



**MOTOROLA MOBILITY**

**MOBILE DEVICES BUSINESS**

**PRODUCT SAFETY AND COMPLIANCE  
EMC LABORATORY**

**EMC TEST REPORT**

**Test Report Number** – 24585-1

**Report Date** – June 21, 2011

The test results contained herein relate only to the model(s) identified. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics.

As the responsible EMC Engineer, I hereby declare that the equipment tested as specified in this report conforms to the requirements indicated.

Signature:

A handwritten signature in black ink that reads "Albert J. Patapack".

Name: Albert J. Patapack

Title: EMC Engineer

Date: June 21, 2011

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**THIS REPORT MUST NOT BE USED TO CLAIM PRODUCT ENDORSEMENT BY A2LA OR ANY AGENCY OF THE U.S. GOVERNMENT.**

UKAS Certificate Number: 2404

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**Test Report Details**

Tests Performed By: ADR Testing Service  
 Location Code: ADR LV  
 Motorola Mobility Inc  
 Product Safety and Compliance Group  
 600 North US Hwy 45  
 Libertyville, IL 60048  
 PH (847) 523-6167 Fax (847) 523-4538  
 FCC Registration Number: 316588  
 Industry Canada Number: 1090-1

Tests Requested By: Motorola Mobility Inc.  
 600 North US Hwy 45  
 Libertyville, IL 60048

Product Type: Cellular Phone

Signaling Capability: CDMA 800/1900, CDMA 1X/EV-DO Release A,  
 WCDMA 850/1900, GSM 850/1900,  
 HSDPA, HSUPA, EDGE, GPRS,  
 Bluetooth, 802.11b/802.11g/802.11n

FCC ID: IHDT56MF3

Serial Numbers: 355477040010390, 355477040010663,  
 LSLV270002

Testing Complete Date: April 7, 2011

**Applicable Standards**

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

- X   Part 2
- X   Part 22 Subpart H - Public Mobile Services
- X   Part 24 Subpart E – Personal Communications Services

Applicable Standards: ANSI 63.4 2003, ANSI/TIA-603-C-2004,  
 RSS-Gen Issue 2, RSS-129 Issue 2, RSS-132 Issue 2,  
 RSS-133 Issue 5

**Summary of Testing**

Test #	Test Name	Pass/Fail
1	RF Power Output	NA
2	ERP (Effective Radiated Power)	Pass
3	EIRP (Effective Isotropic Radiated Power)	Pass
4	Occupied Bandwidth	Pass
5	Spurious Emissions at Antenna Terminal	Pass
6	Field Strength of Spurious Emissions	Pass
7	Frequency Stability	Pass

Test #	Test Name	Margin with respect to the Limit
1	RF Power Output	NA
2	ERP (Effective Radiated Power)	See results
3	EIRP (Effective Isotropic Radiated Power)	See results
4	Occupied Bandwidth	See Plots
5	Spurious Emissions at Antenna Terminal	See results
6	Field Strength of Spurious Emissions	See results
7	Frequency Stability	See results

The margin with respect to the limit is the minimum margin for all modes and bands.

**General and Special Conditions**

When applicable, EMC testing was performed with a fully charged Model SNN5885A 1500mAH. Where a battery could not be used due to the need for a controlled variation of input voltage, an external power supply was utilized.

All testing was done in an indoor controlled environment. The temperature and the relative humidity were maintained within the ANSI C63.4 2003 Standard requirements during the entire duration of testing.

## Equipment and Cable Configurations

The EUT was tested in a stand-alone configuration that is representative of typical use.

<b>Manufacturer</b>	<b>Equipment Type</b>	<b>Model No.</b>	<b>Serial Number</b>	<b>Calibration Due Date</b>
Rohde & Schwarz	Receiver	ESI26	100001	9/23/2011
Hewlett Packard	EMC Analyzer	E7405	US40240219	10/19/2011
Agilent	MXA Signal Analyzer	N9020A	US46470586	12/18/2011
Hewlett Packard	Signal Generator	83623B	3844A00935	4/24/2011
Agilent	Signal Generator	83712A	3429A00286	3/26/2013
A. H. Systems	DRG Horn Antenna	SAS 200/571	365	4/07/2011
ETS	DRG Horn Antenna	3115	6222	3/16/2012
A. H. Systems	DRG Horn Antenna	SAS 200/571	265	9/09/2011
ETS	Log-Periodic Antenna	3148	1189	1/19/2012
ETS	Biconical Antenna	3110B	3370	1/19/2012
Attenuator	Weinschel	AS-6	6675	NCR
Attenuator	Weinschel	AS-6	6677	NCR
Thermotron	Environmental Chamber	S-4	31580	1/13/2012
Agilent	Power Meter	E4416A	GB41293263	9/11/2011
Agilent	Power Sensor	E9323A	US40412066	8/30/2011
Agilent	Microwave Preamplifier	8449B	3008A00535	10/05/2011

Note that the Agilent power meter and microwave preamplifier are on a two-year calibration cycle. All other equipment is on a one-year calibration cycle. All testing was performed using equipment that was within calibration at the time that the test was performed. No equipment listed in the table above was used after the specified calibration due date. If, during the course of product testing, a piece of equipment went out of calibration and that piece of equipment was needed to complete product testing, a similar piece of calibrated equipment was substituted. If a substitution was made, that new piece of equipment would be listed in the above table along with the piece that was removed from service.

## Measurement Procedures and Data

### RF POWER OUTPUT

#### Measurement Procedure

The RF output port of the equipment under test is directly coupled to the input of an Agilent power meter through a 20dB passive attenuator, adaptor (if needed), and specialized RF connector. The average power output is measured for all channels.

#### Measurement Results

##### GSM 850

Frequency (MHz)	Power (dBm)
824.2	33.45
836.6	33.35
848.8	33.44

##### GSM 1900

Frequency (MHz)	Power (dBm)
1850.2	30.59
1880.0	30.64
1909.8	30.63

##### EDGE 850

Frequency (MHz)	Power (dBm)
824.2	27.52
836.6	27.40
848.8	27.69

##### EDGE 1900

Frequency (MHz)	Power (dBm)
1850.2	26.42
1880.0	26.46
1909.8	26.64

##### CDMA 800

Frequency (MHz)	Power (dBm)
824.70	25.06
836.52	25.14
848.31	25.04

##### CDMA 1900

Frequency (MHz)	Power (dBm)
1851.25	25.24
1880.00	25.08
1908.75	25.05

Conducted Power was measured according to the “SAR Measurement Procedure for 3G Devices” released on October, 2007. .

Band	Channel	Conducted power (dBm) for WCDMA modes		Conducted Power (dBm) for WCDMA – HSDPA (Rel 5) Modes			
		RMC	AMR	Subtest 1	Subtest 2	Subtest 3	Subtest 4
WCDMA 800	4132	24.18	24.08	24.11	24.17	23.99	24.09
	4180	24.1	24.09	24.15	24.16	24.14	24.1
	4233	24.03	23.98	23.97	23.95	24.03	23.96
WCDMA 1900	9262	24.04	23.99	24.05	24.04	24.06	24.04
	9400	24.04	24.04	24.08	24.16	24.09	24.09
	9538	24.35	24.11	24.12	24.11	24.13	24.17

Band	Channel	Conducted Power (dBm) for WCDMA – HSPA (HSUPA/HSDPA-Rel 6) Modes				
		Subtest 1	Subtest 2	Subtest 3	Subtest 4	Subtest 5
WCDMA 800	4132	24.04	24.15	24.09	24.13	24.11
	4180	24.1	24.08	24.14	24.11	24.13
	4233	24.02	23.93	24.03	23.92	24
WCDMA 1900	9262	24.05	24.07	24.05	24.03	24.09
	9400	24.12	24.2	24.16	24.13	24.11
	9538	24.12	24.17	24.16	24.06	24.13

Based on the power measurements, all WCDMA testing was performed in RMC mode.

Conducted Power was measured according to the “SAR Measurement Procedure for 3G Devices” released on October, 2007. .

Conducted power (dBm) for CDMA modes						
	Channel	RC1		RC3		RC3 (FCH + SCH)
		SO2	SO55	SO2	SO55	
CDMA 800	1013	25.06	25.03	24.93	24.9	Per Motorola designs, the maximum power, when in a mode that allows supplemental channels, will always be less than the RC3/RC1 maximum conducted power limit.
	384	25.14	25.12	24.99	24.98	
	777	25.04	24.95	24.94	25.07	
CDMA 1900	25	25.24	25.2	25.21	25.26	
	600	25.08	25.02	24.97	24.99	
	1175	25.05	24.99	24.8	24.8	

Conducted power (dBm) for EVDO modes					
	Channel	Rev 0		Rev A	
		FTAP 307.2k	RTAP 153.6k	Subtype 2 FETAP	Subtype 2 RETAP
CDMA 800	1013	25.05	25.11	25.05	25.05
	384	25.24	25.14	25.18	25.15
	777	25.13	25.03	25.12	25.05
CDMA 1900	25	25.41	25.27	25.1	25.2
	600	25.16	25.1	25.05	25.11
	1175	24.92	24.9	24.84	24.87

Based on the power measurements, all testing was performed in RC3/SO55 CDMA mode

**RADIATED POWER (EIRP AND ERP)**

**Measurement Procedure**

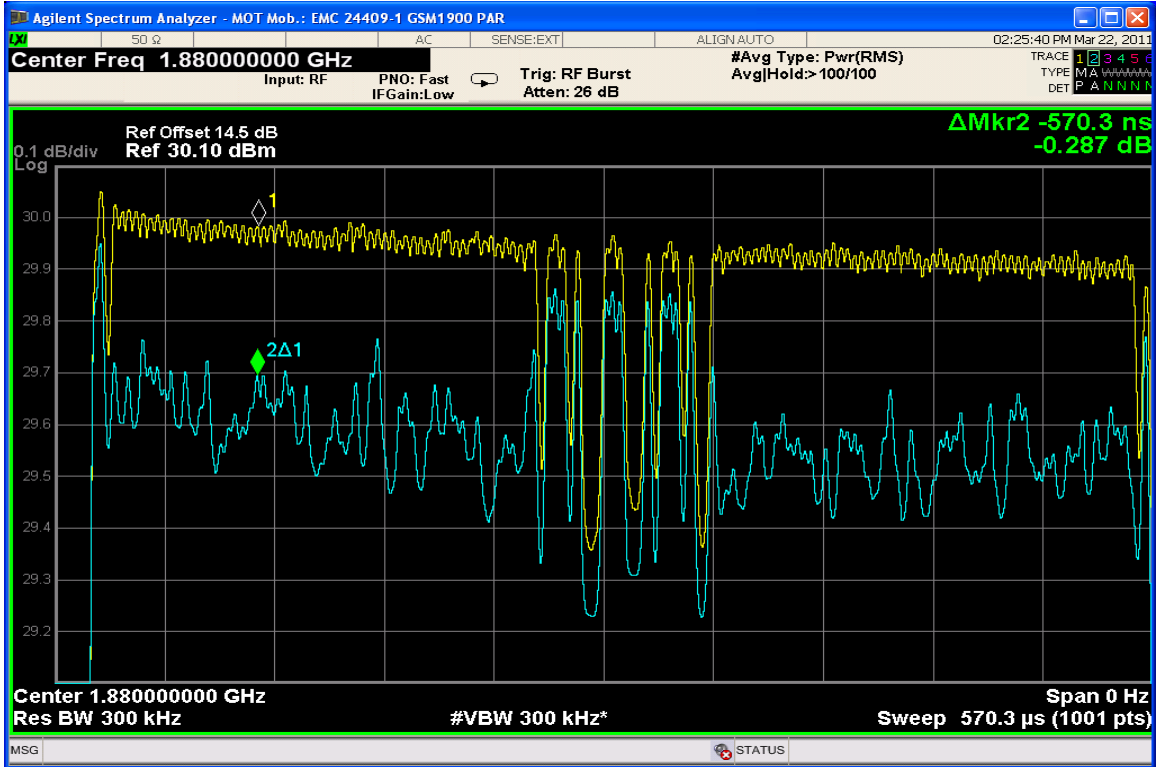
The phone was tested in a 16’ anechoic chamber with a 2-axis position system that permits taking complete spherical scans of the EUT’s radiation patterns. For all tests, the phone was supported in a free space type environment, vertically oriented in the chamber.

