



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

TEST REPORT

For

HSDPA/WCDMA/EDGE/GPRS/GSM 850/900/1800/1900/2100MHz

Mobile Phone

Model: i-mobile i858

Trade Name: i-mobile

Issued to

YuHua TelTech (Shanghai) Co.,Ltd.

4F/2, District B, No. 1000 Jinhai Road, Pudong 201206, Shanghai, P.R. China

Issued by

COMPLIANCE CERTIFICATION SERVICES (KUNSHAN) INC.

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1. TEST RESULT CERTIFICATION

Applicant: YuHua TelTech (Shanghai) Co.,Ltd.
4F/2, District B, No. 1000 Jinhai Road, Pudong 201206, Shanghai, P.R. China

Equipment Under Test: HSDPA/WCDMA/EDGE/GPRS/GSM 850/900/1800/1900/
2100MHz Mobile Phone

Trade Name: i-mobile

Model Number: i-mobile i858

Date of Test: April 16, 2010

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 ANSI C63.4: 2003 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:

Miro Chueh
EMC Manager
Compliance Certification Service Inc.

Reviewed by:

Lin Zhang
EMC Section Manager
Compliance Certification Services Inc.



2. EUT DESCRIPTION

Product	HSDPA/WCDMA/EDGE/GPRS/GSM850/900/1800/1900/2100MHz Mobile Phone
Trade Name	i-mobile
Model Number	i-mobile i858
Model Discrepancy	N/A
Power Supply	Power adapter: Model Number :LSD-D05I55 Input:100-240V Output:5.0V/550mA Rechargeable battery Model:BL-84 Li-polymer 3.7V 1500mAh(5.6Wh) Voltage:4.2V
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: 869 ~ 894 MHz MHz
Transmit Power (ERP & EIRP Power)	GSM 850: 27.42 dBm GSM 1900: 29.95 dBm GPRS 850: 27.11 dBm GPRS 1900: 29.75 dBm EDGE 850: 25.30 dBm EDGE 1900: 29.20 dBm WCDMA Band II: 26.44 dBm WCDMA Band V: 20.90 dBm WCDMA HSDPA Band II: 26.97 dBm WCDMA HSDPA Band V: 21.05 dBm WCDMA HSUPA Band II: 27.32 dBm WCDMA HSUPA Band V: 21.27 dBm
Modulation Technique	GSM/GPRS: GMSK EDGE: 8PSK WCDMA: QPSK
Antenna Gain	GSM/GPRS / EDGE 850 MHz:1.85dBi GSM/GPRS / EDGE 1900 MHz: 2.99 dBi WCDMA band II: 1.85 dBi WCDMA band V: 2.99 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: **S2VTN100** 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: 2004 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: 2003. 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: 2003.



3.4 DESCRIPTION OF TEST MODES

The EUT (model: Gobi2) 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.

EUT staying in continuous transmitting mode was programmed.

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 / HSDPA 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 V:

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



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

Conducted Emissions Test Site				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY44020154	04/24/2010
DETECTOR NEGATIVE	Agilent	8473B	MY42240176	10/05/2010
OSCILLOSCOPE	Agilent	DSO6104A	MY44002585	11/20/2010
Peak and Avg Power Sensor	Agilent	E9327A	US40441788	10/31/2010
EPM-P Series Power Meter	Agilent	E4416A	GB41292714	10/31/2010
Power SPLITTER	Mini-Circuits	ZN2PD-9G	SF078500430	07/29/2010
DC POWER SUPPLY	GW instek	GPS-3303C	E903131	10/18/2010
Temp. / Humidity Chamber	Kingson	THS-M1	242	11/16/2010

977 Chamber				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY44020154	04/24/2010
Spectrum Analyzer	Agilent	E4446A	US44300398	04/24/2010
EMI Test Receiver	R&S	ESPI3	101026	04/24/2010
Pre-Amplifier	MINI	ZFL-1000VH2	d041703	02/28/2011
Pre-Amplifier	Miteq	NSP4000-NF	870731	02/28/2011
Bilog Antenna	Sunol	JB1	A110204-2	11/22/2010
Horn-antenna	SCHWARZBECK	BBHA9120D	D:266	12/04/2010
PSG Analog Signal Generator	Agilent	E8257C	MY43321570	04/24/2010
Turn Table	CT	CT123	4165	N.C.R
Antenna Tower	CT	CTERG23	3256	N.C.R
Controller	CT	CT100	95637	N.C.R
Site NSA	CCS	N/A	N/A	04/06/2010

Conducted Emission				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMC Receiver	R&S	ESC13	100781	04/24/2010
V (V-LISN)	Schwarzbeck	NNLK 8129	8129-143	04/24/2010
LISN (EUT)	FCC	FCC-LISN-50/250-50-2-02	SN:05012	04/24/2010
TRANSIENT LIMITER	SCHAFFNER	CFL9206	1710	04/24/2010
RF Current Probe	FCC	F-65A	147	04/24/2010

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



4.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETR 028:

Measurement		Frequency	Uncertainty
Conducted emissions		9kHz~30MHz	+/- 3.43dB
Radiated emissions	H	30MHz ~ 200MHz	+/- 4.72dB
		200MHz ~1000MHz	+/- 4.72dB
	V	30MHz ~ 200MHz	+/- 4.83dB
		200MHz ~1000MHz	+/- 4.70dB

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

- ☒ No.10Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

The sites are constructed in conformance with the requirements of 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 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC,A2LA
Japan	VCCI
Canada	INDUSTRY CANADA,
Taiwan	TAF
China	CNAS

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>.



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	FCC ID	Series No.	Data Cable	Power Cord
N/A							

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.*



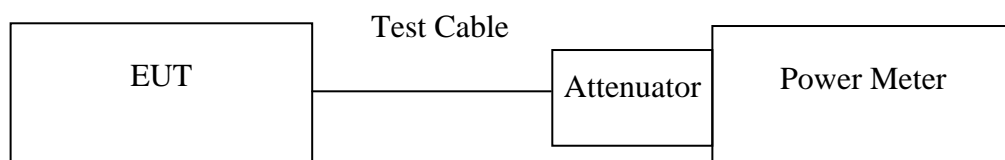
7. FCC PART 22 & 24 REQUIREMENTS

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)	Peak Power (dBm)
GPRS 850 (Class 12)	128	824.20	33.02
	190	836.40	32.71
	251	848.80	32.68
EDGE 850 (Class 12)	128	824.20	28.11
	190	836.40	27.91
	251	848.80	27.62
GSM 850	128	824.20	32.98
	190	836.40	32.73
	251	848.80	32.52

Test Mode	CH	Frequency (MHz)	Peak Power (dBm)
GPRS 1900 (Class 12)	512	1850.20	29.02
	661	1880.00	29.34
	810	1910.00	29.56
EDGE 1900 (Class 12)	512	1850.20	26.53
	661	1880.00	26.82
	810	1910.00	26.98
GSM 1900	512	1850.20	30.55
	661	1880.00	30.72
	810	1910.00	30.92

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



Test Mode	CH	Frequency (MHz)	AVG Power (dBm)
WCDMA (BAND II)	9262	1852.40	24.11
	9400	1880.00	24.32
	9538	1907.60	24.61
WCDMA (BAND V)	4132	826.40	24.78
	4182	836.40	23.91
	4233	846.60	24.12

Test Mode	CH	Frequency (MHz)	AVG Power (dBm)
WCDMA / HSDPA (BAND II)	9262	1852.40	22.12
	9400	1880.00	22.24
	9538	1907.60	22.51
WCDMA / HSDPA (BAND V)	4132	826.40	22.72
	4182	836.40	22.63
	4233	846.60	22.58

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

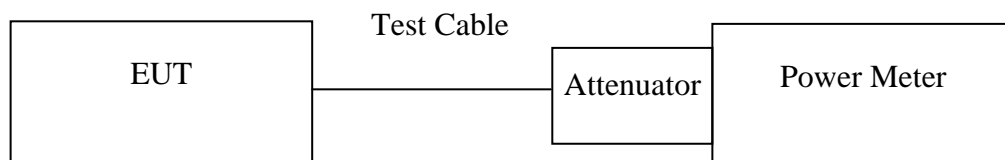


7.2 AVERAGE POWER

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 RESULTS

No non-compliance noted.

Test Data

Test Mode	CH	Frequency (MHz)	AVG Power (dBm)
GPRS 850 (Class 12)	128	824.20	32.92
	190	836.40	32.62
	251	848.80	32.52
EDGE 850 (Class 12)	128	824.20	27.76
	190	836.40	27.46
	251	848.80	27.35
GSM 850	128	824.20	32.82
	190	836.40	32.51
	251	848.80	32.41

Test Mode	CH	Frequency (MHz)	AVG Power (dBm)
GPRS 1900 (Class 12)	512	1850.20	28.81
	661	1880.00	29.11
	810	1910.00	29.22
EDGE 1900 (Class 12)	512	1850.20	26.02
	661	1880.00	26.31
	810	1910.00	26.42
GSM 1900	512	1850.20	30.42
	661	1880.00	30.62
	810	1910.00	30.71

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



Test Mode	CH	Frequency (MHz)	AVG Power (dBm)
WCDMA (BAND II)	9262	1852.40	23.94
	9400	1880.00	23.96
	9538	1907.60	24.16
WCDMA (BAND V)	4132	826.40	24.53
	4182	836.40	23.57
	4233	846.60	23.96

Test Mode	CH	Frequency (MHz)	AVG Power (dBm)
WCDMA / HSDPA (BAND II)	9262	1852.40	22.04
	9400	1880.00	22.09
	9538	1907.60	22.30
WCDMA / HSDPA (BAND V)	4132	826.40	22.49
	4182	836.40	22.47
	4233	846.60	22.43

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

7.1 ERP & EIRP MEASUREMENT

LIMIT

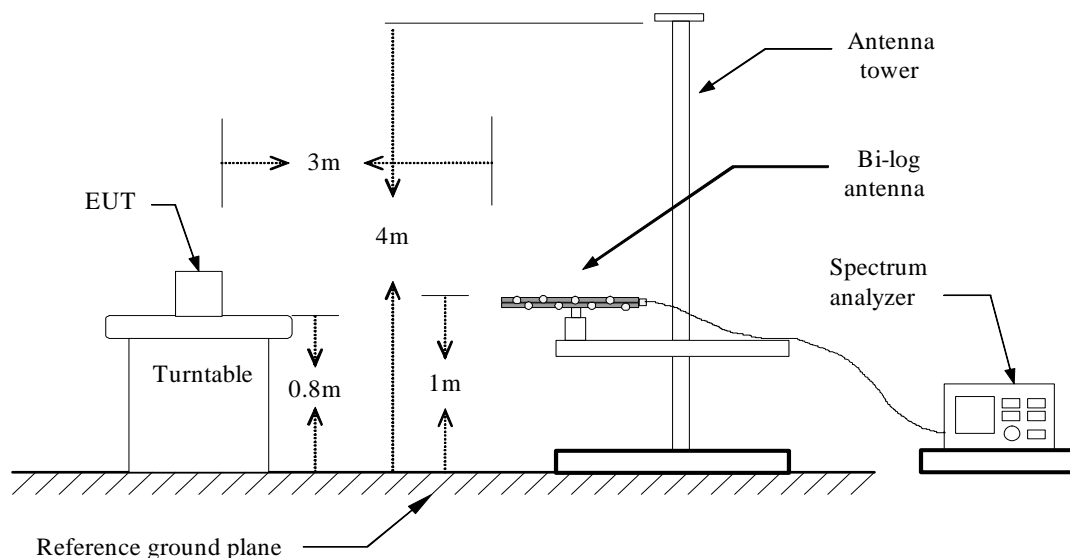
According to FCC §2.1046

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

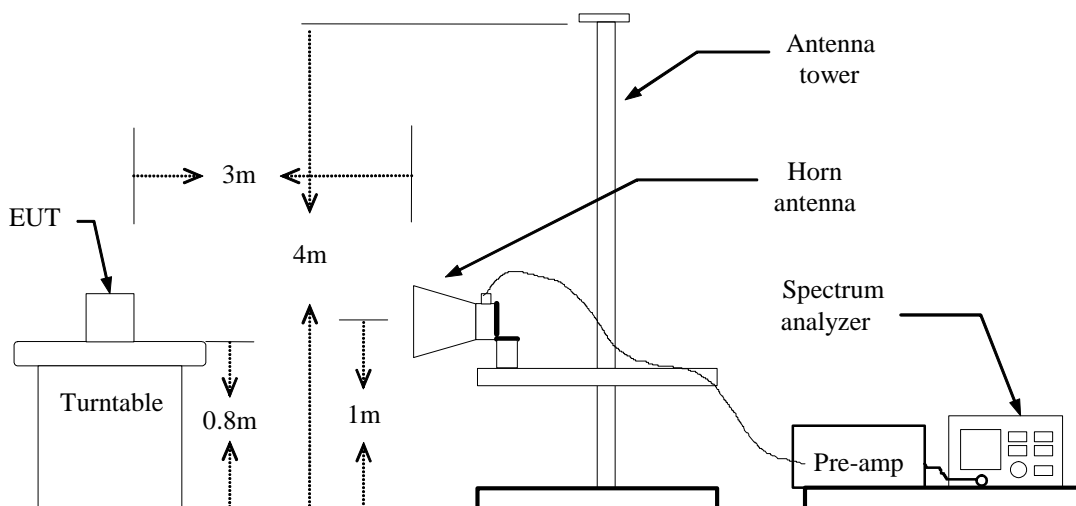
FCC 24.232(b): The equivalent Isotropic Radiated Power (EIRP) must not exceed 2 Watts.

Test Configuration

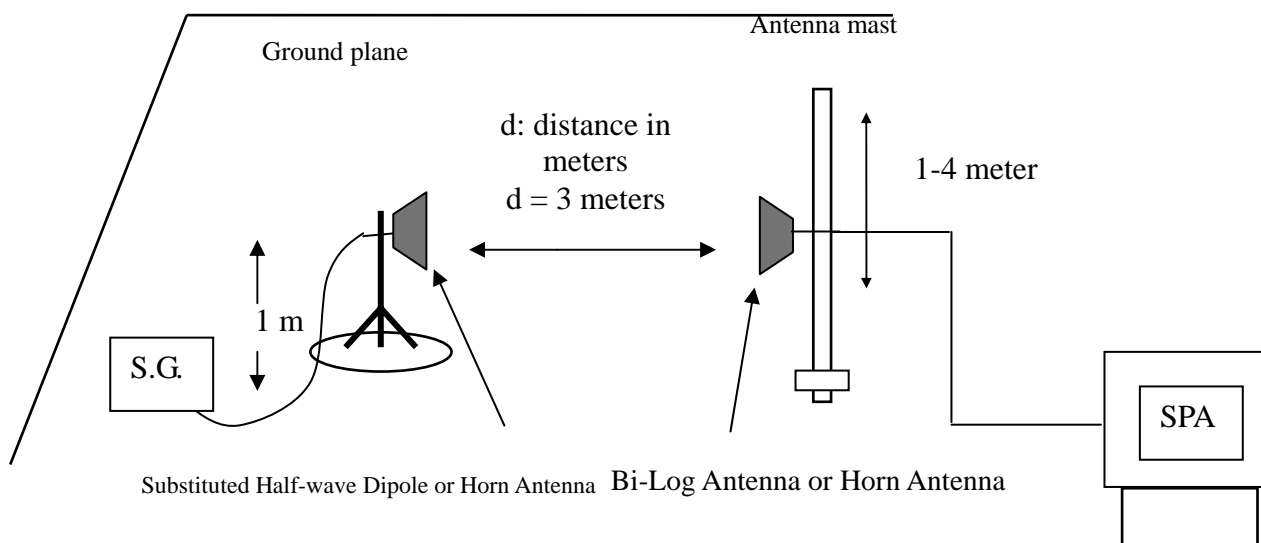
Below 1 GHz



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:

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

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

TEST RESULTS

No non-compliance noted.

**GSM 850 TEST DATA**

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
128	824.20	V	-13.55	34.62	21.07	38.50	-17.43
	824.20	H	-10.62	34.65	24.03	38.50	-14.47
190	836.40	V	-12.87	34.52	21.65	38.50	-16.85
	836.40	H	-9.01	34.63	25.62	38.50	-12.88
251	848.80	V	-10.12	34.64	24.52	38.50	-13.98
	848.80	H	-7.33	34.75	*27.42	38.50	-11.08

GSM 1900 TEST DATA

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
512	1850.20	V	-11.22	41.17	*29.95	33.00	-3.05
	1850.20	H	-19.08	40.79	21.71	33.00	-11.29
661	1880.00	V	-12.02	41.23	29.21	33.00	-3.79
	1880.00	H	-19.21	41.14	21.93	33.00	-11.07
810	1909.80	V	-14.31	41.30	26.99	33.00	-6.01
	1909.80	H	-20.93	41.38	20.45	33.00	-12.55

GPRS 850 TEST DATA

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
128	824.20	V	-13.72	34.62	20.90	38.50	-17.60
	824.20	H	-10.58	34.65	24.06	38.50	-14.44
190	836.40	V	-12.14	34.52	22.38	38.50	-16.12
	836.40	H	-8.95	34.63	25.68	38.50	-12.82
251	848.80	V	-10.34	34.64	24.30	38.50	-14.20
	848.80	H	-7.64	34.75	*27.11	38.50	-11.39

GPRS 1900 TEST DATA

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
512	1850.20	V	-11.42	41.17	*29.75	33.00	-3.25
	1850.20	H	-19.19	40.79	21.60	33.00	-11.40
661	1880.00	V	-12.10	41.23	29.13	33.00	-3.87
	1880.00	H	-19.13	41.14	22.01	33.00	-10.99
810	1909.80	V	-14.13	41.30	27.18	33.00	-5.82
	1909.80	H	-20.90	41.38	20.47	33.00	-12.53

**EDGE 850 Test Data**

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
128	824.20	V	-16.61	34.62	18.01	38.50	-20.49
	824.20	H	-12.47	34.65	22.17	38.50	-16.33
190	836.40	V	-13.86	34.53	20.67	38.50	-17.83
	836.40	H	-10.52	34.63	24.12	38.50	-14.38
251	848.80	V	-11.88	34.63	22.76	38.50	-15.74
	848.80	H	-9.45	34.75	*25.30	38.50	-13.20

EDGE 1900 Test Data

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
512	1850.20	V	-11.97	41.17	*29.20	33.00	-3.80
	1850.20	H	-19.55	40.79	21.24	33.00	-11.76
661	1880.00	V	-12.77	41.23	28.46	33.00	-4.54
	1880.00	H	-19.61	41.14	21.54	33.00	-11.46
810	1909.80	V	-14.53	41.30	26.77	33.00	-6.23
	1909.80	H	-21.63	41.38	19.74	33.00	-13.26

**WCDMA Test Data (BAND II)**

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
9262	1852.40	V	-14.74	41.18	*26.44	33.00	-6.56
	1852.40	H	-22.95	40.83	17.89	33.00	-15.11
9400	1880.00	V	-15.19	41.23	26.04	33.00	-6.96
	1880.00	H	-22.79	41.13	18.34	33.00	-14.66
9538	1907.60	V	-17.13	41.29	24.16	33.00	-8.84
	1907.60	H	-24.08	41.38	17.29	33.00	-15.71

WCDMA Test Data (BAND V)

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4132	826.40	V	-19.68	34.59	14.91	38.45	-23.59
	826.40	H	-15.78	34.64	18.87	38.45	-19.63
4182	836.40	V	-17.36	34.54	17.18	38.45	-21.32
	836.40	H	-13.96	34.63	20.67	38.45	-17.83
4233	846.60	V	-17.08	34.58	17.50	38.45	-21.00
	846.60	H	-13.80	34.70	*20.90	38.45	-17.60

WCDMA / HSDPA BAND II Test Data

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
9262	1852.40	V	-14.20	41.18	*26.97	33.00	-6.03
	1852.40	H	-22.96	40.83	17.87	33.00	-15.13
9400	1880.00	V	-14.89	41.23	26.34	33.00	-6.66
	1880.00	H	-22.56	41.13	18.57	33.00	-14.43
9538	1907.60	V	-16.06	41.29	25.23	33.00	-7.77
	1907.60	H	-23.48	41.38	17.90	33.00	-15.10

WCDMA / HSDPA BAND V Test Data

Channel	Frequency (MHz)	Antenna Pol.	Reading level (dBuV)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4132	826.40	V	-19.36	34.59	15.23	38.45	-23.27
	826.40	H	-15.45	34.64	19.19	38.45	-19.31
4182	836.40	V	-16.78	34.54	17.76	38.45	-20.74
	836.40	H	-13.72	34.63	20.92	38.45	-17.58
4233	846.60	V	-16.75	34.58	17.84	38.45	-20.66
	846.60	H	-13.65	34.70	*21.05	38.45	-17.45

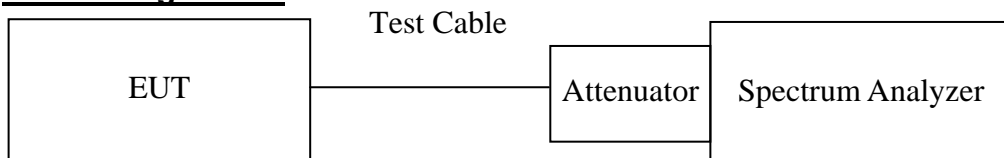


7.2 OCCUPIED BANDWIDTH MEASUREMENT

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)
GPRS 850	128	824.20	246.5266
	190	836.40	247.3019
	251	848.80	237.3265
EDGE 850	128	824.20	244.3521
	190	836.40	249.7692
	251	848.80	245.4011
GSM 850	128	824.20	246.5225
	190	836.40	247.7024
	251	848.80	237.2237

Test Mode	CH	Frequency (MHz)	99% Bandwidth (kHz)
GPRS 1900	512	1850.20	244.3773
	661	1880.00	243.8693
	810	1909.80	245.8310
EDGE 1900	512	1850.20	244.1619
	661	1880.00	246.3146
	810	1909.80	246.4034
GSM 1900	512	1850.20	244.1644
	661	1880.00	246.2442
	810	1909.80	246.2046

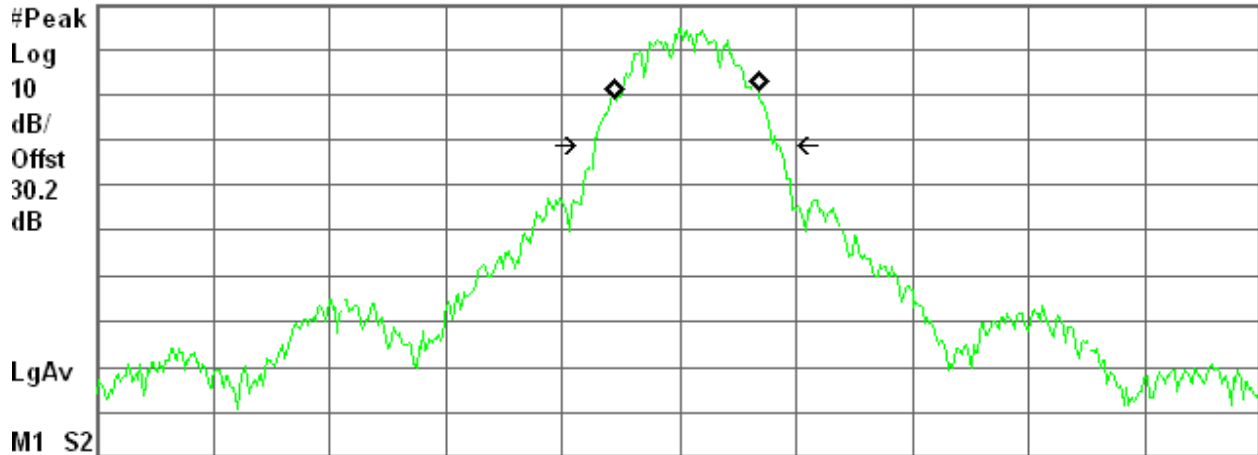


Test Mode	CH	Frequency (MHz)	99% Bandwidth (MHz)
WCDMA (Band II)	9262	1852.40	4.1779
	9400	1880.00	4.1786
	9538	1907.60	4.1680
WCDMA (Band V)	4132	826.40	4.1647
	4182	836.40	4.1745
	4233	846.60	4.1772
WCDMA / HSDPA (BAND II)	9262	1852.40	4.1900
	9400	1880.00	4.1899
	9538	1907.60	4.1659
WCDMA / HSDPA (BAND V)	4132	826.40	4.1911
	4182	836.40	4.2002
	4233	846.60	4.1968

**Test Plot****GSM 850 (CH Low)**

Ref 30.23 dBm

#Atten 20 dB



Center 824.187 MHz

Span 2 MHz

#Res BW 3 kHz

#VBW 10 kHz

Sweep 210.9 ms (601 pts)

Occupied Bandwidth
246.5225 kHz

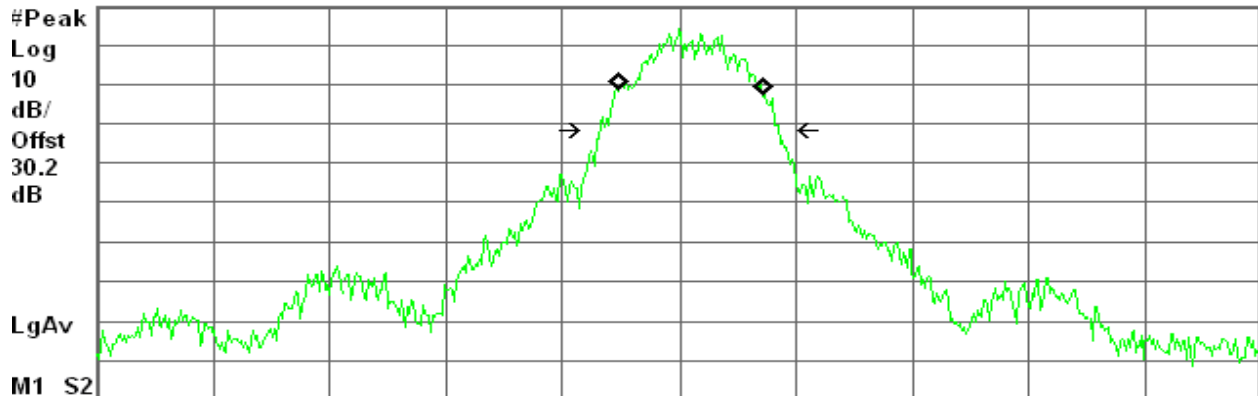
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 12.448 kHz
x dB Bandwidth 315.305 kHz

GSM 850 (CH Mid)

Ref 30.23 dBm

#Atten 20 dB



Center 836.580 MHz

Span 2 MHz

#Res BW 3 kHz

#VBW 10 kHz

Sweep 210.9 ms (601 pts)

Occupied Bandwidth
247.7024 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 19.430 kHz
x dB Bandwidth 305.680 kHz



GSM 850(CH High)

Ref 30.23 dBm

#Atten 20 dB

#Peak

Log

10

dB/

Offst

30.2

dB

LgAv

M1 S2

Center 848.780 MHz

Span 2 MHz

#Res BW 3 kHz

#VBW 10 kHz

Sweep 210.9 ms (601 pts)

Occupied Bandwidth

237.2237 kHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

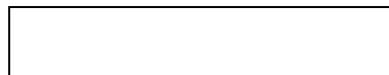
Transmit Freq Error

20.937 kHz

x dB Bandwidth

313.657 kHz

GPRS 850 (CH Low)



R T

Ref 30.23 dBm

#Atten 20 dB

#Peak

Log

10

dB/

Offst

30.2

dB

LgAv

M1 S2

Center 824.187 MHz

Span 2 MHz

#Res BW 3 kHz

#VBW 10 kHz

Sweep 210.9 ms (601 pts)

Occupied Bandwidth

246.5266 kHz

Occ BW % Pwr 99.00 %

x dB -26.00 dB

Transmit Freq Error

12.448 kHz

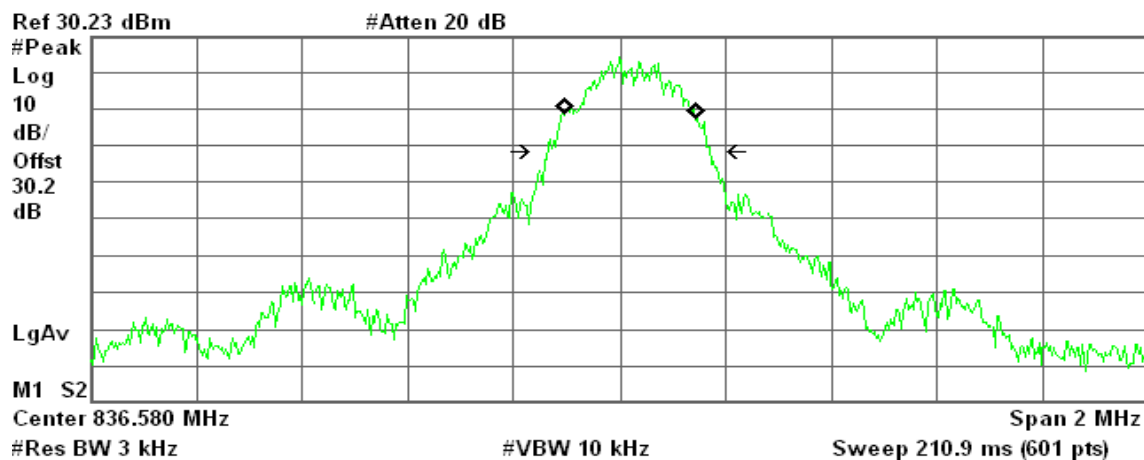
x dB Bandwidth

315.305 kHz



GPRS 850 (CH Mid)

R T



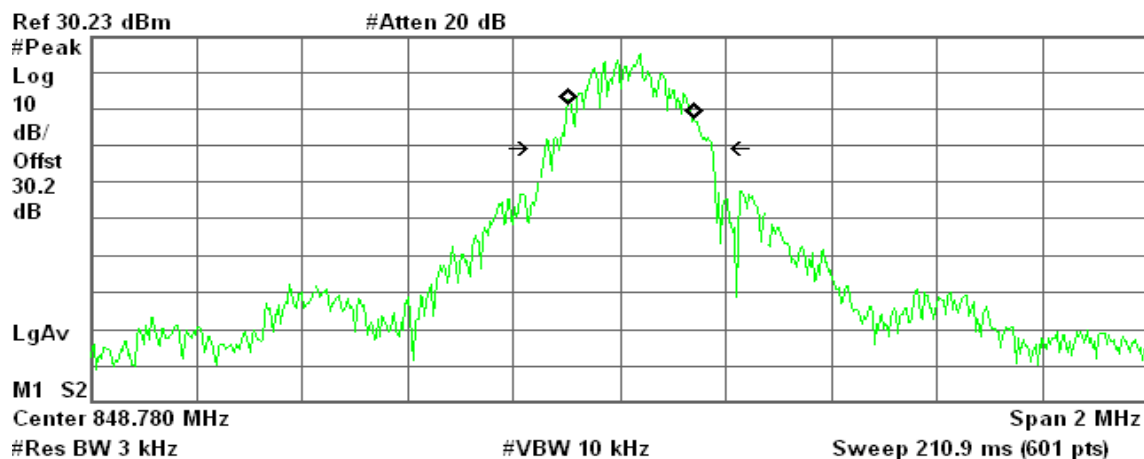
Occupied Bandwidth
247.3019 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 19.430 kHz
x dB Bandwidth 305.680 kHz

GPRS 850(CH High)

R T



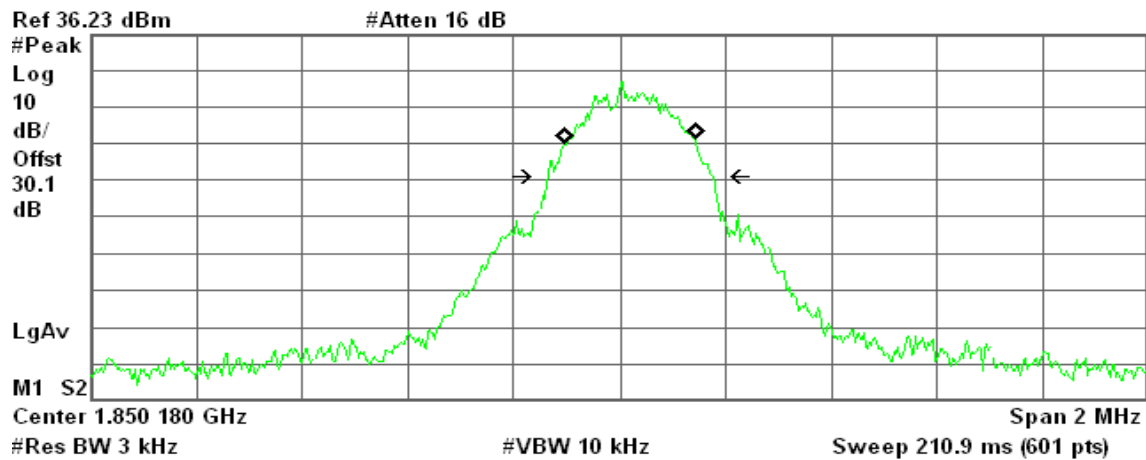
Occupied Bandwidth
237.3265 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 20.937 kHz
x dB Bandwidth 313.657 kHz

**GPRS 1900 (CH Low)**

R T



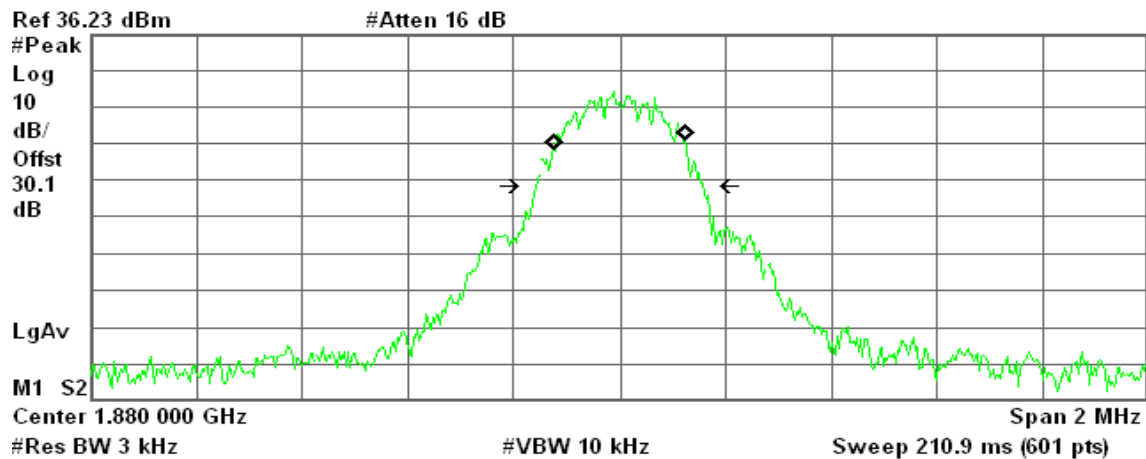
Occupied Bandwidth
244.3773 kHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 19.920 kHz
x dB Bandwidth 313.594 kHz

GPRS 1900 (CH Mid)

R T



Occupied Bandwidth
243.8693 kHz

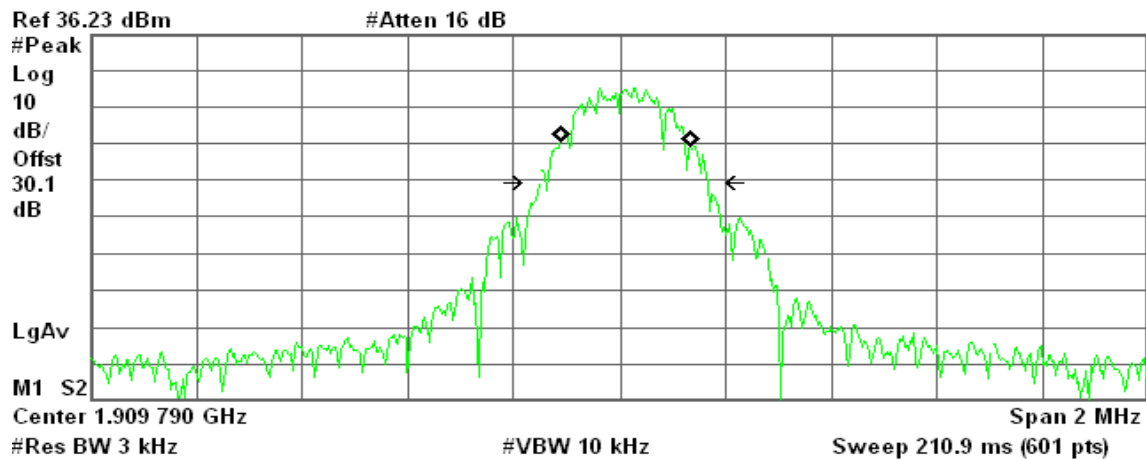
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error 440.390 Hz
x dB Bandwidth 315.024 kHz



GPRS 1900 (CH High)

