.02	-13.00	-57.02
452.92	H	-60.83	-9.00	-69.83	-13.00	-56.83
967.02	H	-59.97	-2.69	-62.66	-13.00	-49.66

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: EDGE 850 / TX / CH 251

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
35.82	V	-45.51	-15.40	-60.91	-13.00	-47.91
86.26	V	-45.55	-20.28	-65.83	-13.00	-52.83
103.72	V	-52.29	-17.40	-69.69	-13.00	-56.69
137.67	V	-54.03	-12.16	-66.20	-13.00	-53.20
245.34	V	-50.43	-13.69	-64.12	-13.00	-51.12
452.92	V	-63.23	-9.04	-72.27	-13.00	-59.27
32.91	H	-38.27	-17.31	-55.57	-13.00	-42.57
57.16	H	-52.77	-15.33	-68.10	-13.00	-55.10
86.26	H	-41.67	-21.33	-63.00	-13.00	-50.00
245.34	H	-53.88	-14.23	-68.11	-13.00	-55.11
256.01	H	-54.70	-14.22	-68.92	-13.00	-55.92
452.92	H	-64.07	-9.00	-73.08	-13.00	-60.08

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: EDGE 1900 / TX / CH 512

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Jerry Lin

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
34.85	V	-28.35	-15.89	-44.24	-13.00	-31.24
66.86	V	-38.81	-15.18	-53.99	-13.00	-40.99
103.72	V	-42.62	-17.40	-60.02	-13.00	-47.02
137.67	V	-45.42	-12.16	-57.59	-13.00	-44.59
206.54	V	-44.26	-14.52	-58.79	-13.00	-45.79
246.31	V	-47.52	-13.75	-61.27	-13.00	-48.27
66.86	H	-43.74	-17.04	-60.78	-13.00	-47.78
86.26	H	-36.75	-21.33	-58.08	-13.00	-45.08
138.64	H	-36.10	-14.23	-50.32	-13.00	-37.32
153.19	H	-39.28	-13.08	-52.36	-13.00	-39.36
199.75	H	-45.70	-11.92	-57.62	-13.00	-44.62
245.34	H	-51.21	-14.23	-65.44	-13.00	-52.44

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: EDGE 1900 / TX / CH 661

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
34.85	V	-27.66	-15.89	-43.55	-13.00	-30.55
70.74	V	-39.02	-15.27	-54.30	-13.00	-41.30
101.78	V	-41.63	-17.91	-59.54	-13.00	-46.54
138.64	V	-45.35	-12.07	-57.42	-13.00	-44.42
211.39	V	-45.90	-15.18	-61.08	-13.00	-48.08
246.31	V	-49.00	-13.75	-62.75	-13.00	-49.75
31.94	H	-36.42	-18.25	-54.67	-13.00	-41.67
70.74	H	-41.33	-17.91	-59.24	-13.00	-46.24
86.26	H	-40.14	-21.33	-61.46	-13.00	-48.46
137.67	H	-38.21	-14.25	-52.47	-13.00	-39.47
157.07	H	-42.51	-13.28	-55.79	-13.00	-42.79
198.78	H	-49.02	-12.09	-61.11	-13.00	-48.11

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: EDGE 1900 / TX / CH 810

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
34.85	V	-27.71	-15.89	-43.60	-13.00	-30.60
71.71	V	-38.74	-15.69	-54.43	-13.00	-41.43
103.72	V	-42.11	-17.40	-59.51	-13.00	-46.51
138.64	V	-45.34	-12.07	-57.40	-13.00	-44.40
196.84	V	-47.89	-13.64	-61.54	-13.00	-48.54
246.31	V	-46.80	-13.75	-60.55	-13.00	-47.55
34.85	H	-45.09	-15.42	-60.51	-13.00	-47.51
71.71	H	-40.59	-18.20	-58.79	-13.00	-45.79
137.67	H	-37.15	-14.25	-51.40	-13.00	-38.40
159.01	H	-42.22	-13.38	-55.60	-13.00	-42.60
197.81	H	-48.17	-12.25	-60.42	-13.00	-47.42
246.31	H	-52.44	-14.28	-66.72	-13.00	-53.72

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band II / TX / CH 9262

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
35.82	V	-48.91	-15.40	-64.30	-13.00	-51.30
57.16	V	-54.32	-15.80	-70.12	-13.00	-57.12
65.89	V	-55.64	-15.25	-70.89	-13.00	-57.89
86.26	V	-51.21	-20.28	-71.49	-13.00	-58.49
245.34	V	-57.52	-13.69	-71.21	-13.00	-58.21
256.01	V	-53.80	-13.88	-67.68	-13.00	-54.68
32.91	H	-44.22	-17.31	-61.53	-13.00	-48.53
86.26	H	-45.75	-21.33	-67.07	-13.00	-54.07
153.19	H	-57.76	-13.08	-70.84	-13.00	-57.84
245.34	H	-62.55	-14.23	-76.78	-13.00	-63.78
384.05	H	-66.08	-11.21	-77.29	-13.00	-64.29
452.92	H	-66.51	-9.00	-75.52	-13.00	-62.52