All measurements were made with the phone placed in a call using a mobile station test set. The phone was weakly coupled to the test set and configured to transmit in full data rate mode. Radiated power was measured at each 15 degree step. The radiated power was measured using a Rhode & Schwarz FSP Spectrum Analyzer using the Average Detector for the 1900 GSM band and the Peak Detector for all other bands. From these measurements, the software calculates the angle at which maximum radiated power occurs for each case, and the radiated power at this angle was extracted from the data. To get ERP (effective radiated power referenced to a half-wave dipole), subtract 2.1 dB from these numbers.

The EUT was tested in all configurations and the highest power level is reported.

**Measurement Results**

<b>Band</b>	<b>EIRP dBm</b>	<b>ERP dBm</b>
GSM 850	33.39	<b>31.29</b>
GSM 1900	<b>32.57</b>	30.47
EDGE 850	30.44	<b>28.34</b>
EDGE 1900	<b>32.71</b>	30.61
WCDMA 850	27.83	<b>25.73</b>
WCDMA 1900	<b>29.83</b>	27.73
CDMA 800	28.25	<b>26.15</b>
CDMA 1900	<b>29.86</b>	27.76



GSM 1900 – PAR Plot

## **OCCUPIED BANDWIDTH**

### **Measurement Procedure**

The RF output port of the equipment under test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. The amplitude of the spectrum analyzer is corrected for the attenuator and any other applicable losses. The analyzer is set for Peak Detector and each trace is set for Max Hold. A fully charged battery was used for the supply voltage.

The middle channel within the designated frequency block was measured. For digital modulation, the lower and upper band edge plots are displayed.

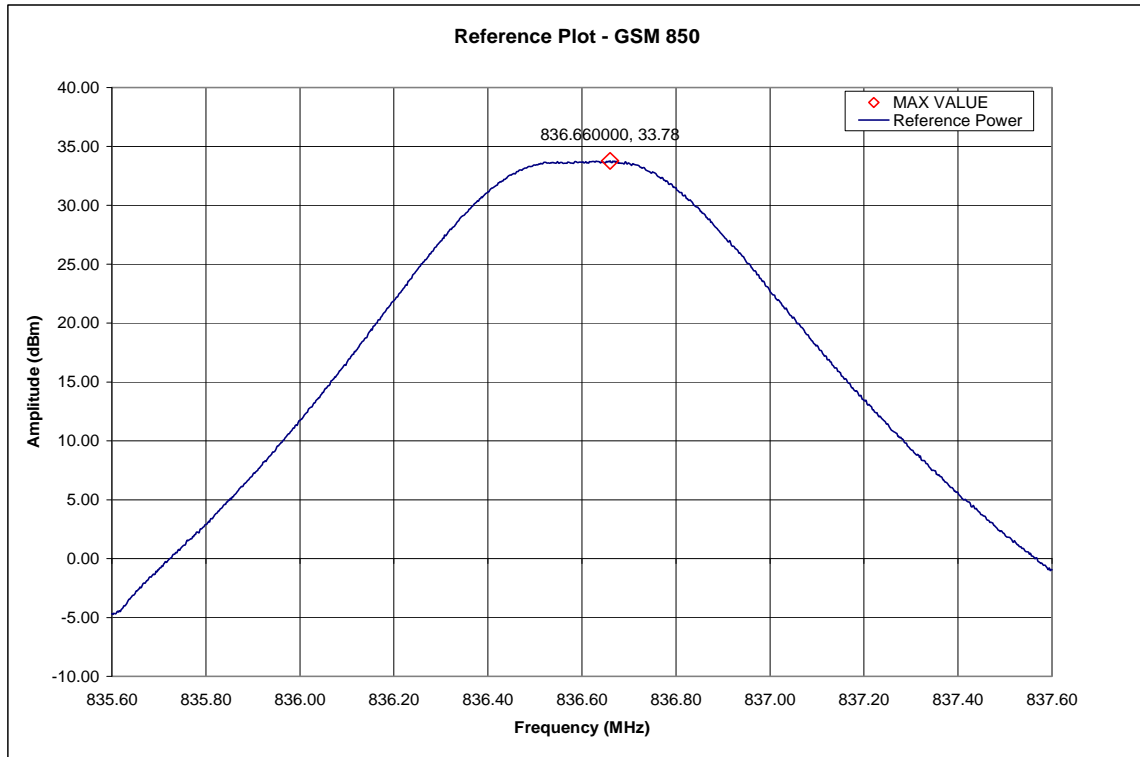
Measurement Results

Attached

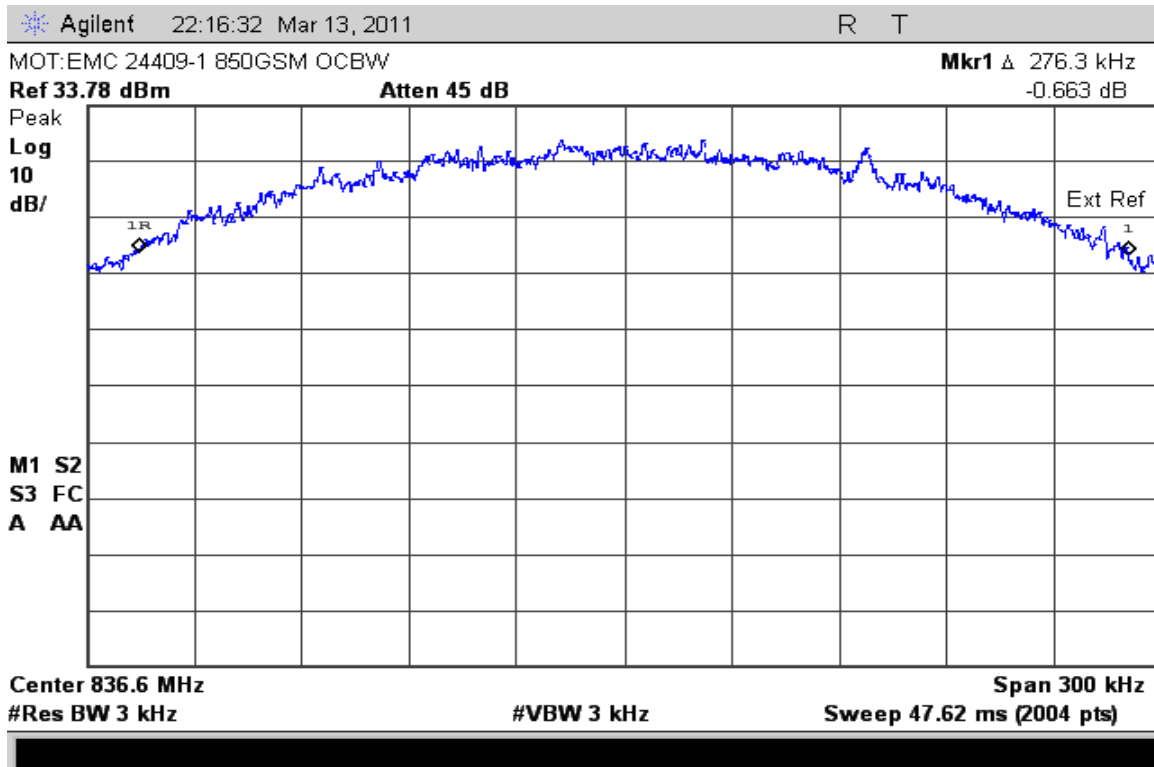
Plot	Equipment Settings					
	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Sweep Points (#)	Trace Mode	Detector	Samples ( $\geq$ #)
Reference Plot - GSM 850	300	Auto	1001	Max Hold	Peak	30
OCBW - GSM 850	3	Auto	1001	Max Hold	Peak	30
Lower Band Edge - GSM 850	1	Auto	2004	Max Hold	Peak	30
Upper Band Edge - GSM 850	1	Auto	2004	Max Hold	Peak	30
Reference Plot - GSM 1900	300	Auto	1001	Max Hold	Peak	30
OCBW - GSM 1900	3	Auto	1001	Max Hold	Peak	30
Lower Band Edge - GSM 1900	1	Auto	2004	Max Hold	Peak	30
Upper Band Edge - GSM 1900	1	Auto	2004	Max Hold	Peak	30
Reference Plot - CDMA 800	3000	Auto	2001	Max Hold	Peak	100
OCBW - CDMA 800	30	Auto	1601	Max Hold	Peak	100
Lower Band Edge - CDMA 800	1	Auto	2004	Max Hold	Peak	30
Upper Band Edge - CDMA 800	1	Auto	2004	Max Hold	Peak	30

- Notes:
- 1) When the video bandwidth is set to Auto the video bandwidth self adjusts for <sup>3</sup> the resolution bandwidth.
  - 2) The GSM plotted data shown for the band edge measurements is representative of data taken with a true 3 kHz resolution bandwidth filter. The raw data was taken using a 1 kHz resolution bandwidth and was integrated to produce a response representative of data taken using a true 3 kHz resolution bandwidth filter.
  - 3) The CDMA plotted data shown for the band edge measurements is representative of data taken with a true 13 kHz resolution bandwidth filter. The raw data was taken using a 1 kHz resolution bandwidth and was integrated to produce a response representative of data taken using a true 13 kHz resolution bandwidth filter.