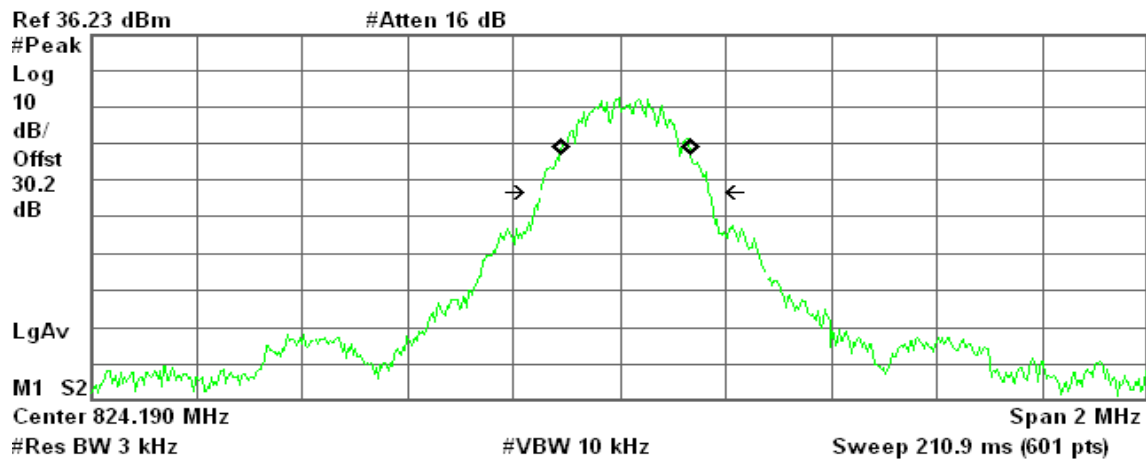
R T



Transmit Freq Error 11.483 kHz
x dB Bandwidth 316.752 kHz

EDGE 850 (CH Low)

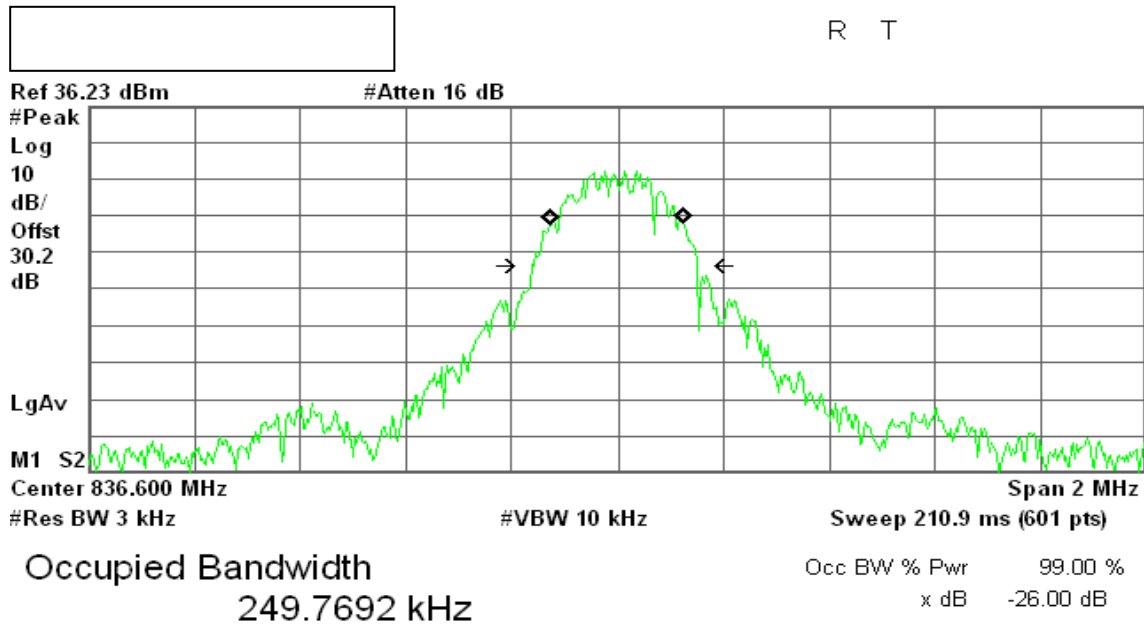
R T



Transmit Freq Error 11.027 kHz
x dB Bandwidth 315.413 kHz

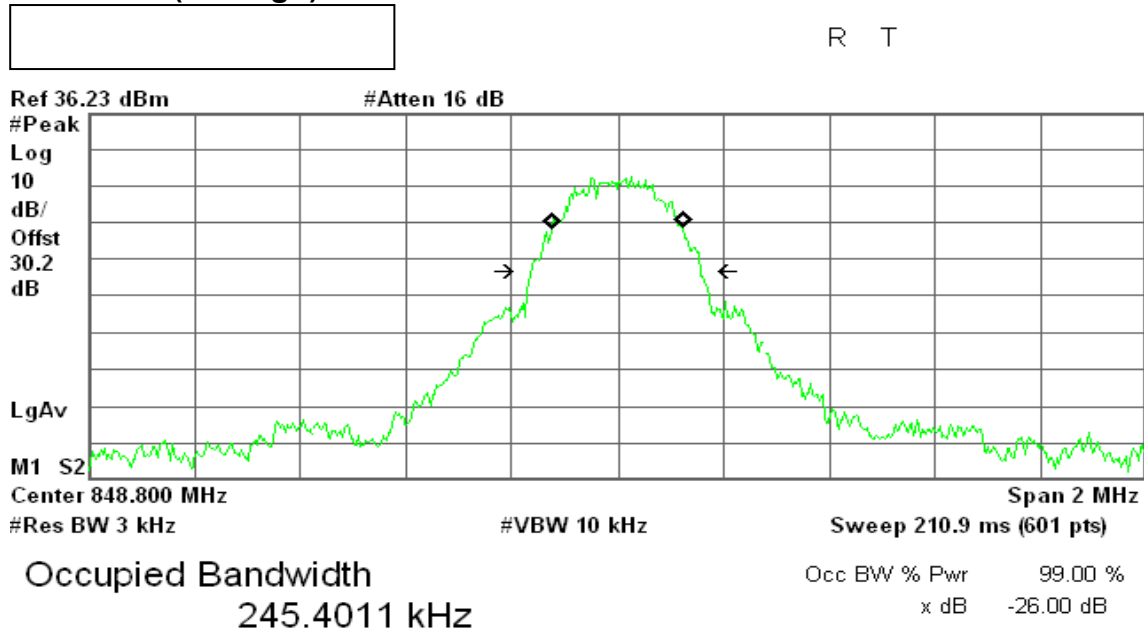


EDGE 850 (CH Mid)



Transmit Freq Error -1.139 kHz
x dB Bandwidth 310.023 kHz

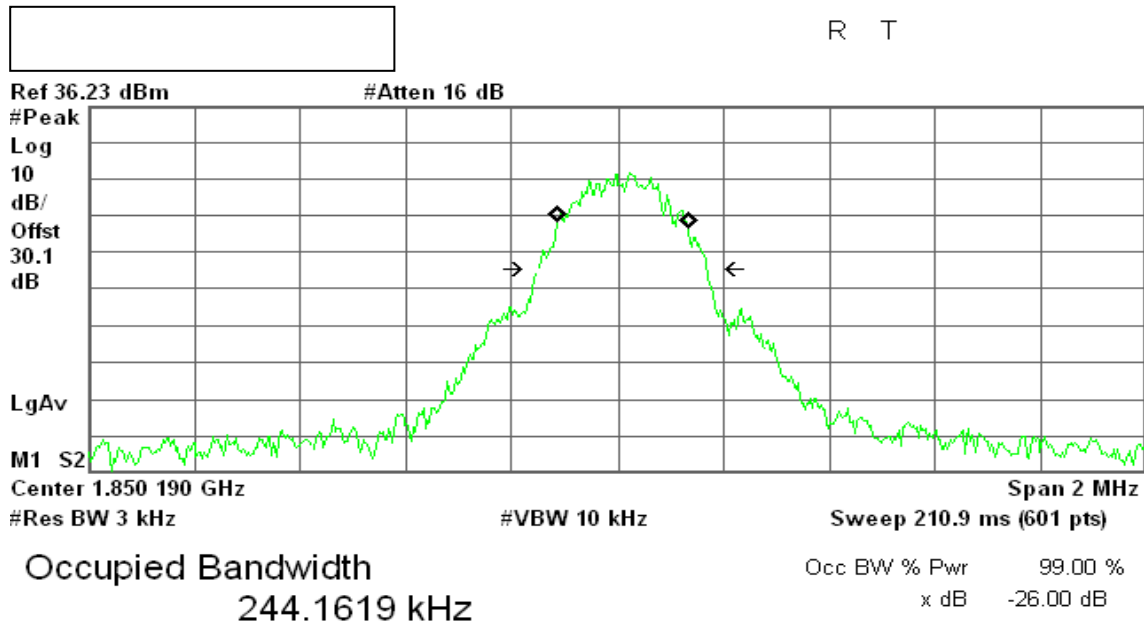
EDGE 850 (CH High)



Transmit Freq Error -296.280 Hz
x dB Bandwidth 318.240 kHz

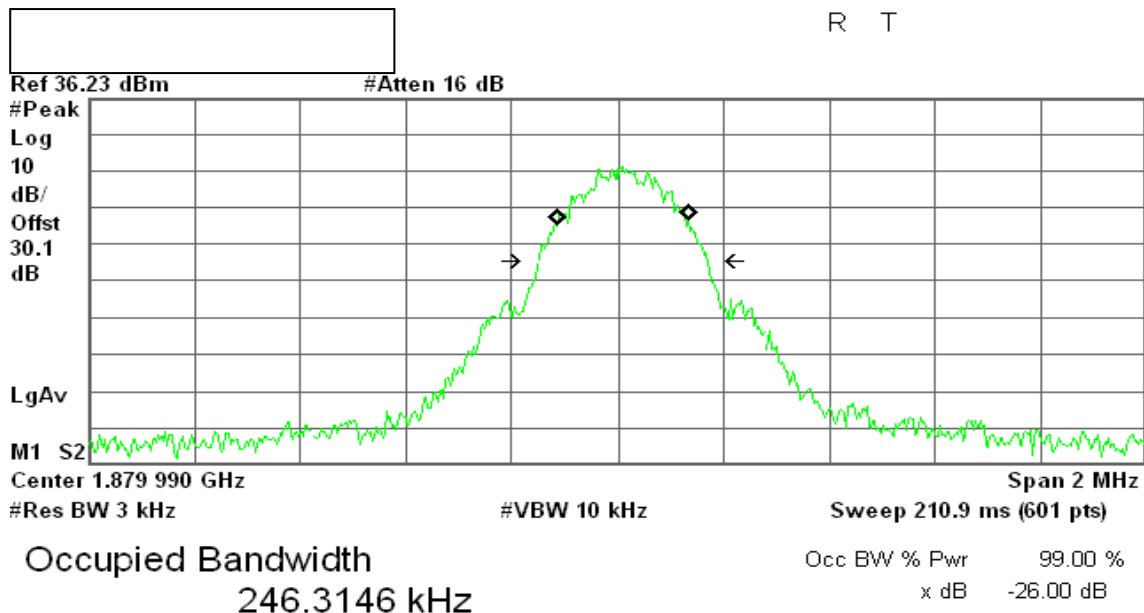


EDGE 1900 (CH Low)



Transmit Freq Error 10.341 kHz
x dB Bandwidth 315.626 kHz

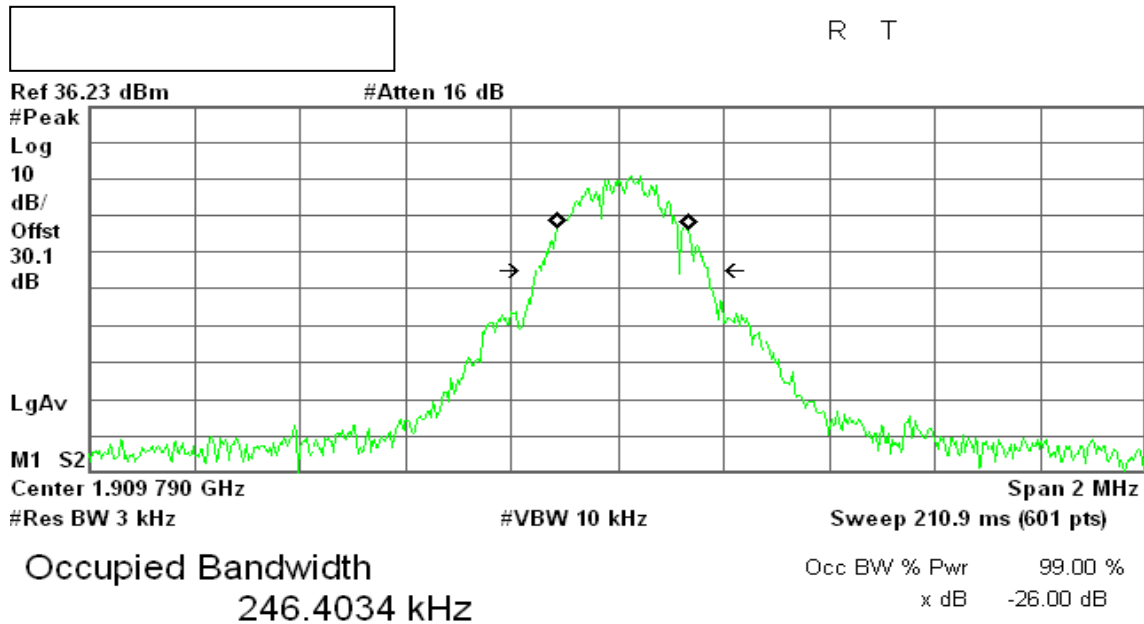
EDGE 1900 (CH Mid)



Transmit Freq Error 9.943 kHz
x dB Bandwidth 318.011 kHz

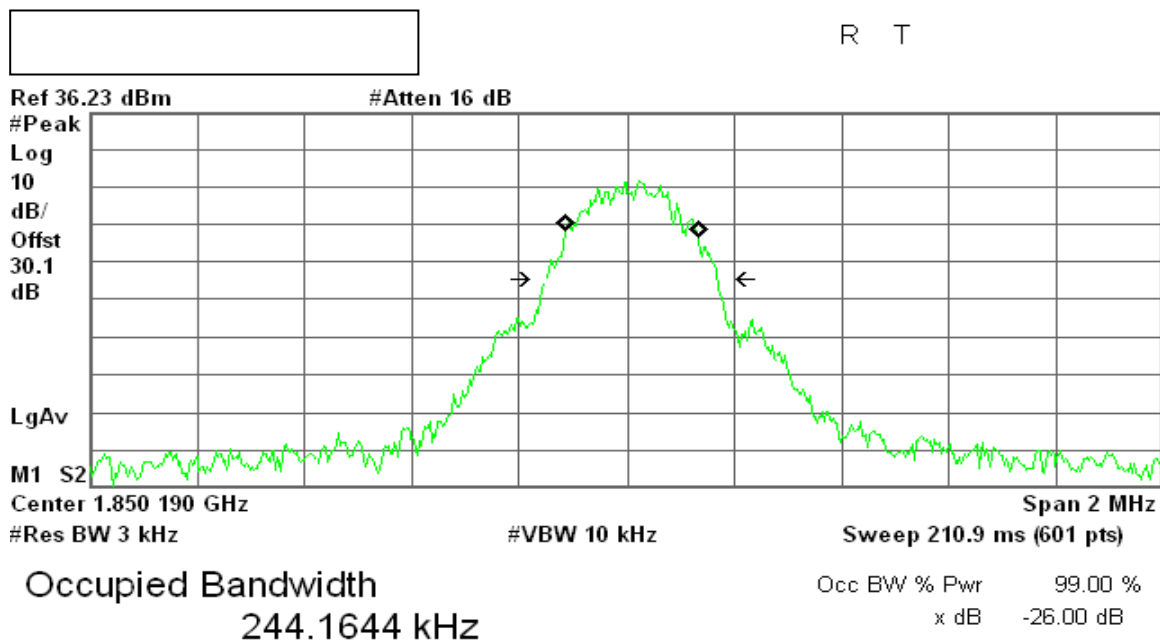


EDGE 1900 (CH High)



Transmit Freq Error 9.472 kHz
x dB Bandwidth 322.803 kHz

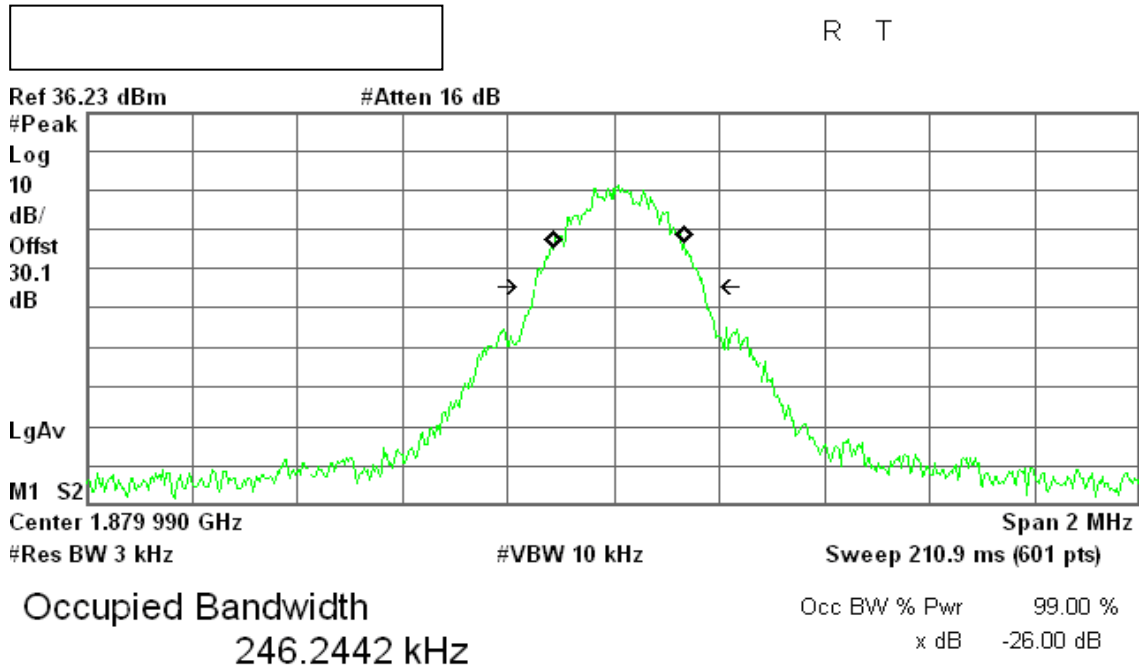
GSM 1900 (CH Low)



Transmit Freq Error 10.341 kHz
x dB Bandwidth 315.626 kHz

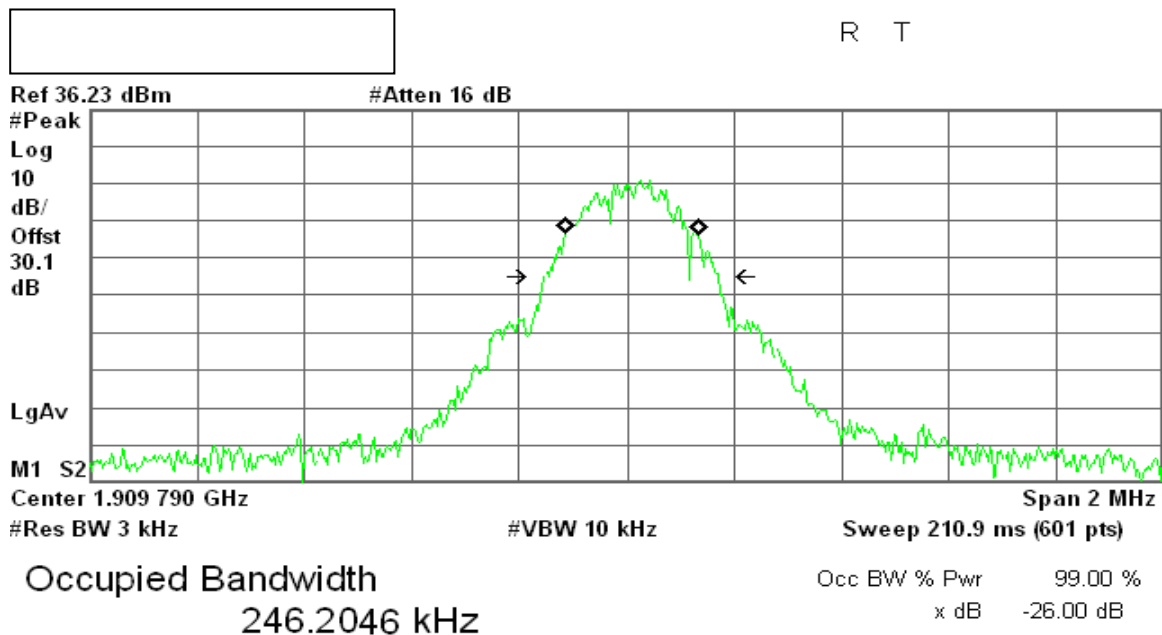


GSM 1900 (CH Mid)



Transmit Freq Error 9.943 kHz
x dB Bandwidth 318.011 kHz

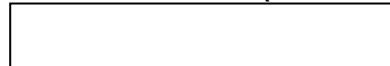
GSM 1900 (CH High)



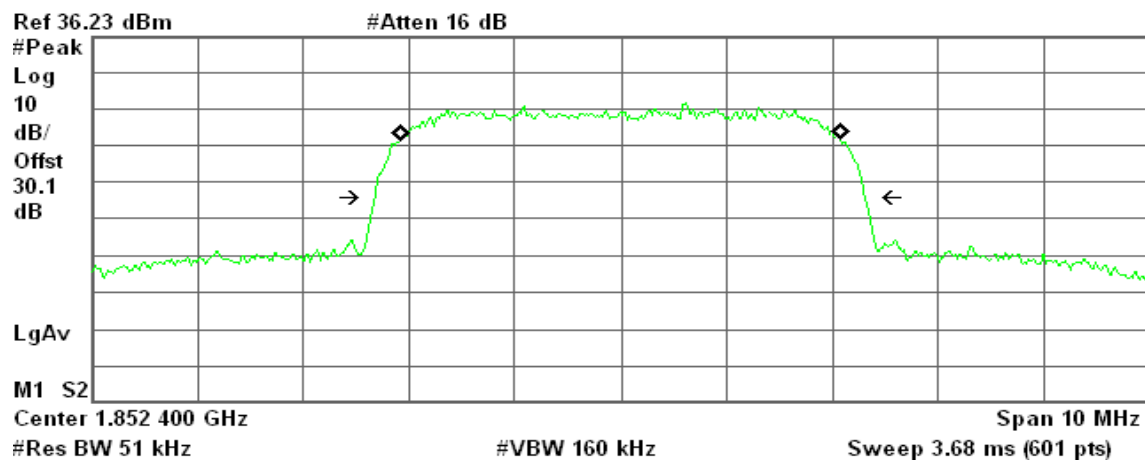
Transmit Freq Error 9.472 kHz
x dB Bandwidth 322.803 kHz



WCDMA Band II (CH Low)



R T

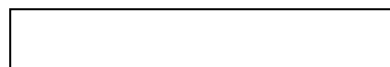


Occupied Bandwidth
4.1779 MHz

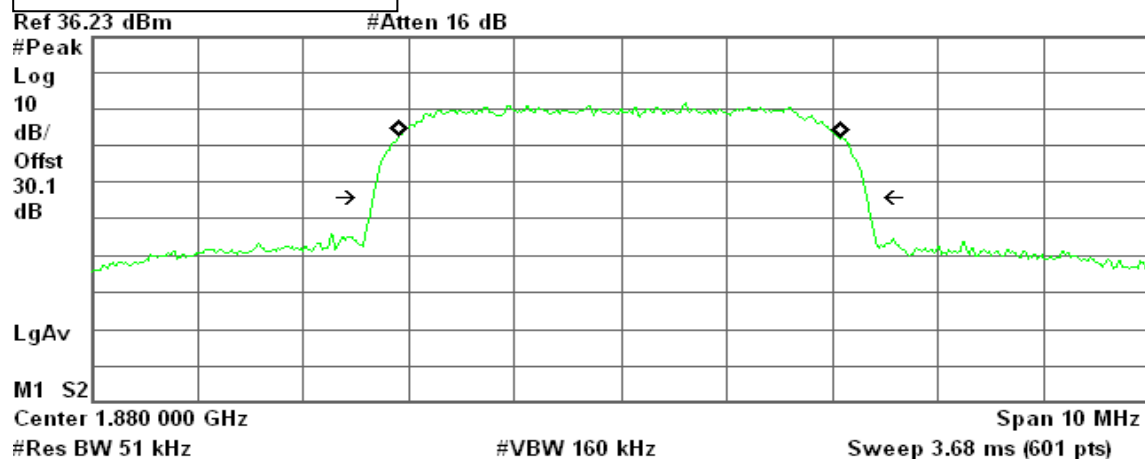
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -1.566 kHz
x dB Bandwidth 4.640 MHz

WCDMA Band II (CH Mid)



R T



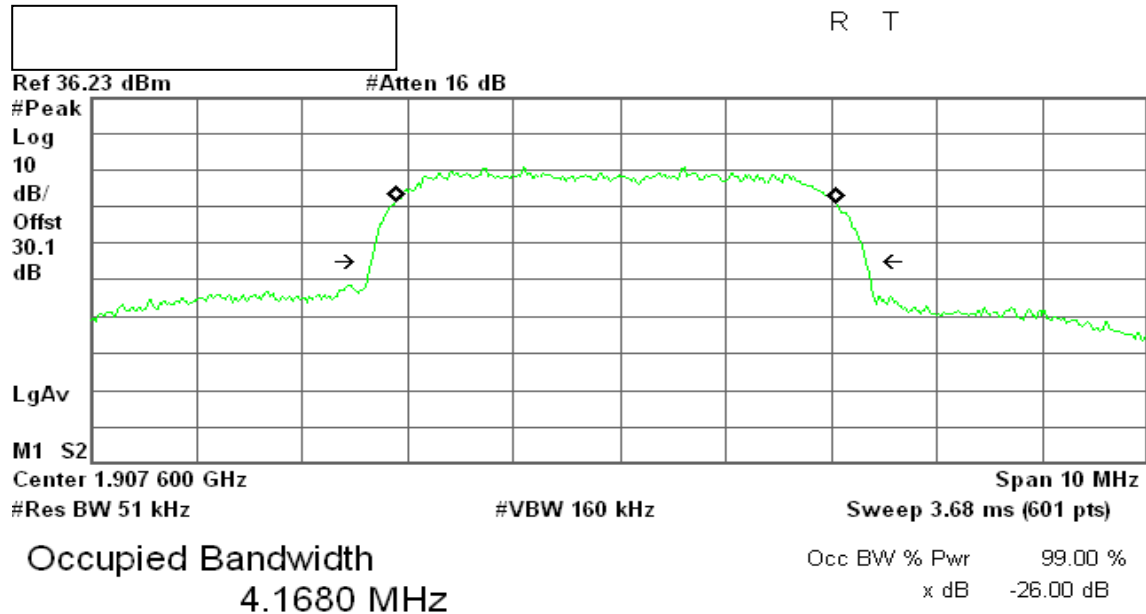
Occupied Bandwidth
4.1786 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

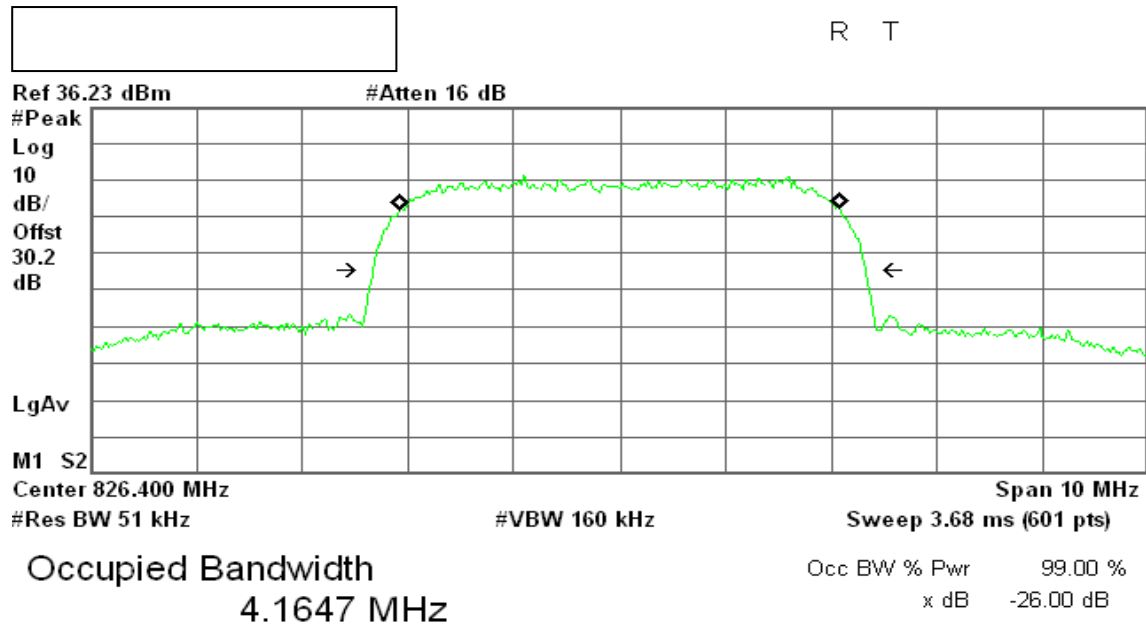
Transmit Freq Error -5.351 kHz
x dB Bandwidth 4.680 MHz



WCDMA Band II (CH High)



WCDMA Band V (CH Low)

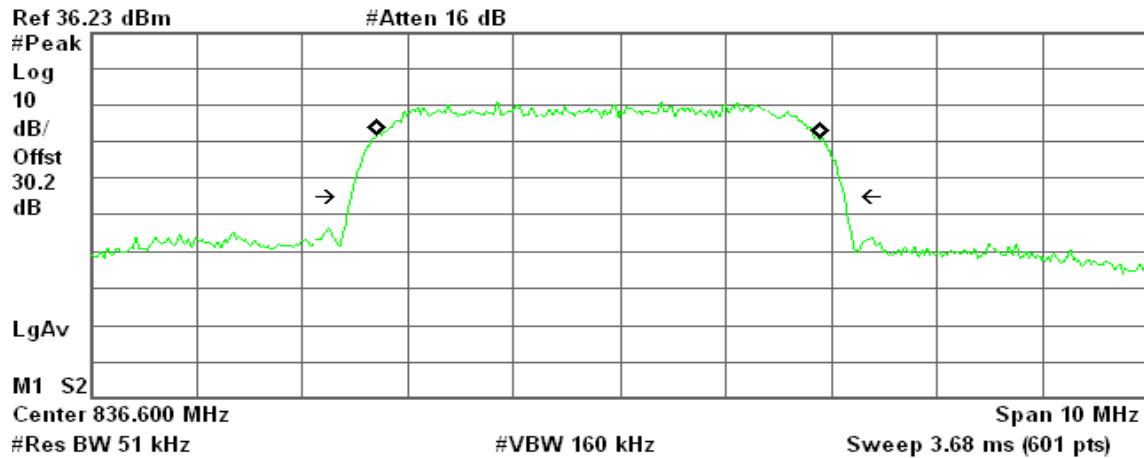




WCDMA Band V (CH Mid)



R T



Occupied Bandwidth
4.1745 MHz

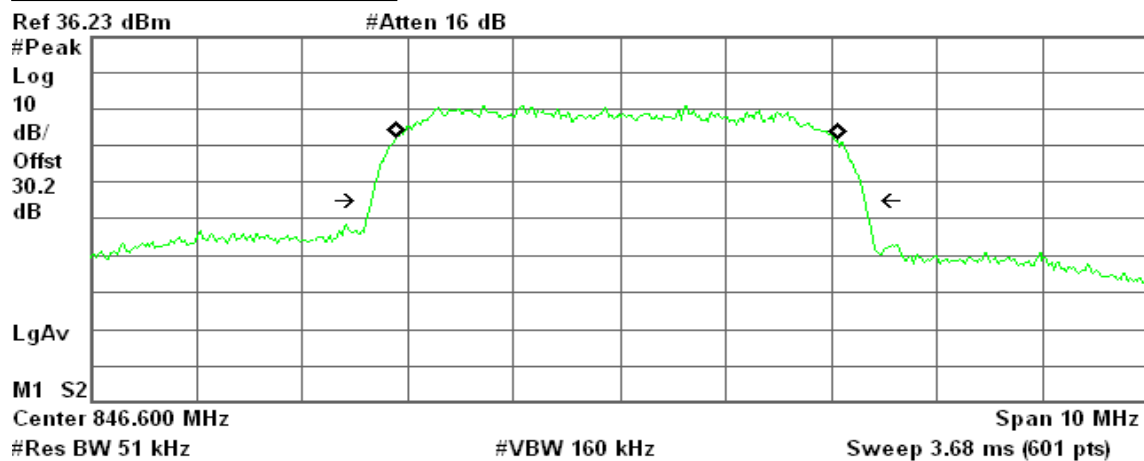
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -208.798 kHz
x dB Bandwidth 4.669 MHz

WCDMA Band V (CH High)



R T



Occupied Bandwidth
4.1772 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

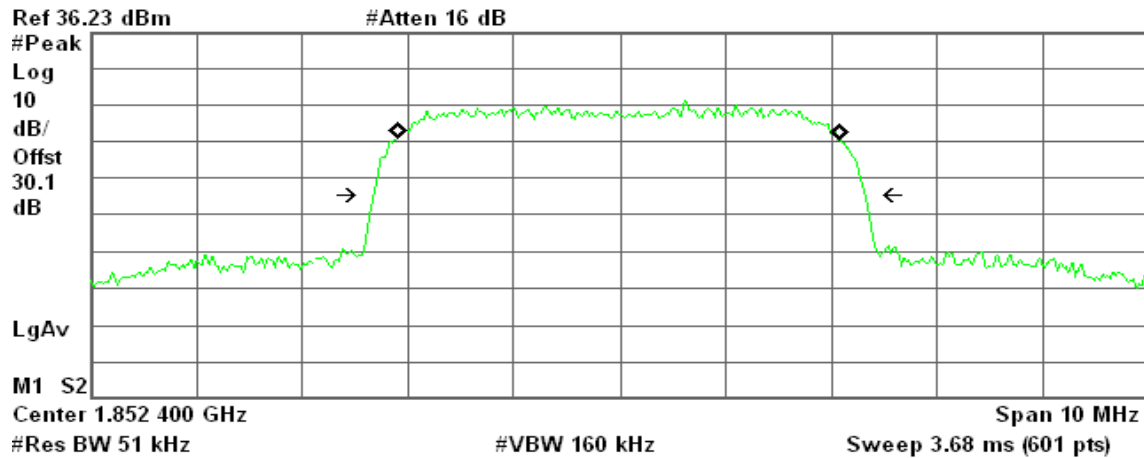
Transmit Freq Error -24.444 kHz
x dB Bandwidth 4.671 MHz



WCDMA / HSDPA Band II (CH Low)



R T



Occupied Bandwidth
4.1900 MHz

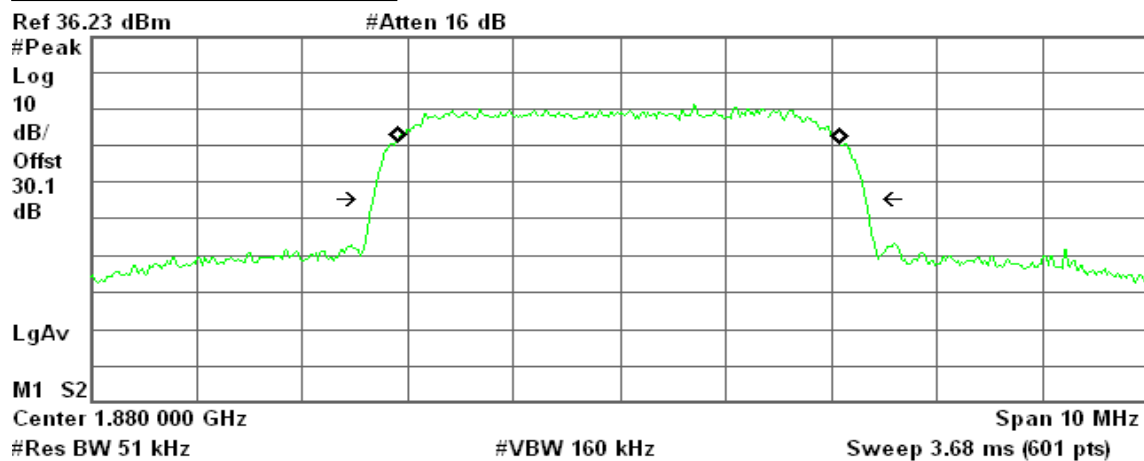
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -11.986 kHz
x dB Bandwidth 4.659 MHz

WCDMA / HSDPA Band II (CH Mid)