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band II / TX / CH 9400

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
35.82	V	-49.81	-15.40	-65.21	-13.00	-52.21
57.16	V	-54.51	-15.80	-70.31	-13.00	-57.31
86.26	V	-50.24	-20.28	-70.52	-13.00	-57.52
139.61	V	-59.69	-11.97	-71.66	-13.00	-58.66
245.34	V	-44.48	-13.69	-58.17	-13.00	-45.17
441.28	V	-64.55	-9.29	-73.84	-13.00	-60.84
32.91	H	-48.84	-17.31	-66.14	-13.00	-53.14
86.26	H	-44.72	-21.33	-66.05	-13.00	-53.05
139.61	H	-52.13	-14.20	-66.33	-13.00	-53.33
211.39	H	-56.60	-14.20	-70.80	-13.00	-57.80
245.34	H	-52.40	-14.23	-66.63	-13.00	-53.63
368.53	H	-61.62	-11.82	-73.44	-13.00	-60.44

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band II / TX / CH 9538

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
35.82	V	-49.28	-15.40	-64.68	-13.00	-51.68
57.16	V	-54.58	-15.80	-70.38	-13.00	-57.38
66.86	V	-55.13	-15.18	-70.31	-13.00	-57.31
86.26	V	-51.23	-20.28	-71.51	-13.00	-58.51
142.52	V	-60.44	-11.92	-72.36	-13.00	-59.36
245.34	V	-47.78	-13.69	-61.47	-13.00	-48.47
32.91	H	-43.90	-17.31	-61.21	-13.00	-48.21
86.26	H	-43.96	-21.33	-65.29	-13.00	-52.29
138.64	H	-53.80	-14.23	-68.03	-13.00	-55.03
245.34	H	-55.87	-14.23	-70.11	-13.00	-57.11
368.53	H	-64.92	-11.82	-76.74	-13.00	-63.74
429.64	H	-64.88	-9.49	-74.38	-13.00	-61.38

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band V / TX / CH 4132

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
35.82	V	-49.80	-15.40	-65.19	-13.00	-52.19
57.16	V	-55.65	-15.80	-71.46	-13.00	-58.46
66.86	V	-55.38	-15.18	-70.56	-13.00	-57.56
86.26	V	-51.98	-20.28	-72.27	-13.00	-59.27
141.55	V	-63.10	-11.93	-75.03	-13.00	-62.03
245.34	V	-54.46	-13.69	-68.15	-13.00	-55.15
32.91	H	-47.25	-17.31	-64.56	-13.00	-51.56
86.26	H	-47.16	-21.33	-68.49	-13.00	-55.49
138.64	H	-57.79	-14.23	-72.02	-13.00	-59.02
154.16	H	-59.68	-13.13	-72.81	-13.00	-59.81
245.34	H	-60.45	-14.23	-74.68	-13.00	-61.68
554.77	H	-67.98	-7.42	-75.41	-13.00	-62.41

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.

**Operation Mode:** WCDMA Band V / TX / CH 4183**Test Date:** November 18, 2008**Temperature:** 25°C**Tested by:** Mark Yang**Humidity:** 50 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
31.94	V	-47.19	-17.67	-64.86	-13.00	-51.86
57.16	V	-54.84	-15.80	-70.64	-13.00	-57.64
66.86	V	-57.03	-15.18	-72.21	-13.00	-59.21
86.26	V	-52.58	-20.28	-72.86	-13.00	-59.86
245.34	V	-52.91	-13.69	-66.60	-13.00	-53.60
307.42	V	-63.92	-12.52	-76.44	-13.00	-63.44
31.94	H	-43.58	-18.25	-61.83	-13.00	-48.83
57.16	H	-56.79	-15.33	-72.12	-13.00	-59.12
66.86	H	-58.80	-17.04	-75.83	-13.00	-62.83
86.26	H	-47.57	-21.33	-68.90	-13.00	-55.90
161.92	H	-64.22	-13.27	-77.49	-13.00	-64.49
245.34	H	-60.16	-14.23	-74.39	-13.00	-61.39

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band V / TX / CH 4233

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
31.94	V	-46.79	-17.67	-64.45	-13.00	-51.45
57.16	V	-54.64	-15.80	-70.44	-13.00	-57.44
86.26	V	-52.22	-20.28	-72.50	-13.00	-59.50
100.81	V	-55.63	-18.17	-73.80	-13.00	-60.80
245.34	V	-51.53	-13.69	-65.22	-13.00	-52.22
307.42	V	-63.65	-12.52	-76.17	-13.00	-63.17
31.94	H	-48.93	-18.25	-67.18	-13.00	-54.18
57.16	H	-57.54	-15.33	-72.87	-13.00	-59.87
86.26	H	-47.39	-21.33	-68.72	-13.00	-55.72
153.19	H	-64.17	-13.08	-77.25	-13.00	-64.25
200.72	H	-66.64	-12.05	-78.69	-13.00	-65.69
245.34	H	-60.06	-14.23	-74.30	-13.00	-61.30