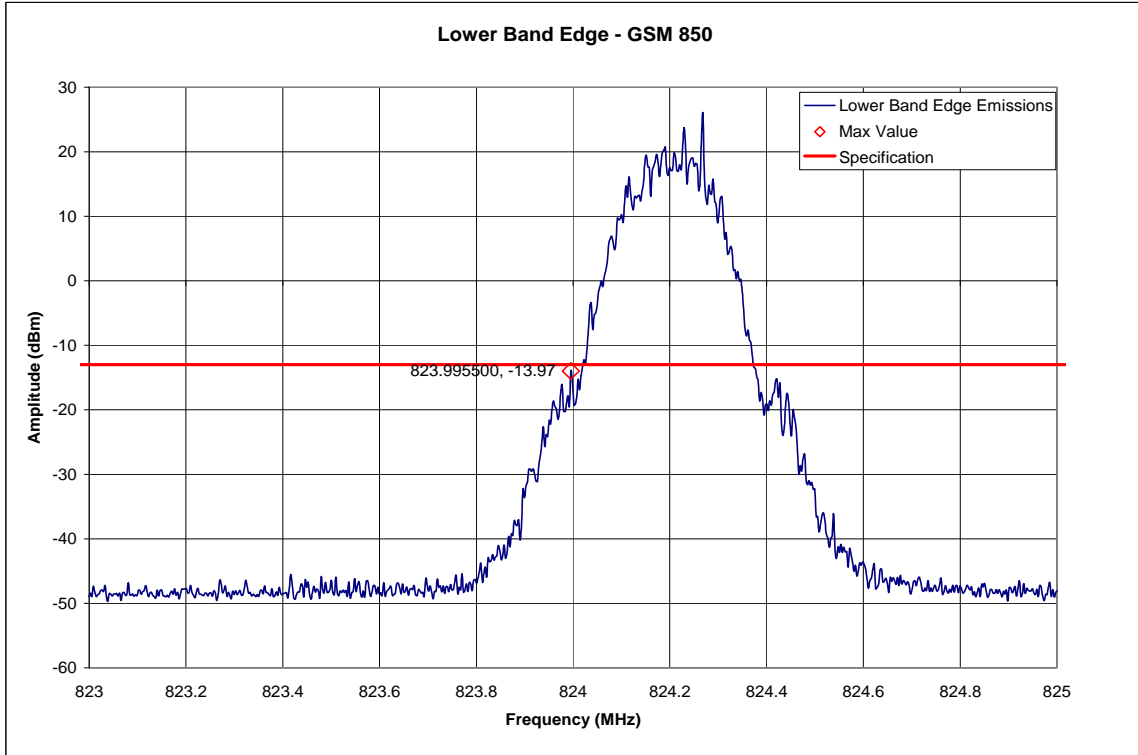
**Measurement Results – GSM 850**



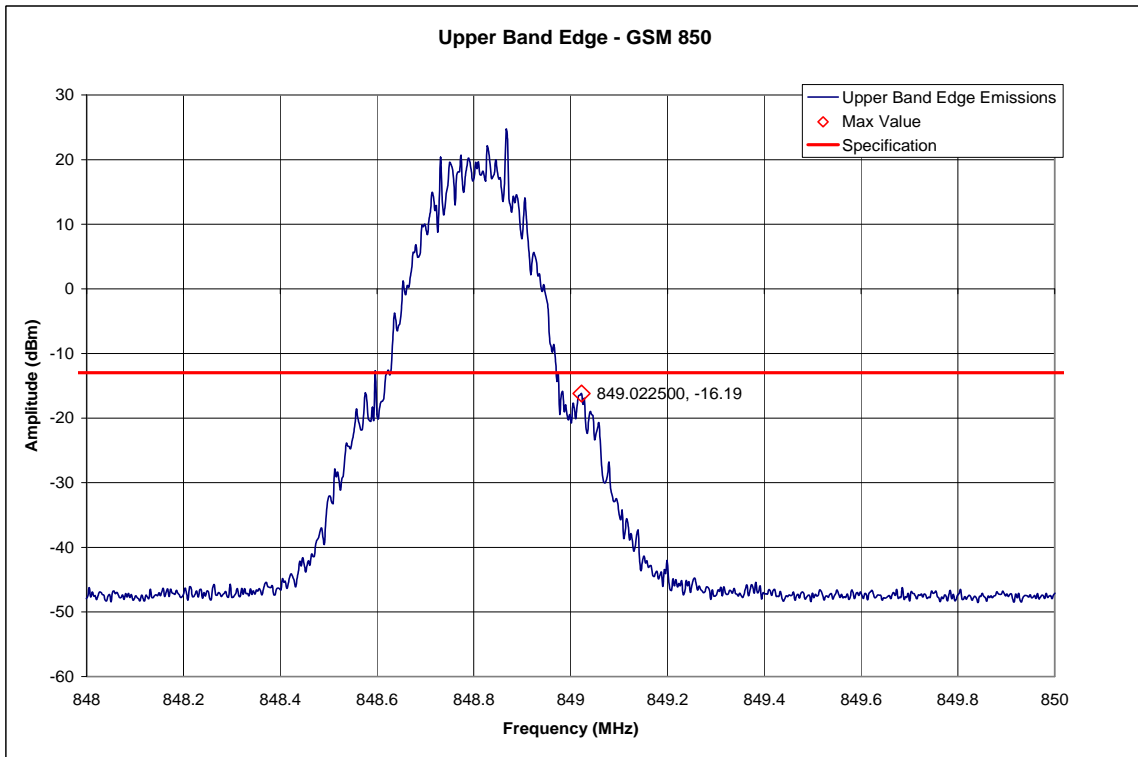
**GSM 850 – Reference Level Plot – Channel 190 (836.60 MHz)**