R T



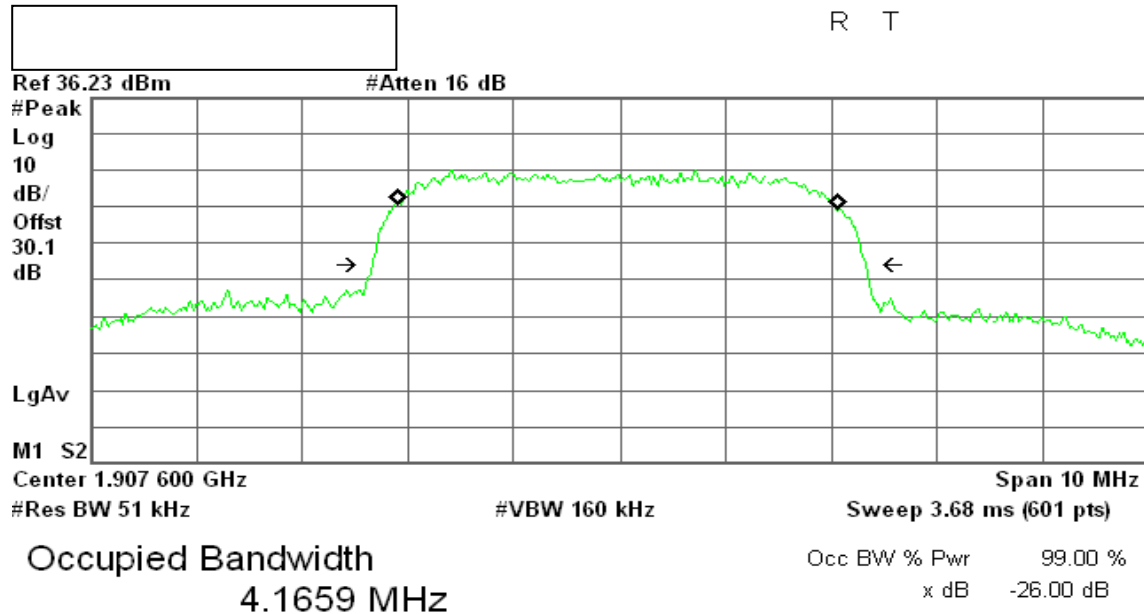
Occupied Bandwidth
4.1899 MHz

Occ BW % Pwr 99.00 %
x dB -26.00 dB

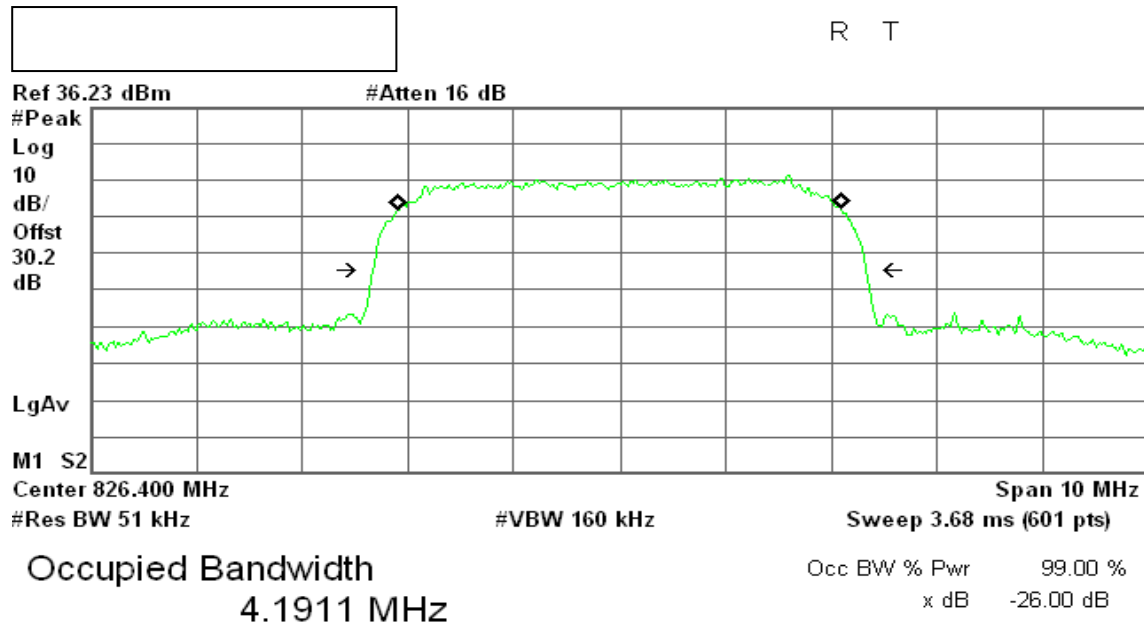
Transmit Freq Error -9.402 kHz
x dB Bandwidth 4.665 MHz



WCDMA / HSDPA Band II (CH High)

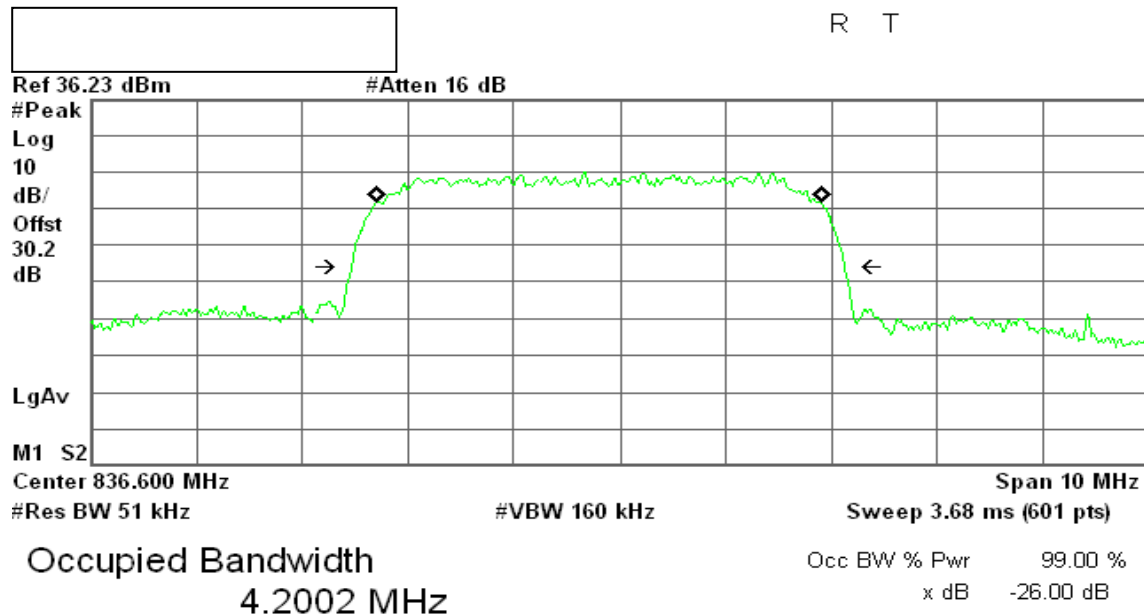


WCDMA / HSDPA Band V (CH Low)



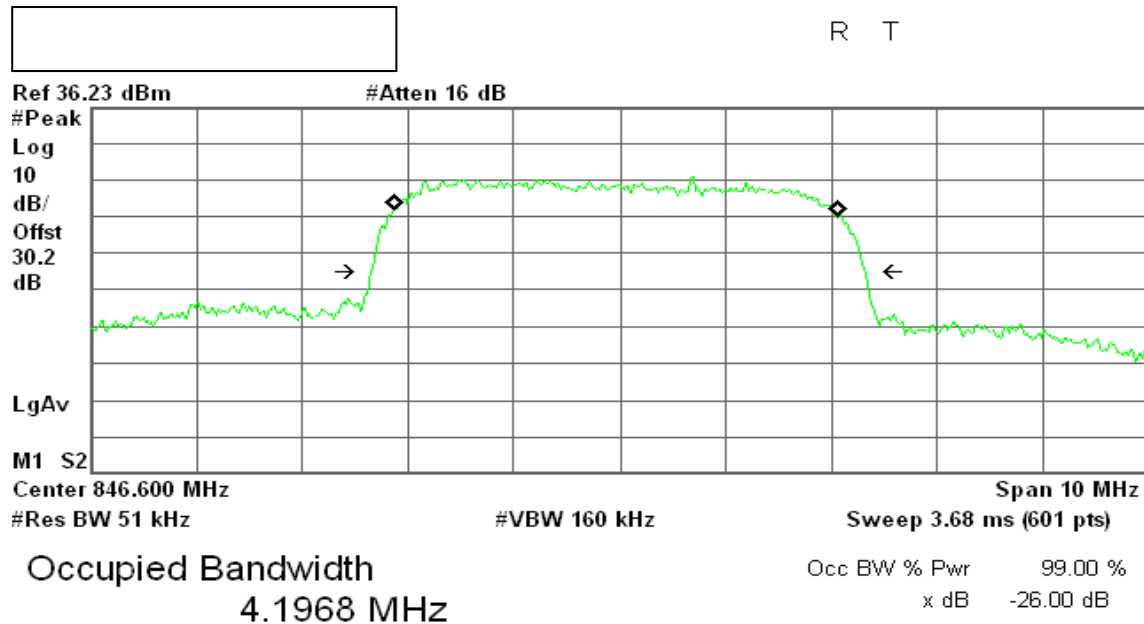


WCDMA / HSDPA Band V (CH Mid)



Transmit Freq Error -202.181 kHz
x dB Bandwidth 4.666 MHz

WCDMA / HSDPA Band V (CH High)



Transmit Freq Error -36.135 kHz
x dB Bandwidth 4.683 MHz



7.3 OUT OF BAND EMISSION AT ANTENNA TERMINALS

LIMIT

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

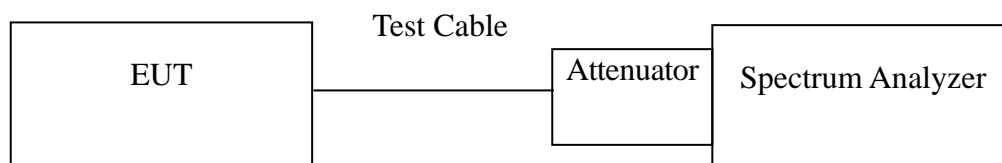
Out of Band Emissions: The mean power of emission must be attenuated below the mean power of the non-modulated carrier (P) on any frequency twice or more than twice the fundamental frequency by at least $43 + 10 \log P$ dB.

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 = -13 dBm

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, -13 dBm.

TEST RESULTS

No non-compliance noted.

**Test Data**

Mode	CH	Location	Description
GSM 850	128	Figure 3-1	Band Edge emissions
	251	Figure 3-2	Band Edge emissions

Mode	CH	Location	Description
GSM 1900	512	Figure 4-1	Band Edge emissions
	810	Figure 4-2	Band Edge emissions

Mode	CH	Location	Description
GSM 850	128	Figure 5-1	Conducted spurious emissions, 30MHz - 20GHz
	190	Figure 5-2	Conducted spurious emissions, 30MHz - 20GHz
	251	Figure 5-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
GSM 1900	512	Figure 6-1	Conducted spurious emissions, 30MHz - 20GHz
	661	Figure 6-2	Conducted spurious emissions, 30MHz - 20GHz
	810	Figure 6-3	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
GPRS 850	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

Mode	CH	Location	Description
GPRS 1900	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

Mode	CH	Location	Description
GPRS 850	128	Figure 9-1	Band Edge emissions
	251	Figure 9-2	Band Edge emissions

Mode	CH	Location	Description
GPRS 1900	512	Figure 10-1	Band Edge emissions
	810	Figure 10-2	Band Edge emissions



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

Mode	CH	Location	Description
WCDMA (Band II)	9262	Figure 13-1	Conducted spurious emissions, 30MHz - 20GHz
	9400	Figure 13-2	Conducted spurious emissions, 30MHz - 20GHz
	9538	Figure 13-3	Conducted spurious emissions, 30MHz - 20GHz
WCDMA (Band V)	4132	Figure 13-4	Conducted spurious emissions, 30MHz - 20GHz
	4182	Figure 13-5	Conducted spurious emissions, 30MHz - 20GHz
	4233	Figure 13-6	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
WCDMA (Band II)	9262	Figure 14-1	Band Edge emissions
	9538	Figure 14-2	Band Edge emissions
WCDMA (Band V)	4132	Figure 14-3	Band Edge emissions
	4233	Figure 14-4	Band Edge emissions



Mode	CH	Location	Description
HSDPA WCDMA (Band II)	9262	Figure 15-1	Conducted spurious emissions, 30MHz - 20GHz
	9400	Figure 15-2	Conducted spurious emissions, 30MHz - 20GHz
	9538	Figure 15-3	Conducted spurious emissions, 30MHz - 20GHz
HSDPA WCDMA (Band V)	4132	Figure 15-4	Conducted spurious emissions, 30MHz - 20GHz
	4182	Figure 15-5	Conducted spurious emissions, 30MHz - 20GHz
	4233	Figure 15-6	Conducted spurious emissions, 30MHz - 20GHz

Mode	CH	Location	Description
HSDPA WCDMA (Band II)	9262	Figure 16-1	Band Edge emissions
	9538	Figure 16-2	Band Edge emissions
HSDPA WCDMA (Band V)	4132	Figure 16-3	Band Edge emissions
	4233	Figure 16-4	Band Edge emissions



Test Plot

GSM 850

Figure 5-1: Out of Band emission at antenna terminals – GSM CH Low

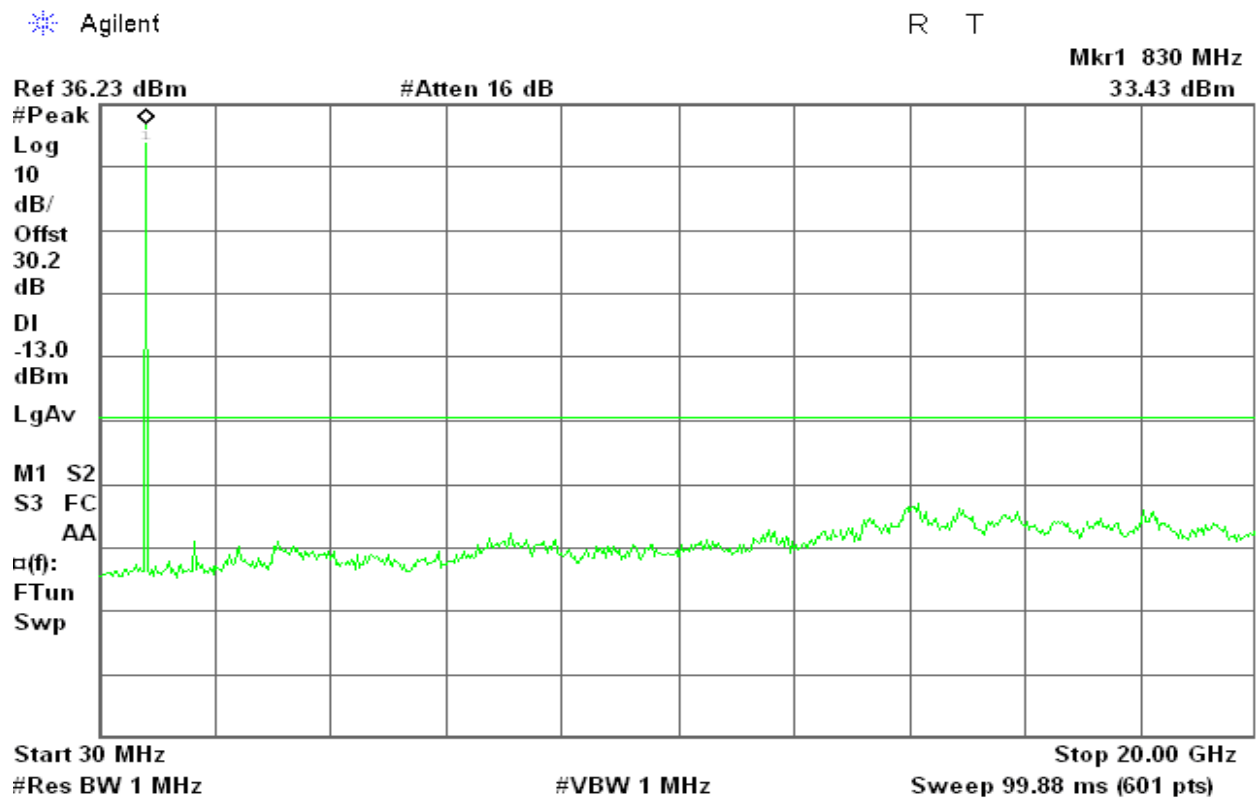


Figure 5-2: Out of Band emission at antenna terminals – GSM CH Mid



Agilent

R T

Mkr1 830 MHz
32.05 dBm

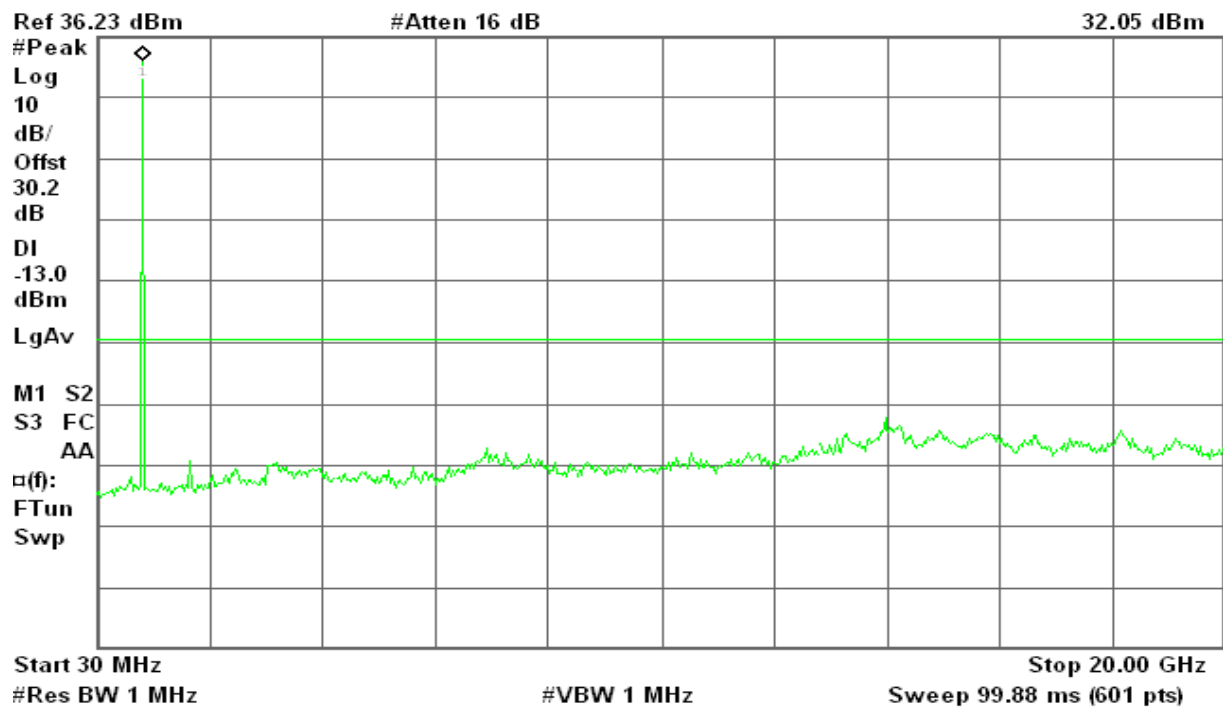
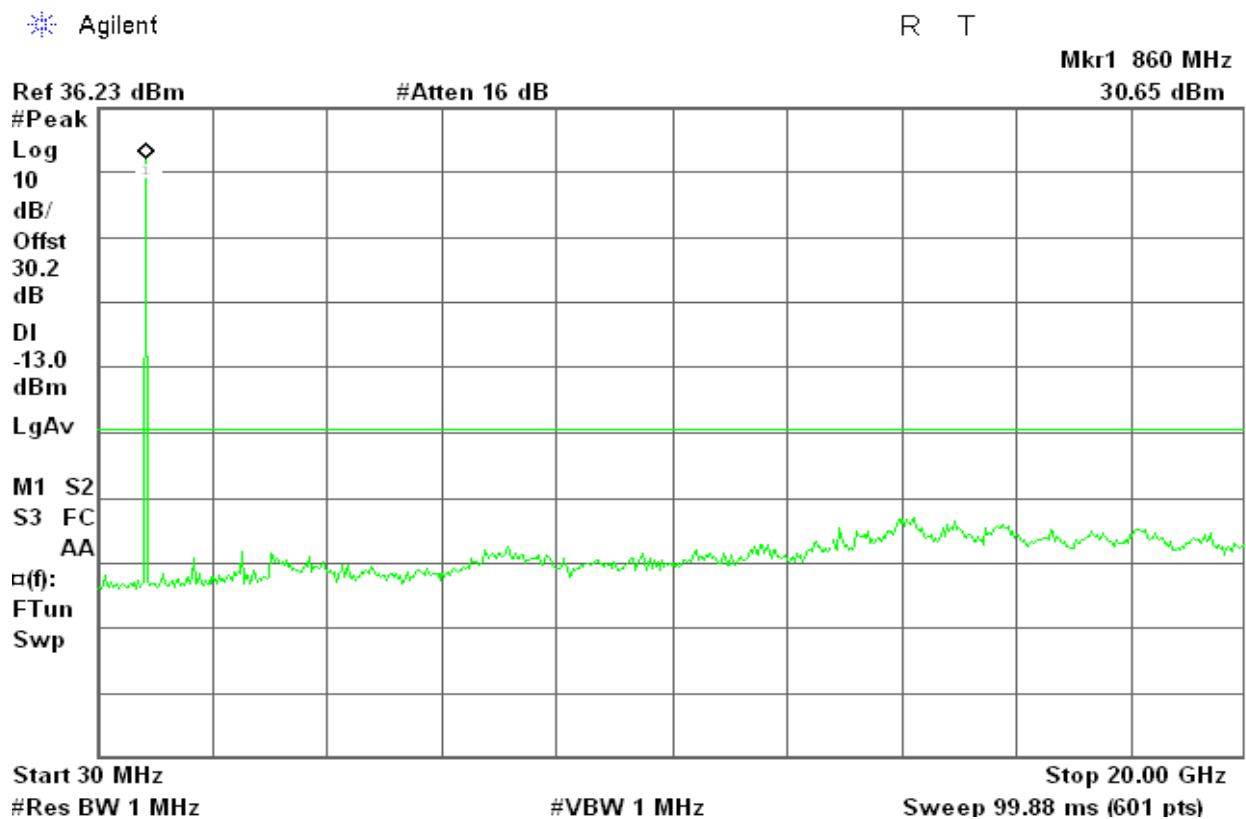




Figure 5-3: Out of Band emission at antenna terminals – GSM CH High





GSM 1900

Figure 6-1: Out of Band emission at antenna terminals – GSM CH Low

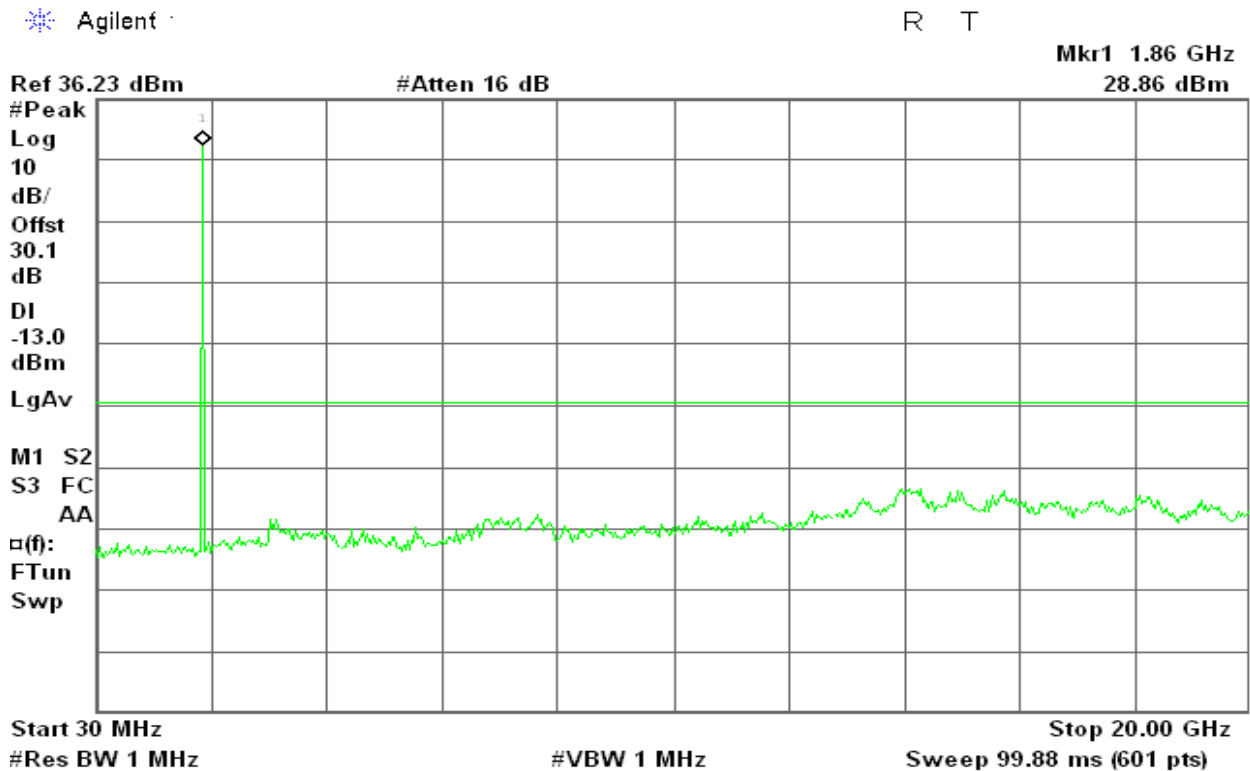


Figure 6-2: Out of Band emission at antenna terminals – GSM CH Mid

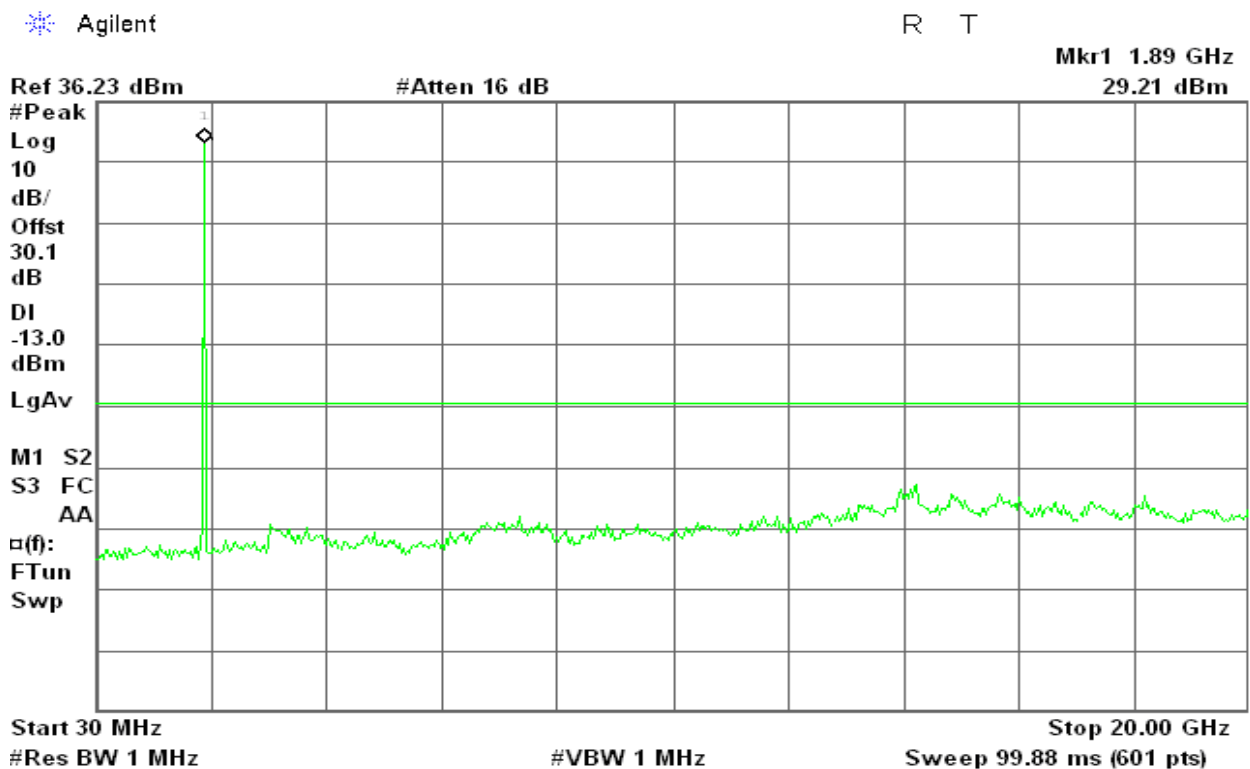
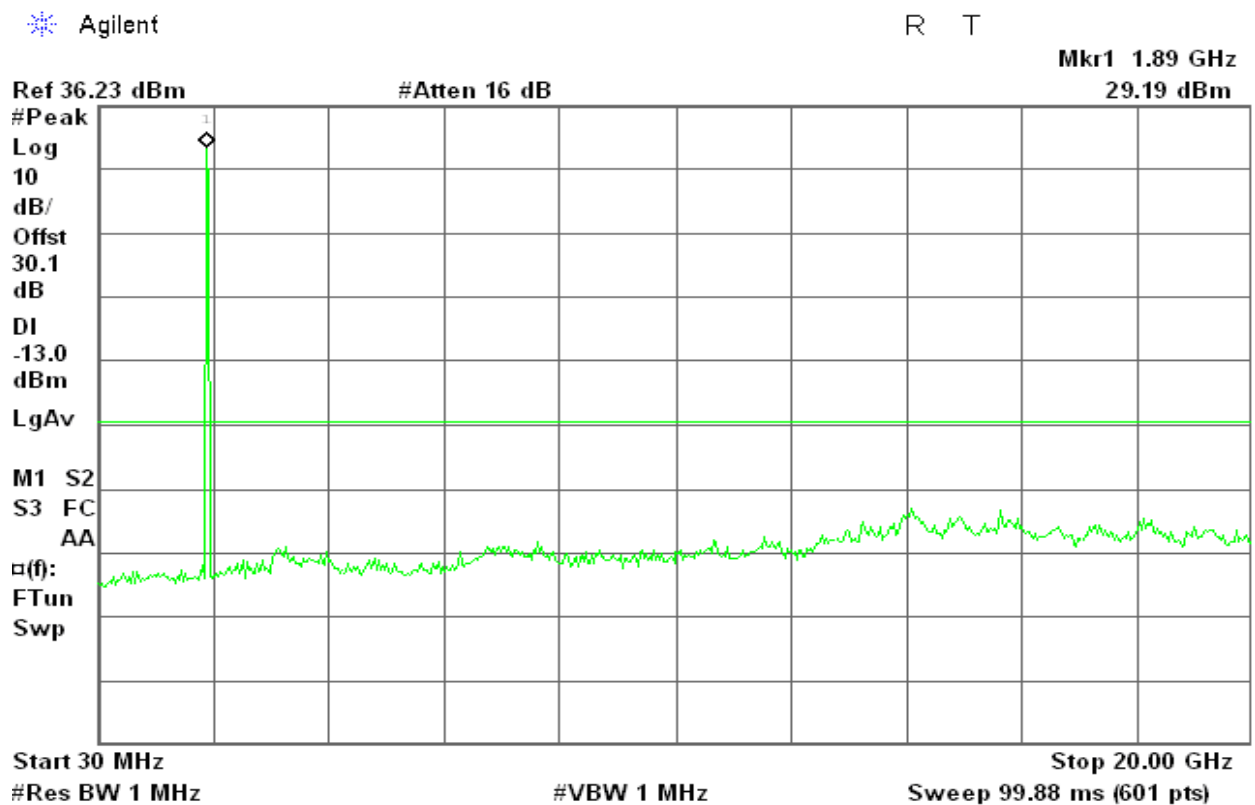




Figure 6-3: Out of Band emission at antenna terminals – GSM CH High





GSM 850

Figure 3-1: Band Edge emissions – GSM CH Low

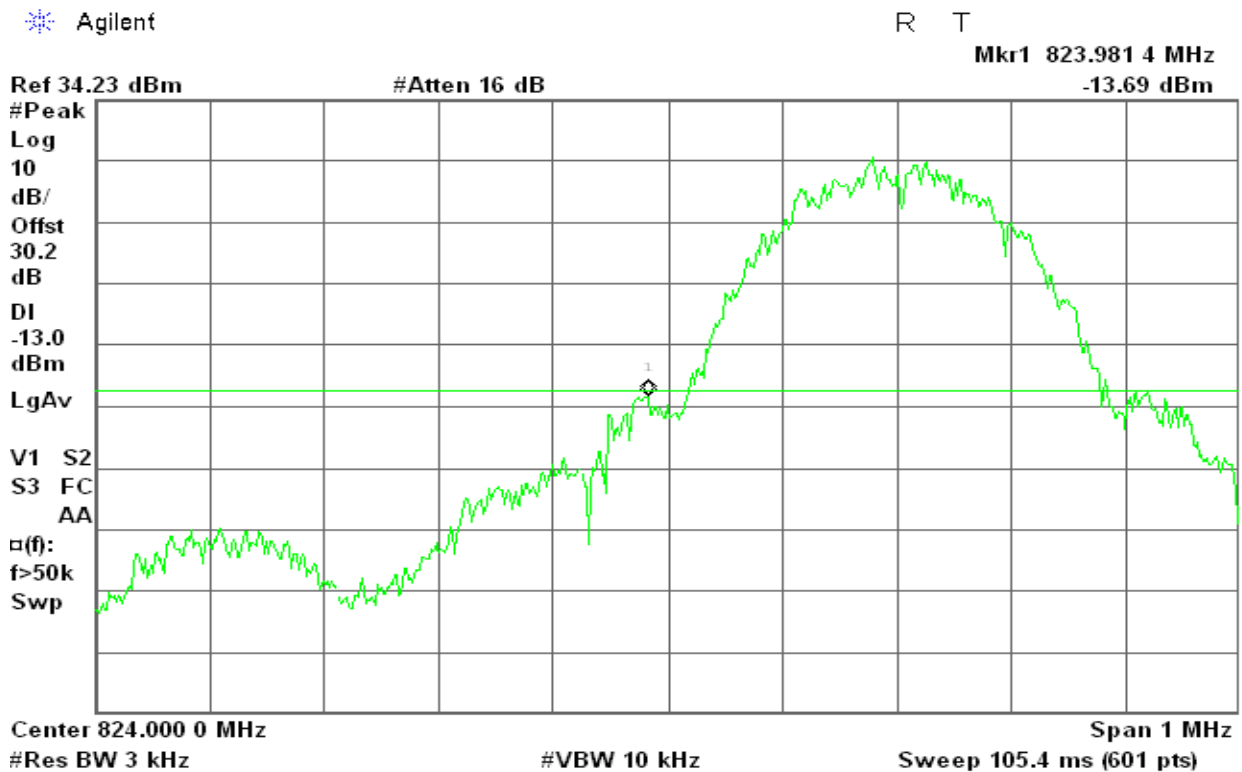
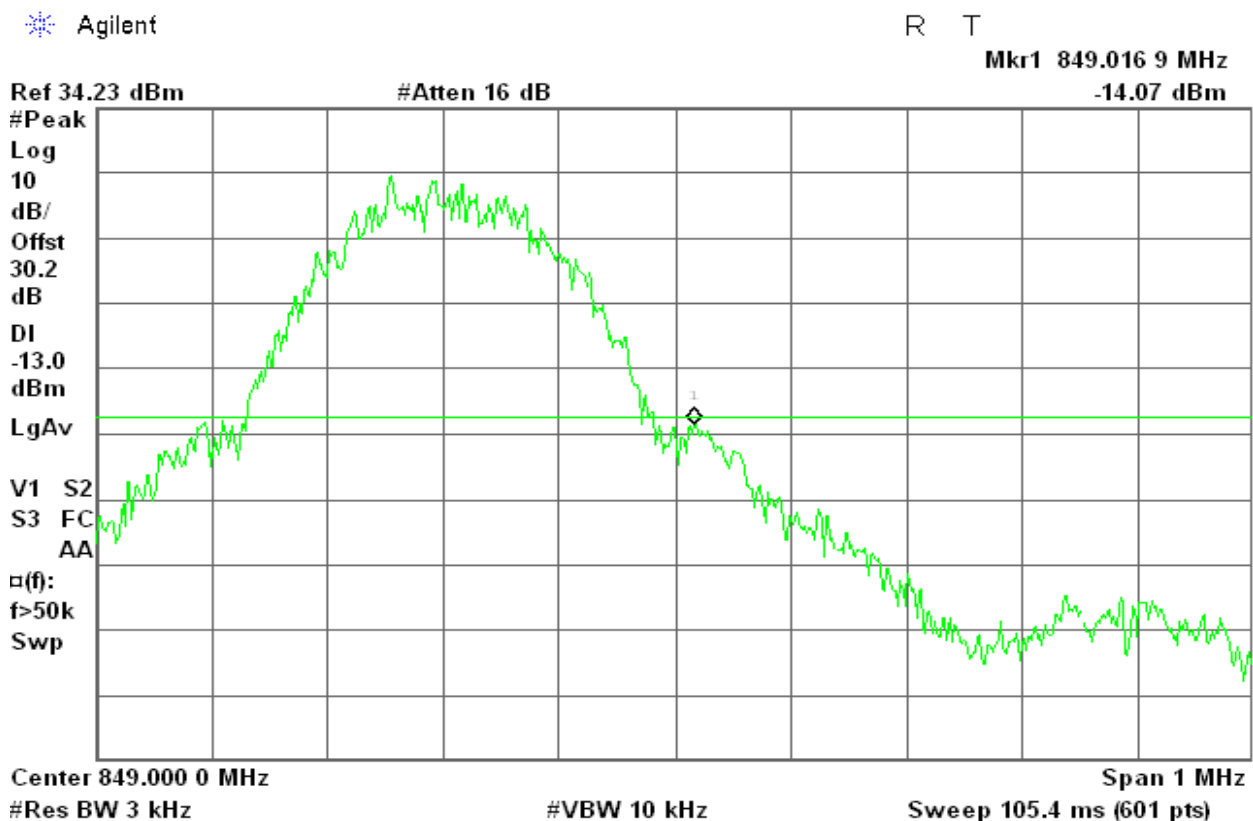