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band II / TX / CH 9262

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
35.82	V	-54.87	-15.40	-70.26	-13.00	-57.26
57.16	V	-55.22	-15.80	-71.02	-13.00	-58.02
66.86	V	-56.29	-15.18	-71.47	-13.00	-58.47
86.26	V	-51.78	-20.28	-72.07	-13.00	-59.07
245.34	V	-48.51	-13.69	-62.20	-13.00	-49.20
429.64	V	-61.74	-9.48	-71.22	-13.00	-58.22
66.86	H	-56.34	-17.04	-73.37	-13.00	-60.37
86.26	H	-46.08	-21.33	-67.40	-13.00	-54.40
245.34	H	-53.65	-14.23	-67.88	-13.00	-54.88
368.53	H	-61.95	-11.82	-73.77	-13.00	-60.77
429.64	H	-62.15	-9.49	-71.64	-13.00	-58.64
627.52	H	-68.47	-6.32	-74.79	-13.00	-61.79

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band II / TX / CH 9400

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
36.79	V	-49.72	-14.92	-64.64	-13.00	-51.64
57.16	V	-54.61	-15.80	-70.41	-13.00	-57.41
66.86	V	-54.99	-15.18	-70.17	-13.00	-57.17
86.26	V	-51.44	-20.28	-71.72	-13.00	-58.72
245.34	V	-48.49	-13.69	-62.18	-13.00	-49.18
368.53	V	-63.16	-11.92	-75.08	-13.00	-62.08
32.91	H	-43.00	-17.31	-60.31	-13.00	-47.31
86.26	H	-45.72	-21.33	-67.05	-13.00	-54.05
151.25	H	-57.84	-12.98	-70.82	-13.00	-57.82
245.34	H	-55.64	-14.23	-69.87	-13.00	-56.87
368.53	H	-63.20	-11.82	-75.02	-13.00	-62.02
429.64	H	-59.00	-9.49	-68.50	-13.00	-55.50

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band II / TX / CH 9538

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
35.82	V	-49.00	-15.40	-64.40	-13.00	-51.40
57.16	V	-54.73	-15.80	-70.54	-13.00	-57.54
86.26	V	-50.95	-20.28	-71.23	-13.00	-58.23
245.34	V	-47.12	-13.69	-60.81	-13.00	-47.81
307.42	V	-61.59	-12.52	-74.11	-13.00	-61.11
429.64	V	-63.33	-9.48	-72.81	-13.00	-59.81
57.16	H	-58.51	-15.33	-73.84	-13.00	-60.84
86.26	H	-44.79	-21.33	-66.12	-13.00	-53.12
153.19	H	-56.68	-13.08	-69.77	-13.00	-56.77
245.34	H	-56.37	-14.23	-70.60	-13.00	-57.60
368.53	H	-60.99	-11.82	-72.81	-13.00	-59.81
429.64	H	-64.46	-9.49	-73.96	-13.00	-60.96

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band V / TX / CH 4132

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
35.82	V	-54.77	-15.40	-70.17	-13.00	-57.17
57.16	V	-55.41	-15.80	-71.21	-13.00	-58.21
66.86	V	-56.19	-15.18	-71.37	-13.00	-58.37
86.26	V	-53.94	-20.28	-74.22	-13.00	-61.22
245.34	V	-50.08	-13.69	-63.77	-13.00	-50.77
307.42	V	-64.49	-12.52	-77.02	-13.00	-64.02
32.91	H	-45.42	-17.31	-62.73	-13.00	-49.73
57.16	H	-57.51	-15.33	-72.83	-13.00	-59.83
86.26	H	-47.21	-21.33	-68.53	-13.00	-55.53
139.61	H	-57.78	-14.20	-71.98	-13.00	-58.98
156.10	H	-59.48	-13.23	-72.71	-13.00	-59.71
245.34	H	-60.27	-14.23	-74.50	-13.00	-61.50

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band V / TX / CH 4183

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
35.82	V	-55.76	-15.40	-71.15	-13.00	-58.15
57.16	V	-54.93	-15.80	-70.73	-13.00	-57.73
66.86	V	-56.49	-15.18	-71.67	-13.00	-58.67
86.26	V	-52.22	-20.28	-72.50	-13.00	-59.50
116.33	V	-63.14	-14.60	-77.74	-13.00	-64.74
245.34	V	-49.56	-13.69	-63.25	-13.00	-50.25
31.94	H	-48.57	-18.25	-66.82	-13.00	-53.82
57.16	H	-57.64	-15.33	-72.97	-13.00	-59.97
86.26	H	-46.66	-21.33	-67.99	-13.00	-54.99
139.61	H	-57.69	-14.20	-71.89	-13.00	-58.89
153.19	H	-59.78	-13.08	-72.86	-13.00	-59.86
245.34	H	-60.73	-14.23	-74.96	-13.00	-61.96

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band V / TX / CH 4233

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
31.94	V	-47.39	-17.67	-65.06	-13.00	-52.06
57.16	V	-54.69	-15.80	-70.49	-13.00	-57.49
66.86	V	-55.72	-15.18	-70.90	-13.00	-57.90
86.26	V	-52.69	-20.28	-72.97	-13.00	-59.97
245.34	V	-50.43	-13.69	-64.12	-13.00	-51.12
307.42	V	-64.20	-12.52	-76.73	-13.00	-63.73
31.94	H	-41.71	-18.25	-59.96	-13.00	-46.96
57.16	H	-55.15	-15.33	-70.48	-13.00	-57.48
86.26	H	-46.92	-21.33	-68.24	-13.00	-55.24
154.16	H	-61.84	-13.13	-74.98	-13.00	-61.98
245.34	H	-56.26	-14.23	-70.49	-13.00	-57.49
452.92	H	-67.17	-9.00	-76.18	-13.00	-63.18