**GSM 850 – Channel 190 (836.60 MHz) – Occupied Bandwidth**

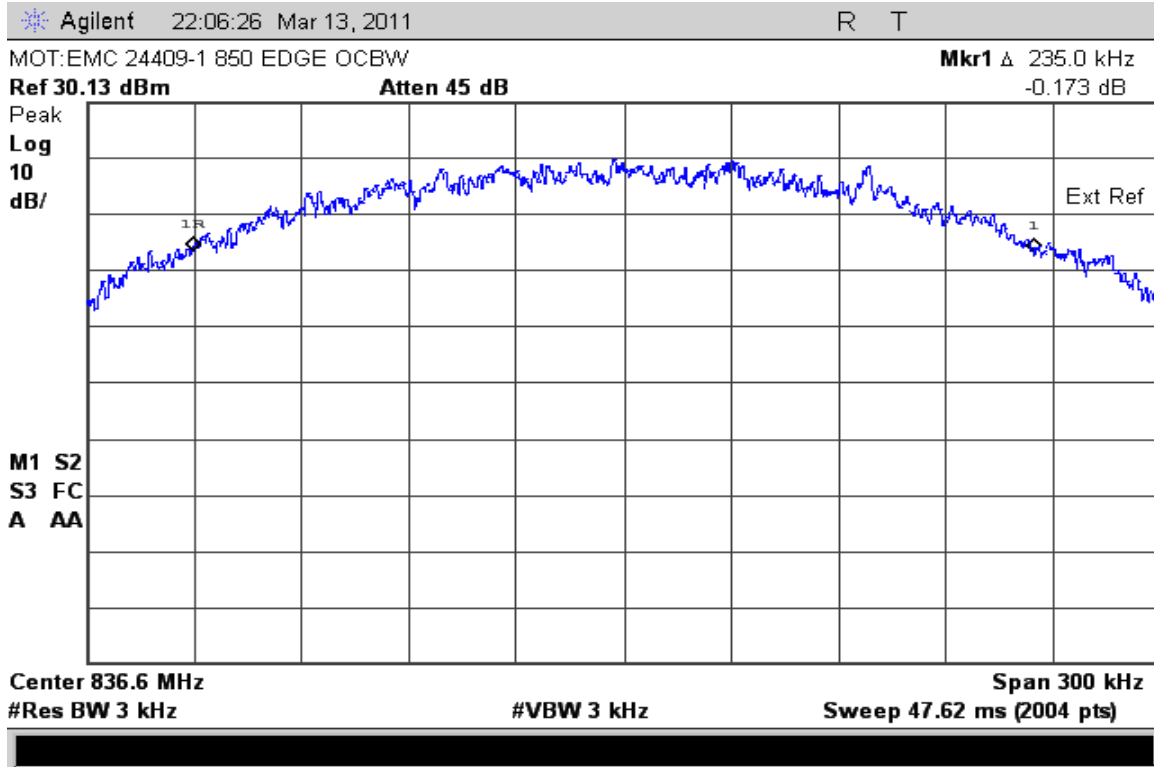


**GSM 850 – Lower Band Edge – Channel 128 (824.2 MHz)**

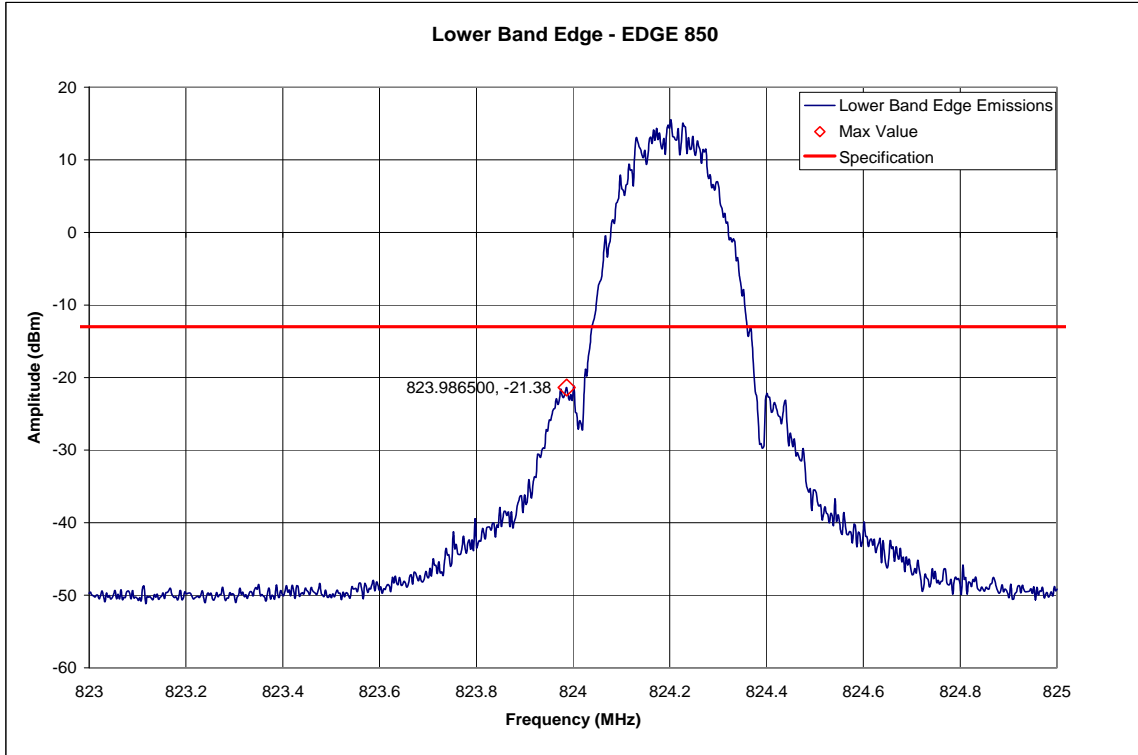


**GSM 850 – Upper Band Edge – Channel 251 (848.8 MHz)**

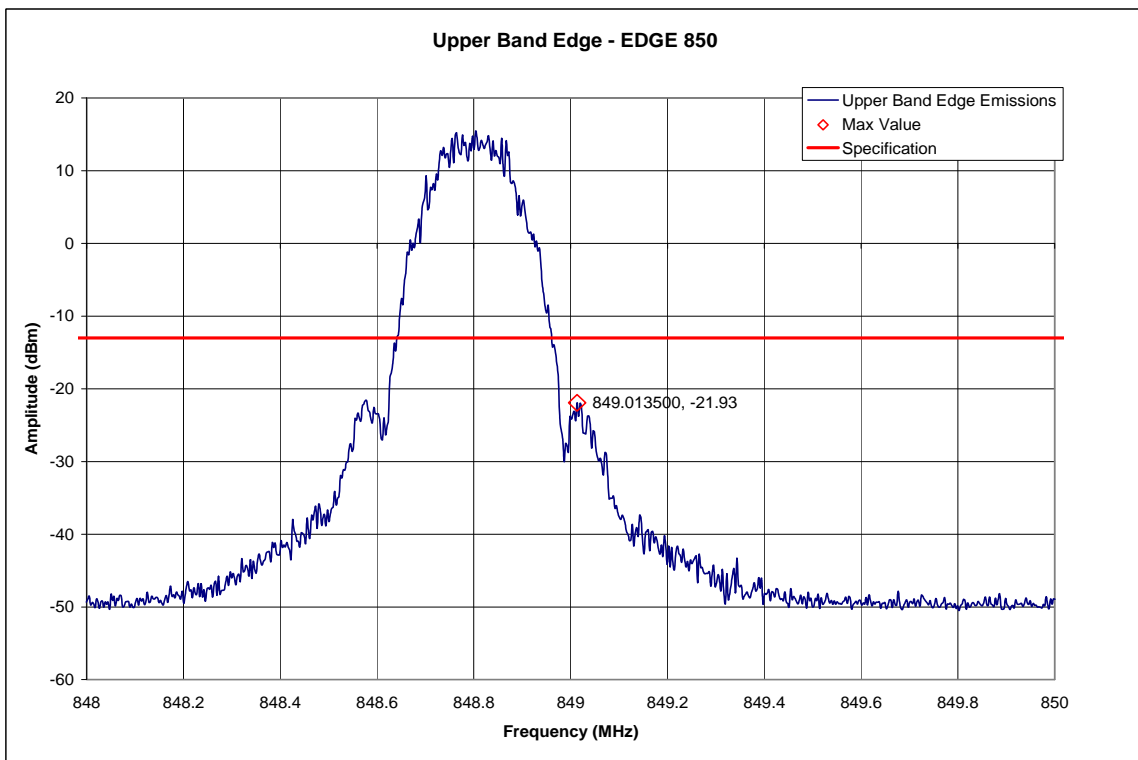
**Measurement Results – EDGE 850**



**EDGE 850 – Channel 190 (836.60 MHz) – Occupied Bandwidth**

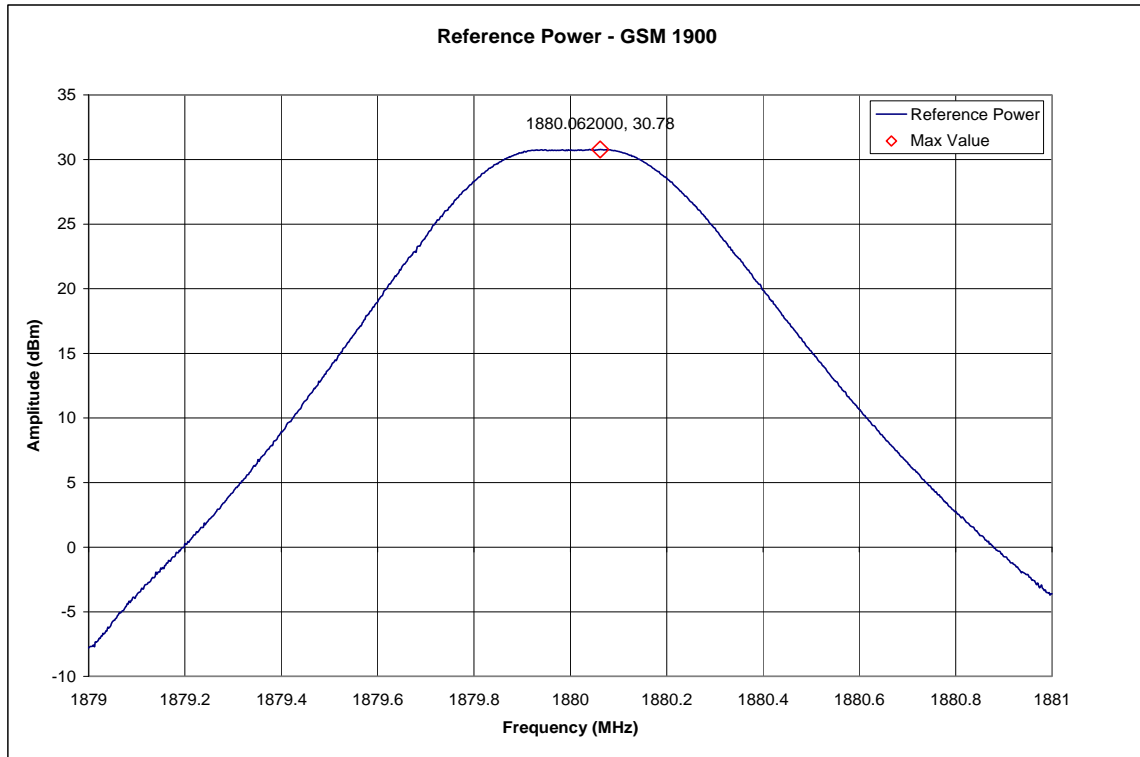


**EDGE 850 – Lower Band Edge – Channel 128 (824.2 MHz)**

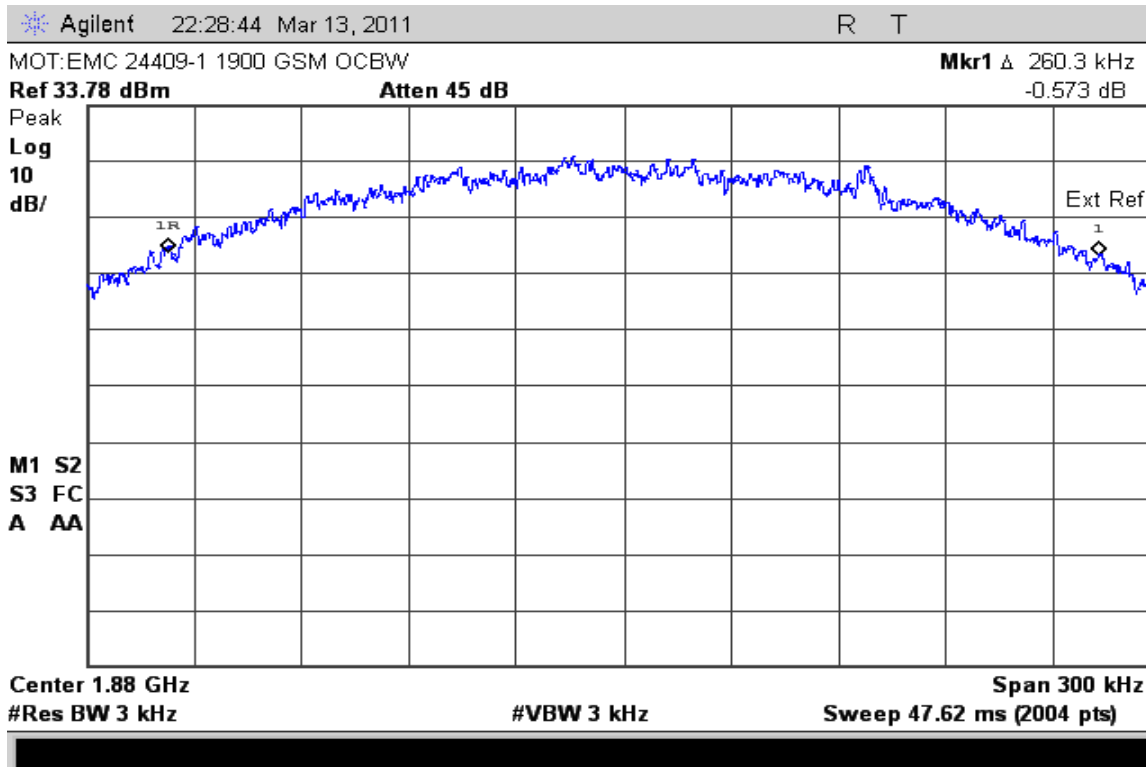


**EDGE 850 – Upper Band Edge – Channel 251 (848.8 MHz)**

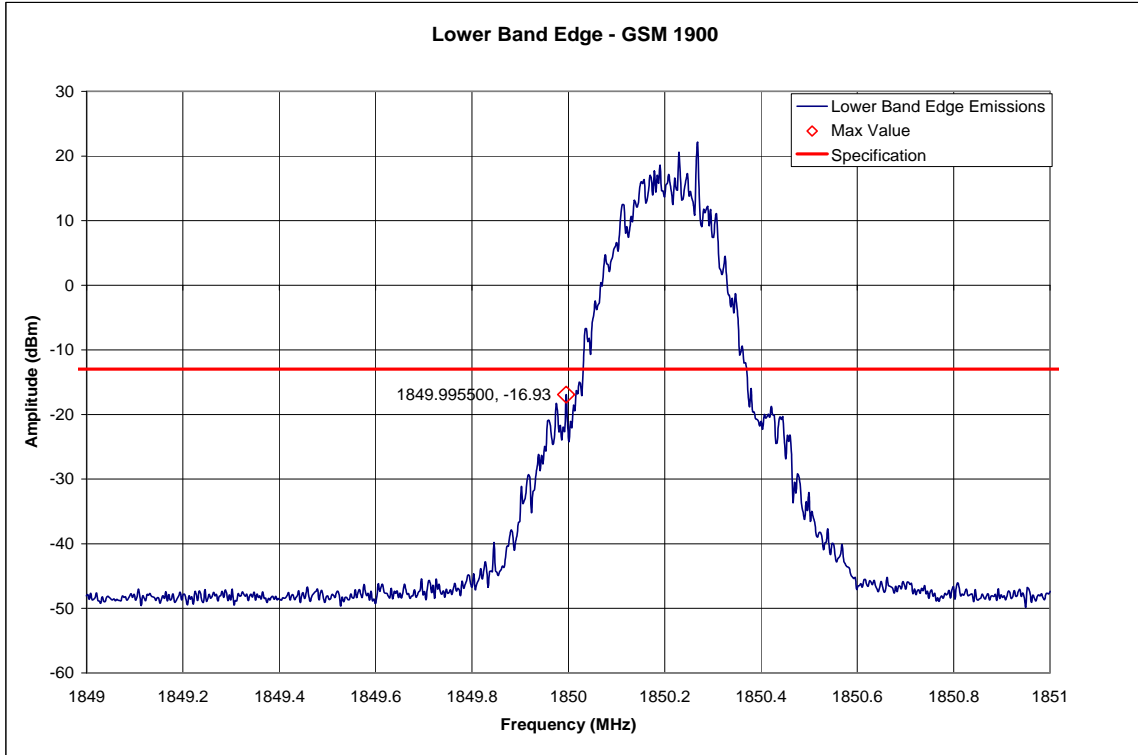
**Measurement Results – GSM 1900**



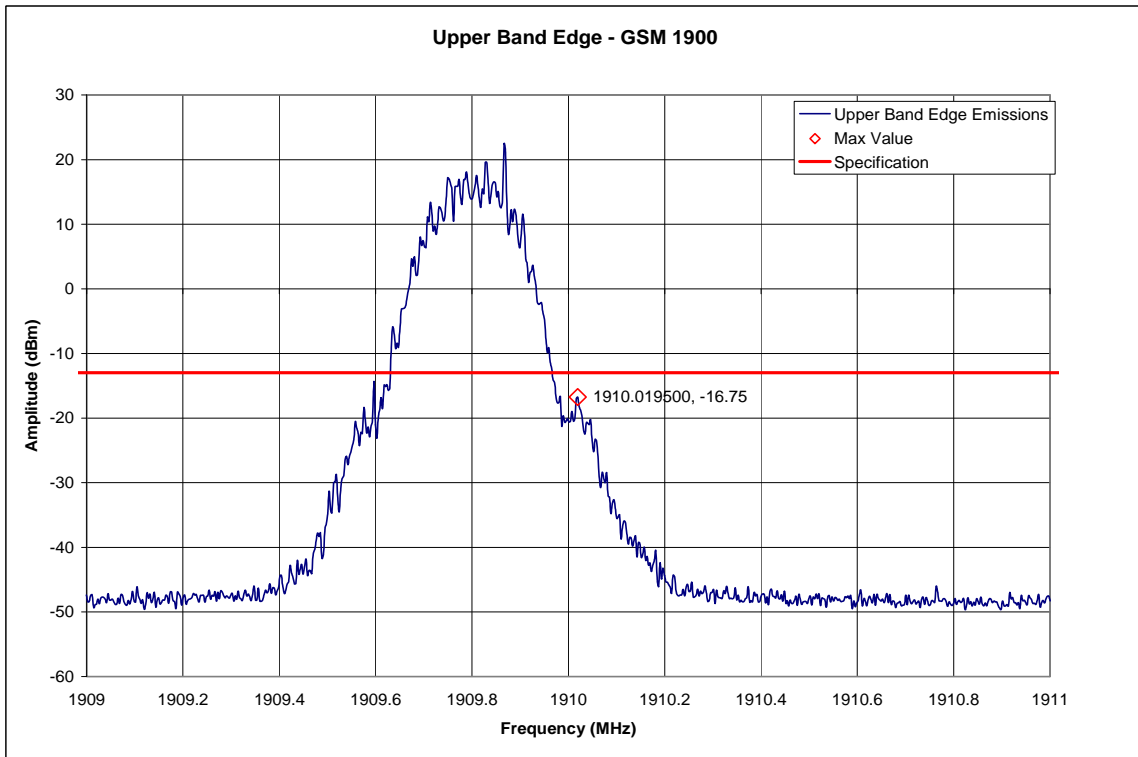
**GSM 1900 – Reference Level Plot – Channel 661 (1880.00MHz)**