Figure 3-2: Band Edge emissions –GSM CH High





GSM 1900

Figure 4-1: Band Edge emissions – GSM CH Low

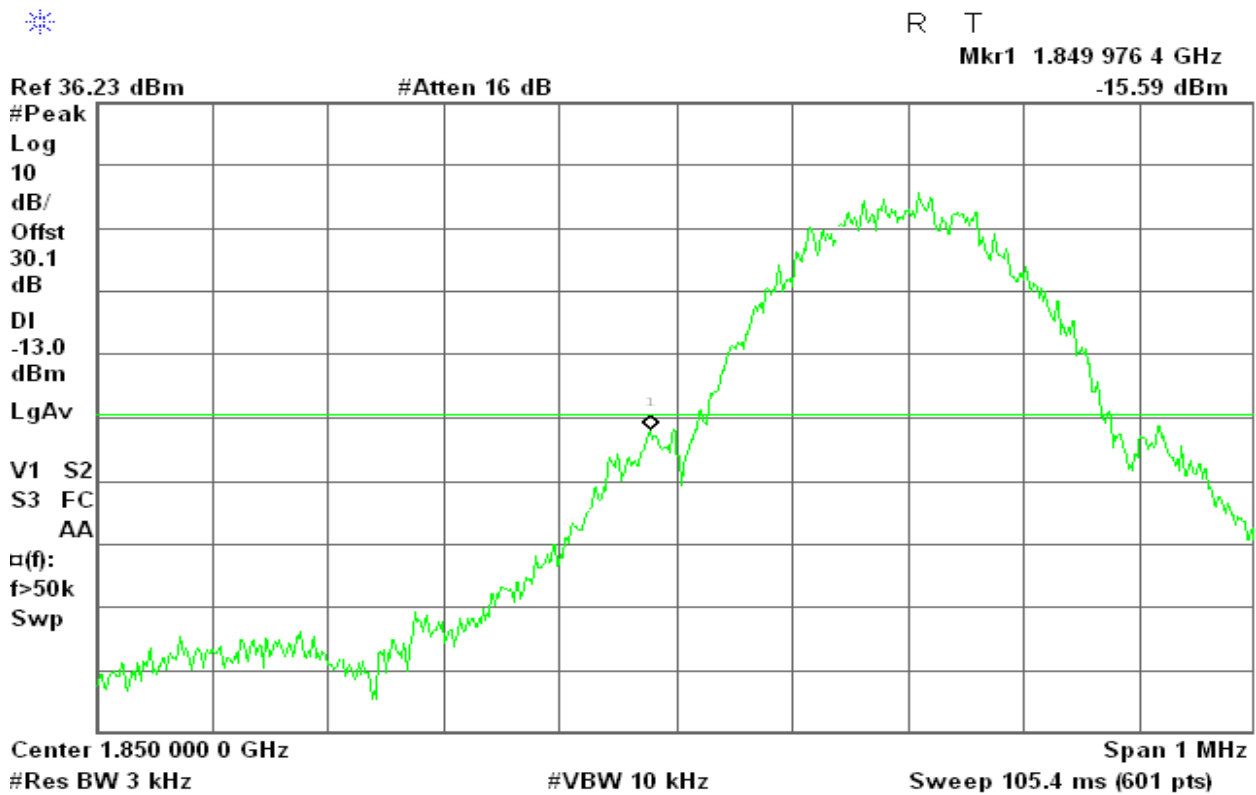
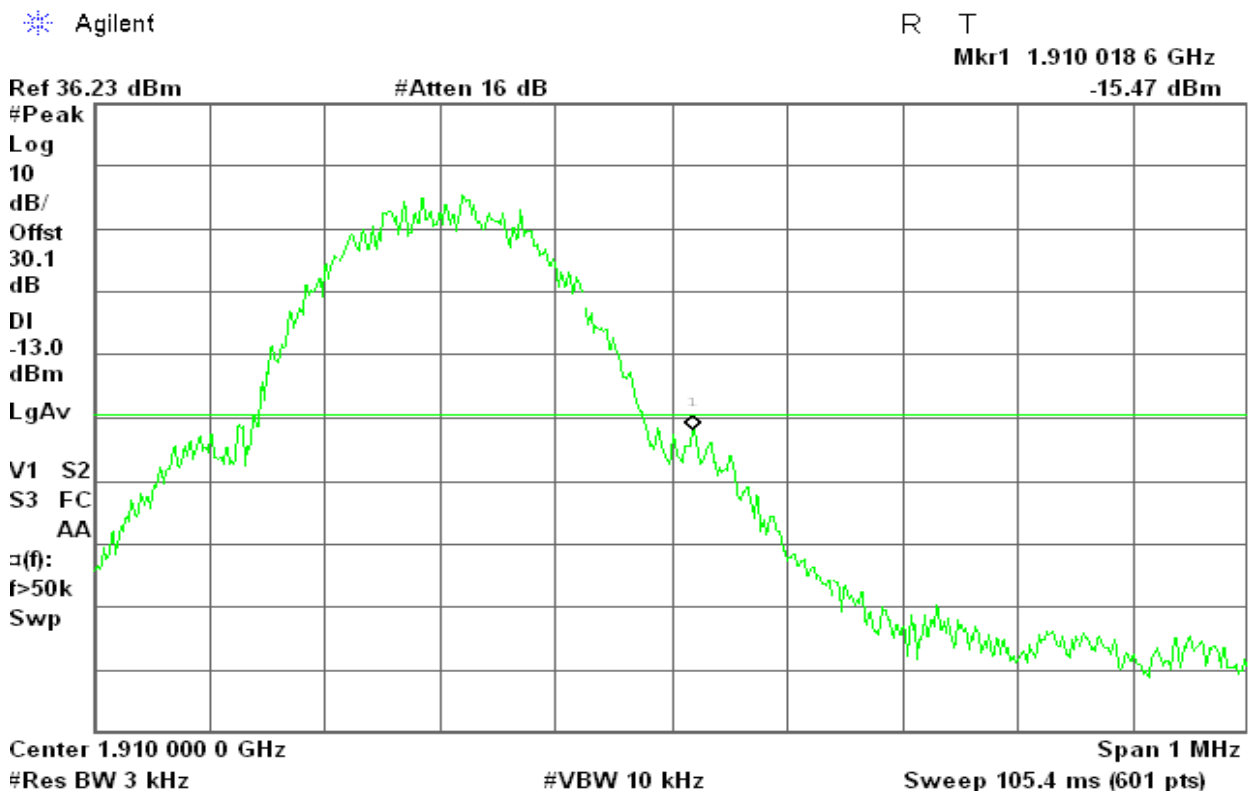


Figure 4-2: Band Edge emissions – GSM CH High





GPRS 850

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

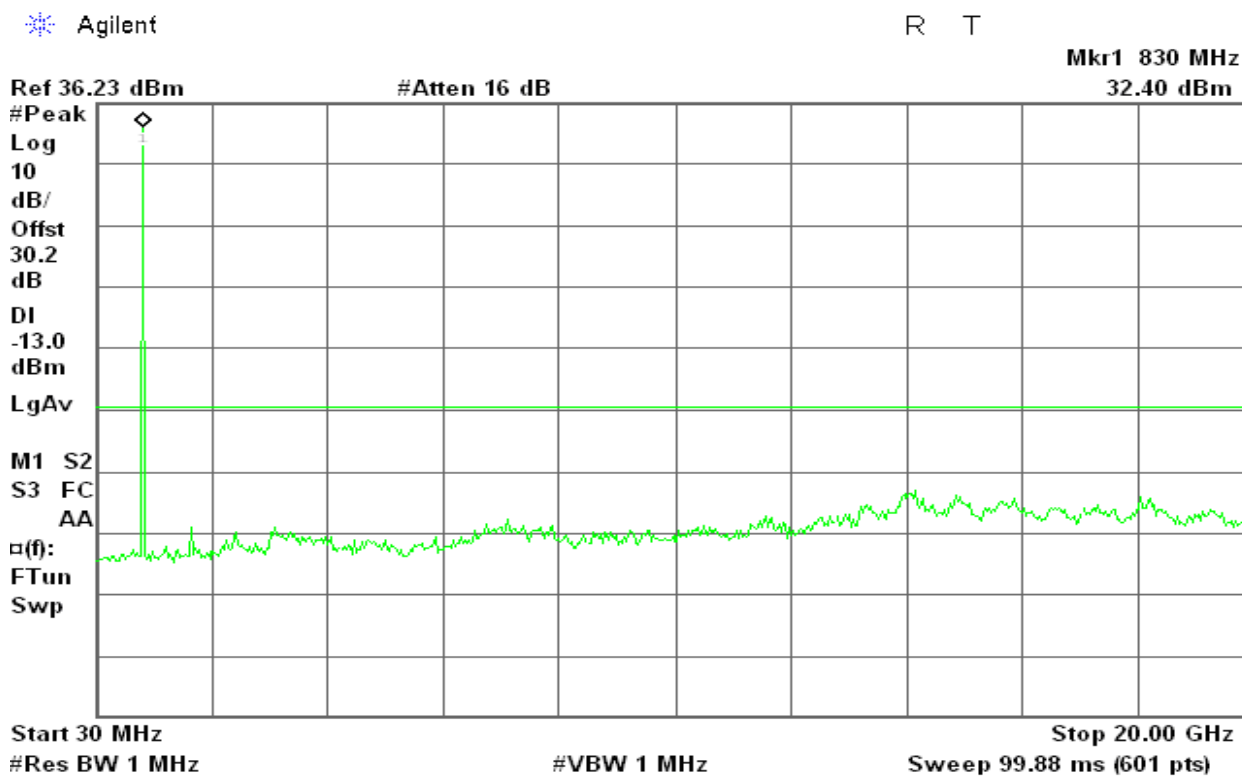


Figure 7-2: Out of Band emission at antenna terminals – GPRS CH Low

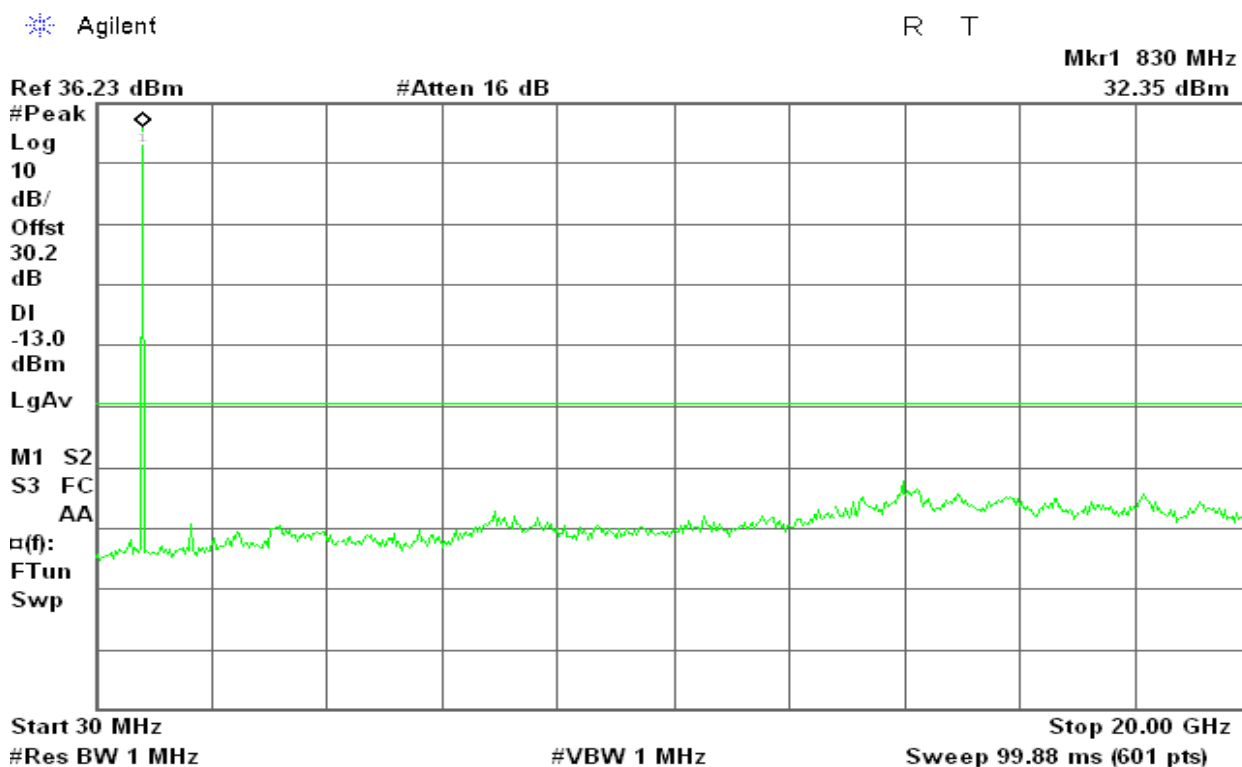
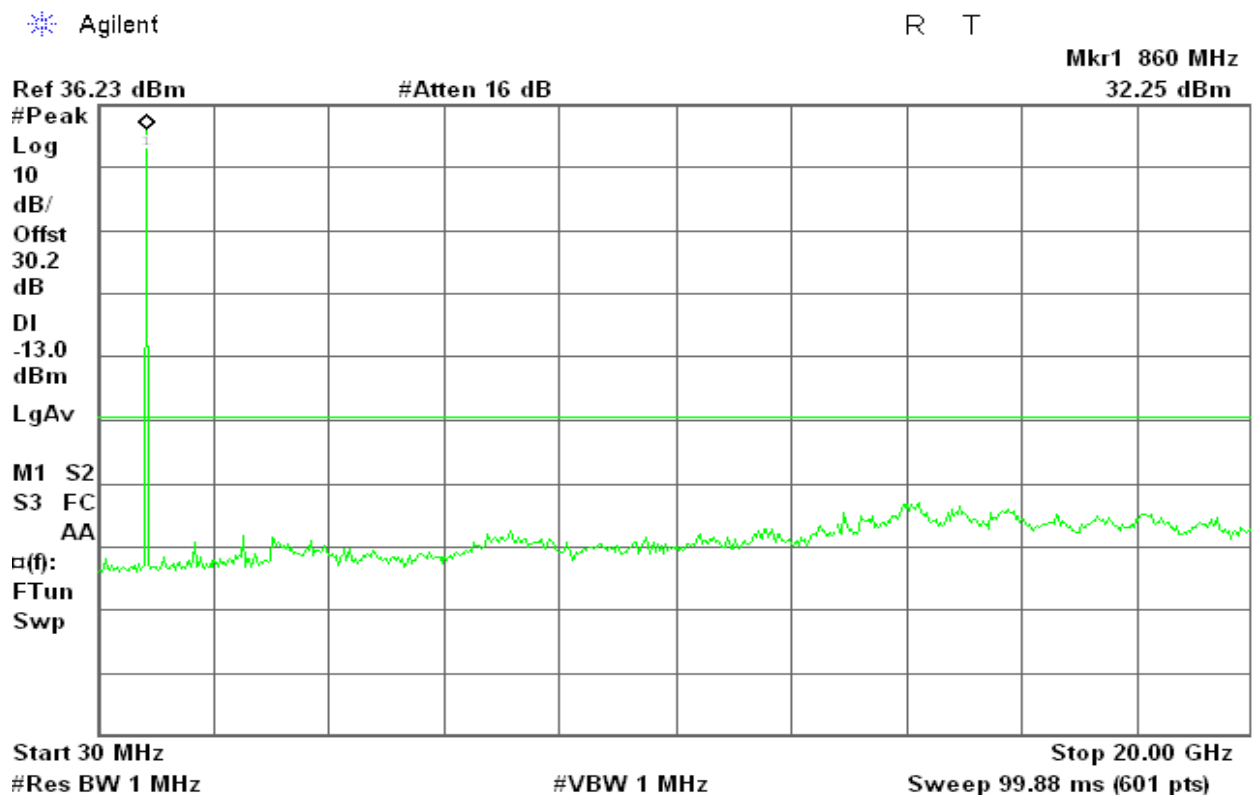




Figure 7-3: Out of Band emission at antenna terminals – GPRS CH High





GPRS 1900

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

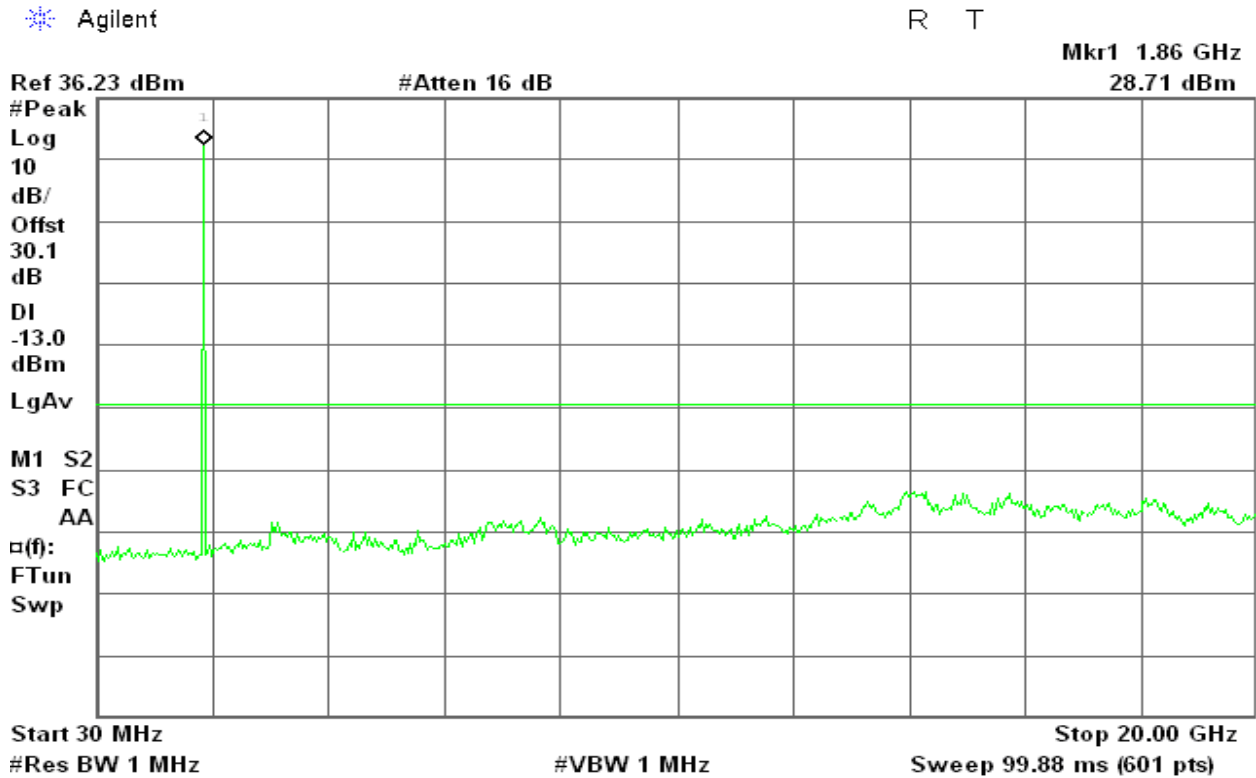


Figure 8-2: Out of Band emission at antenna terminals – GPRS CH Mid

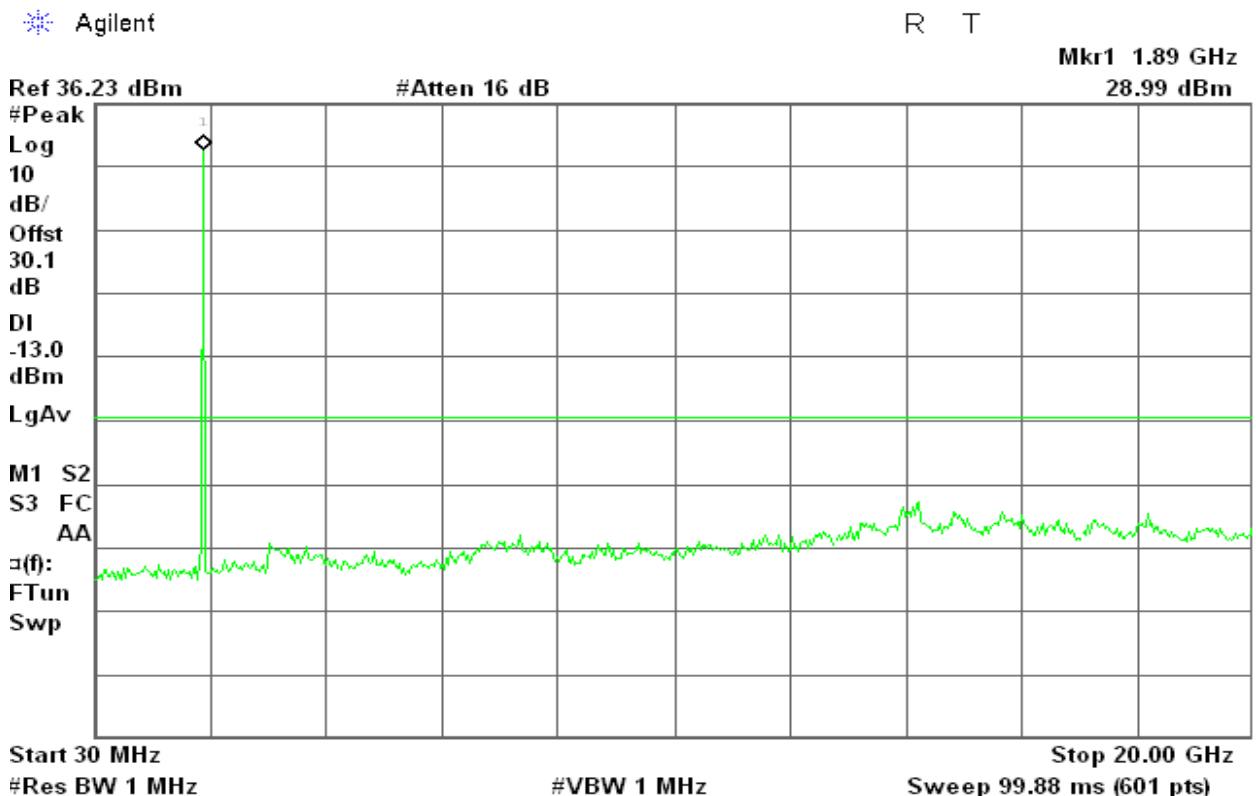
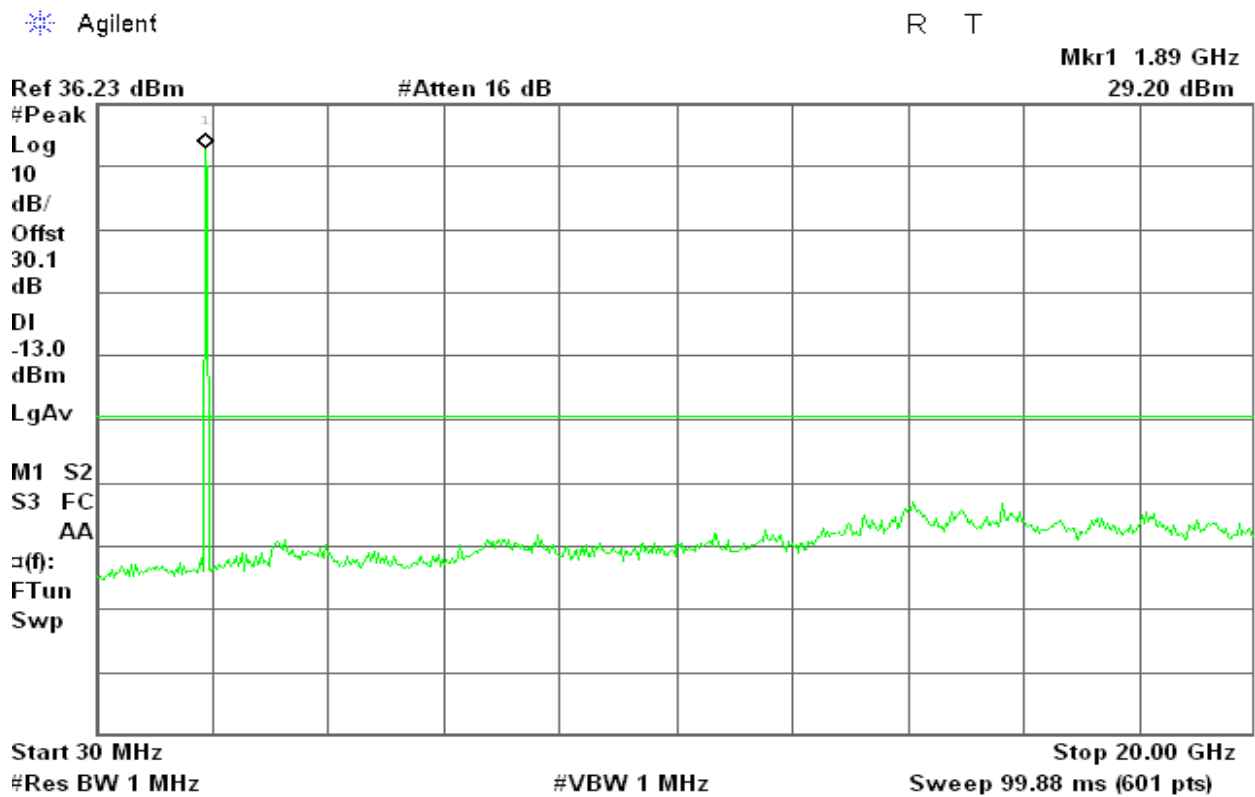




Figure 8-3: Out of Band emission at antenna terminals – GPRS CH High





GPRS 850

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

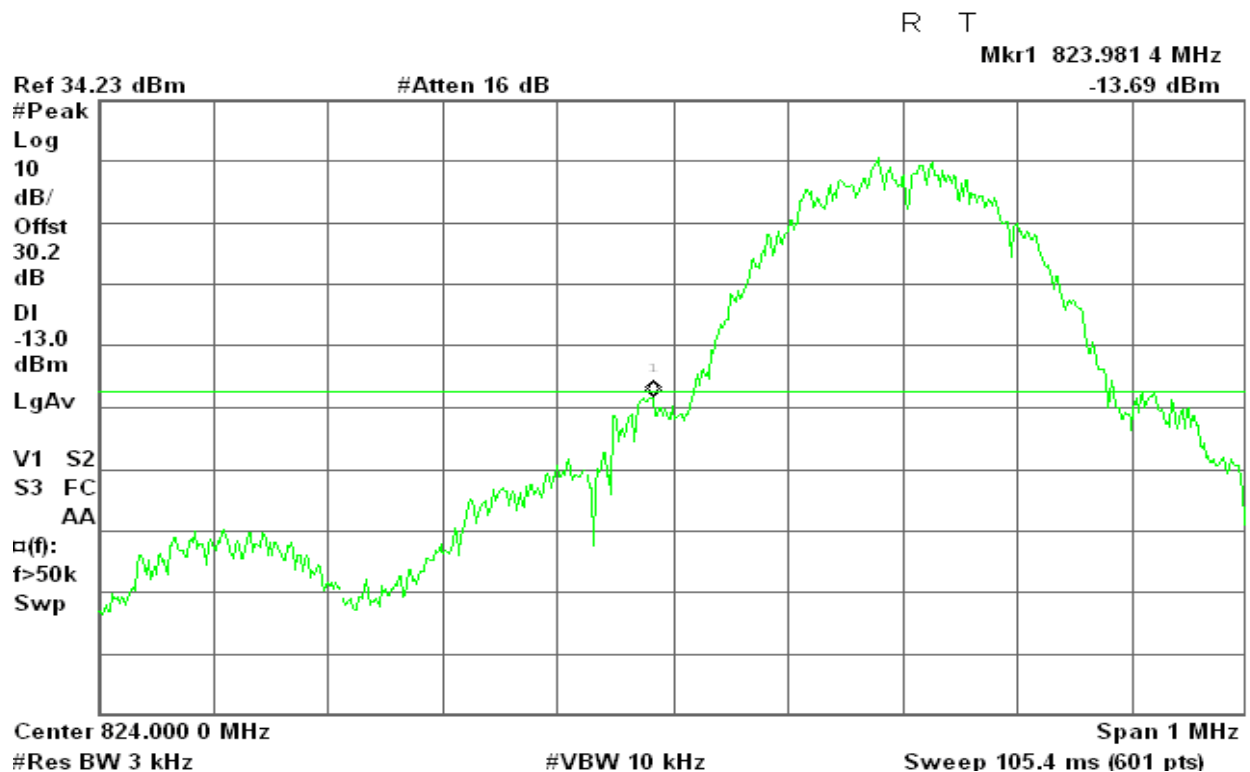
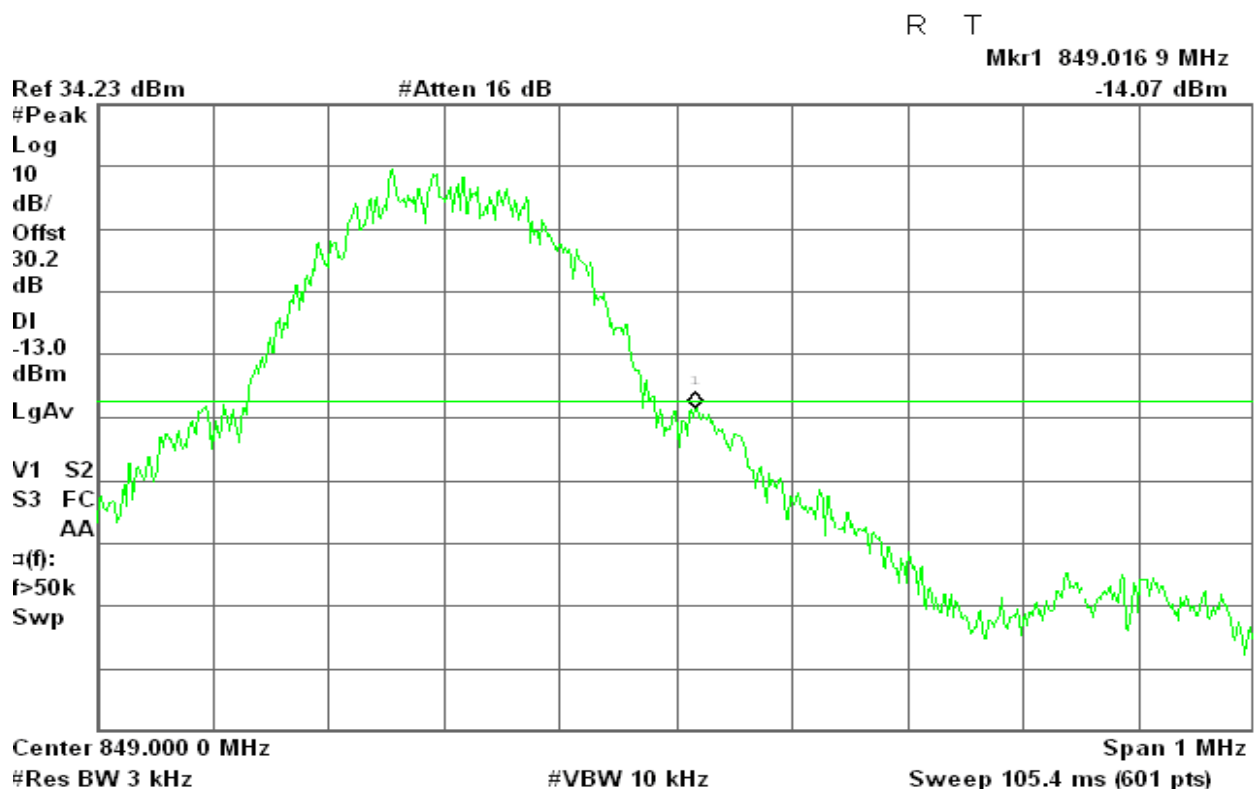


Figure 9-2: Band Edge emissions –GPRS CH High





GPRS 1900

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

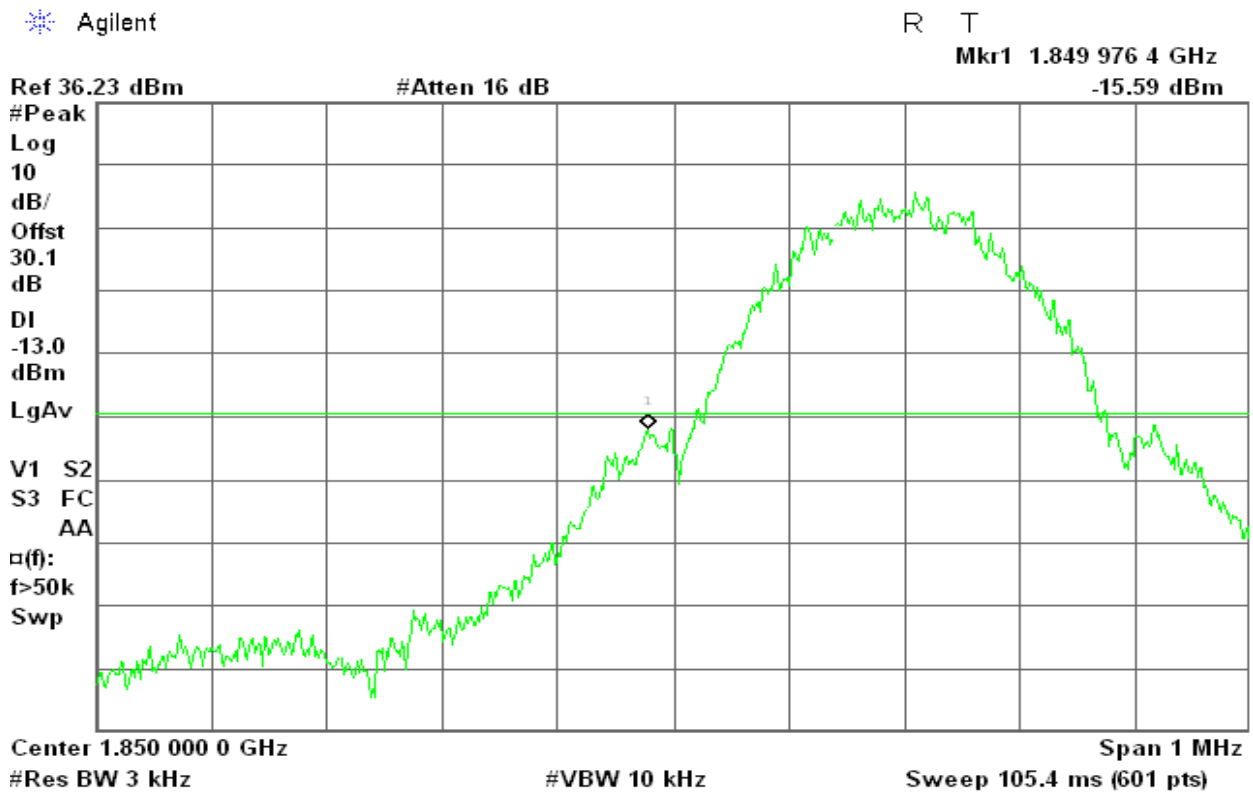
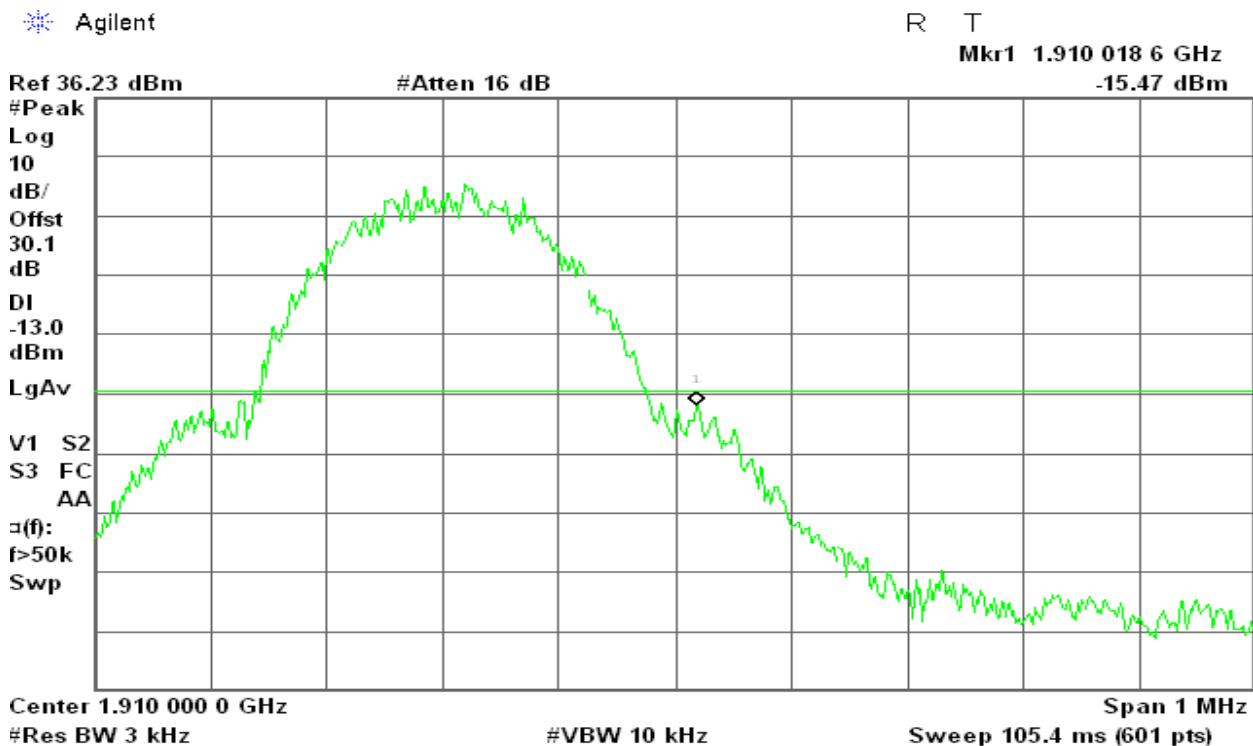