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Above 1GHz

Operation Mode: GSM 850 / TX / CH 128

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1651.00	V	-55.00	1.63	-53.37	-13.00	-40.37
2470.00	V	-50.01	4.75	-45.26	-13.00	-32.26
3296.00	V	-60.80	6.32	-54.48	-13.00	-41.48
N/A						
1651.00	H	-57.47	1.63	-55.84	-13.00	-42.84
2470.00	H	-49.68	4.74	-44.94	-13.00	-31.94
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GSM 850 / TX / CH 190

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1672.00	V	-54.03	1.64	-52.40	-13.00	-39.40
2512.00	V	-50.62	4.96	-45.66	-13.00	-32.66
4185.00	V	-61.15	8.77	-52.38	-13.00	-39.38
N/A						
1672.00	H	-57.17	1.66	-55.52	-13.00	-42.52
2512.00	H	-44.08	4.94	-39.14	-13.00	-26.14
4185.00	H	-61.00	7.55	-53.45	-13.00	-40.45
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 850 / TX / CH 251

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1700.00	V	-51.79	1.65	-50.15	-13.00	-37.15
2547.00	V	-42.54	5.02	-37.52	-13.00	-24.52
N/A						
1700.00	H	-53.67	1.68	-51.99	-13.00	-38.99
2547.00	H	-41.96	4.98	-36.98	-13.00	-23.98
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 850 / TX / CH 128

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1651.00	V	-60.99	1.63	-59.36	-13.00	-46.36
2470.00	V	-52.73	4.75	-47.98	-13.00	-34.98
N/A						
1651.00	H	-54.93	1.63	-53.30	-13.00	-40.30
2470.00	H	-41.87	4.74	-37.13	-13.00	-24.13
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: GPRS 850 / TX / CH 190

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1672.00	V	-57.49	1.64	-55.86	-13.00	-42.86
2512.00	V	-51.64	4.96	-46.68	-13.00	-33.68
N/A						
1672.00	H	-53.75	1.66	-52.09	-13.00	-39.09
2512.00	H	-38.52	4.94	-33.58	-13.00	-20.58
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 850 / TX / CH 251

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1700.00	V	-55.54	1.65	-53.89	-13.00	-40.89
2547.00	V	-52.08	5.02	-47.06	-13.00	-34.06
N/A						
1700.00	H	-52.92	1.68	-51.24	-13.00	-38.24
2547.00	H	-37.39	4.98	-32.40	-13.00	-19.40
4248.00	H	-60.01	7.64	-52.37	-13.00	-39.37
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 1900 / TX / CH 512

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3702.00	V	-54.79	7.57	-47.22	-13.00	-34.22
5550.00	V	-49.88	8.19	-41.68	-13.00	-28.68
N/A						
3702.00	H	-56.93	6.71	-50.22	-13.00	-37.22
5550.00	H	-48.79	10.21	-38.58	-13.00	-25.58
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 1900 / TX / CH 661

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3758.00	V	-50.19	7.81	-42.37	-13.00	-29.37
5641.00	V	-48.00	8.23	-39.76	-13.00	-26.76
N/A						
3758.00	H	-55.27	6.83	-48.44	-13.00	-35.44
5641.00	H	-47.94	9.93	-38.01	-13.00	-25.01
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GSM 1900 / TX / CH 810

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3821.00	V	-43.38	8.09	-35.29	-13.00	-22.29
5732.00	V	-49.59	8.27	-41.32	-13.00	-28.32
N/A						
3821.00	H	-50.20	6.95	-43.25	-13.00	-30.25
5732.00	H	-49.01	9.65	-39.36	-13.00	-26.36
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 1900 / TX / CH 512

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3702.00	V	-56.60	7.57	-49.03	-13.00	-36.03
5550.00	V	-55.24	8.19	-47.05	-13.00	-34.05
N/A						
3702.00	H	-56.20	6.71	-49.49	-13.00	-36.49
5550.00	H	-51.51	10.21	-41.31	-13.00	-28.31
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 1900 / TX / CH 661

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3758.00	V	-51.86	7.81	-44.04	-13.00	-31.04
5641.00	V	-50.98	8.23	-42.74	-13.00	-29.74
N/A						
3758.00	H	-52.82	6.83	-46.00	-13.00	-33.00
5641.00	H	-48.94	9.93	-39.01	-13.00	-26.01
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: GPRS 1900 / TX / CH 810

Test Date: November 15, 2008

Temperature: 25°C

Tested by: Ming Chen

Humidity: 55 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3821.00	V	-49.33	8.09	-41.24	-13.00	-28.24
5732.00	V	-49.20	8.27	-40.92	-13.00	-27.92
N/A						
3821.00	H	-47.54	6.95	-40.58	-13.00	-27.58
5732.00	H	-49.32	9.65	-39.67	-13.00	-26.67
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: EDGE 850 / TX / CH 128