**GSM 1900 – Occupied Bandwidth – Channel 661 (1880.00MHz)**

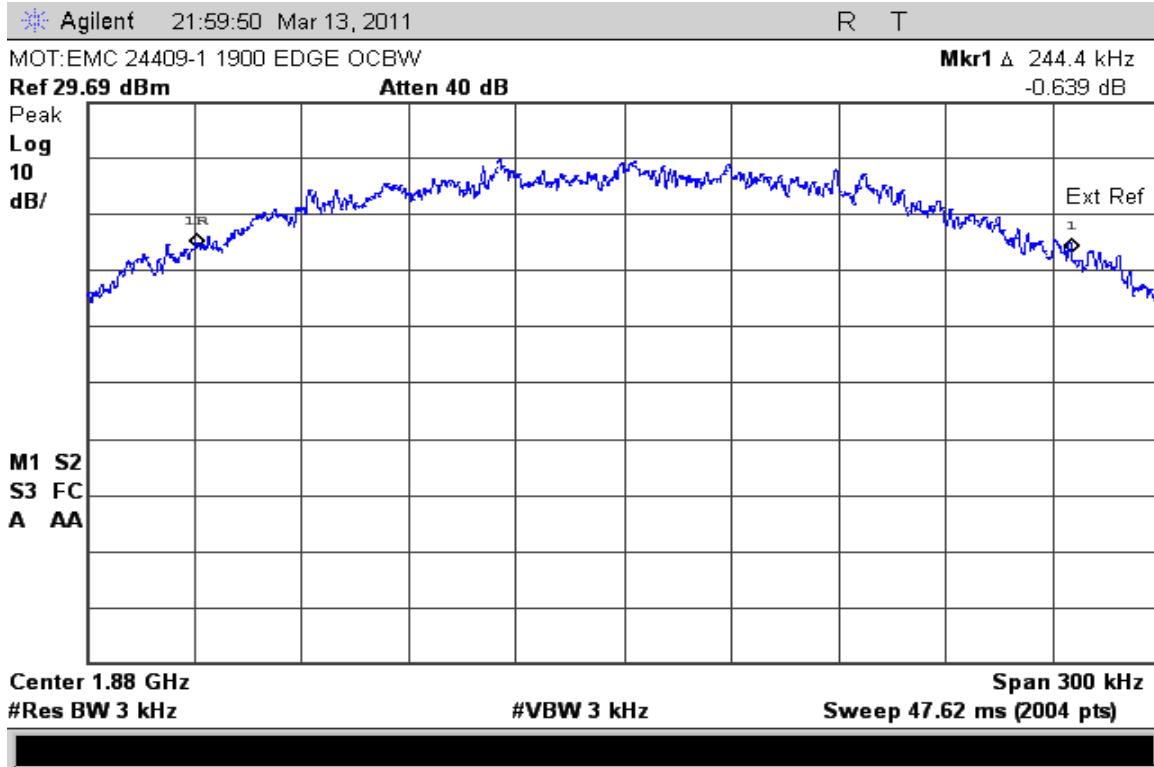


**GSM 1900 – Lower Band Edge – Channel 512 (1850.2MHz)**

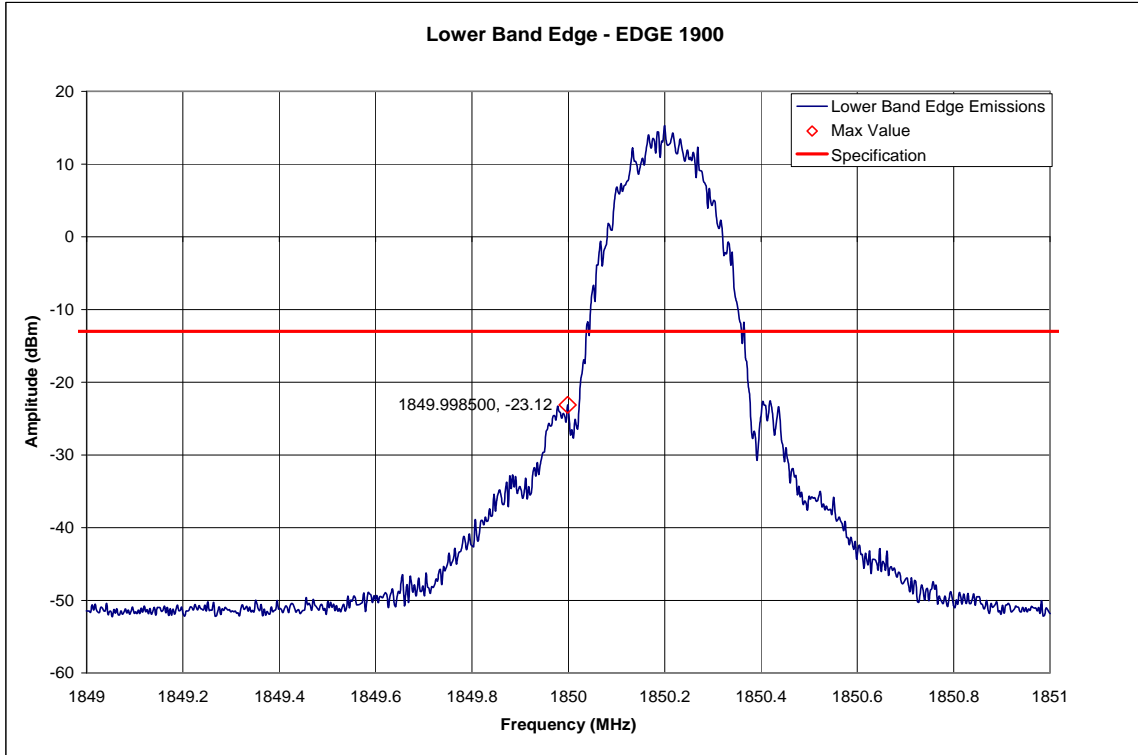


**GSM 1900 – Upper Band Edge – Channel 810 (1909.8MHz)**

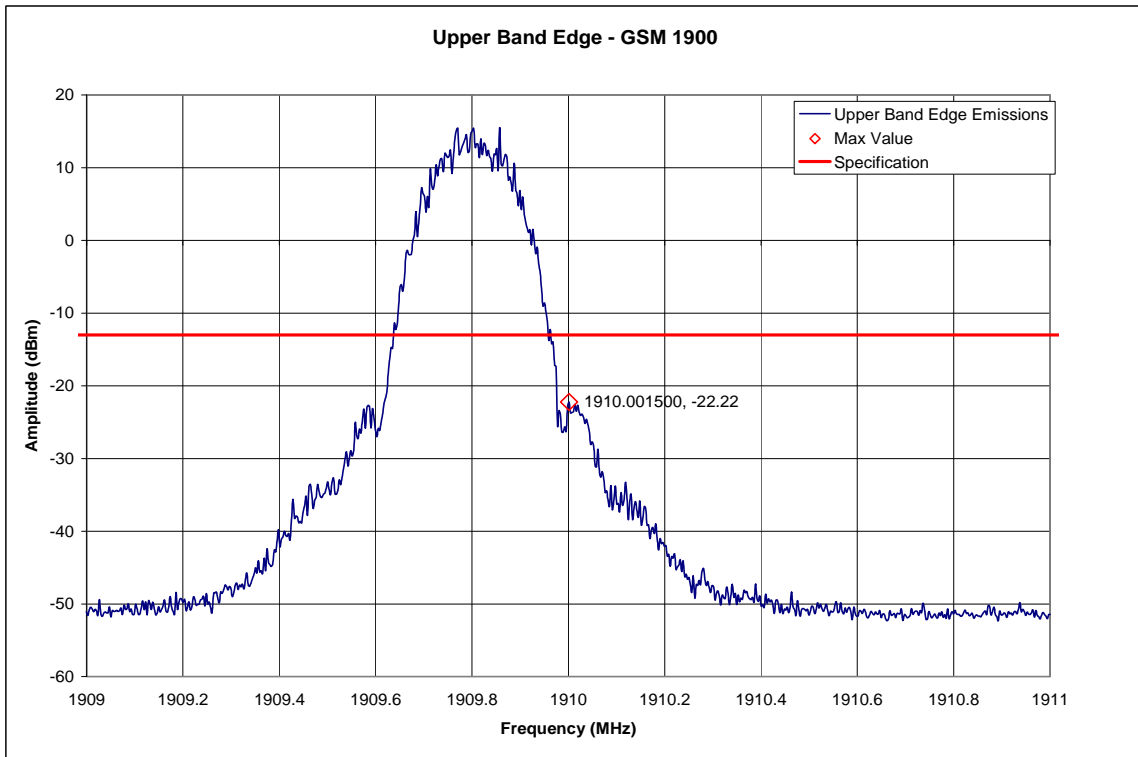
**Measurement Results – EDGE 1900**



**GSM 1900 EDGE – Occupied Bandwidth – Channel 661 (1880.00MHz)**

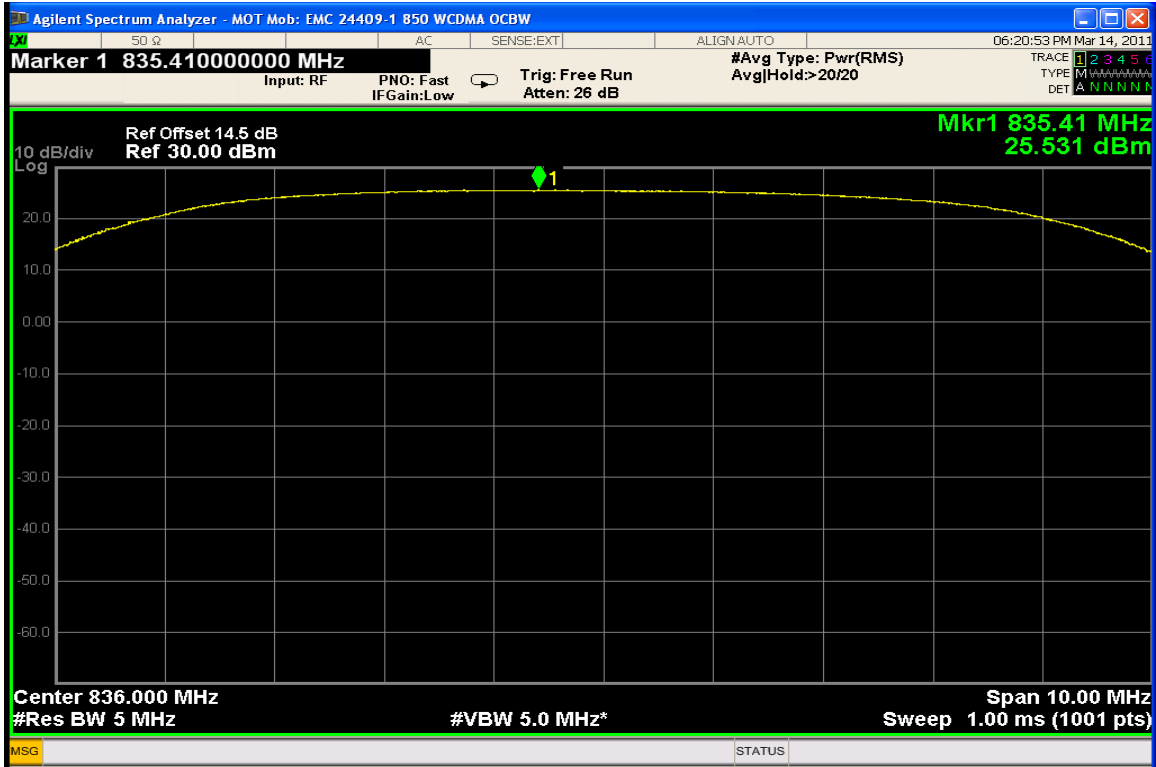


**GSM 1900 EDGE – Lower Band Edge – Channel 512 (1850.2MHz)**

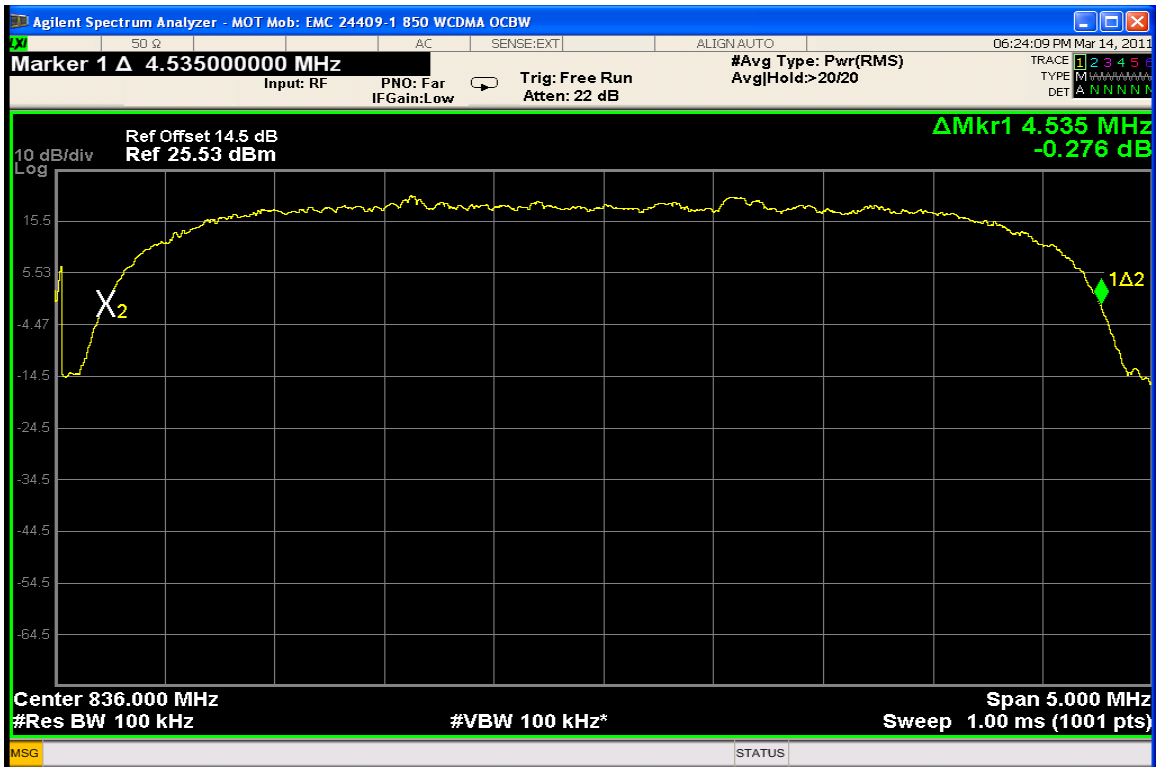