Figure 10-2: Band Edge emissions – GPRS CH High





EDGE 850

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

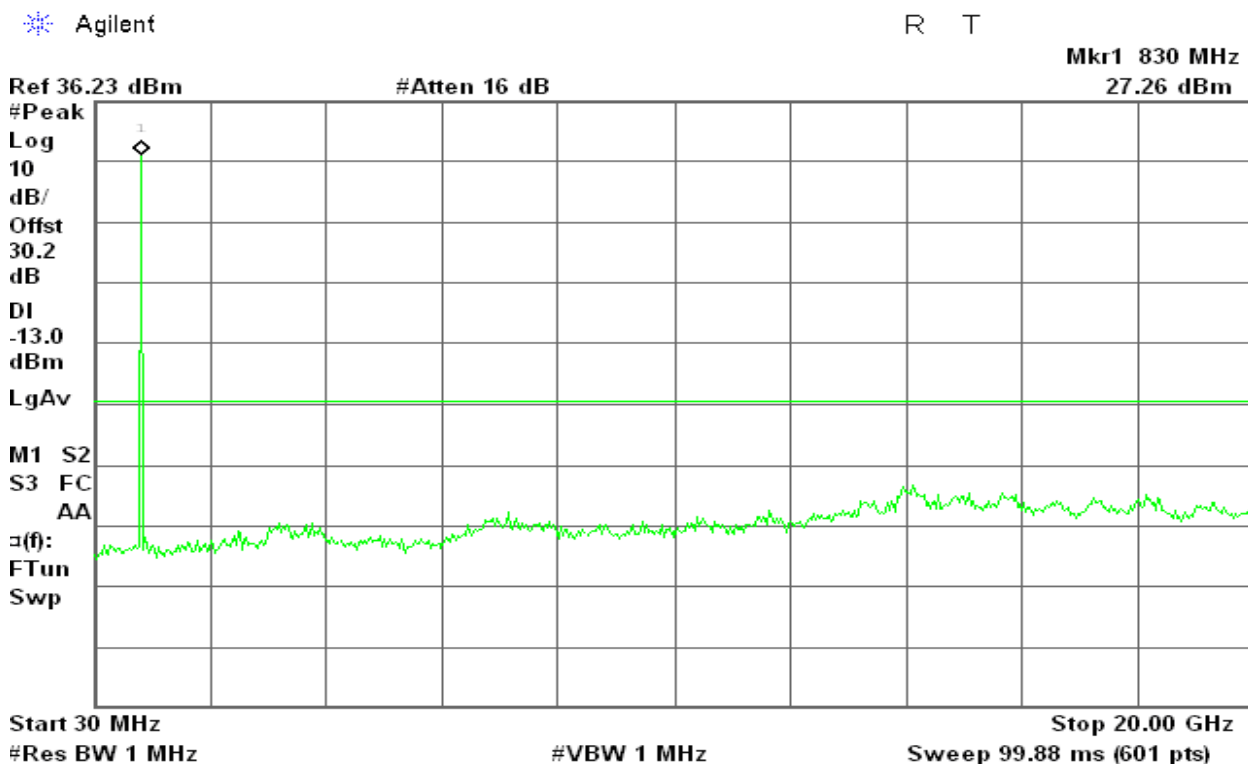


Figure 11-2: Out of Band emission at antenna terminals –EDGE CH Mid

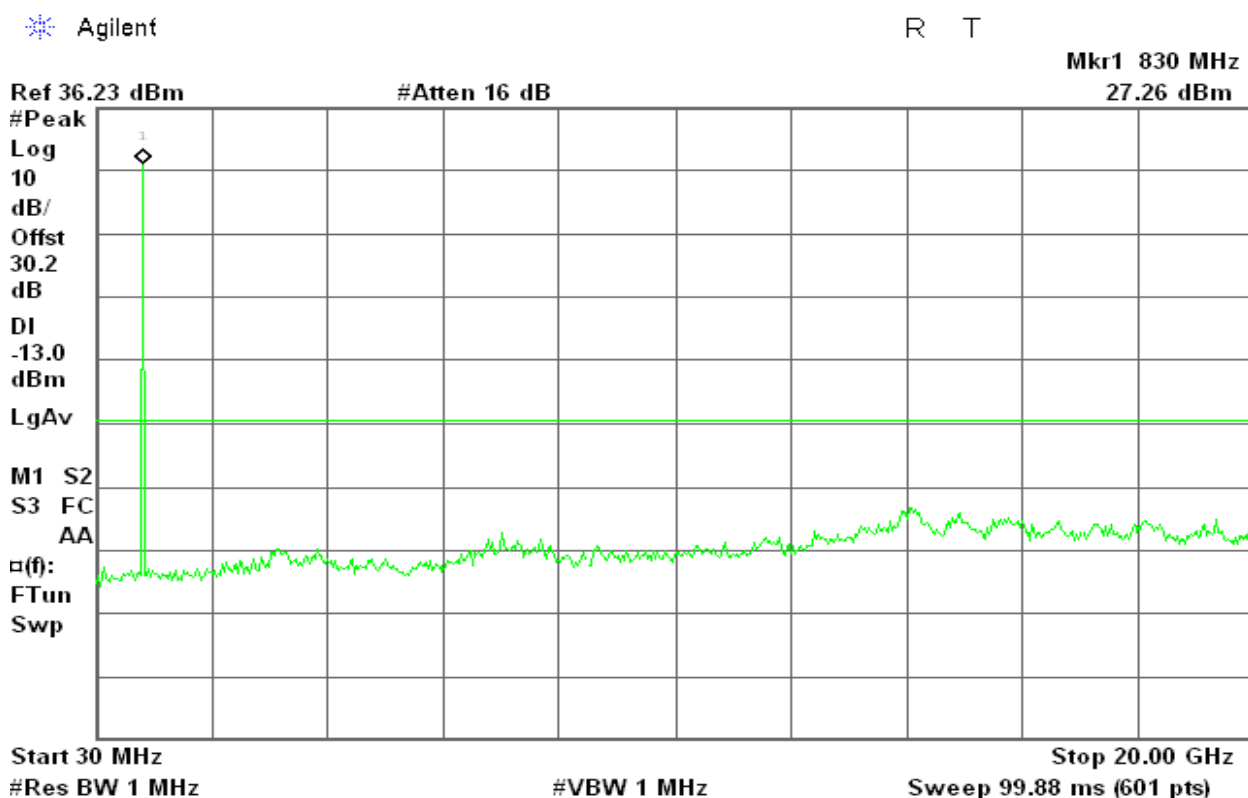
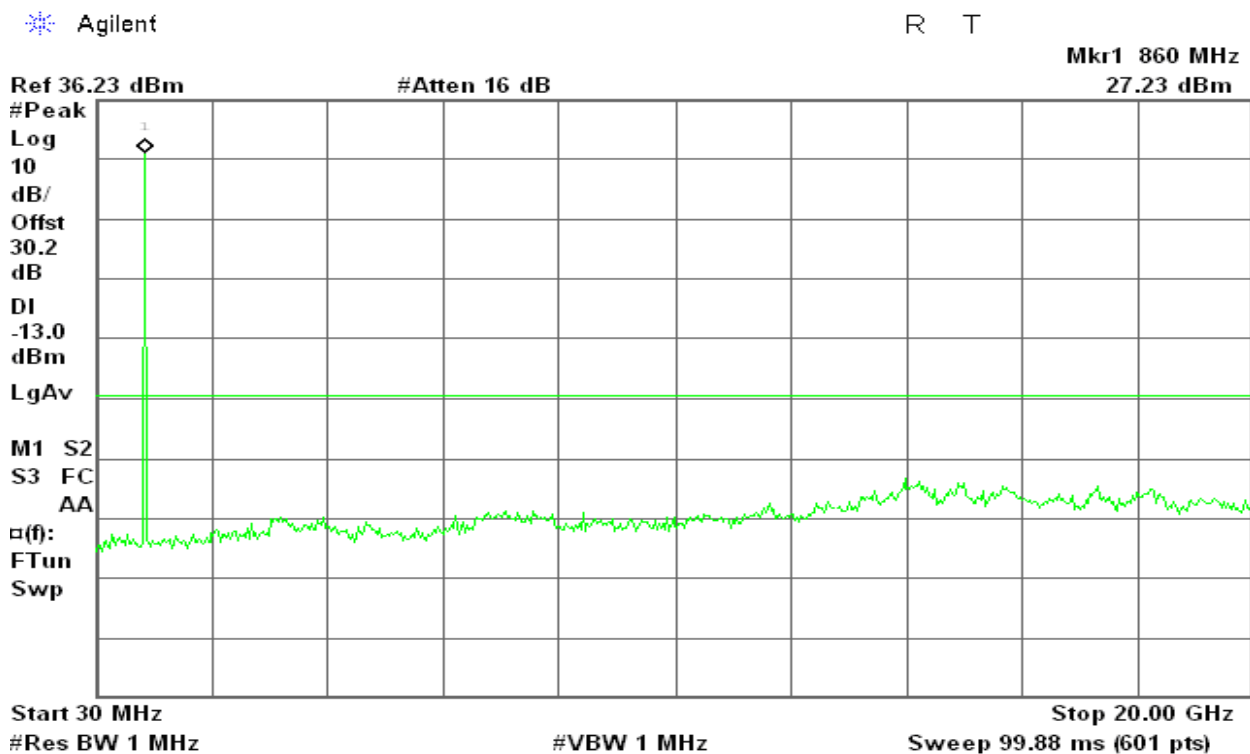




Figure 11-3: Out of Band emission at antenna terminals –EDGE CH High



EDGE 1900

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

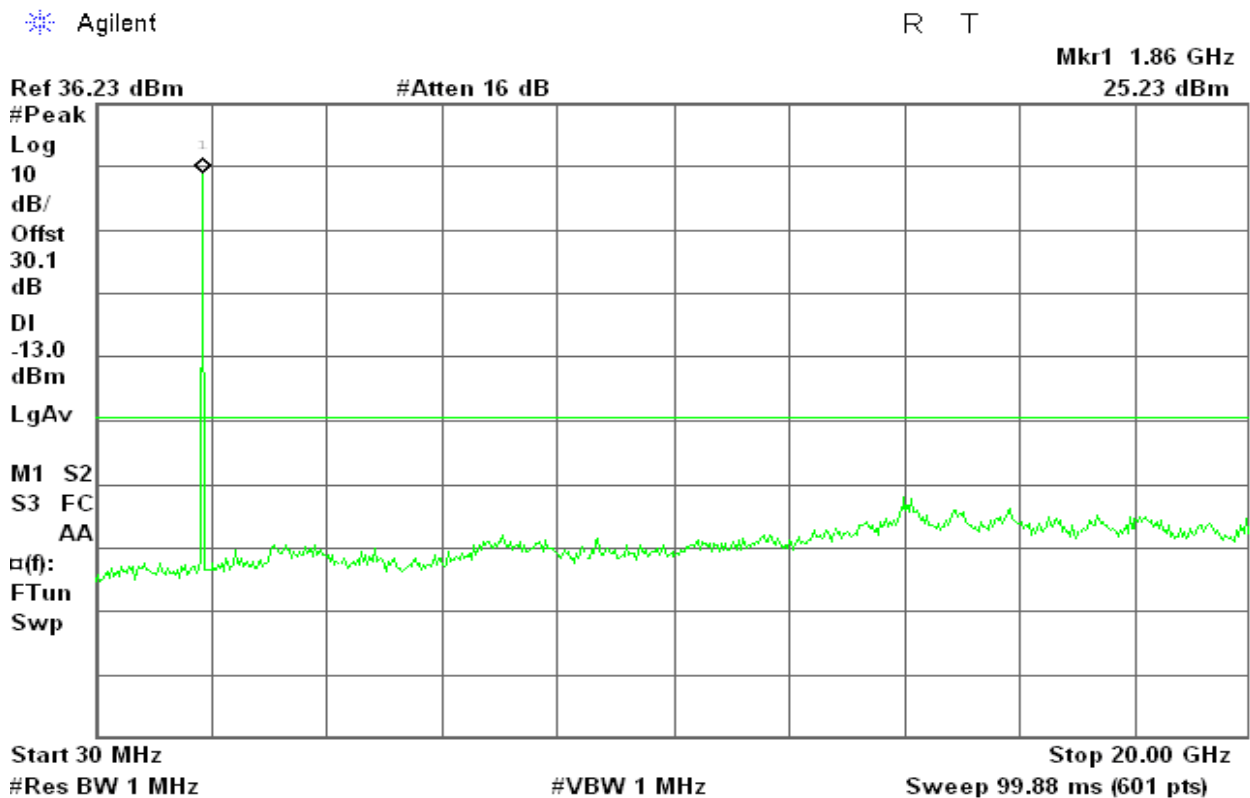




Figure 11-5: Out of Band emission at antenna terminals –EDGE CH Mid

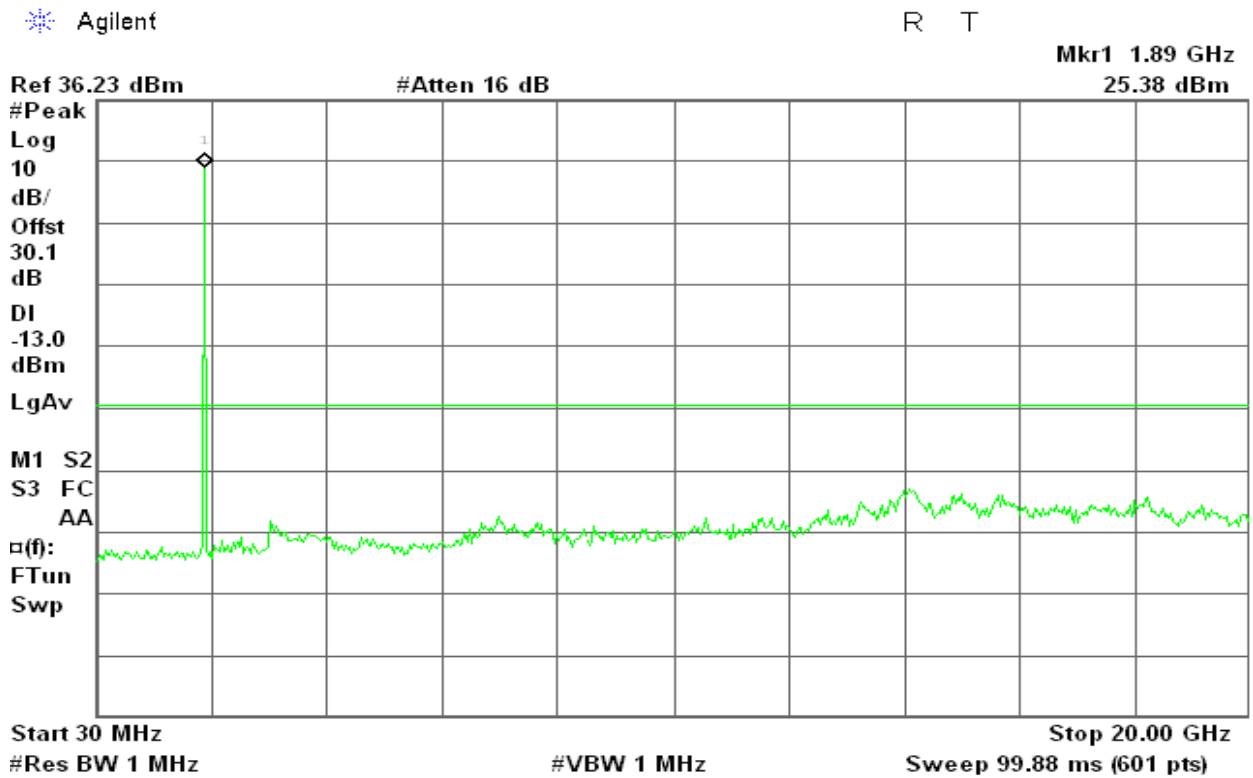
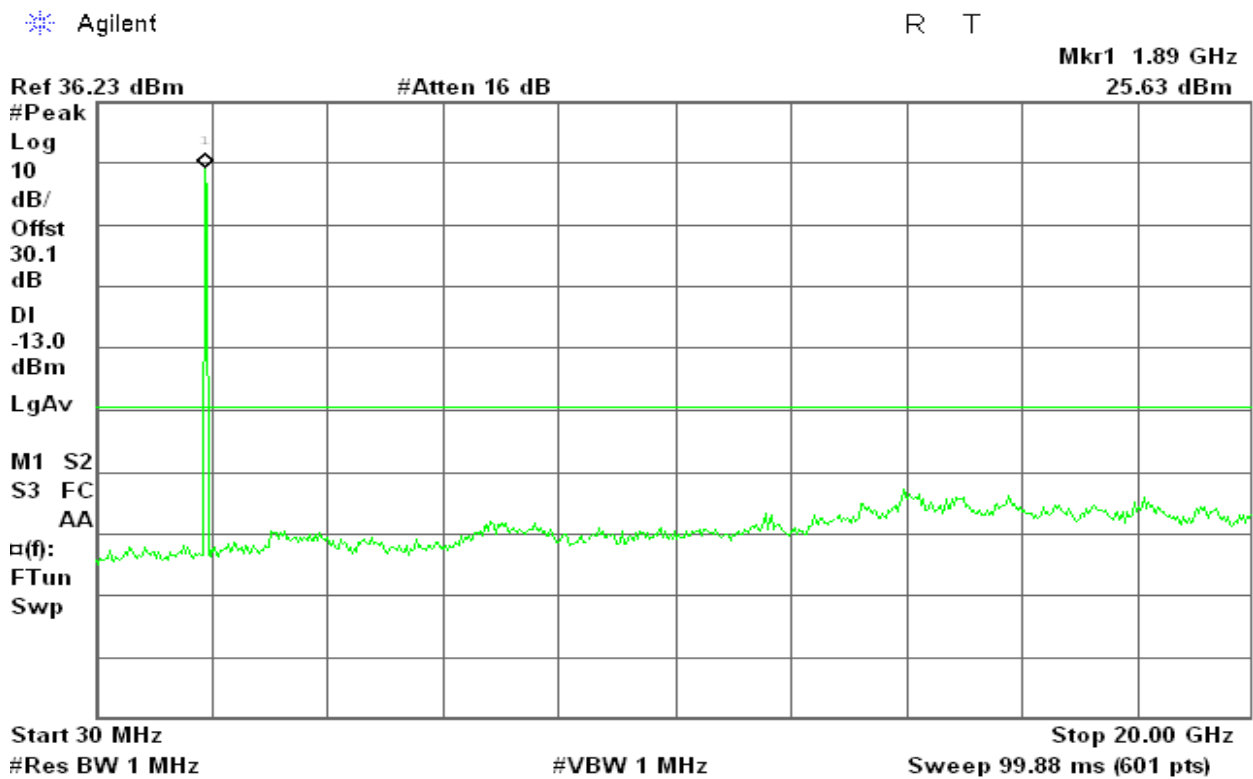


Figure 11-6: Out of Band emission at antenna terminals –EDGE CH High





EDGE 850

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

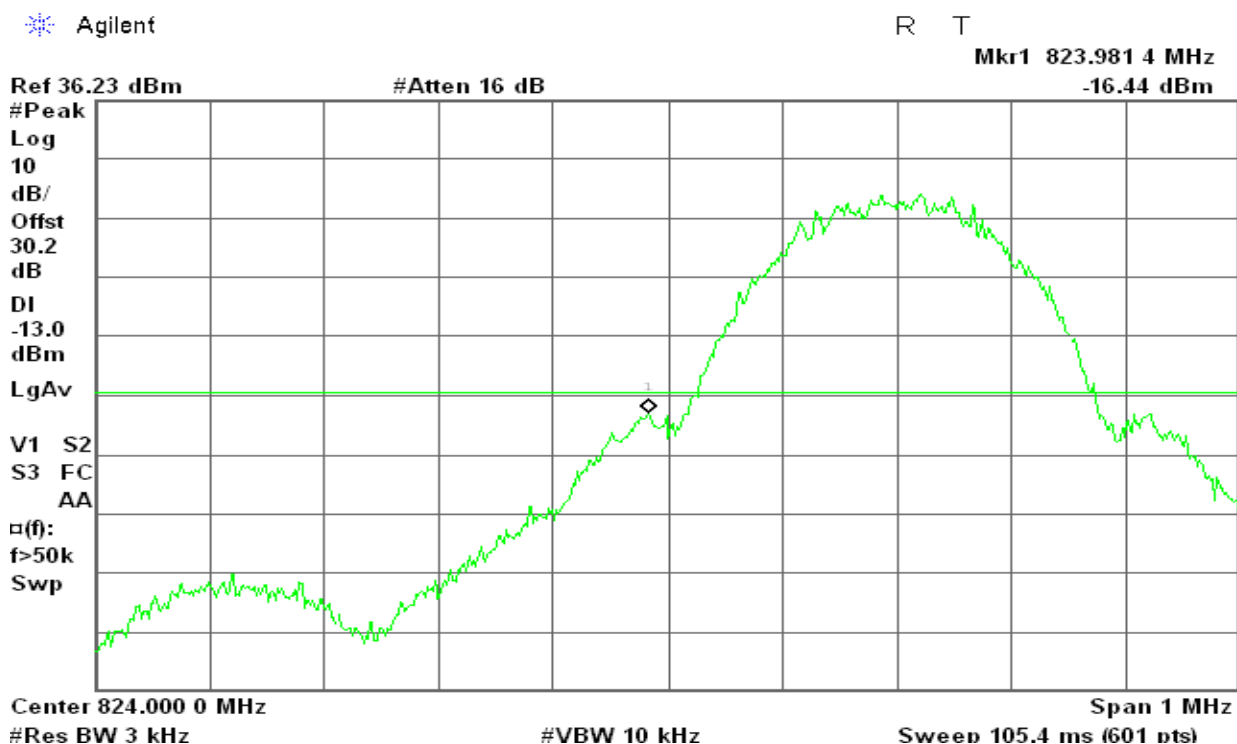
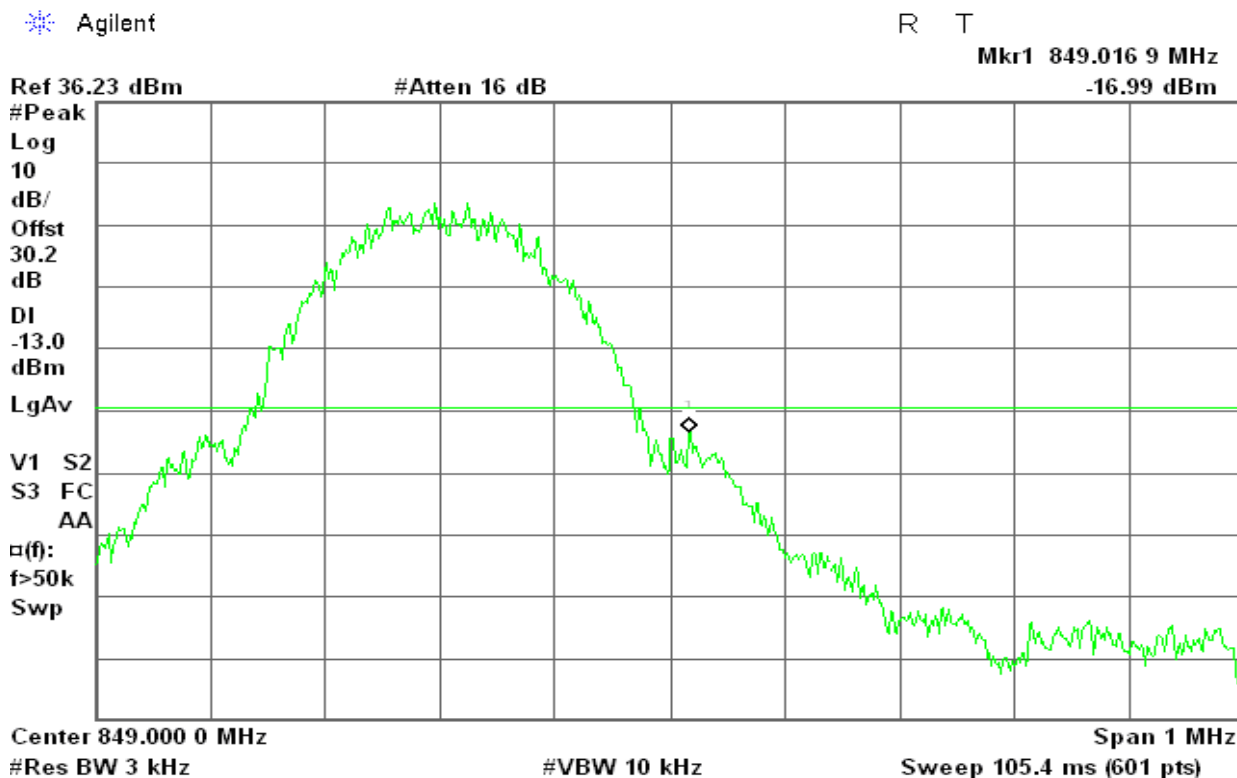


Figure 12-2: Band Edge emissions – EDGE CH High





EDGE 1900

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

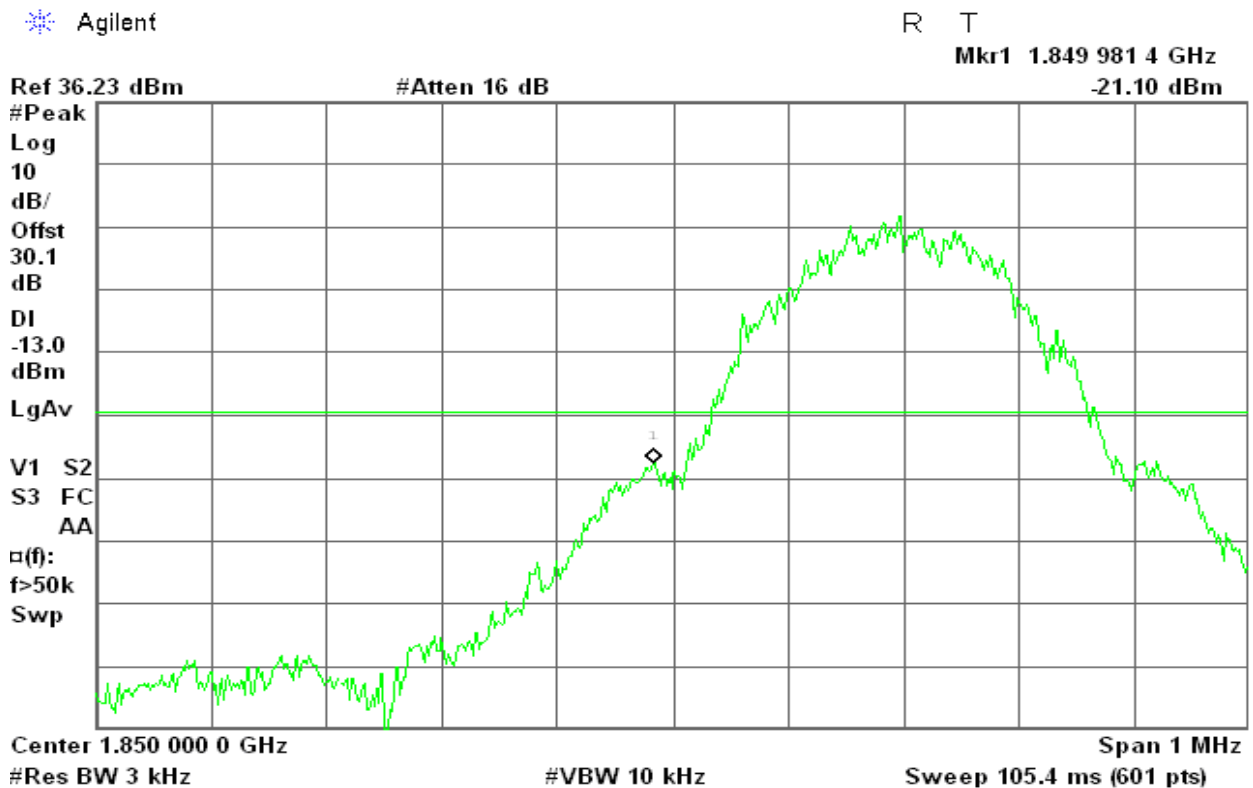
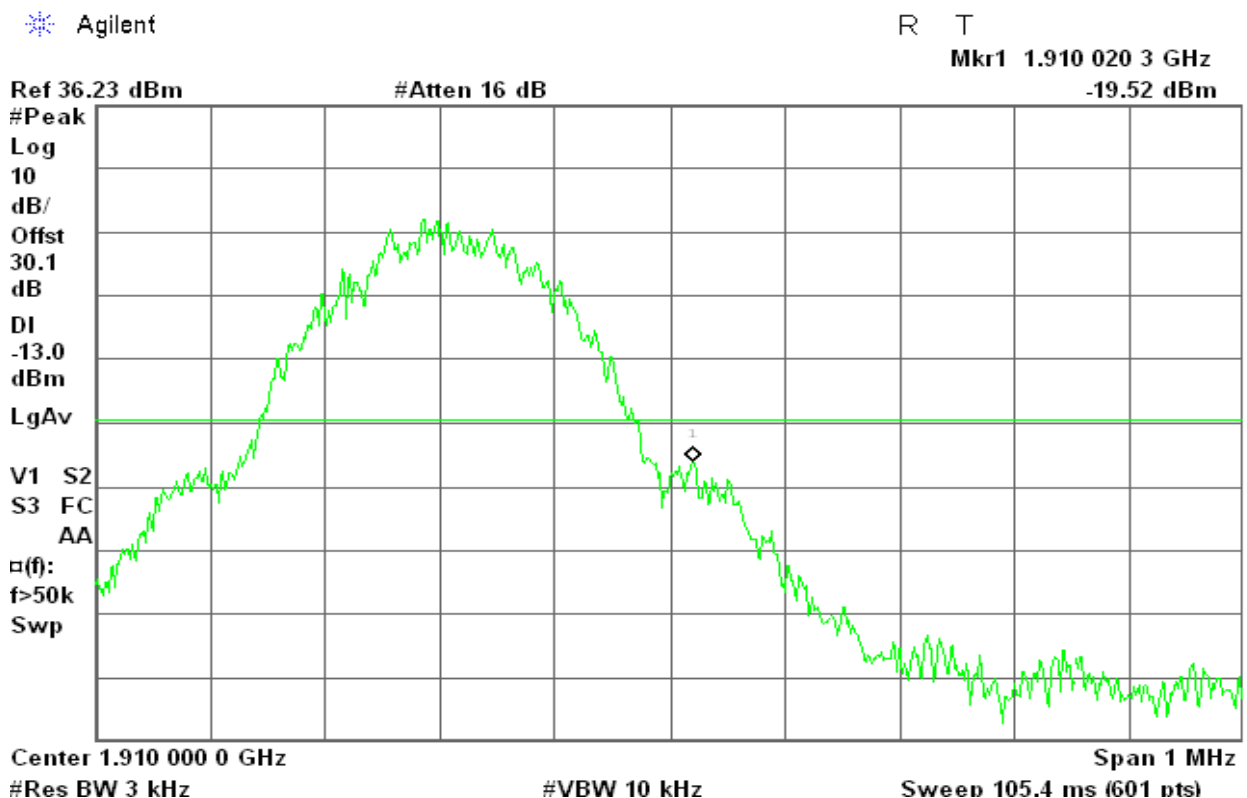


Figure 12-4: Band Edge emissions – EDGE CH High





WCDMA Band II

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

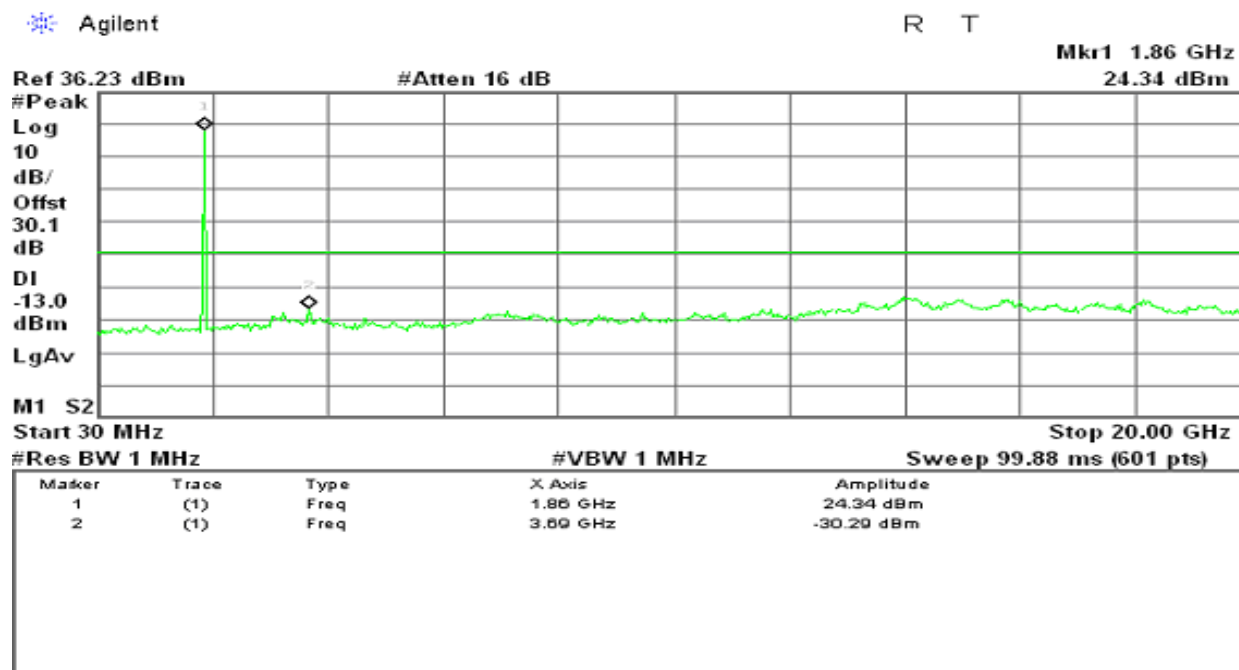


Figure 13-2: Out of Band emission at antenna terminals – WCDMA CH Mid

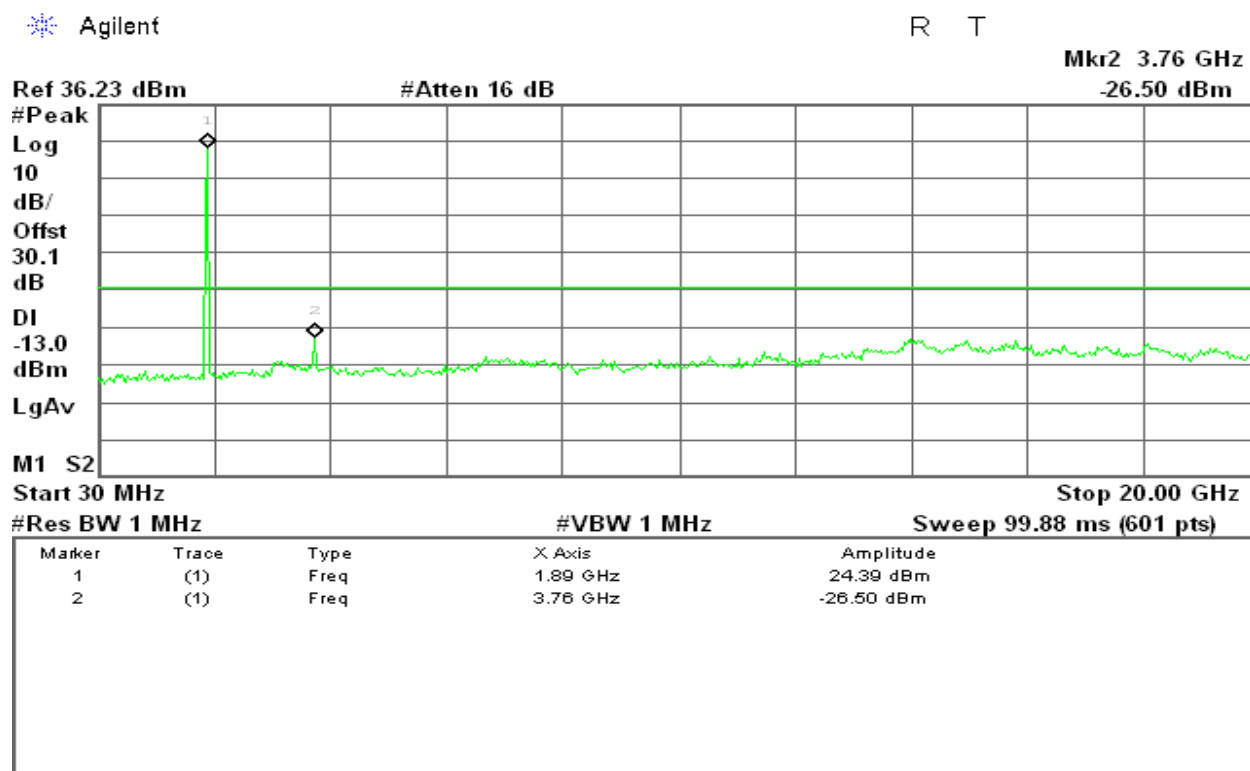
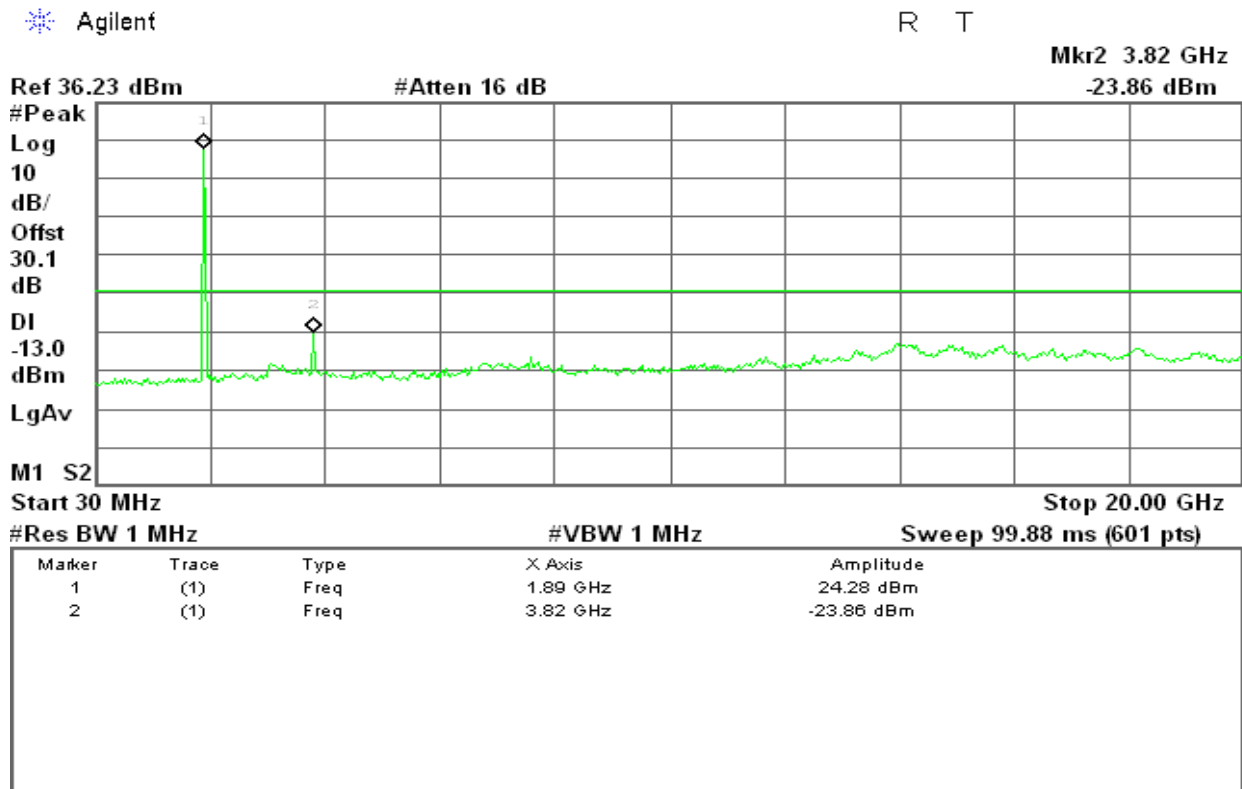