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1651.00	V	-59.09	1.63	-57.46	-13.00	-44.46
2470.00	V	-57.05	4.75	-52.30	-13.00	-39.30
N/A						
1651.00	H	-57.76	1.63	-56.13	-13.00	-43.13
2470.00	H	-56.68	4.74	-51.94	-13.00	-38.94
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: EDGE 850 / TX / CH 190

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1672.00	V	-55.58	1.64	-53.94	-13.00	-40.94
2512.00	V	-52.62	4.96	-47.66	-13.00	-34.66
N/A						
1672.00	H	-54.09	1.66	-52.43	-13.00	-39.43
2512.00	H	-49.55	4.94	-44.62	-13.00	-31.62
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: EDGE 850 / TX / CH 251

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1700.00	V	-52.89	1.65	-51.24	-13.00	-38.24
2547.00	V	-47.56	5.02	-42.54	-13.00	-29.54
N/A						
1700.00	H	-52.56	1.68	-50.88	-13.00	-37.88
2547.00	H	-48.73	4.98	-43.75	-13.00	-30.75
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: EDGE 1900 / TX / CH 512

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3702.00	V	-58.38	7.57	-50.81	-13.00	-37.81
4605.00	V	-59.87	8.65	-51.23	-13.00	-38.23
5550.00		-58.43	8.19	-50.24	-13.00	-37.24
N/A						
3702.00	H	-52.97	6.71	-46.26	-13.00	-33.26
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: EDGE 1900 / TX / CH 661

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3758.00	V	-58.13	7.81	-50.32	-13.00	-37.32
N/A						
3758.00	H	-52.39	6.83	-45.56	-13.00	-32.56
5641.00	H	-58.72	9.93	-48.79	-13.00	-35.79
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: EDGE 1900 / TX / CH 810

Test Date: November 18, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3163.00	V	-60.89	6.08	-54.81	-13.00	-41.81
3821.00	V	-55.29	8.09	-47.20	-13.00	-34.20
5732.00	V	-59.49	8.27	-51.22	-13.00	-38.22
N/A						
3821.00	H	-52.81	6.95	-45.86	-13.00	-32.86
5732.00	H	-57.57	9.65	-47.92	-13.00	-34.92
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band II / TX / CH 9262

Test Date: November 19, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1854.00	V	-42.82	1.72	-41.11	-13.00	-28.11
3702.00	V	-55.72	7.57	-48.15	-13.00	-35.15
N/A						
1854.00	H	-40.37	1.83	-38.54	-13.00	-25.54
3709.00	H	-54.99	6.73	-48.26	-13.00	-35.26
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band II / TX / CH 9400

Test Date: November 19, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1882.00	V	-43.33	1.73	-41.60	-13.00	-28.60
3758.00	V	-50.60	7.81	-42.79	-13.00	-29.79
N/A						
1882.00	H	-46.26	1.86	-44.41	-13.00	-31.41
3758.00	H	-54.20	6.83	-47.38	-13.00	-34.38
5641.00	H	-57.46	9.93	-47.53	-13.00	-34.53
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band II / TX / CH 9538

Test Date: November 19, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1910.00	V	-47.95	1.74	-46.21	-13.00	-33.21
3814.00	V	-51.66	8.06	-43.60	-13.00	-30.60
N/A						
1910.00	H	-52.26	1.88	-50.38	-13.00	-37.38
3814.00	H	-55.66	6.94	-48.72	-13.00	-35.72
5718.00	H	-57.81	9.69	-48.12	-13.00	-35.12
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band V / TX / CH 4132

Test Date: November 19, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1658.00	V	-51.74	1.63	-50.12	-13.00	-37.12
2484.00	V	-56.20	4.84	-51.36	-13.00	-38.36
N/A						
1658.00	H	-50.82	1.64	-49.17	-13.00	-36.17
2484.00	H	-55.17	4.83	-50.35	-13.00	-37.35
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band V / TX / CH 4183

Test Date: November 19, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1672.00	V	-46.12	1.64	-44.49	-13.00	-31.49
N/A						
1679.00	H	-46.65	1.66	-44.99	-13.00	-31.99
2512.00	H	-54.35	4.94	-49.41	-13.00	-36.41
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA Band V / TX / CH 4233

Test Date: November 19, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1693.00	V	-47.89	1.64	-46.25	-13.00	-33.25
2540.00	V	-57.03	5.01	-52.02	-13.00	-39.02
N/A						
1693.00	H	-49.00	1.68	-47.32	-13.00	-34.32
2547.00	H	-55.03	4.98	-50.05	-13.00	-37.05
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band II / TX / CH 9262

Test Date: November 19, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1854.00	V	-45.49	1.72	-43.77	-13.00	-30.77
3709.00	V	-55.62	7.60	-48.02	-13.00	-35.02
4822.00	V	-60.84	8.74	-52.10	-13.00	-39.10
N/A						
1854.00	H	-41.79	1.83	-39.96	-13.00	-26.96
3702.00	H	-54.59	6.71	-47.87	-13.00	-34.87
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band II / TX / CH 9400