**GSM 1900 EDGE – Upper Band Edge – Channel 810 (1909.8MHz)**

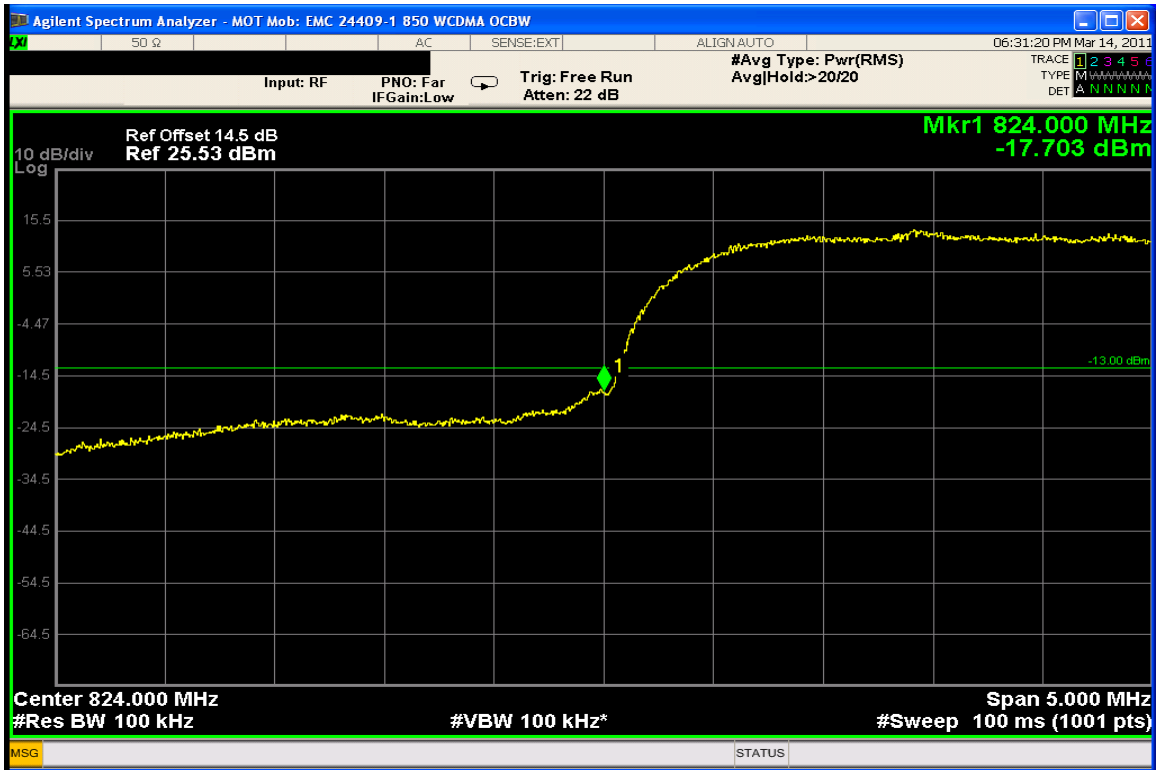
**Measurement Results – WCDMA 850**



**WCDMA 850 – Reference Level Plot – Channel 4180 (836.00 MHz)**



**WCDMA 850 – Occupied Bandwidth – Channel 4180 (836.00 MHz)**

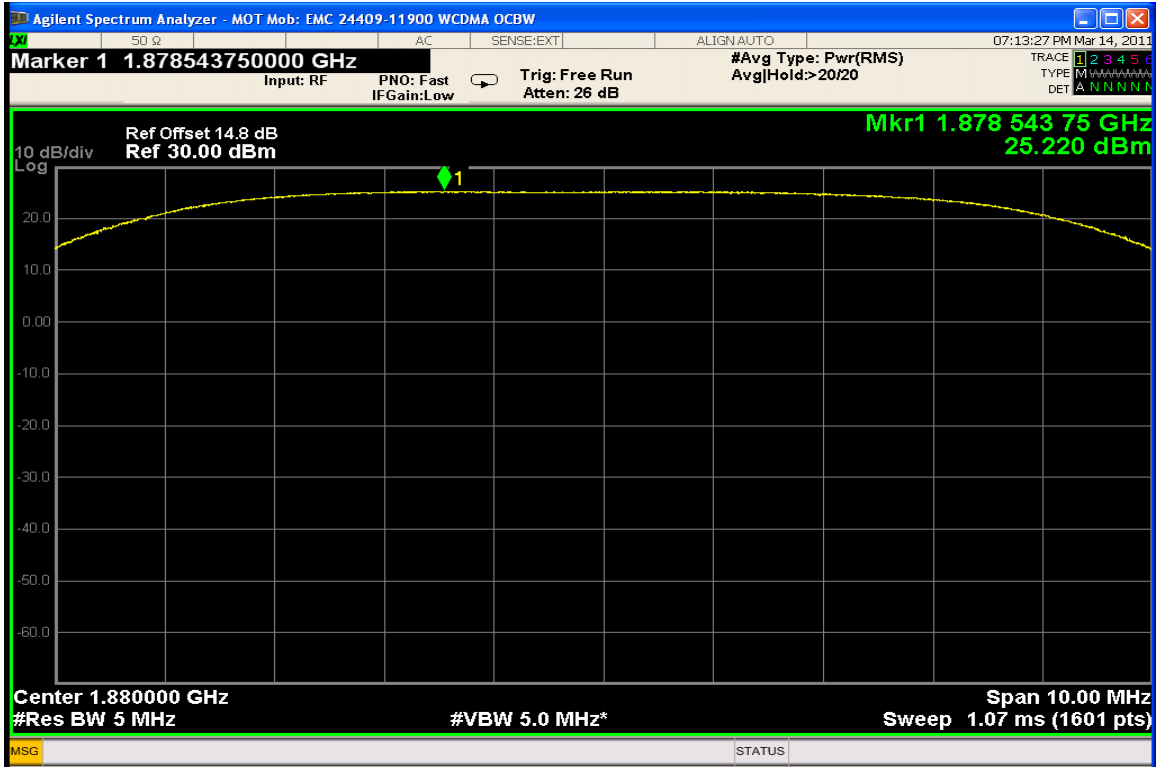


WCDMA 850 – Lower Band Edge – Channel 4132 (826.40 MHz)

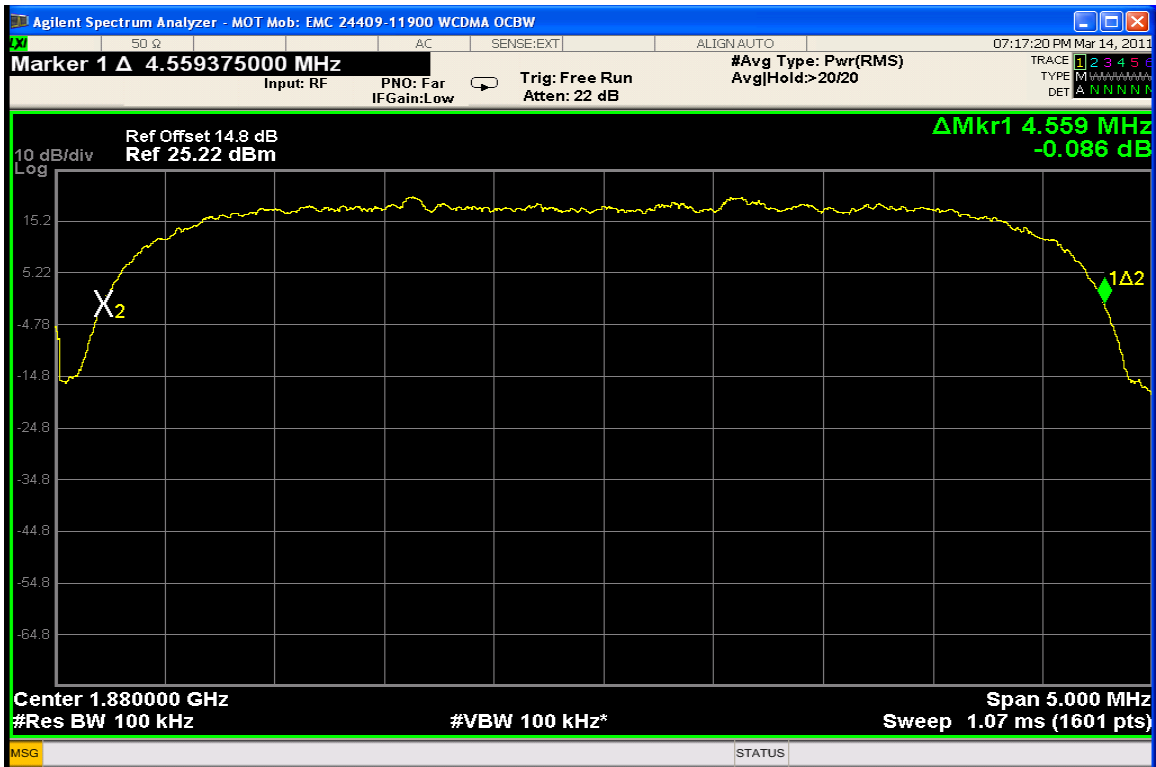


WCDMA 850 – Upper Band Edge – Channel 4233 (846.60 MHz)