Figure 13-3: Out of Band emission at antenna terminals – WCDMA CH High



WCDMA Band V

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

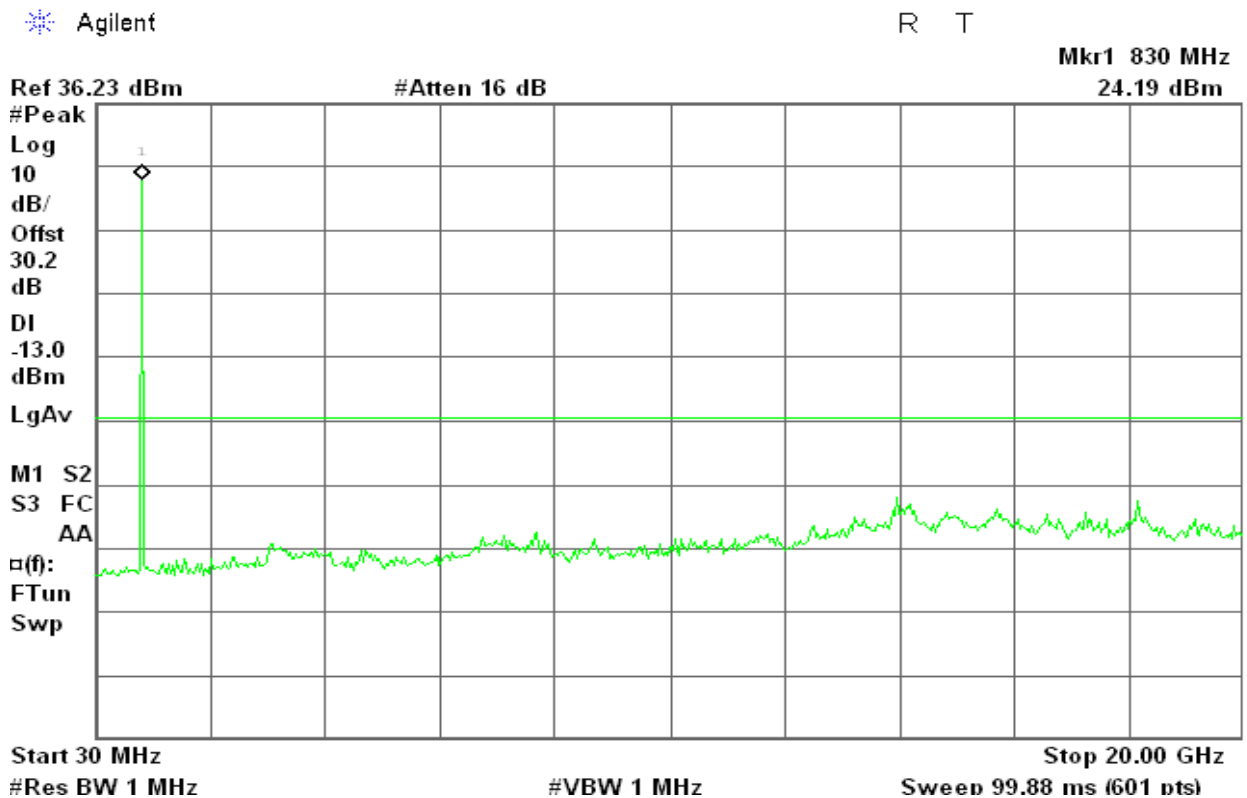




Figure 13-5: Out of Band emission at antenna terminals – WCDMA CH Mid

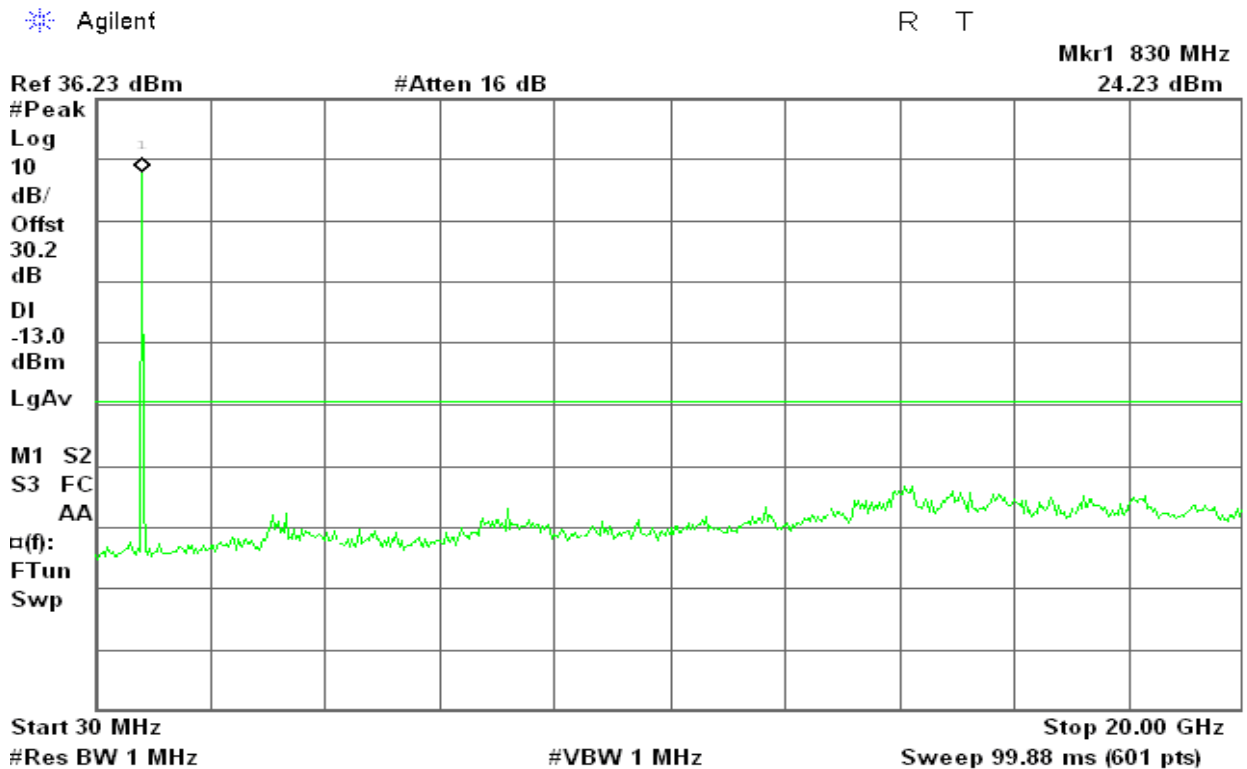
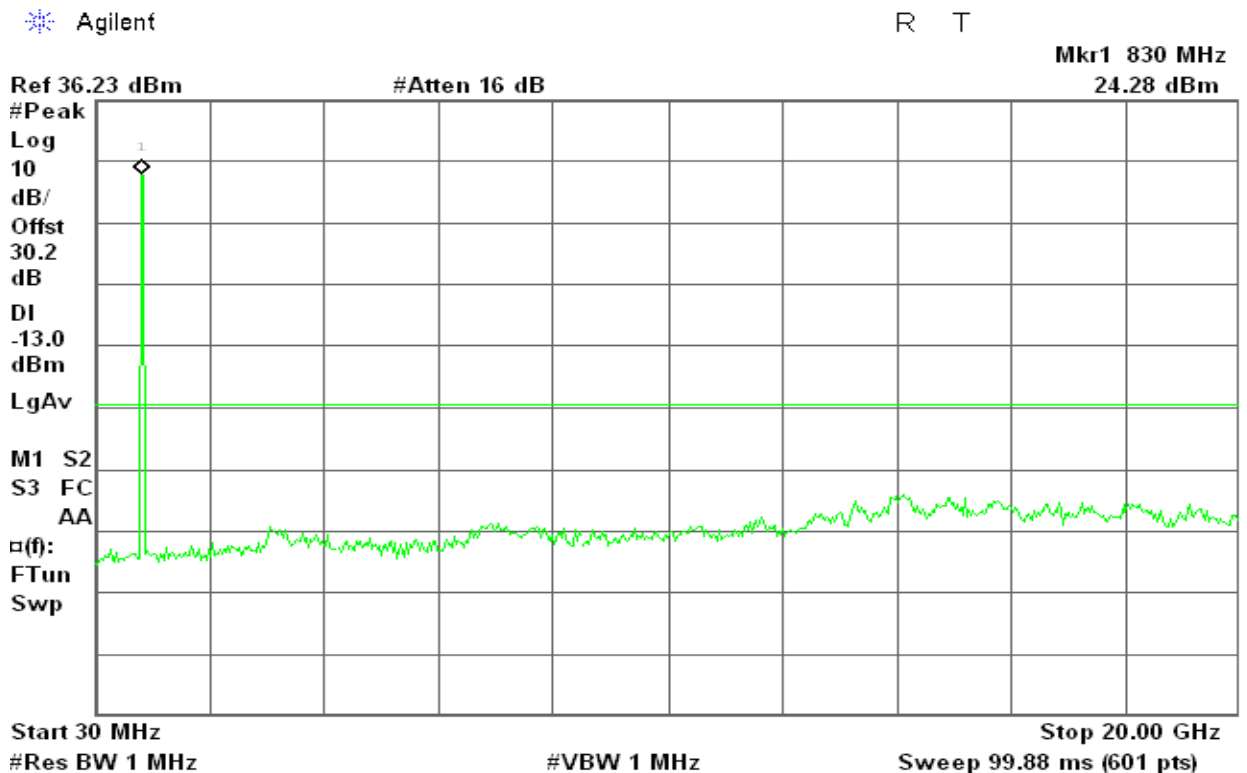


Figure 13-6: Out of Band emission at antenna terminals – WCDMA CH High





WCDMA Band II

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

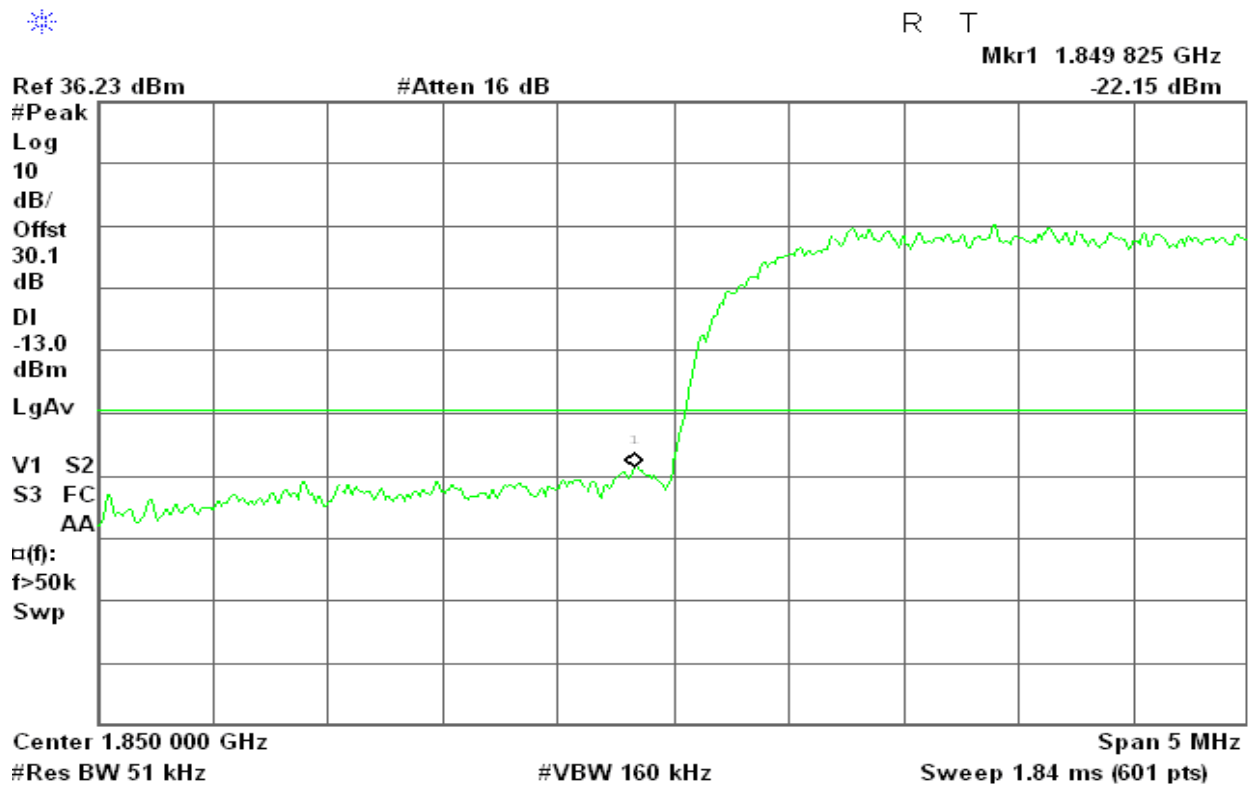
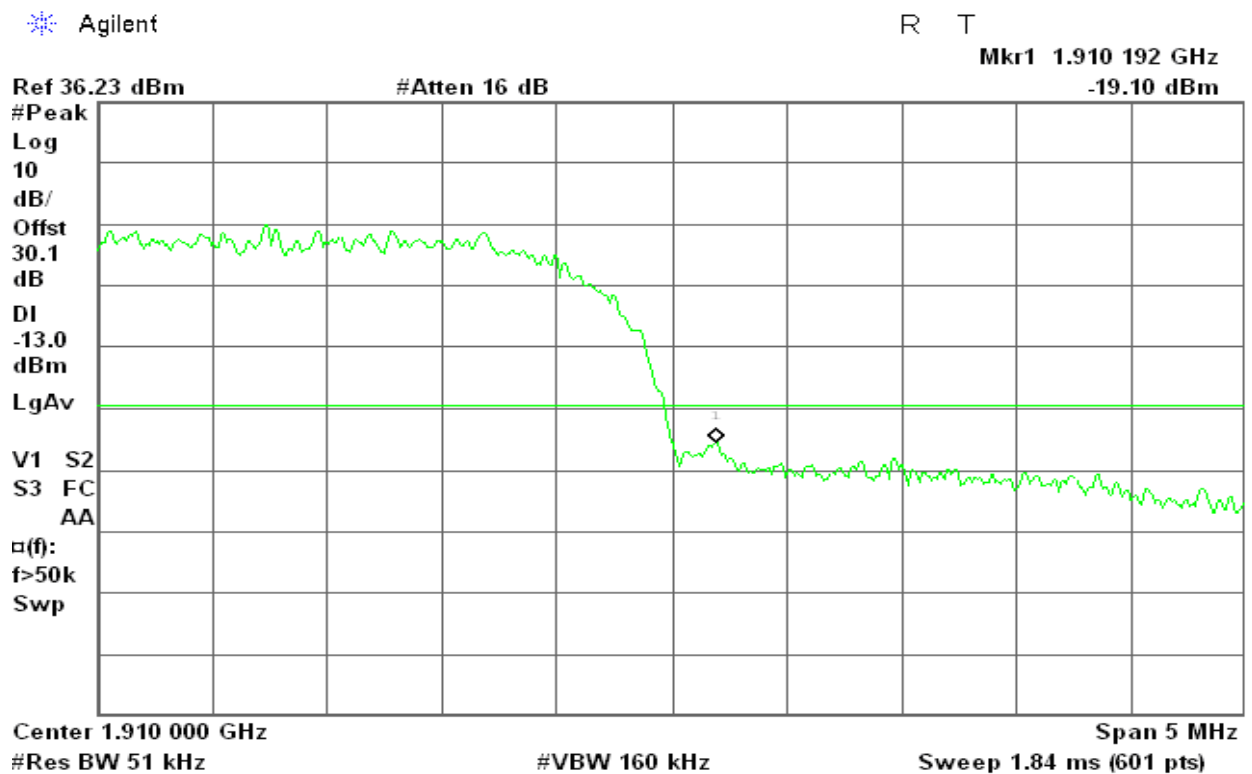


Figure 14-2: Band Edge emissions –WCDMA CH High





WCDMA Band V

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

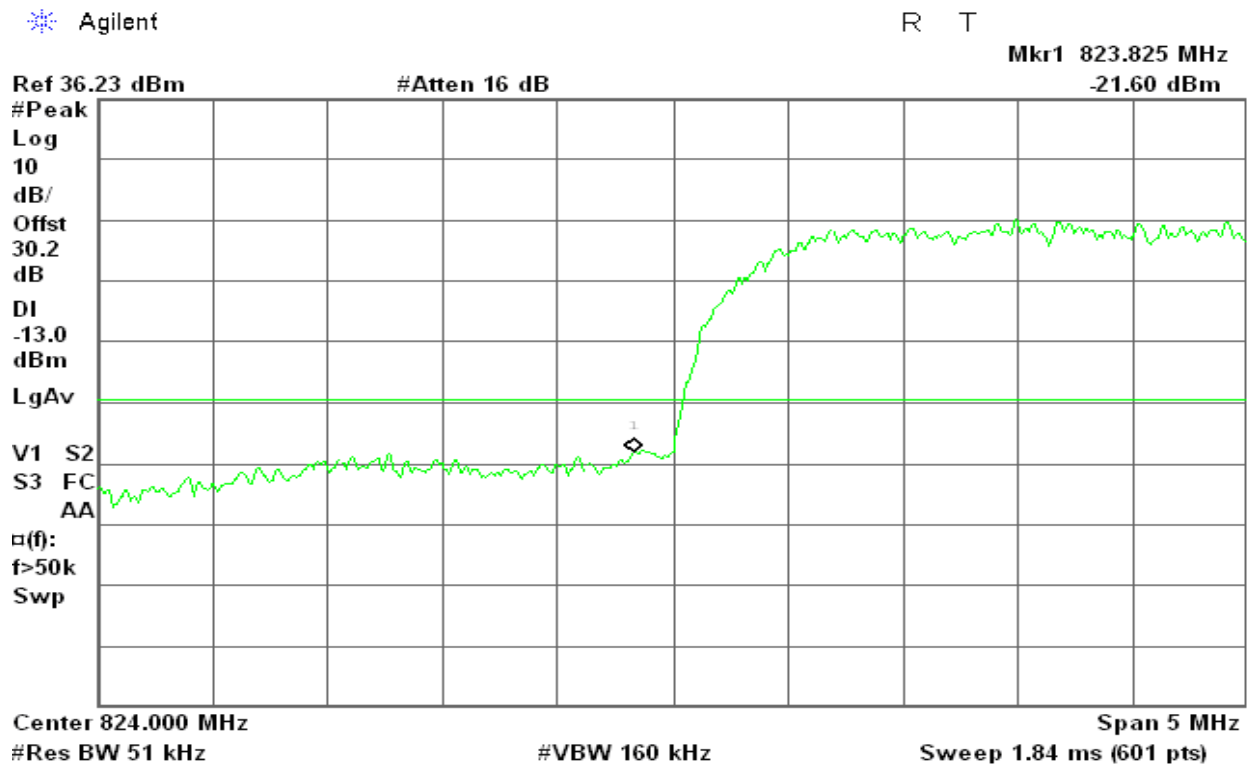
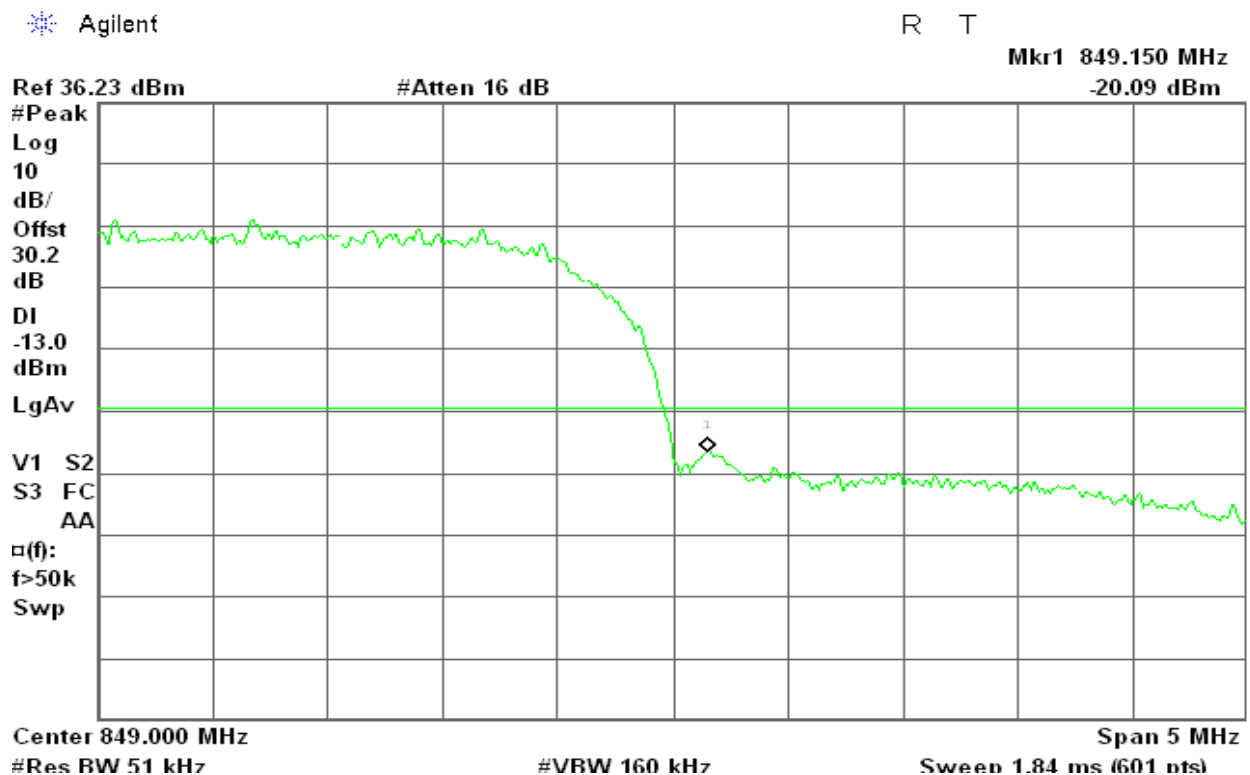


Figure 14-4: Band Edge emissions –WCDMA CH High





WCDMA / HSDPA Band II

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

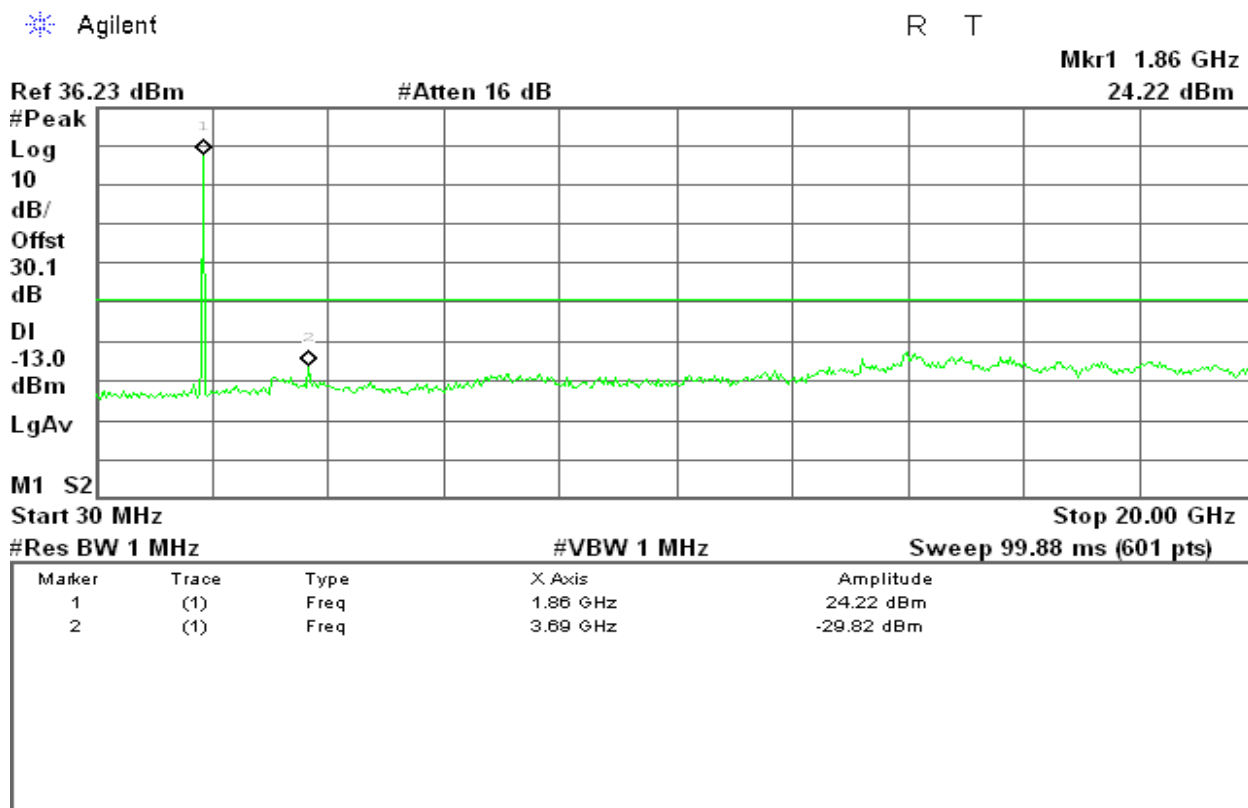


Figure 15-2: Out of Band emission at antenna terminals – HSDPA CH Mid

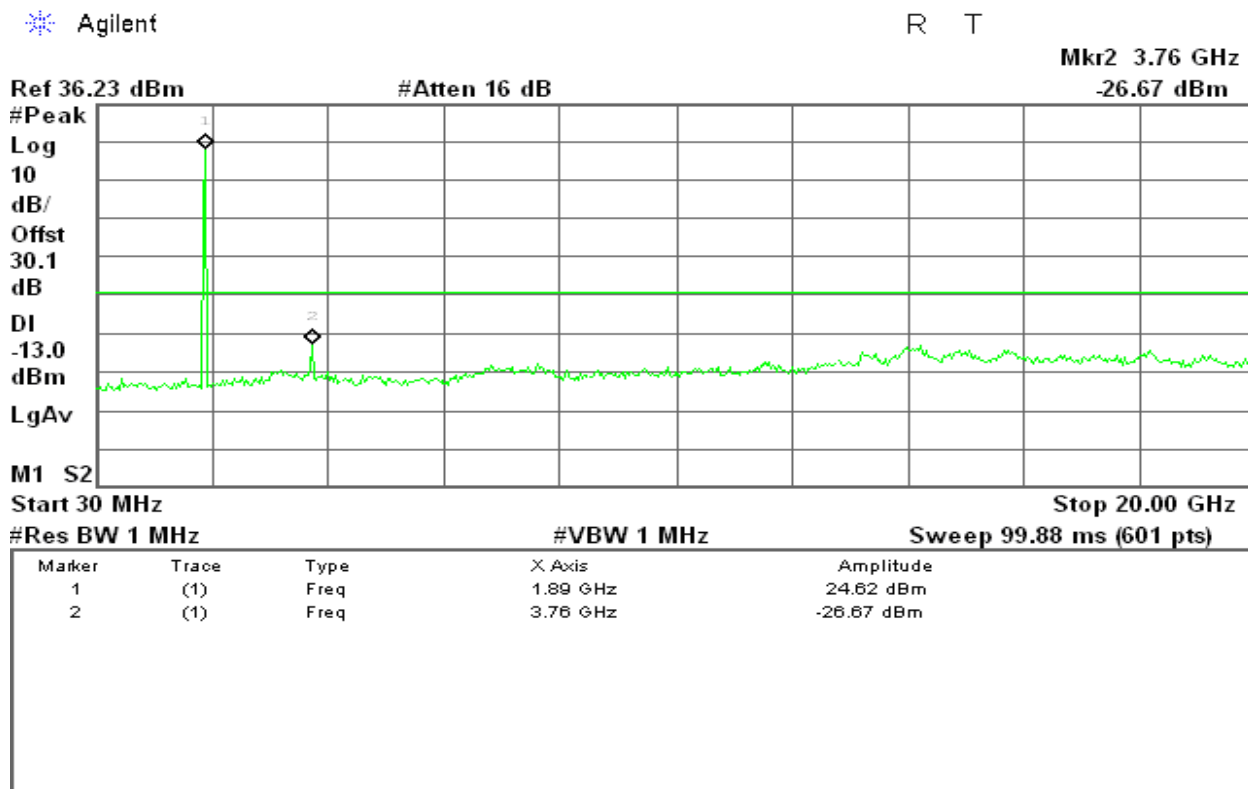
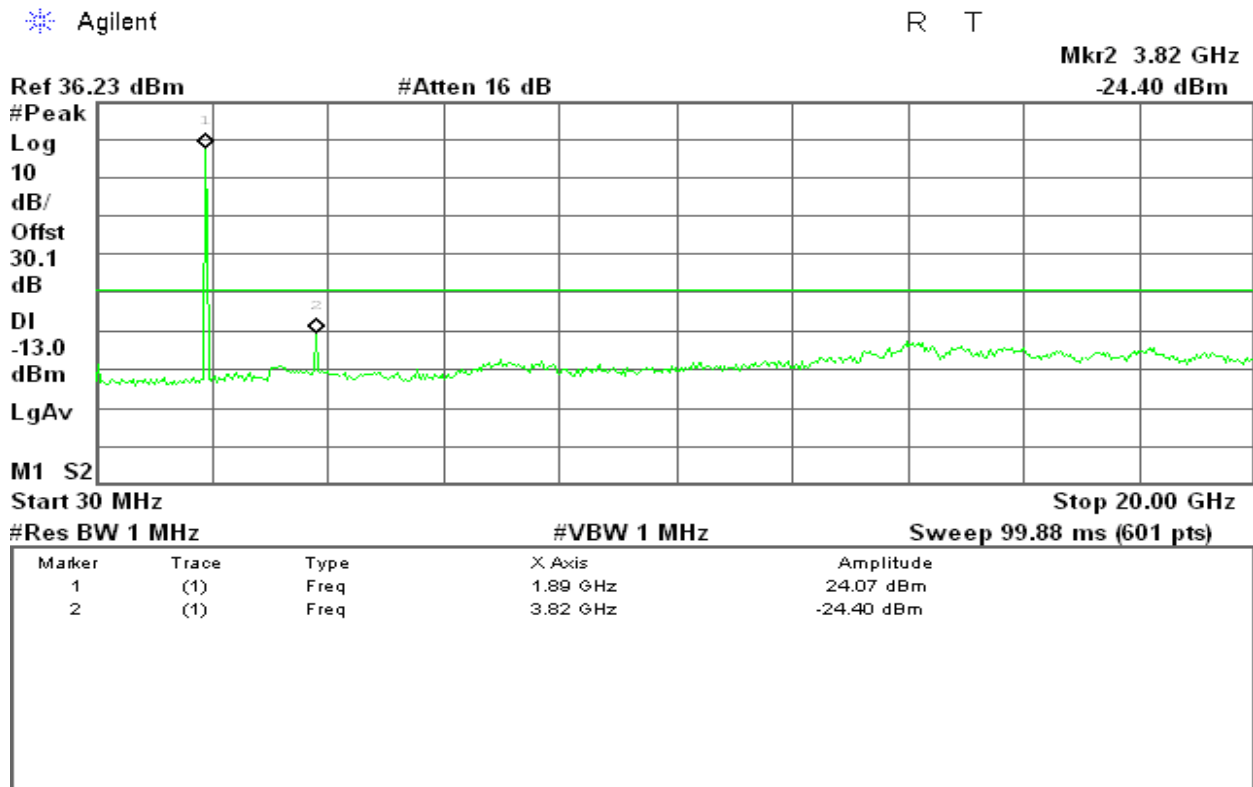