Test Date: November 19, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1882.00	V	-44.22	1.73	-42.49	-13.00	-29.49
3758.00	V	-50.90	7.81	-43.08	-13.00	-30.08
N/A						
1882.00	H	-46.95	1.86	-45.10	-13.00	-32.10
3765.00	H	-54.41	6.84	-47.57	-13.00	-34.57
5634.00	H	-58.28	9.95	-48.33	-13.00	-35.33
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band II / TX / CH 9538

Test Date: November 19, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1910.00	V	-47.42	1.74	-45.68	-13.00	-32.68
3814.00	V	-51.48	8.06	-43.42	-13.00	-30.42
N/A						
1910.00	H	-51.95	1.88	-50.07	-13.00	-37.07
3814.00	H	-55.29	6.94	-48.35	-13.00	-35.35
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band V / TX / CH 4132

Test Date: November 19, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1658.00	V	-51.37	1.63	-49.74	-13.00	-36.74
2484.00	V	-58.03	4.84	-53.19	-13.00	-40.19
N/A						
1651.00	H	-52.04	1.63	-50.41	-13.00	-37.41
2484.00	H	-54.96	4.83	-50.13	-13.00	-37.13
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band V / TX / CH 4183

Test Date: November 19, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1679.00	V	-48.80	1.64	-47.17	-13.00	-34.17
N/A						
1679.00	H	-46.97	1.66	-45.30	-13.00	-32.30
2512.00	H	-58.49	4.94	-53.56	-13.00	-40.56
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: WCDMA / HSDPA Band V / TX / CH 4233

Test Date: November 19, 2008

Temperature: 25°C

Tested by: Mark Yang

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization (V/H)	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1693.00	V	-48.63	1.64	-46.99	-13.00	-33.99
2540.00	V	-56.38	5.01	-51.37	-13.00	-38.37
N/A						
1693.00	H	-48.88	1.68	-47.21	-13.00	-34.21
2540.00	H	-57.90	4.97	-52.92	-13.00	-39.92
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.

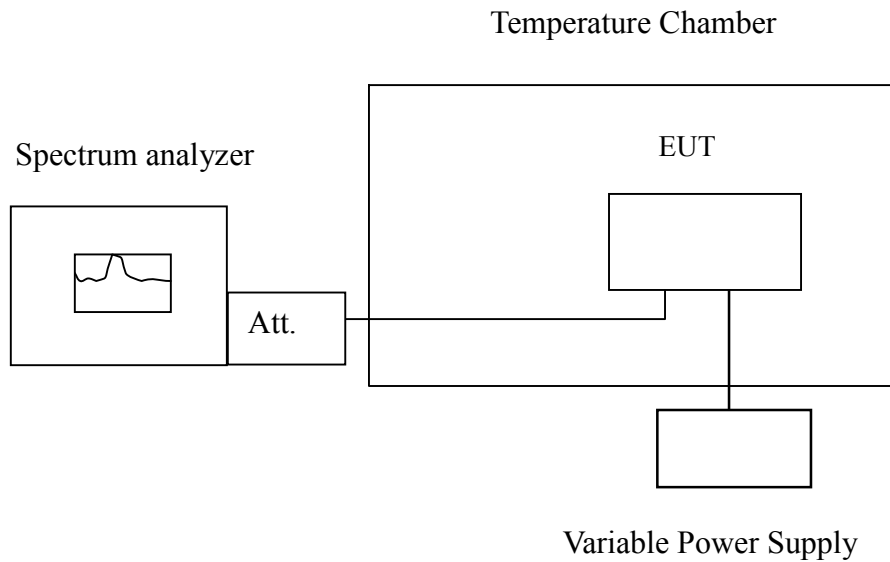
7.7 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

LIMIT

According to FCC §2.1055, FCC §24.235.

Frequency Tolerance: 2.5 ppm

Test Configuration



Remark: Measurement setup for testing on Antenna connector.



TEST PROCEDURE

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST RESULTS

No non-compliance noted.

Reference Frequency: GSM Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2090 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	50	83600022	49	2090
	40	83600027	54	
	30	83600021	48	
	20	83599973	0	
	10	83600031	58	
	0	83600025	52	
	-10	83600024	51	
	-20	83600028	55	
	-30	83600034	61	

Reference Frequency: GSM Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	50	1879999974	-66	4700
	40	1879999979	-61	
	30	1879999977	-63	
	20	1880000040	0	
	10	1879999970	-70	
	0	1879999981	-59	
	-10	1879999978	-62	
	-20	1879999970	-70	
	-30	1879999971	-69	



Reference Frequency: GPRS Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2090 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	50	83599993	-10	2090
	40	83599989	-14	
	30	83599985	-18	
	20	83600003	0	
	10	83599988	-15	
	0	83599992	-11	
	-10	83599987	-16	
	-20	83599989	-14	
	-30	83599995	-8	

Reference Frequency: GPRS Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	50	1879999981	-38	4700
	40	1879999979	-40	
	30	1879999980	-39	
	20	1880000019	0	
	10	1879999970	-49	
	0	1879999980	-39	
	-10	1879999974	-45	
	-20	1879999967	-52	
	-30	1879999972	-47	



Reference Frequency: EDGE Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2090 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	50	83599976	-43	2090
	40	83599970	-49	
	30	83599979	-40	
	20	83600019	0	
	10	83599978	-41	
	0	83599981	-38	
	-10	83599977	-42	
	-20	83599983	-36	
	-30	83599975	-44	