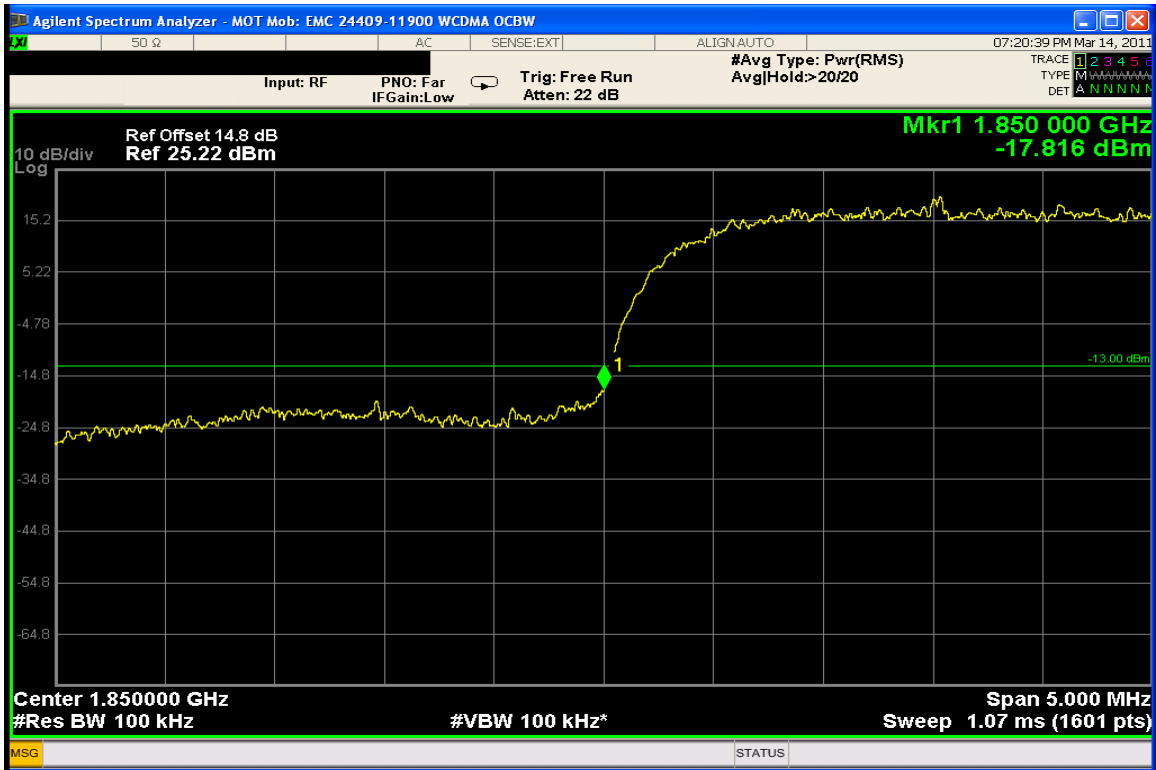
**Measurement Results – WCDMA 1900**



**WCDMA 1900 – Reference Level Plot – Channel 9400 (1880.00 MHz)**



**WCDMA 1900 – Occupied Bandwidth – Channel 9400 (1880.00 MHz)**

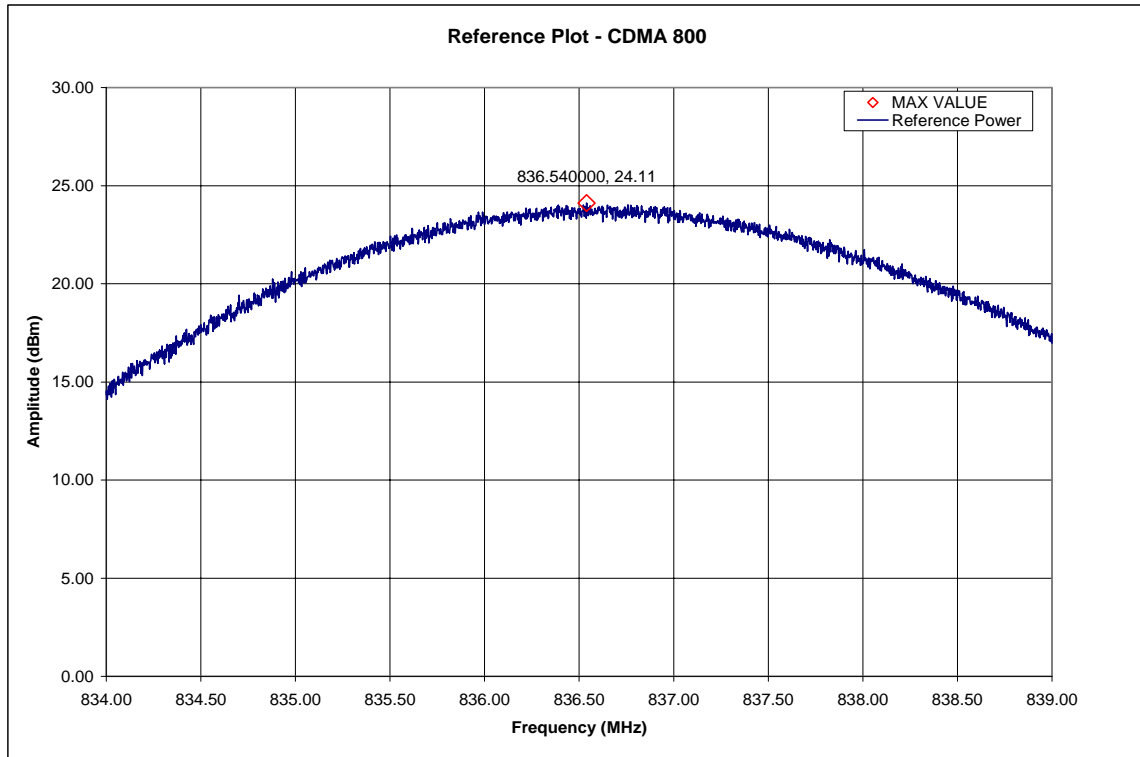


WCDMA 1900 – Lower Band Edge – Channel 9262 (1852.40 MHz)

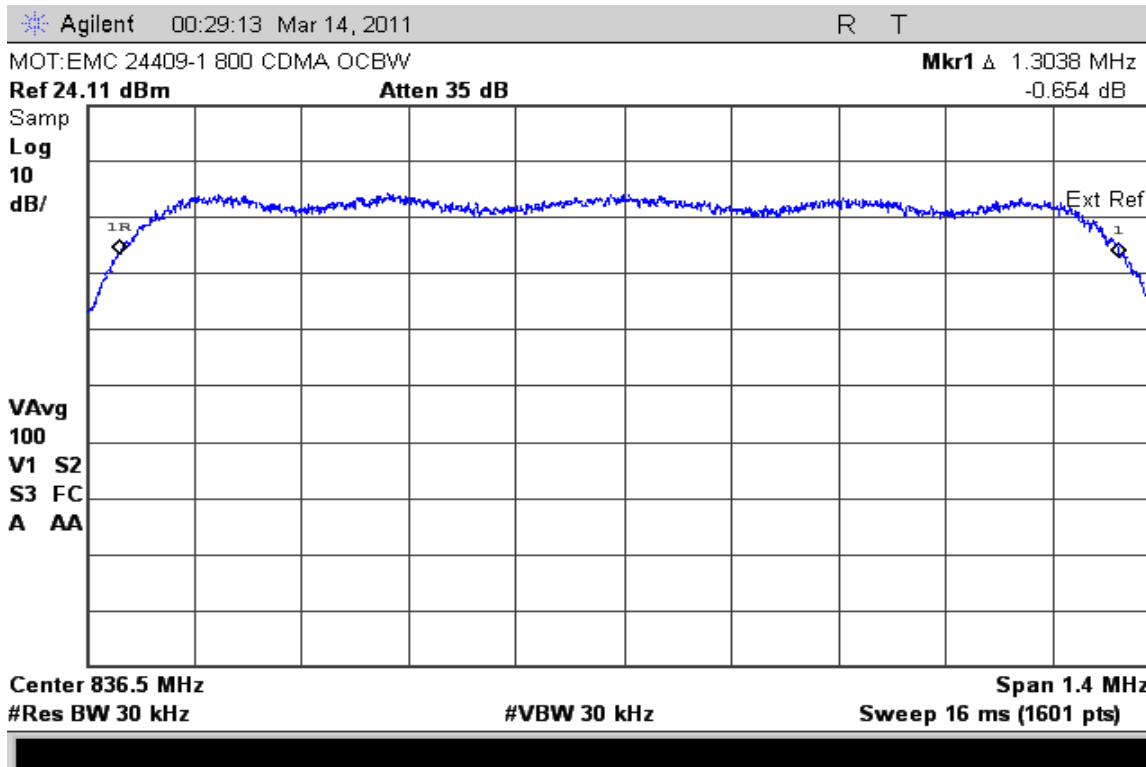


WCDMA 1900 – Upper Band Edge – Channel 9538 (1907.60 MHz)