Figure 15-3: Out of Band emission at antenna terminals – HSDPA CH High



WCDMA / HSDPA Band V

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

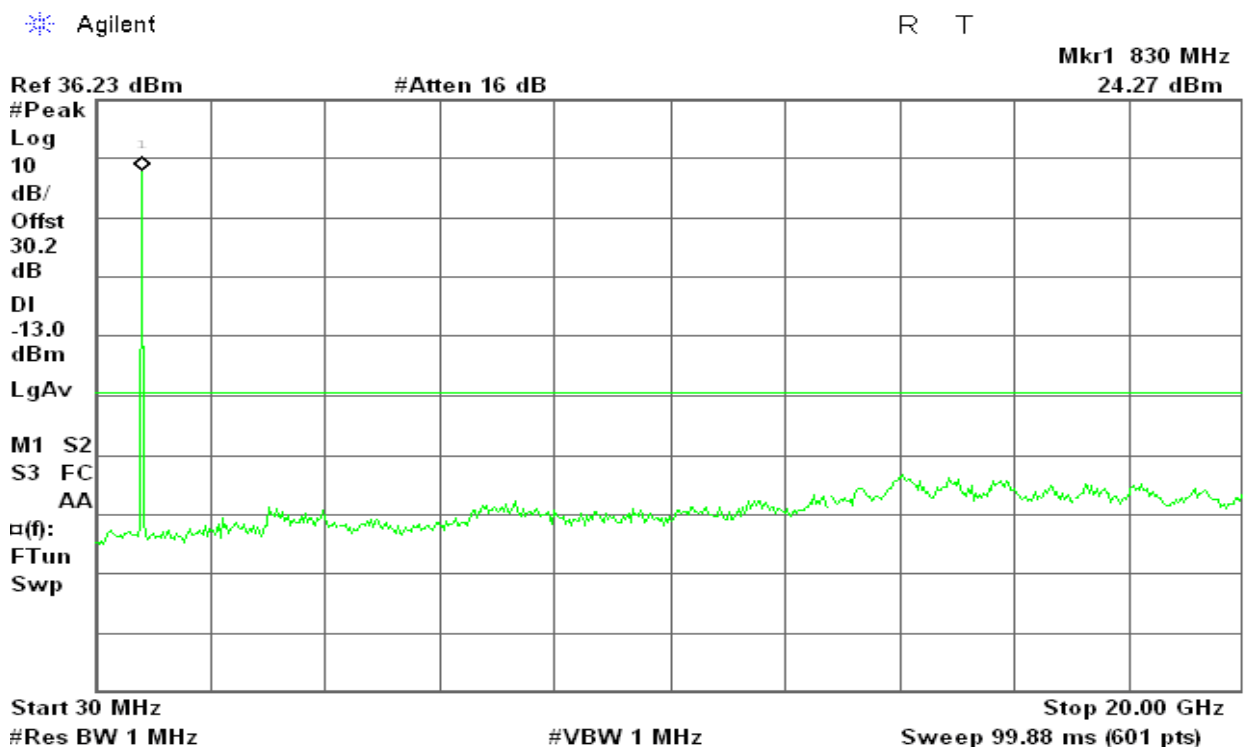




Figure 15-5: Out of Band emission at antenna terminals – HSDPA CH Mid

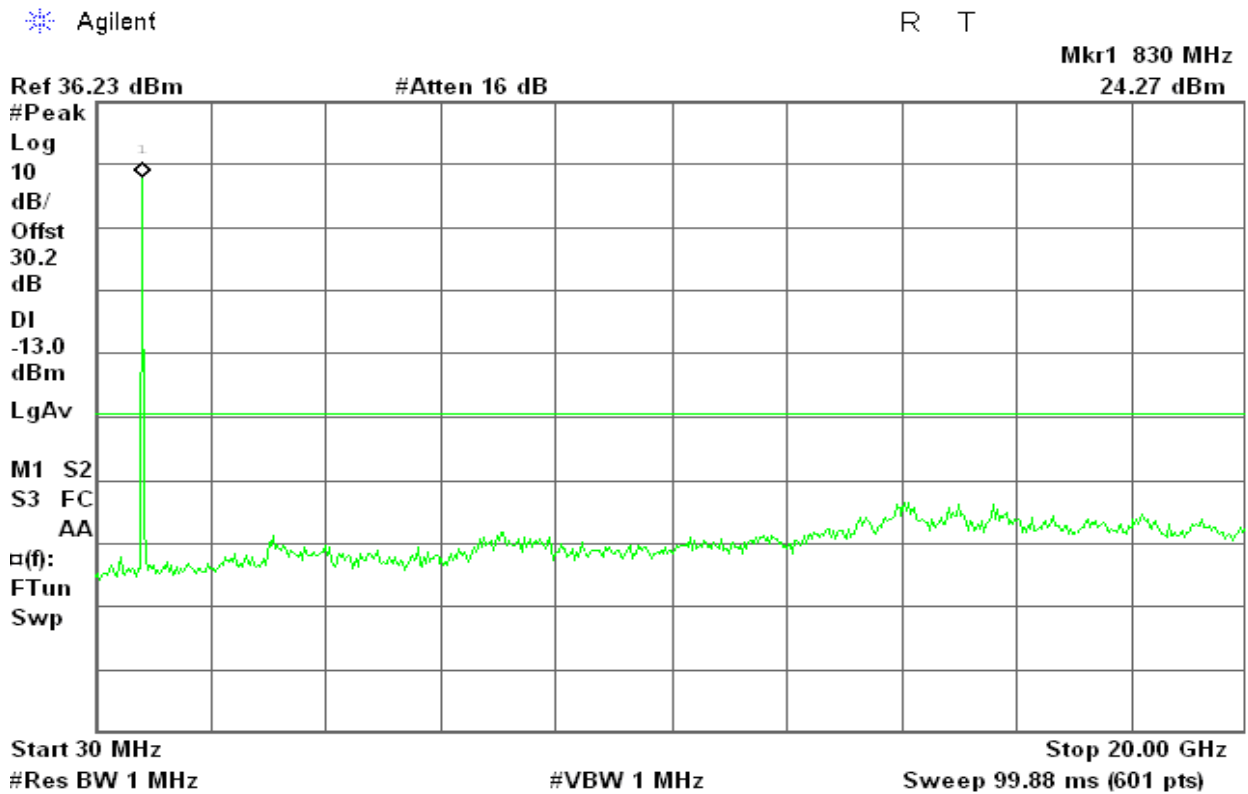
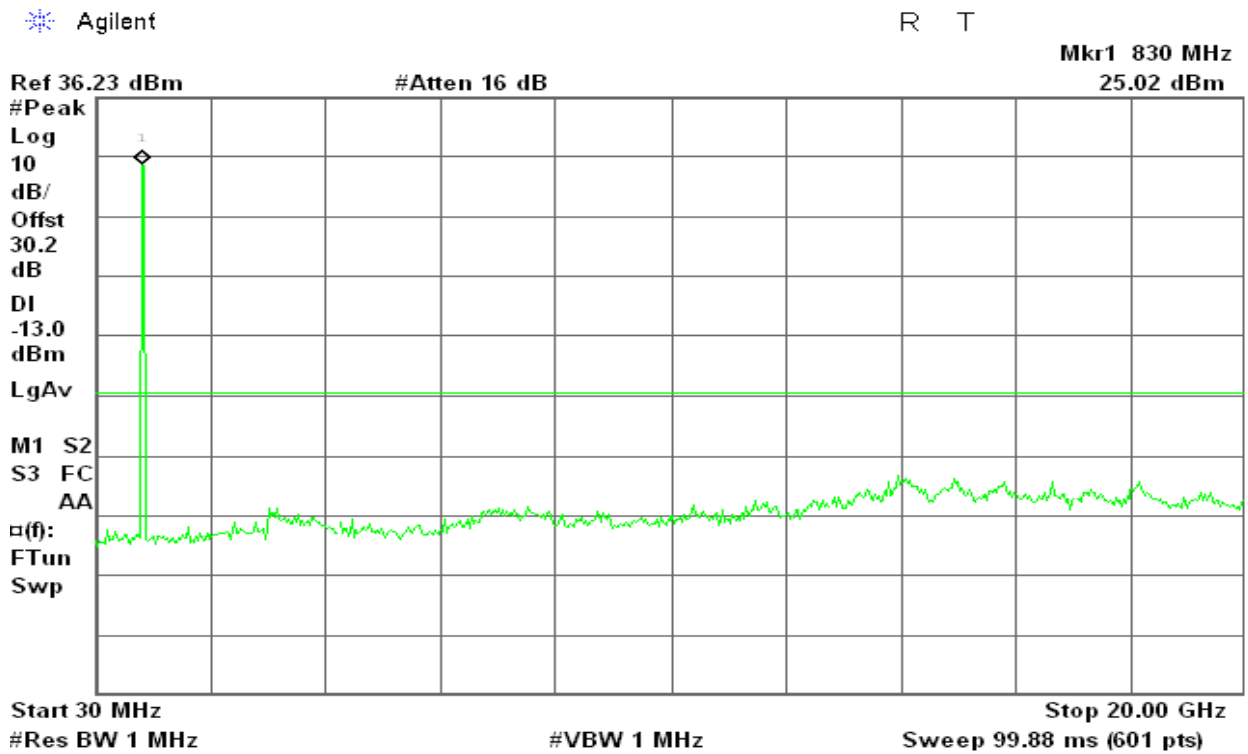


Figure 15-6: Out of Band emission at antenna terminals – HSDPA CH High





WCDMA / HSDPA Band II

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

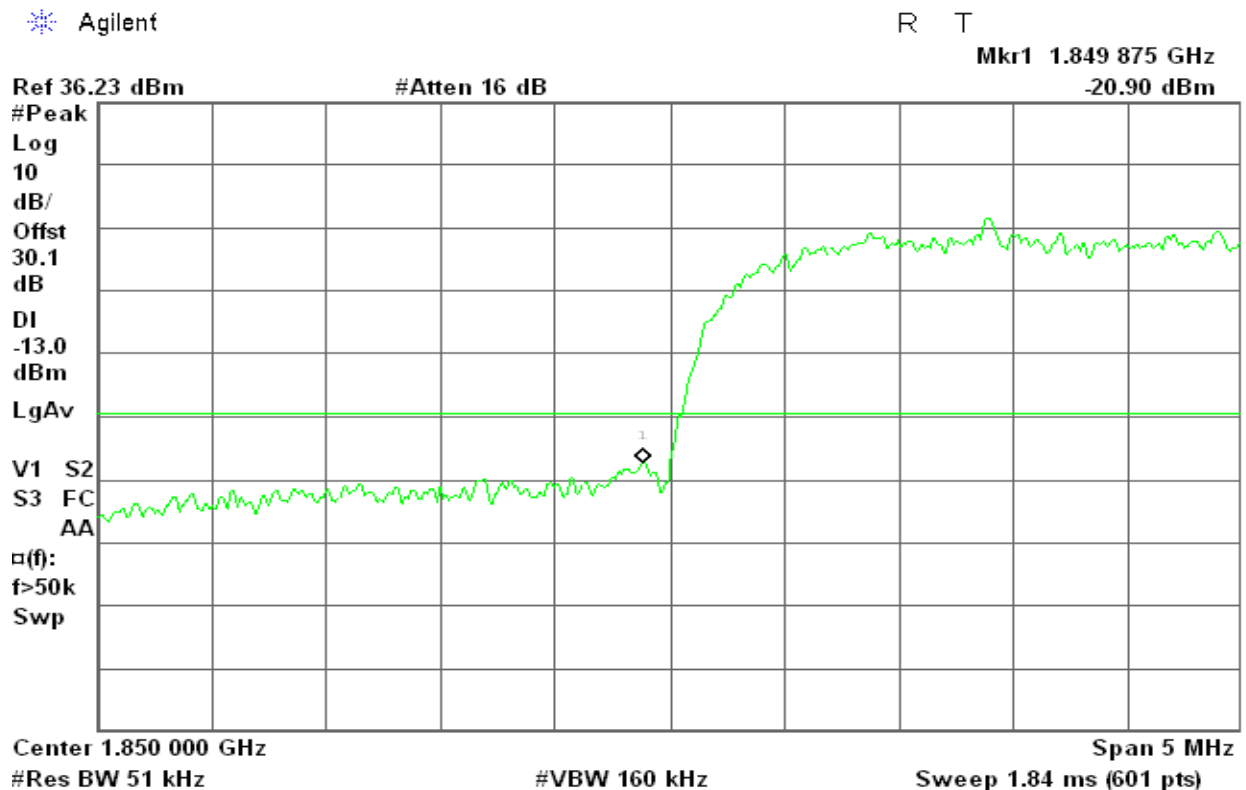
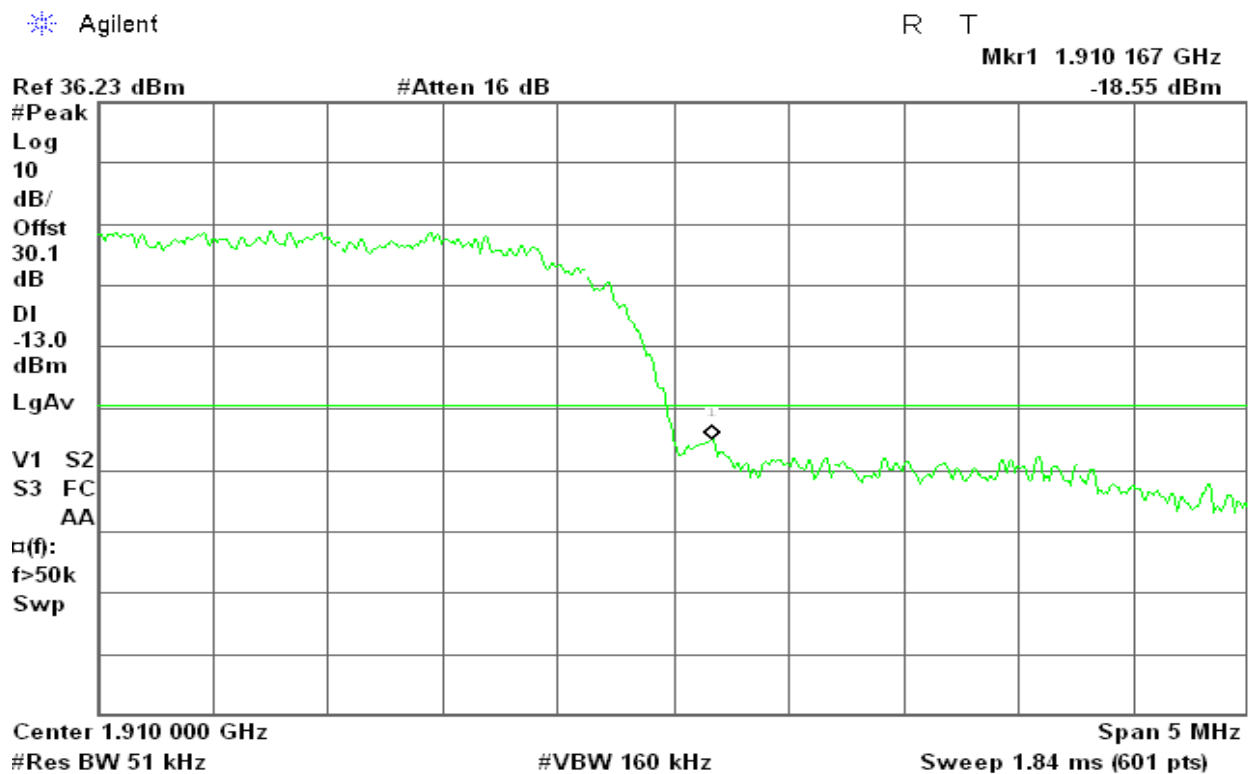


Figure 16-2: Band Edge emissions – HSDPA CH High





WCDMA / HSDPA Band V

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

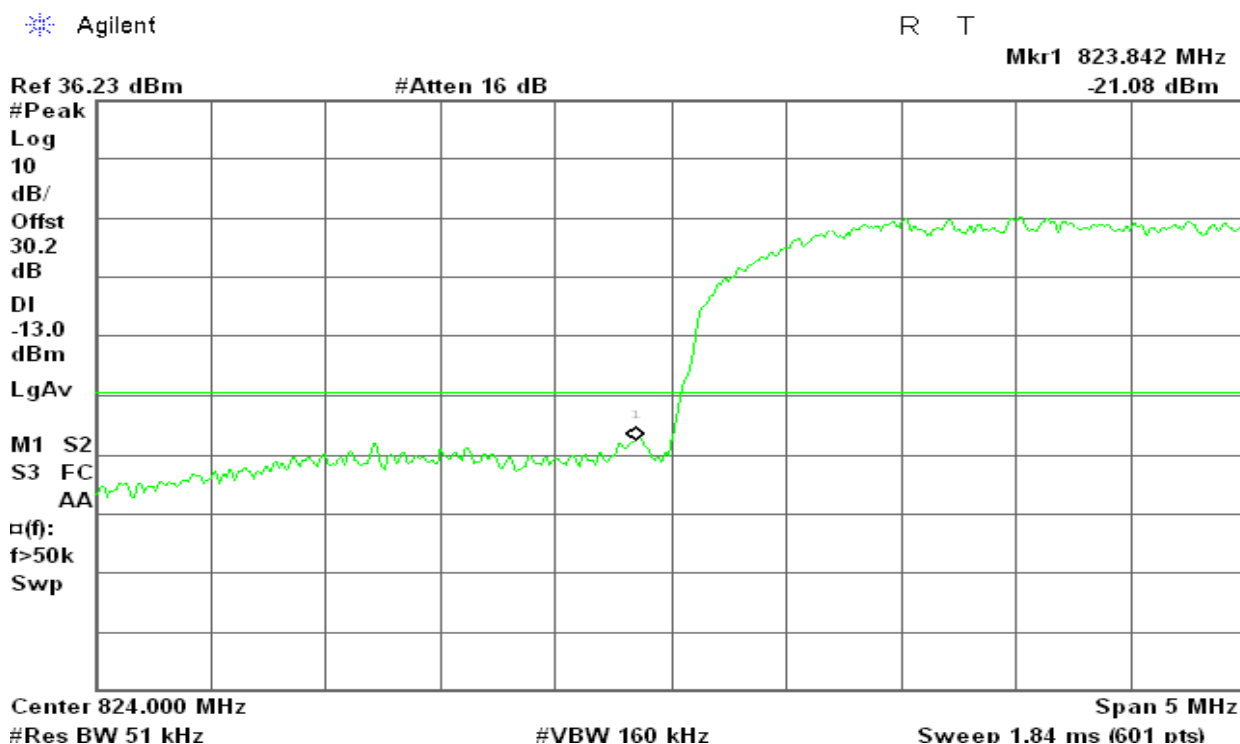
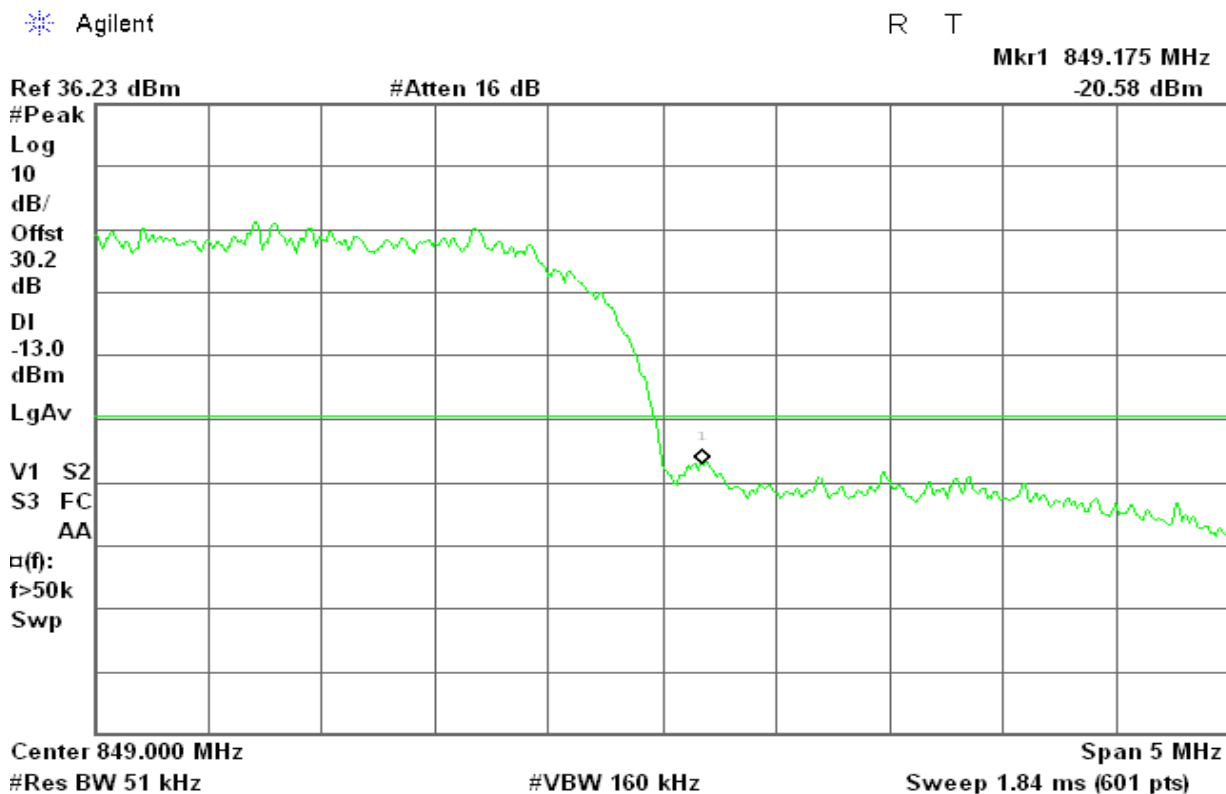


Figure 16-4: Band Edge emissions – HSDPA CH High



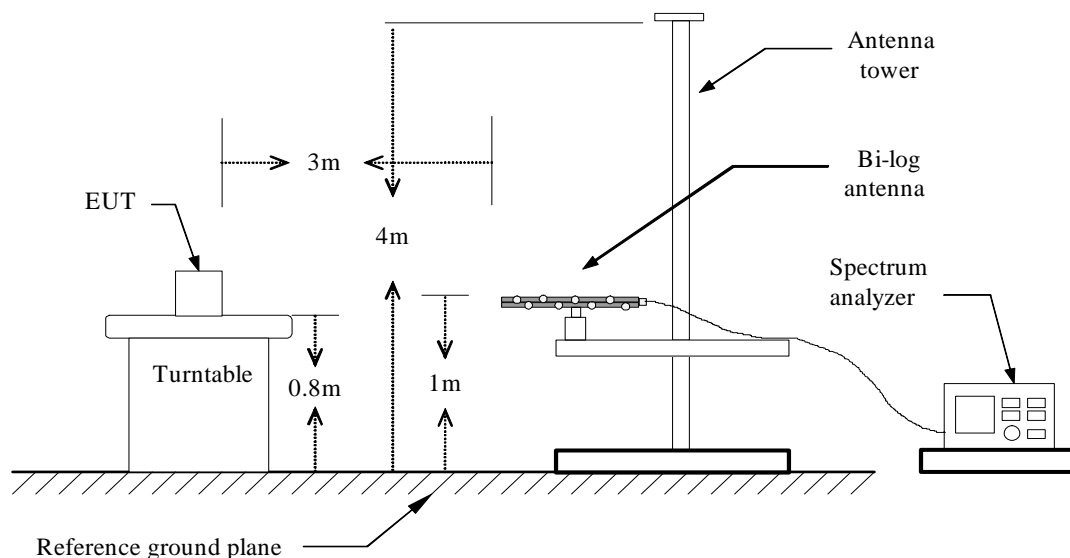
7.4 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

LIMIT

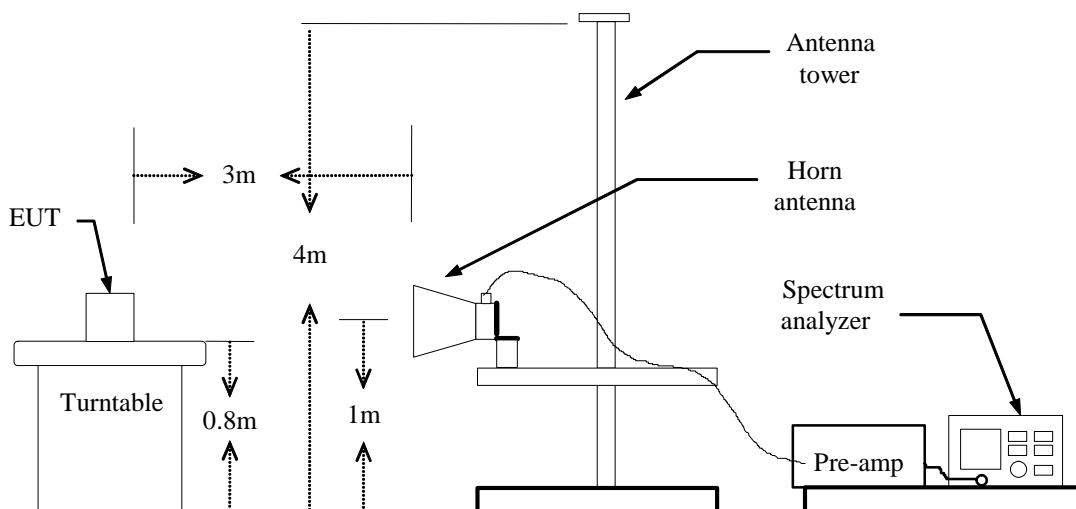
According to FCC §2.1053

Test Configuration

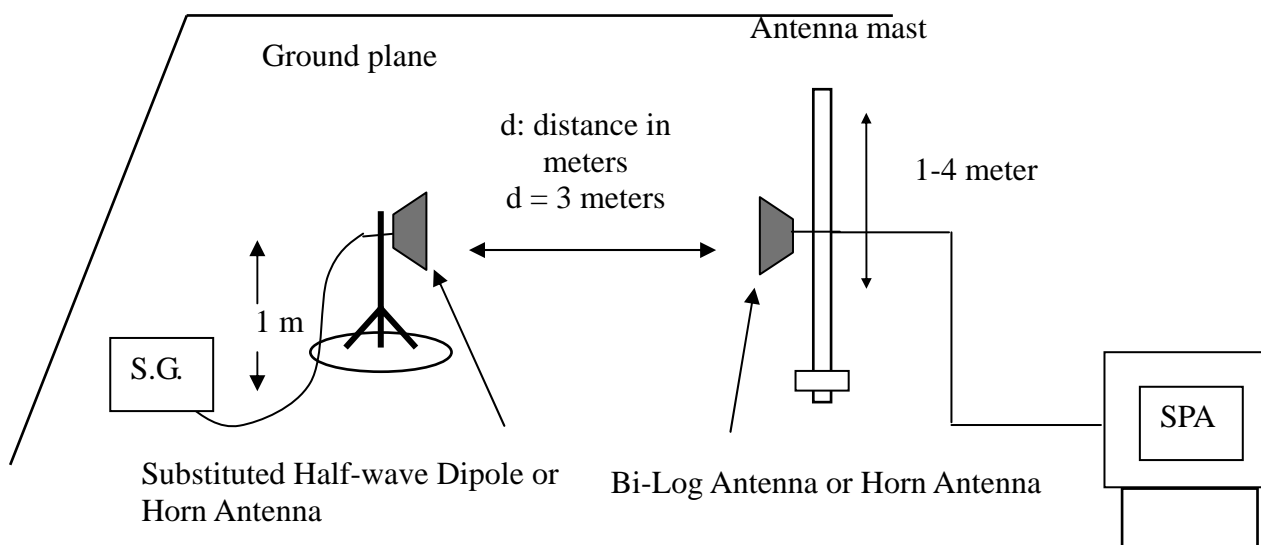
Below 1 GHz



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.

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

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

TEST RESULTS

Refer to the attached tabular data sheets.

**Radiated Spurious Emission Measurement Result / Below 1GHz****Operation Mode:** GPRS 850 / TX / CH 128**Test Date:** April 16, 2010**Temperature:** 23°C**Tested by:** jeff**Humidity:** 51 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
98.76	V	-46.52	-17.68	-64.20	-13.00	-51.20
241.88	V	-48.76	-14.02	-62.78	-13.00	-49.78
262.91	V	-47.33	-13.71	-61.04	-13.00	-48.04
400.33	V	-47.92	-11.22	-59.14	-13.00	-46.14
498.76	V	-53.04	-8.38	-61.42	-13.00	-48.42
698.65	V	-58.77	-6.25	-65.02	-13.00	-52.02
98.72	H	-46.68	-17.49	-64.17	-13.00	-51.17
121.33	H	-54.32	-13.57	-67.89	-13.00	-54.89
264.55	H	-52.11	-14.06	-66.17	-13.00	-53.17
409.73	H	-53.29	-10.59	-63.88	-13.00	-50.88
500.04	H	-59.84	-8.27	-68.11	-13.00	-55.11
698.75	H	-57.99	-6.18	-64.17	-13.00	-51.17

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:** April 16, 2010**Temperature:** 23°C**Tested by:** jeff**Humidity:** 51 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
131.26	V	-45.21	-12.34	-57.55	-13.00	-44.55
264.58	V	-48.79	-13.71	-62.50	-13.00	-49.50
401.33	V	-45.30	-11.17	-56.47	-13.00	-43.47
697.85	V	-57.94	-6.25	-64.19	-13.00	-51.19
798.33	V	-58.24	-4.98	-63.22	-13.00	-50.22
966.52	V	-61.35	-3.03	-64.38	-13.00	-51.38
129.98	H	-45.99	-13.66	-59.65	-13.00	-46.65
264.55	H	-53.01	-14.06	-67.07	-13.00	-54.07
399.78	H	-53.21	-10.96	-64.17	-13.00	-51.17
451.32	H	-54.37	-9.64	-64.01	-13.00	-51.01
697.79	H	-57.49	-6.18	-63.67	-13.00	-50.67
966.34	H	-59.88	-3.10	-62.98	-13.00	-49.98

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:** April 16, 2010**Temperature:** 23°C**Tested by:** jeff**Humidity:** 51 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
161.35	V	-51.02	-13.84	-64.86	-13.00	-51.86
262.58	V	-47.89	-13.71	-61.60	-13.00	-48.60
399.74	V	-47.25	-11.17	-58.42	-13.00	-45.42
498.01	V	-54.72	-8.40	-63.12	-13.00	-50.12
695.89	V	-58.49	-6.25	-64.74	-13.00	-51.74
799.34	V	-60.77	-4.98	-65.75	-13.00	-52.75
119.56	H	-55.68	-13.90	-69.58	-13.00	-56.58
161.58	H	-48.24	-14.15	-62.39	-13.00	-49.39
263.79	H	-52.43	-14.06	-66.49	-13.00	-53.49
400.16	H	-51.20	-10.96	-62.16	-13.00	-49.16
498.70	H	-59.91	-8.28	-68.19	-13.00	-55.19
695.42	H	-57.43	-6.18	-63.61	-13.00	-50.61

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 1900 / TX / CH 512**Test Date:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
134.64	V	-43.67	-12.75	-56.42	-13.00	-43.42
227.90	V	-40.99	-14.56	-55.55	-13.00	-42.55
400.31	V	-41.35	-11.22	-52.57	-13.00	-39.57
500.76	V	-49.89	-8.38	-58.27	-13.00	-45.27
697.55	V	-54.67	-6.25	-60.92	-13.00	-47.92
801.23	V	-52.27	-4.97	-57.24	-13.00	-44.24
102.56	H	-35.46	-16.71	-52.17	-13.00	-39.17
194.33	H	-42.50	-13.34	-55.84	-13.00	-42.84
400.16	H	-46.86	-10.96	-57.82	-13.00	-44.82
460.57	H	-51.34	-9.30	-60.64	-13.00	-47.64
724.99	H	-54.06	-6.03	-60.09	-13.00	-47.09
801.56	H	-55.72	-4.87	-60.59	-13.00	-47.59

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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
42.86	V	-47.56	-12.36	-59.92	-13.00	-46.92
135.88	V	-43.28	-12.84	-56.12	-13.00	-43.12
229.75	V	-39.76	-14.56	-54.32	-13.00	-41.32
400.28	V	-41.28	-11.22	-52.50	-13.00	-39.50
500.16	V	-49.95	-8.38	-58.33	-13.00	-45.33
799.86	V	-51.37	-4.97	-56.34	-13.00	-43.34
117.49	H	-37.89	-13.90	-51.79	-13.00	-38.79
191.62	H	-42.57	-13.48	-56.05	-13.00	-43.05
400.86	H	-46.91	-10.87	-57.78	-13.00	-44.78
501.37	H	-53.88	-8.27	-62.15	-13.00	-49.15
721.46	H	-54.67	-6.14	-60.81	-13.00	-47.81
800.19	H	-55.80	-4.88	-60.68	-13.00	-47.68

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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
135.64	V	-41.33	-12.84	-54.17	-13.00	-41.17
205.89	V	-41.02	-14.98	-56.00	-13.00	-43.00
401.67	V	-41.97	-11.17	-53.14	-13.00	-40.14
500.97	V	-49.82	-8.38	-58.20	-13.00	-45.20
695.82	V	-55.46	-6.25	-61.71	-13.00	-48.71
801.56	V	52.34	-4.92	47.42	-13.00	60.42
116.35	H	-38.79	-14.09	-52.88	-13.00	-39.88
194.67	H	-42.43	-13.34	-55.77	-13.00	-42.77
400.68	H	-46.69	-10.96	-57.65	-13.00	-44.65
500.34	H	-53.99	-8.27	-62.26	-13.00	-49.26
698.75	H	-52.74	-6.18	-58.92	-13.00	-45.92
799.68	H	-54.96	-4.89	-59.85	-13.00	-46.85

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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
100.36	V	-46.58	-17.68	-64.26	-13.00	-51.26
240.58	V	-49.76	-14.01	-63.77	-13.00	-50.77
264.52	V	-47.89	-13.71	-61.60	-13.00	-48.60
399.75	V	-46.95	-11.17	-58.12	-13.00	-45.12
499.21	V	-54.28	-8.38	-62.66	-13.00	-49.66
695.76	V	-58.43	-6.25	-64.68	-13.00	-51.68
100.46	H	-45.98	-17.49	-63.47	-13.00	-50.47
264.59	H	-52.04	-14.06	-66.10	-13.00	-53.10
400.28	H	-52.64	-10.96	-63.60	-13.00	-50.60
511.49	H	-58.73	-8.20	-66.93	-13.00	-53.93
695.73	H	-57.75	-6.18	-63.93	-13.00	-50.93
742.35	H	-62.33	-5.57	-67.90	-13.00	-54.90

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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
131.26	V	-45.88	-12.34	-58.22	-13.00	-45.22
262.58	V	-48.75	-13.71	-62.46	-13.00	-49.46
400.29	V	-46.35	-11.22	-57.57	-13.00	-44.57
498.34	V	-54.39	-8.40	-62.79	-13.00	-49.79
698.76	V	-58.79	-6.25	-65.04	-13.00	-52.04
966.53	V	-60.33	-3.05	-63.38	-13.00	-50.38
131.55	H	-45.83	-13.66	-59.49	-13.00	-46.49
264.91	H	-52.14	-14.06	-66.20	-13.00	-53.20
400.31	H	-51.65	-10.96	-62.61	-13.00	-49.61
451.89	H	-55.73	-9.64	-65.37	-13.00	-52.37
695.67	H	-57.49	-6.18	-63.67	-13.00	-50.67
966.38	H	-61.25	-3.10	-64.35	-13.00	-51.35

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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
262.59	V	-48.37	-13.71	-62.08	-13.00	-49.08
400.36	V	-48.91	-11.22	-60.13	-13.00	-47.13
497.81	V	-54.34	-8.40	-62.74	-13.00	-49.74
533.29	V	-57.46	-8.01	-65.47	-13.00	-52.47
695.74	V	-58.88	-6.25	-65.13	-13.00	-52.13
797.83	V	-60.34	-4.98	-65.32	-13.00	-52.32
115.67	H	-55.43	-14.27	-69.70	-13.00	-56.70
161.34	H	-48.21	-14.15	-62.36	-13.00	-49.36
262.91	H	-51.62	-14.06	-65.68	-13.00	-52.68
400.33	H	-51.37	-10.91	-62.28	-13.00	-49.28
497.82	H	-59.86	-8.28	-68.14	-13.00	-55.14
695.67	H	-58.70	-6.18	-64.88	-13.00	-51.88

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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
86.59	V	-36.64	-19.92	-56.56	-13.00	-43.56
133.25	V	-43.28	-12.67	-55.95	-13.00	-42.95
215.43	V	-39.75	-15.47	-55.22	-13.00	-42.22
400.58	V	-42.51	-11.22	-53.73	-13.00	-40.73
500.82	V	-49.70	-8.38	-58.08	-13.00	-45.08
800.13	V	-50.82	-4.97	-55.79	-13.00	-42.79
32.64	H	-37.15	-15.23	-52.38	-13.00	-39.38
115.48	H	-38.54	-14.27	-52.81	-13.00	-39.81
400.56	H	-47.90	-10.96	-58.86	-13.00	-45.86
500.23	H	-53.22	-8.27	-61.49	-13.00	-48.49
697.45	H	-54.82	-6.18	-61.00	-13.00	-48.00
800.33	H	-53.64	-4.90	-58.54	-13.00	-45.54

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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
140.35	V	-41.82	-13.09	-54.91	-13.00	-41.91
241.52	V	-41.33	-14.02	-55.35	-13.00	-42.35
400.82	V	-42.01	-11.22	-53.23	-13.00	-40.23
499.85	V	-49.67	-8.38	-58.05	-13.00	-45.05
695.34	V	-55.34	-6.25	-61.59	-13.00	-48.59
797.34	V	-51.89	-4.98	-56.87	-13.00	-43.87
117.64	H	-36.67	-13.90	-50.57	-13.00	-37.57
191.64	H	-42.56	-13.48	-56.04	-13.00	-43.04
400.35	H	-46.57	-10.87	-57.44	-13.00	-44.44
499.61	H	-53.89	-8.27	-62.16	-13.00	-49.16
695.82	H	-54.61	-6.18	-60.79	-13.00	-47.79
799.31	H	-54.34	-4.90	-59.24	-13.00	-46.24

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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
137.68	V	-43.25	-13.00	-56.25	-13.00	-43.25
231.56	V	-41.27	-14.43	-55.70	-13.00	-42.70
400.33	V	-42.65	-11.17	-53.82	-13.00	-40.82
452.19	V	-48.97	-9.76	-58.73	-13.00	-45.73
500.49	V	-50.31	-8.38	-58.69	-13.00	-45.69
797.86	V	-50.42	-4.98	-55.40	-13.00	-42.40
117.46	H	-39.88	-13.90	-53.78	-13.00	-40.78
193.26	H	-44.67	-13.20	-57.87	-13.00	-44.87
287.46	H	-42.57	-12.87	-55.44	-13.00	-42.44
400.58	H	-47.61	-10.96	-58.57	-13.00	-45.57
697.85	H	-52.37	-6.18	-58.55	-13.00	-45.55
800.16	H	-55.82	-4.88	-60.70	-13.00	-47.70

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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
138.67	V	-42.88	-13.09	-55.97	-13.00	-42.97
192.62	V	-42.15	-14.06	-56.21	-13.00	-43.21
241.06	V	-43.29	-14.02	-57.31	-13.00	-44.31
399.64	V	-40.85	-11.22	-52.07	-13.00	-39.07
500.72	V	-49.67	-8.38	-58.05	-13.00	-45.05
800.94	V	-51.07	-4.97	-56.04	-13.00	-43.04
118.53	H	-41.67	-13.72	-55.39	-13.00	-42.39
191.37	H	-42.31	-13.48	-55.79	-13.00	-42.79
299.67	H	-48.01	-13.86	-61.87	-13.00	-48.87
400.37	H	-46.89	-10.96	-57.85	-13.00	-44.85
721.05	H	-54.90	-6.14	-61.04	-13.00	-48.04
799.68	H	-54.33	-4.90	-59.23	-13.00	-46.23

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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
138.67	V	-42.56	-13.09	-55.65	-13.00	-42.65
240.19	V	-42.31	-14.01	-56.32	-13.00	-43.32
399.75	V	-41.85	-11.17	-53.02	-13.00	-40.02
500.42	V	-49.89	-8.38	-58.27	-13.00	-45.27
718.64	V	-54.67	-5.85	-60.52	-13.00	-47.52
798.89	V	-51.37	-4.97	-56.34	-13.00	-43.34
115.37	H	-40.89	-14.27	-55.16	-13.00	-42.16
192.67	H	-41.67	-13.34	-55.01	-13.00	-42.01
399.64	H	-46.52	-10.91	-57.43	-13.00	-44.43
671.55	H	-54.76	-6.27	-61.03	-13.00	-48.03
720.45	H	-55.48	-6.16	-61.64	-13.00	-48.64
798.89	H	-55.17	-4.90	-60.07	-13.00	-47.07

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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
136.56	V	-12.52	-12.92	-25.44	-13.00	-12.44
192.86	V	-41.67	-14.06	-55.73	-13.00	-42.73
215.42	V	-41.33	-15.47	-56.80	-13.00	-43.80
400.78	V	-42.61	-11.22	-53.83	-13.00	-40.83
500.49	V	-49.72	-8.38	-58.10	-13.00	-45.10
800.13	V	-51.78	-4.97	-56.75	-13.00	-43.75
113.26	H	-40.33	-14.65	-54.98	-13.00	-41.98
192.46	H	-42.78	-13.34	-56.12	-13.00	-43.12
281.40	H	-47.91	-13.21	-61.12	-13.00	-48.12
400.17	H	-46.79	-10.96	-57.75	-13.00	-44.75
718.45	H	-54.31	-6.16	-60.47	-13.00	-47.47
799.06	H	-53.29	-4.89	-58.18	-13.00	-45.18

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.