Reference Frequency: EDGE Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	50	1880000040	67	4700
	40	1880000037	64	
	30	1880000035	62	
	20	1879999973	0	
	10	1880000036	63	
	0	1880000035	62	
	-10	1880000037	64	
	-20	1880000045	72	
	-30	1880000050	77	



Reference Frequency: WCDMA Band V Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2090 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	50	83599999	-6	2090
	40	83599997	-8	
	30	83599999	-6	
	20	83600005	0	
	10	83599995	-10	
	0	83599996	-9	
	-10	83599997	-8	
	-20	83599999	-6	
	-30	83599995	-10	

Reference Frequency: WCDMA Band II Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	50	1880000003	9	4700
	40	1880000000	6	
	30	1880000002	8	
	20	1879999994	0	
	10	1880000000	6	
	0	1880000001	7	
	-10	1880000003	9	
	-20	1880000002	8	
	-30	1880000000	6	



Reference Frequency: WCDMA / HSDPA Band V Mid Channel 836.6 MHz @ 20°C				
Limit: +/- 2.5 ppm = 2090 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	50	83599998	-4	2090
	40	83599999	-3	
	30	83599997	-5	
	20	83600002	0	
	10	83599999	-3	
	0	83599996	-6	
	-10	83599995	-7	
	-20	83599997	-5	
	-30	83599997	-5	

Reference Frequency: WCDMA / HSDPA Band II Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	50	1879999993	-10	4700
	40	1879999990	-13	
	30	1880000000	-3	
	20	1880000003	0	
	10	1879999998	-5	
	0	1879999997	-6	
	-10	1879999995	-8	
	-20	1879999998	-5	
	-30	1879999992	-11	

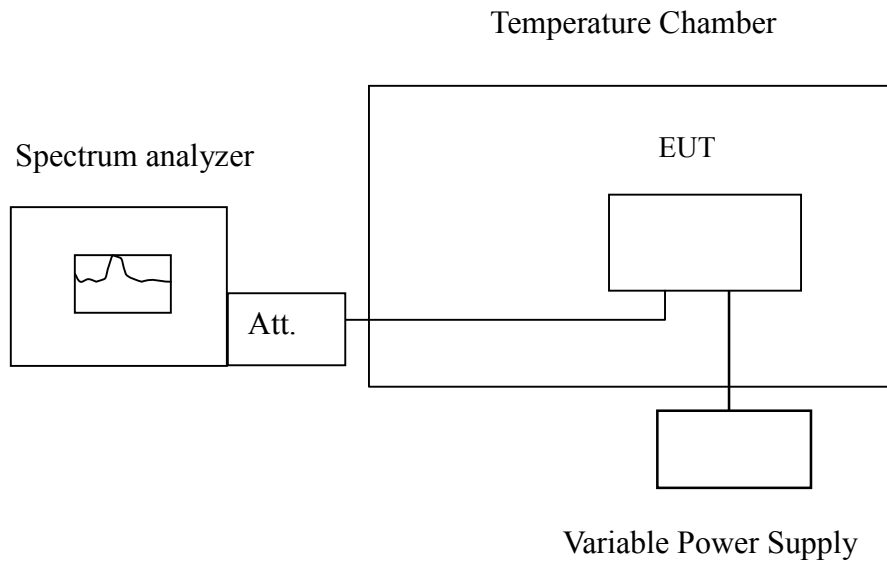
7.8 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

LIMIT

According to FCC §2.1055, FCC §24.235,

Frequency Tolerance: 2.5 ppm.

Test Configuration



Remark: Measurement setup for testing on Antenna connector.



TEST PROCEDURE

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (± 15%) and endpoint, record the maximum frequency change.

TEST RESULTS

No non-compliance noted.

Reference Frequency: GSM Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.255	20	83599972	3	2090
3.7		83599969	0	
3.145		83599967	-2	
2.8END		83599385	-582	

Reference Frequency: GSM Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.255	20	1880000033	6	4700
3.7		1880000027	0	
3.145		1880000035	8	
2.8END		1879998235	-1792	



Reference Frequency: GPRS Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.255	20	83600006	1	2090
3.7		83600005	0	
3.145		83600008	3	
2.8END		83599232	-776	

Reference Frequency: GPRS Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.255	20	188000022	1	4700
3.7		188000021	0	
3.145		188000016	-5	
2.8END		187999018	-1003	



Reference Frequency: EDGE Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.255	20	83600022	1	2090
3.7		83600021	0	
3.145		83600015	-6	
2.8END		83599573	-442	

Reference Frequency: EDGE Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.255	20	1879999970	-2	4700
3.7		1879999972	0	
3.145		1879999967	-5	
2.8END		1879999242	-730	



Reference Frequency: WCDMA Band V Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.255	20	83600002	-2	2090
3.7		83600004	0	
3.145		83600003	-1	
2.8END		83599989	-14	

Reference Frequency: WCDMA Band II Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.255	20	1879999998	5	4700
3.7		1879999993	0	
3.145		1879999997	4	
2.8END		1879999985	-8	



Reference Frequency: WCDMA / HSDPA Band V Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.255	20	83600000	-1	2090
3.7		83600001	0	
3.145		83600002	1	
2.8 END		83599969	-33	