Operation Mode: WCDMA Band V / TX / CH 4132
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
137.49	V	-56.89	-13.00	-69.89	-13.00	-56.89
240.15	V	-47.63	-14.01	-61.64	-13.00	-48.64
264.28	V	-50.42	-13.71	-64.13	-13.00	-51.13
400.72	V	-47.92	-11.22	-59.14	-13.00	-46.14
497.86	V	-56.40	-8.40	-64.80	-13.00	-51.80
671.43	V	-61.85	-6.49	-68.34	-13.00	-55.34
197.68	H	-56.27	-12.66	-68.93	-13.00	-55.93
240.18	H	-51.73	-14.21	-65.94	-13.00	-52.94
275.64	H	-54.60	-12.98	-67.58	-13.00	-54.58
400.19	H	-52.34	-10.96	-63.30	-13.00	-50.30
271.48	H	-59.78	-6.27	-66.05	-13.00	-53.05
720.18	H	-59.73	-6.16	-65.89	-13.00	-52.89

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 4182
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
166.34	V	-54.67	-13.97	-68.64	-13.00	-55.64
241.35	V	-47.52	-14.01	-61.53	-13.00	-48.53
399.78	V	-48.67	-11.17	-59.84	-13.00	-46.84
497.65	V	-55.34	-8.40	-63.74	-13.00	-50.74
671.48	V	-59.82	-6.49	-66.31	-13.00	-53.31
720.33	V	-60.11	-5.85	-65.96	-13.00	-52.96
240.11	H	-52.84	-14.21	-67.05	-13.00	-54.05
262.59	H	53.67	-14.06	39.61	-13.00	52.61
400.38	H	-51.27	-10.96	-62.23	-13.00	-49.23
500.19	H	-59.80	-8.27	-68.07	-13.00	-55.07
671.48	H	-59.76	-6.27	-66.03	-13.00	-53.03
720.33	H	-58.73	-6.16	-64.89	-13.00	-51.89

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
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
166.56	V	-53.29	-13.97	-67.26	-13.00	-54.26
240.18	V	-46.75	-14.01	-60.76	-13.00	-47.76
400.59	V	-48.72	-11.22	-59.94	-13.00	-46.94
497.85	V	-56.17	-8.40	-64.57	-13.00	-51.57
671.45	V	-59.72	-6.49	-66.21	-13.00	-53.21
720.16	V	-60.49	-5.85	-66.34	-13.00	-53.34
240.16	H	-52.37	-14.21	-66.58	-13.00	-53.58
262.58	H	-53.67	-14.06	-67.73	-13.00	-54.73
400.19	H	-51.88	-10.96	-62.84	-13.00	-49.84
500.72	H	-60.21	-8.27	-68.48	-13.00	-55.48
671.48	H	-60.23	-6.27	-66.50	-13.00	-53.50
720.18	H	-58.74	-6.16	-64.90	-13.00	-51.90

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
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
137.85	V	-42.86	-13.00	-55.86	-13.00	-42.86
215.04	V	-39.87	-15.47	-55.34	-13.00	-42.34
262.57	V	-44.27	-13.71	-57.98	-13.00	-44.98
399.76	V	-41.89	-11.17	-53.06	-13.00	-40.06
500.47	V	-49.57	-8.38	-57.95	-13.00	-44.95
796.59	V	-50.37	-4.98	-55.35	-13.00	-42.35
114.53	H	-40.82	-14.46	-55.28	-13.00	-42.28
192.67	H	-43.29	-13.34	-56.63	-13.00	-43.63
400.67	H	-46.95	-10.96	-57.91	-13.00	-44.91
500.49	H	-53.17	-8.27	-61.44	-13.00	-48.44
721.46	H	-54.82	-6.14	-60.96	-13.00	-47.96
800.34	H	-54.02	-4.88	-58.90	-13.00	-45.90

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
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
137.88	V	-42.58	-13.00	-55.58	-13.00	-42.58
215.40	V	-40.67	-15.47	-56.14	-13.00	-43.14
239.67	V	-42.33	-14.02	-56.35	-13.00	-43.35
399.82	V	-42.59	-11.17	-53.76	-13.00	-40.76
498.70	V	-49.70	-8.38	-58.08	-13.00	-45.08
798.89	V	-51.77	-4.97	-56.74	-13.00	-43.74
114.37	H	-41.27	-14.46	-55.73	-13.00	-42.73
192.67	H	-41.33	-13.34	-54.67	-13.00	-41.67
275.48	H	-46.58	-12.98	-59.56	-13.00	-46.56
400.35	H	-47.90	-10.91	-58.81	-13.00	-45.81
721.49	H	-52.74	-6.14	-58.88	-13.00	-45.88
800.67	H	-54.61	-4.90	-59.51	-13.00	-46.51

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
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
136.59	V	-42.50	-12.92	-55.42	-13.00	-42.42
195.70	V	-42.17	-13.78	-55.95	-13.00	-42.95
238.96	V	-42.16	-14.01	-56.17	-13.00	-43.17
400.31	V	-43.28	-11.22	-54.50	-13.00	-41.50
499.88	V	-49.75	-8.38	-58.13	-13.00	-45.13
800.45	V	-50.89	-4.97	-55.86	-13.00	-42.86
115.64	H	-41.60	-14.27	-55.87	-13.00	-42.87
191.26	H	-42.52	-13.34	-55.86	-13.00	-42.86
400.34	H	-48.37	-10.91	-59.28	-13.00	-46.28
500.67	H	-52.14	-8.27	-60.41	-13.00	-47.41
720.13	H	-54.91	-6.16	-61.07	-13.00	-48.07
799.66	H	-54.73	-4.90	-59.63	-13.00	-46.63

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
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
174.34	V	-52.69	-14.20	-66.89	-13.00	-53.89
238.69	V	-48.25	-14.01	-62.26	-13.00	-49.26
262.54	V	-50.77	-13.71	-64.48	-13.00	-51.48
400.31	V	-48.37	-11.17	-59.54	-13.00	-46.54
497.58	V	-56.80	-8.40	-65.20	-13.00	-52.20
720.18	V	-61.27	-5.85	-67.12	-13.00	-54.12
238.89	H	-52.99	-14.21	-67.20	-13.00	-54.20
275.44	H	-54.70	-12.98	-67.68	-13.00	-54.68
400.35	H	-52.37	-10.96	-63.33	-13.00	-50.33
499.68	H	-60.78	-8.28	-69.06	-13.00	-56.06
671.25	H	-60.88	-6.27	-67.15	-13.00	-54.15
720.15	H	-58.91	-6.16	-65.07	-13.00	-52.07

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 4182
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
240.16	V	-46.85	-14.01	-60.86	-13.00	-47.86
263.58	V	-49.67	-13.71	-63.38	-13.00	-50.38
400.38	V	-46.25	-11.17	-57.42	-13.00	-44.42
497.86	V	-56.34	-8.40	-64.74	-13.00	-51.74
671.29	V	-60.27	-6.49	-66.76	-13.00	-53.76
720.33	V	-60.94	-5.85	-66.79	-13.00	-53.79
205.67	H	-52.30	-13.41	-65.71	-13.00	-52.71
240.59	H	-52.89	-14.21	-67.10	-13.00	-54.10
262.54	H	-52.64	-14.06	-66.70	-13.00	-53.70
400.37	H	-51.73	-10.96	-62.69	-13.00	-49.69
671.02	H	-59.67	-6.27	-65.94	-13.00	-52.94
720.51	H	-58.06	-6.16	-64.22	-13.00	-51.22

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
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
239.64	V	-46.58	-14.02	-60.60	-13.00	-47.60
264.52	V	-49.67	-13.71	-63.38	-13.00	-50.38
399.60	V	-48.58	-11.17	-59.75	-13.00	-46.75
499.07	V	-56.42	-8.38	-64.80	-13.00	-51.80
671.29	V	-60.33	-6.49	-66.82	-13.00	-53.82
797.64	V	-61.24	-4.98	-66.22	-13.00	-53.22
121.43	H	-58.27	-13.57	-71.84	-13.00	-58.84
236.59	H	-52.61	-14.21	-66.82	-13.00	-53.82
262.47	H	-53.34	-14.06	-67.40	-13.00	-54.40
400.57	H	-51.94	-10.96	-62.90	-13.00	-49.90
671.25	H	-59.76	-6.27	-66.03	-13.00	-53.03
720.33	H	-59.95	-6.16	-66.11	-13.00	-53.11

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: WCDMA / HSUPA Band II /
TX / CH 9262
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
241.65	V	-45.67	-14.01	-59.68	-13.00	-46.68
262.53	V	-47.95	-13.71	-61.66	-13.00	-48.66
400.58	V	-46.53	-11.22	-57.75	-13.00	-44.75
500.26	V	-59.06	-8.38	-67.44	-13.00	-54.44
599.76	V	-60.17	-7.47	-67.64	-13.00	-54.64
695.28	V	-58.46	-6.25	-64.71	-13.00	-51.71
135.64	H	-54.27	-13.89	-68.16	-13.00	-55.16
240.57	H	-51.66	-14.21	-65.87	-13.00	-52.87
275.48	H	-53.92	-12.98	-66.90	-13.00	-53.90
399.76	H	-48.31	-10.91	-59.22	-13.00	-46.22
671.43	H	-58.76	-6.27	-65.03	-13.00	-52.03
720.50	H	-57.99	-6.16	-64.15	-13.00	-51.15

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 / HSUPA Band II /
TX / CH 9400
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
133.26	V	-55.94	-12.50	-68.44	-13.00	-55.44
166.52	V	-53.67	-13.97	-67.64	-13.00	-54.64
240.50	V	-45.82	-14.01	-59.83	-13.00	-46.83
277.49	V	-50.94	-12.25	-63.19	-13.00	-50.19
400.61	V	-44.78	-11.22	-56.00	-13.00	-43.00
499.61	V	-57.94	-8.40	-66.34	-13.00	-53.34
215.64	H	-56.27	-14.02	-70.29	-13.00	-57.29
240.33	H	-52.64	-14.21	-66.85	-13.00	-53.85
263.35	H	-54.11	-14.06	-68.17	-13.00	-55.17
400.52	H	-48.90	-10.91	-59.81	-13.00	-46.81
673.26	H	-58.67	-6.27	-64.94	-13.00	-51.94
722.19	H	-58.31	-6.16	-64.47	-13.00	-51.47

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:** GPRS 850 / TX / CH 128**Test Date:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1651.33	V	-57.94	0.69	-57.25	-13.00	-44.25
3294.67	V	-60.35	5.57	-54.78	-13.00	-41.78
N/A						
N/A						
2471.03	H	-60.12	3.78	-56.34	-13	-43.34
6515.78	H	-60.89	12.14	-48.75	-13	-35.75
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:** GPRS 850 / TX / CH 190**Test Date:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1671.53	V	-51.24	0.73	-50.51	-13.00	-37.51
6951.30	V	-61.37	13.76	-47.61	-13.00	-34.61
N/A						
N/A						
1670.25	H	-55.89	0.84	-55.05	-13.00	-42.05
6675.59	H	-61.57	12.80	-48.77	-13.00	-35.77
N/A						
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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1398.66	V	-58.79	0.05	-58.74	-13.00	-45.74
5688.75	V	-60.99	9.95	-51.04	-13.00	-38.04
N/A						
N/A						
1701.24	H	-52.46	0.90	-51.56	-13.00	-38.56
5241.36	H	-60.81	10.22	-50.59	-13.00	-37.59
N/A						
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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
5395.64	V	-60.85	9.86	-50.99	-13.00	-37.99
7133.34	V	-62.31	14.34	-47.97	-13.00	-34.97
N/A						
5437.58	H	-61.88	10.24	-51.64	-13.00	-38.64
7621.30	H	-62.04	16.14	-45.90	-13.00	-32.90
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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
5640.31	V	-58.77	9.94	-48.83	-13.00	-35.83
7348.57	V	-62.34	14.97	-47.37	-13.00	-34.37
N/A						
5640.82	H	-59.74	10.28	-49.46	-13.00	-36.46
6809.11	H	-61.33	13.34	-47.99	-13.00	-34.99
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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4761.53	V	-61.52	8.99	-52.53	-13.00	-39.53
7075.48	V	-61.88	14.17	-47.71	-13.00	-34.71
N/A						
5192.64	H	-60.97	10.22	-50.75	-13.00	-37.75
7033.26	H	-61.45	14.23	-47.22	-13.00	-34.22
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
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
2499.51	V	-59.88	3.61	-56.27	-13.00	-43.27
7796.56	V	-61.52	16.19	-45.33	-13.00	-32.33
N/A						
2498.34	H	-61.47	3.91	-57.56	-13.00	-44.56
7399.12	H	-61.38	15.48	-45.90	-13.00	-32.90
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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1671.53	V	-55.61	0.73	-54.88	-13.00	-41.88
2514.34	V	-56.72	3.66	-53.06	-13.00	-40.06
N/A						
4954.67	H	-60.89	10.14	-50.75	-13.00	-37.75
7377.48	H	-61.27	15.41	-45.86	-13.00	-32.86
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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
1699.67	V	-54.61	0.79	-53.82	-13.00	-40.82
2546.33	V	-55.38	3.77	-51.61	-13.00	-38.61
N/A						
1700.25	H	-56.72	0.90	-55.82	-13.00	-42.82
4597.89	H	-61.89	9.69	-52.20	-13.00	-39.20
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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
5010.67	V	-61.78	9.69	-52.09	-13.00	-39.09
7782.36	V	-61.94	16.15	-45.79	-13.00	-32.79
N/A						
5437.59	H	-60.33	10.24	-50.09	-13.00	-37.09
6641.57	H	-61.20	12.66	-48.54	-13.00	-35.54
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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4744.56	V	-61.98	8.93	-53.05	-13.00	-40.05
6305.56	V	-60.49	11.26	-49.23	-13.00	-36.23
N/A						
5640.24	H	-60.51	10.28	-50.23	-13.00	-37.23
7215.67	H	-61.88	14.85	-47.03	-13.00	-34.03
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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
6634.16	V	-61.55	12.56	-48.99	-13.00	-35.99
7376.59	V	-61.94	15.05	-46.89	-13.00	-33.89
N/A						
6214.33	H	-60.88	11.12	-49.76	-13.00	-36.76
7845.12	H	-62.53	16.71	-45.82	-13.00	-32.82
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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3701.56	V	-52.11	6.46	-45.65	-13.00	-32.65
N/A						
3708.49	H	-49.85	7.88	-41.97	-13.00	-28.97
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:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3758.34	V	-40.25	6.63	-33.62	-13.00	-20.62
N/A						
3766.67	H	-41.78	8.16	-33.62	-13.00	-20.62
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:** WCDMA Band II / TX / CH 9538**Test Date:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3822.26	V	-38.56	6.83	-31.73	-13.00	-18.73
N/A						
3814.33	H	-41.77	8.40	-33.37	-13.00	-20.37
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:** WCDMA Band V / TX / CH 4132**Test Date:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4128.67	V	-59.84	7.59	-52.25	-13.00	-39.25
N/A						
4961.83	H	-55.43	10.15	-45.28	-13.00	-32.28
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 4182
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3351.29	V	-57.48	5.64	-51.84	-13.00	-38.84
N/A						
5024.17	H	-59.33	10.20	-49.13	-13.00	-36.13
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 Band V / TX / CH 4233**Test Date:** April 16, 2010**Temperature:** 21°C**Tested by:** jeff**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
2489.76	V	-58.74	3.61	-55.13	-13.00	-42.13
N/A						
3841.67	H	-60.31	8.54	-51.77	-13.00	-38.77
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
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3701.88	V	-51.74	6.46	-45.28	-13.00	-32.28
N/A						
3702.13	H	-49.32	7.85	-41.47	-13.00	-28.47
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
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3755.29	V	-42.51	6.66	-35.85	-13.00	-22.85
N/A						
3757.48	H	-41.33	8.12	-33.21	-13.00	-20.21
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
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3813.26	V	-38.24	6.81	-31.43	-13.00	-18.43
N/A						
3822.15	H	-41.67	8.44	-33.23	-13.00	-20.23
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
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010**Tested by:** jeff**Polarity:** Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
4961.56	V	-56.84	9.57	-47.27	-13.00	-34.27
N/A						
4962.33	H	-58.22	10.15	-48.07	-13.00	-35.07
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 4182
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
3351.27	V	-58.73	5.64	-53.09	-13.00	-40.09
N/A						
5024.19	H	-59.12	10.20	-48.92	-13.00	-35.92
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 / HSDPA Band V / TX / CH 4233
Temperature: 21°C
Humidity: 53 % RH

Test Date: April 16, 2010

Tested by: jeff

Polarity: Ver. / Hor.

Frequency (MHz)	Antenna Polarization	Reading (dBm)	Correction Factor (dB)	Emission level (dBm)	Limit (dBm)	Margin (dB)
5921.30	V	-58.76	10.00	-48.76	-13.00	-35.76
N/A						
5920.87	H	-57.99	10.37	-47.62	-13.00	-34.62
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.



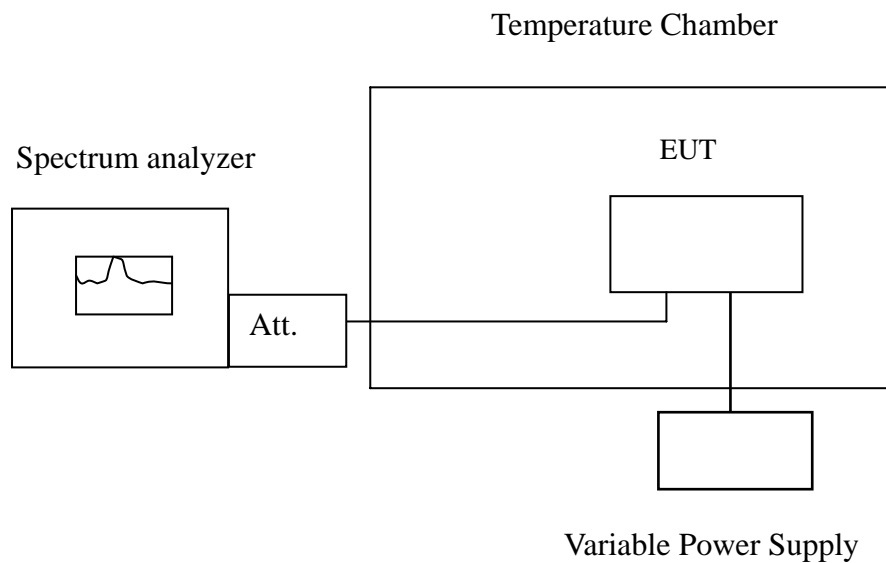
7.5 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

LIMIT

According to FCC §2.1055, FCC §22.355, .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 = 2091.5 Hz				
Power Supply Vdc	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	45	836600027	27	2091.5
	40	836600031	31	
	30	836600023	23	
	20	836599985	0	
	10	836600026	26	
	0	836600027	27	
	-5	836600036	36	
	-10	836600038	38	

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	45	1879999983	-17	4700
	40	1879999983	-17	
	30	1879999979	-21	
	20	1880000015	0	
	10	1879999991	-9	
	0	1879999977	-23	
	-5	1879999982	-18	
	-10	1879999986	-14	

**Reference Frequency: GPRS Mid Channel 836.6 MHz @ 20°C**

Limit: +/- 2.5 ppm = 2090 Hz

Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	45	83660018	33	2090
	40	83660020	35	
	30	83660024	39	
	20	83659985	0	
	10	83660014	29	
	0	83660017	32	
	-5	83660010	25	
	-10	83660023	38	

Reference Frequency: GPRS Mid Channel 1880 MHz @ 20°C

Limit: ± 2.5 ppm = 4700 Hz

Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	45	1880000050	96	4700
	40	1880000047	93	
	30	1880000051	97	
	20	1879999954	0	
	10	1880000045	91	
	0	1880000052	98	
	-5	1880000047	93	
	-10	1880000051	97	

**Reference Frequency: EDGE Mid Channel 836.6 MHz @ 20°C**

Limit: +/- 2.5 ppm = 2090 Hz

Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	45	83660001	12	2090
	40	83660007	18	
	30	83659999	10	
	20	83659989	0	
	10	83660002	13	
	0	83660004	15	
	-5	83660006	17	
	-10	83660003	14	

Reference Frequency: EDGE Mid Channel 1880 MHz @ 20°C

Limit: ± 2.5 ppm = 4700 Hz

Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	45	1880000030	64	4700
	40	1880000029	63	
	30	1880000032	66	
	20	1879999966	0	
	10	1880000027	61	
	0	1880000031	65	
	-5	1880000028	62	
	-10	1880000024	58	



Reference Frequency: WCDMA Band II Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	45	1880000001	23	4700
	40	1879999988	10	
	30	1879999999	21	
	20	1879999978	0	
	10	1880000015	37	
	0	1880000023	45	
	-5	1879999985	7	
	-10	1879999986	8	

Reference Frequency: WCDMA Band V Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090 Hz				
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	45	83639998	14	2090
	40	83640001	17	
	30	83640013	29	
	20	83639984	0	
	10	83640000	16	
	0	83639996	12	
	-5	83640018	34	
	-10	83640014	30	

**Reference Frequency: WCDMA / HSDPA Band II Mid Channel 1880 MHz @ 20°C**Limit: ± 2.5 ppm = 4700 Hz

Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	45	1880000016	20	4700
	40	1880000008	12	
	30	1880000024	28	
	20	1879999996	0	
	10	1880000001	5	
	0	1880000031	35	
	-5	1880000025	29	
	-10	1880000021	25	

Reference Frequency: WCDMA / HSDPA Band V Mid Channel 836.6 MHz @ 20°CLimit: ± 2.5 ppm = 2090 Hz

Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
3.7	45	83640008	13	2090
	40	83640002	7	
	30	83640006	11	
	20	83639995	0	
	10	83640011	16	
	0	83639998	3	
	-5	83639999	4	
	-10	83640004	9	

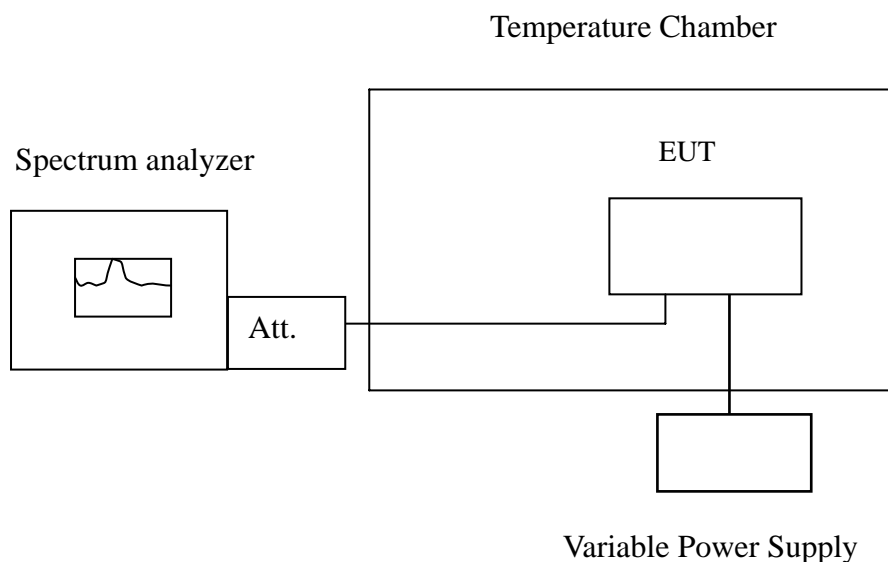


7.6 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

LIMIT

According to FCC §2.1055, FCC §22.355, .FCC §24.235,

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 ($\pm 10\%$) and endpoint, record the maximum frequency change.

TEST RESULTS

No non-compliance noted.

Reference Frequency: GPRS Mid Channel 836.6 MHz @ 20°C				
Limit: ± 2.5 ppm = 2090Hz				
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.2	20	83599987	2	2090
3.7		83599985	0	
3.6 end		83599982	-3	

Reference Frequency: GPRS Mid Channel 1880 MHz @ 20°C				
Limit: ± 2.5 ppm = 4700 Hz				
Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.2	20	1879999950	-4	4700
3.7		1879999954	0	
3.6 end		1879999951	-3	

**Reference Frequency: EDGE Mid Channel 836.6 MHz @ 20°C**Limit: ± 2.5 ppm = 2090Hz

Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.2	20	83599999	10	2090
3.7		83599989	0	
3.6 end		83599993	4	

Reference Frequency: EDGE Mid Channel 1880 MHz @ 20°CLimit: ± 2.5 ppm = 4700 Hz

Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.2	20	1879999974	8	4700
3.7		1879999966	0	
3.6 end		1879999973	7	

**Reference Frequency: WCDMA Band II Mid Channel 1880 MHz @ 20°C**Limit: ± 2.5 ppm = 4700 Hz

Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.2	20	1879999993	15	4700
3.7		1879999978	0	
3.6 end		1879999984	6	

Reference Frequency: WCDMA Band V Mid Channel 836.6 MHz @ 20°CLimit: ± 2.5 ppm = 2090Hz

Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.2	20	83599985	1	2090
3.7		83599984	0	
3.6 end		83599998	14	

**Reference Frequency: WCDMA HSDPA Band II Mid Channel 1880 MHz @ 20°C**Limit: ± 2.5 ppm = 4700 Hz

Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.2	20	1879999995	-1	4700
3.7		1879999996	0	
3.6 end		1879999981	-15	

Reference Frequency: WCDMA HSDPA Band V Mid Channel 836.6 MHz @ 20°CLimit: ± 2.5 ppm = 2090Hz

Power Supply Vac	Environment Temperature (°C)	Frequency (Hz)	Delta (Hz)	Limit (Hz)
4.2	20	835999992	-3	2090
3.7		835999995	0	
3.6 end		835999991	-4	



7.7 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 (dB μ V)	
	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:** April 14, 2010
Temperature: 23°C **Tested by:** jeff
Humidity: 50% RH

Freq. (MHz)	PEAK. Raw (dBuV)	Q.P. Raw (dBuV)	AVG Raw (dBuV)	Q.P. Limit (dBuV)	AVG Limit (dBuV)	Margin (dB)	Factor (dB)	Remark
0.161	49.27	46.84	34.81	65.68	55.68	-20.87	10.06	L1
0.723	46.37	40.71	31.53	56.00	46.00	-14.47	10.95	L1
0.871	45.67	39.56	29.52	56.00	46.00	-16.48	11.00	L1
1.626	42.81	35.47	25.93	56.00	46.00	-20.07	11.06	L1
2.576	40.97	33.22	24.29	56.00	46.00	-21.71	11.12	L1
3.456	39.04	31.55	22.26	56.00	46.00	-23.74	11.16	L1
0.161	56.75	41.53	31.71	65.68	55.68	-23.97	10.16	L2
0.205	49.51	37.38	20.97	64.41	54.41	-33.44	10.18	L2
0.712	44.65	36.53	25.89	56.00	46.00	-20.11	10.15	L2
0.804	44.87	33.94	23.52	56.00	46.00	-9.56	10.15	L2
1.622	42.05	33.37	22.81	56.00	46.00	-23.19	10.43	L2
2.560	41.20	31.87	21.10	56.00	46.00	-24.90	10.68	L2

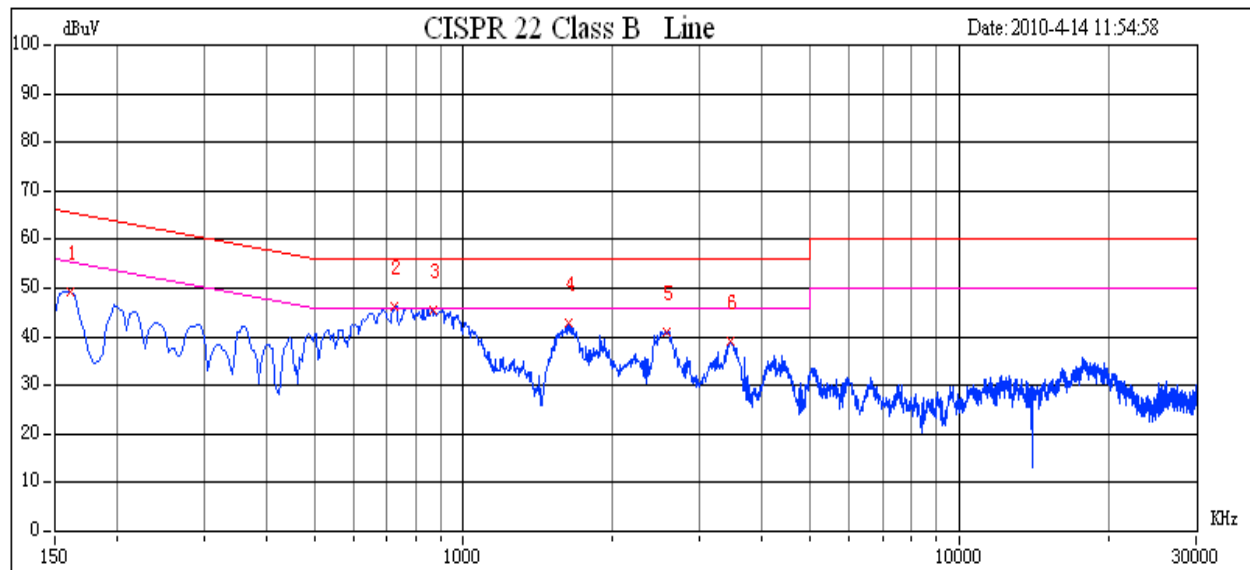
Remark:

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)
5. "-" means Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

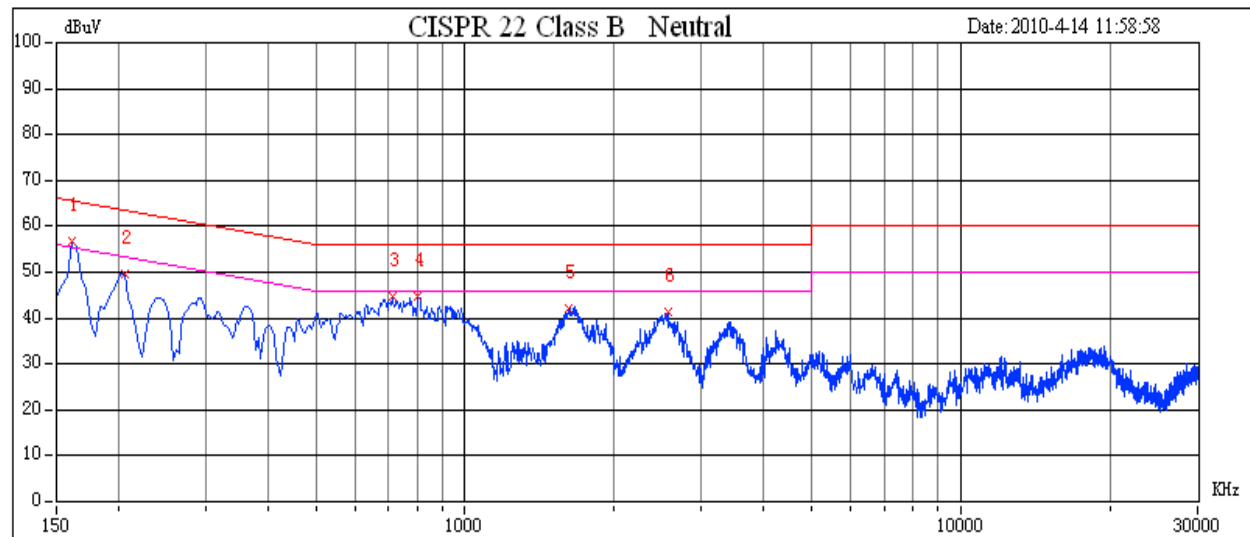


Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)





APPENDIX I RADIO FREQUENCY EXPOSURE

LIMIT

EUT Specification

EUT	HSDPA/WCDMA/EDGE/GPRS/GSM850/900/1800/1900/2100MHz Mobile Phone
Frequency band (Operating)	<input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input checked="" type="checkbox"/> Others: GPRS / EDGE 850MHz: 824 ~ 849 MHz
Device category	<input checked="" type="checkbox"/> Portable (<20cm separation) <input type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure ($S = 5\text{mW}/\text{cm}^2$) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure ($S=1\text{mW}/\text{cm}^2$)
Antenna diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
Max. output power	ERP: 27.11 dBm (514.04mW)
Antenna gain (Max)	GPRS / EDGE 850 MHz: 3 dBi (Numeric gain: 1.99) WCDMA band II: 3 dBi (Numeric gain: 1.99)
Evaluation applied	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation* <input type="checkbox"/> N/A

Remark:

1. The maximum output power is 27.11 dBm (514.04mW) at 848.80MHz (with 1.99 numeric antenna gain.)
2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.
3. For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is $1.0\text{ mW}/\text{cm}^2$ even if the calculation indicates that the power density would be larger.

TEST RESULTS

No non-compliance noted.

Not applicable, Please refers to the SAR test report.

**EUT Specification**

EUT	HSDPA/WCDMA/EDGE/GPRS/GSM 850/900/1800/1900/2100MHz Mobile Phone
Frequency band (Operating)	<input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.725GHz ~ 5.850GHz <input type="checkbox"/> WLAN: 5.15GHz ~ 5.35GHz <input checked="" type="checkbox"/> Others: <u>1850 ~ 1910 MHz</u>
Device category	<input checked="" type="checkbox"/> Portable (<20cm separation) <input type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
Max. output power	ERP: 29.95 dBm (988.55mW)
Antenna gain (Max)	GPRS / EDGE 1900 MHz: 2.99 dBi (Numeric gain:1.99) WCDMA band V: 2.99 dBi (Numeric gain: 1.99)
Evaluation applied	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation* <input type="checkbox"/> N/A

Remark:

1. The maximum output power is 29.95dBm (988.55mW) at 1850.20MHz (with 1.99 numeric antenna gain.)
2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.
3. For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.

TEST RESULTS

No non-compliance noted.

Not applicable, Please refers to the SAR test report