Reference Frequency: WCDMA / HSDPA Band II Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.255	20	1880000003	-1	4700
3.7		1880000004	0	
3.145		1880000005	1	
2.8END		1880000013	9	



7.9 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dBµV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

**TEST RESULTS**

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Operation Mode: Normal Link**Test Date:** November 12, 2008**Temperature:** 22°C**Tested by:** Ryan Chen**Humidity:** 45% RH

Freq. (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.2750	37.37	27.77	0.13	37.50	27.90	60.97	50.97	-23.47	-23.07	L1
0.5550	39.87	26.87	0.03	39.90	26.90	56.00	46.00	-16.10	-19.10	L1
0.8200	45.07	33.47	0.03	45.10	33.50	56.00	46.00	-10.90	-12.50	L1
0.9700	39.77	28.87	0.03	39.80	28.90	56.00	46.00	-16.20	-17.10	L1
1.7550	36.27	25.17	0.03	36.30	25.20	56.00	46.00	-19.70	-20.80	L1
15.8650	34.55	25.65	0.65	35.20	26.30	60.00	50.00	-24.80	-23.70	L1
0.2000	35.44	23.34	0.16	35.60	23.50	63.61	53.61	-28.01	-30.11	L2
0.2750	41.17	28.57	0.13	41.30	28.70	60.97	50.97	-19.67	-22.27	L2
0.5550	38.17	24.17	0.03	38.20	24.20	56.00	46.00	-17.80	-21.80	L2
0.8100	43.67	31.47	0.03	43.70	31.50	56.00	46.00	-12.30	-14.50	L2
1.4650	36.77	24.97	0.03	36.80	25.00	56.00	46.00	-19.20	-21.00	L2
15.1100	32.76	23.16	0.64	33.40	23.80	60.00	50.00	-26.60	-26.20	L2

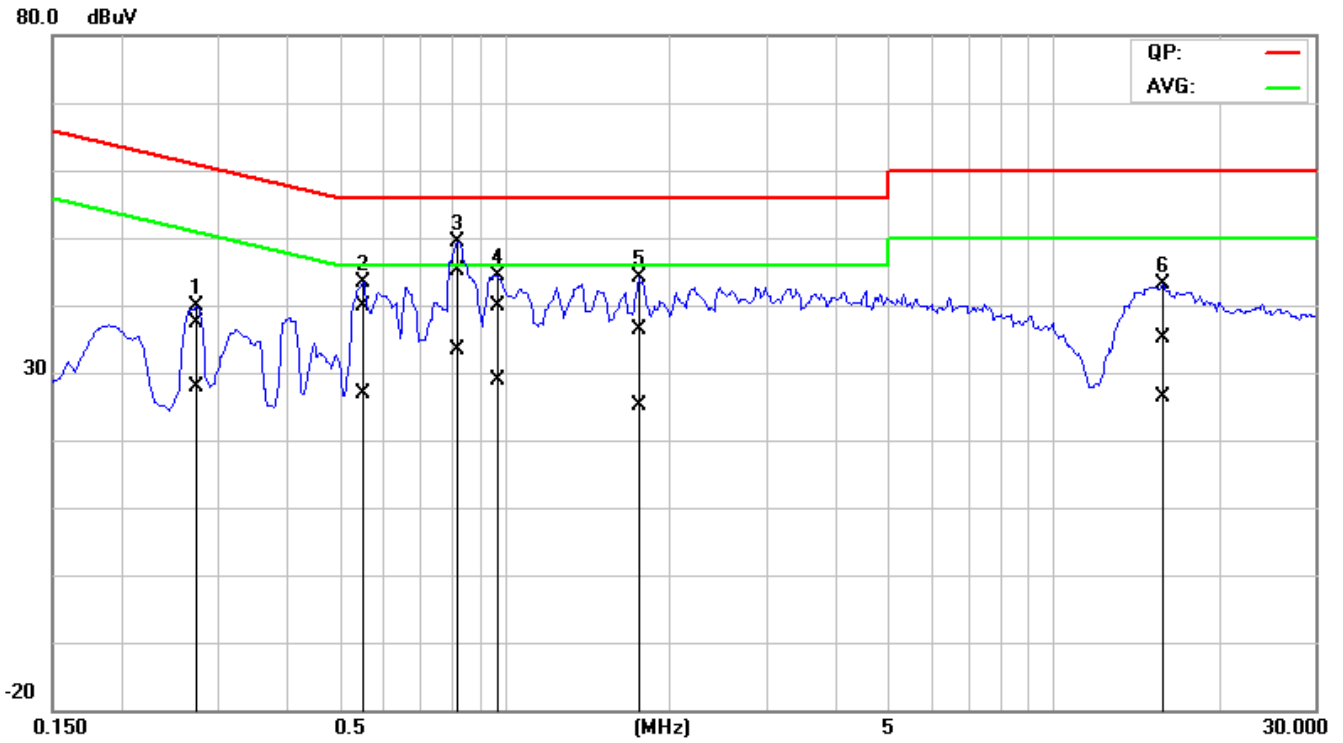
Remark:

1. Measuring frequencies from 0.15 MHz to 30MHz.
2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
3. The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;
4. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)



Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)