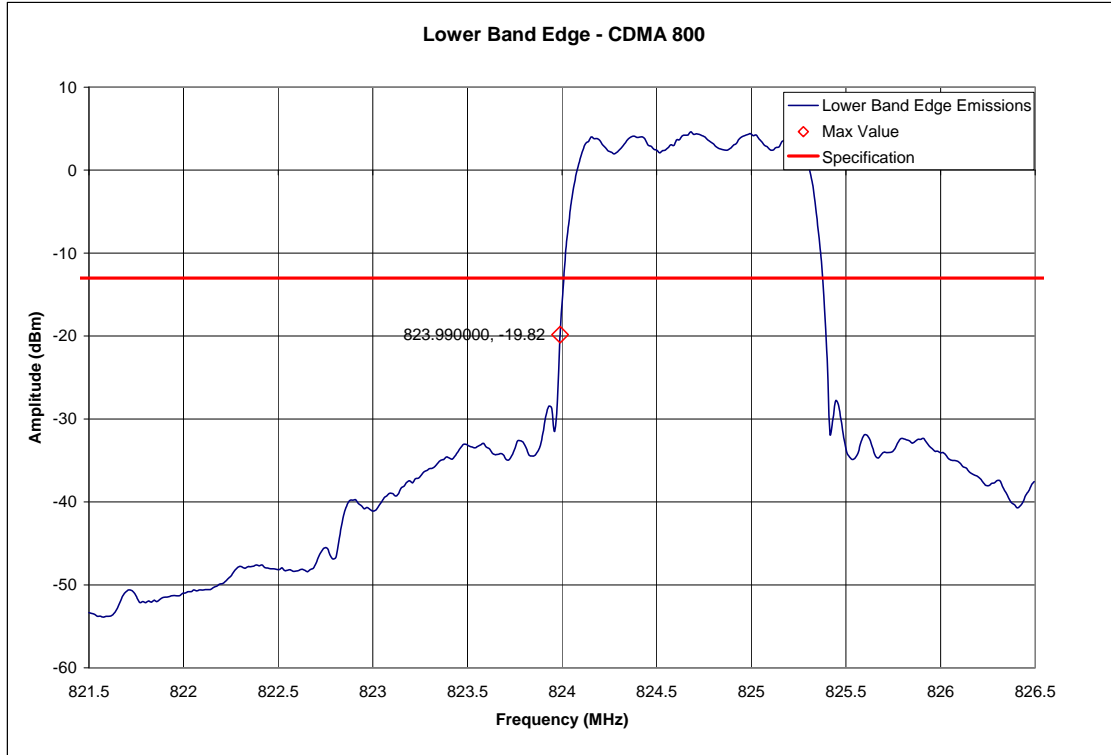
**Measurement Results – CDMA 800**



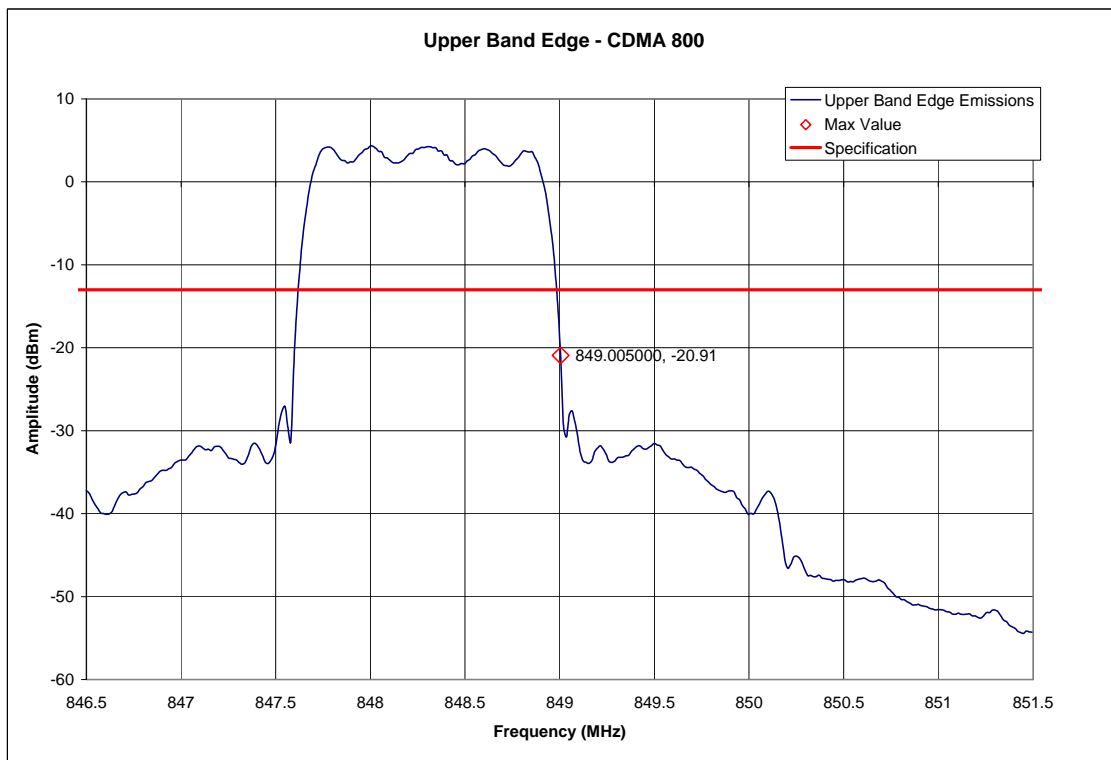
**CDMA 800 – Reference Level Plot – Channel 384 (836.52MHz)**



**CDMA 800 – Occupied Bandwidth – Channel 384 (836.52MHz)**

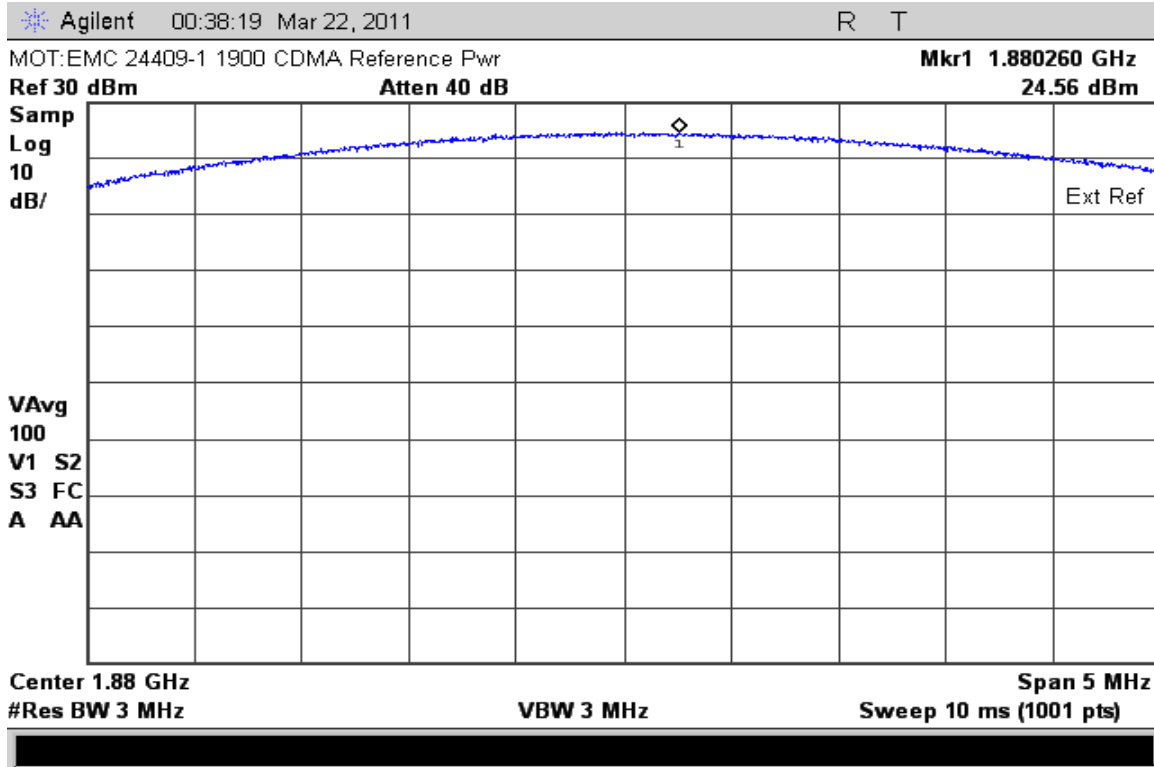


**CDMA 800 – Lower Band Edge – Channel 1013 (824.702MHz)**

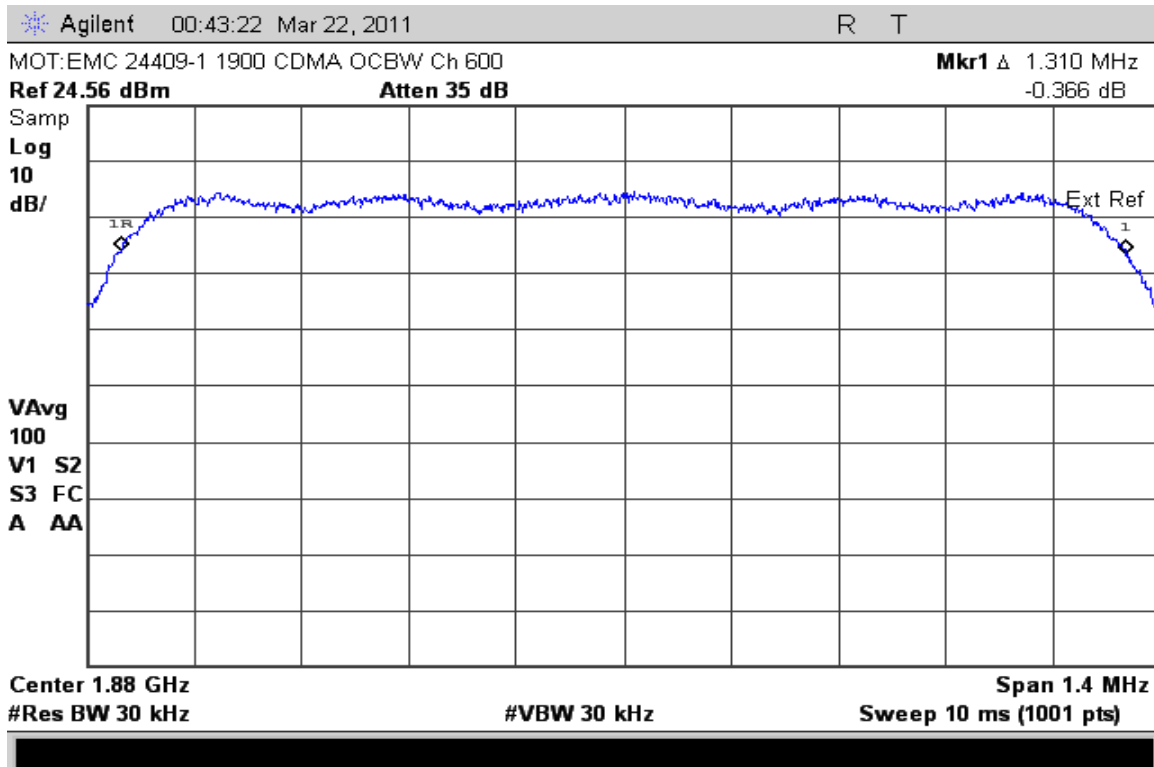


**CDMA 800 – Upper Band Edge – Channel 777 (848.31MHz)**

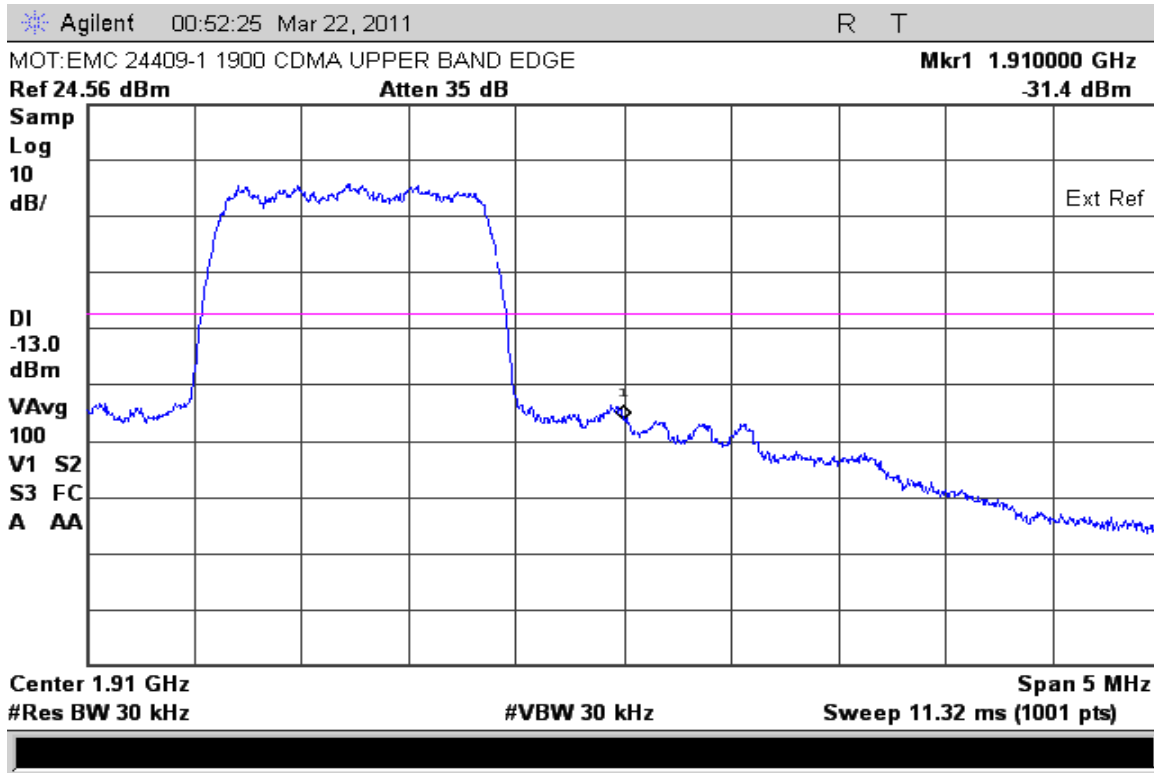
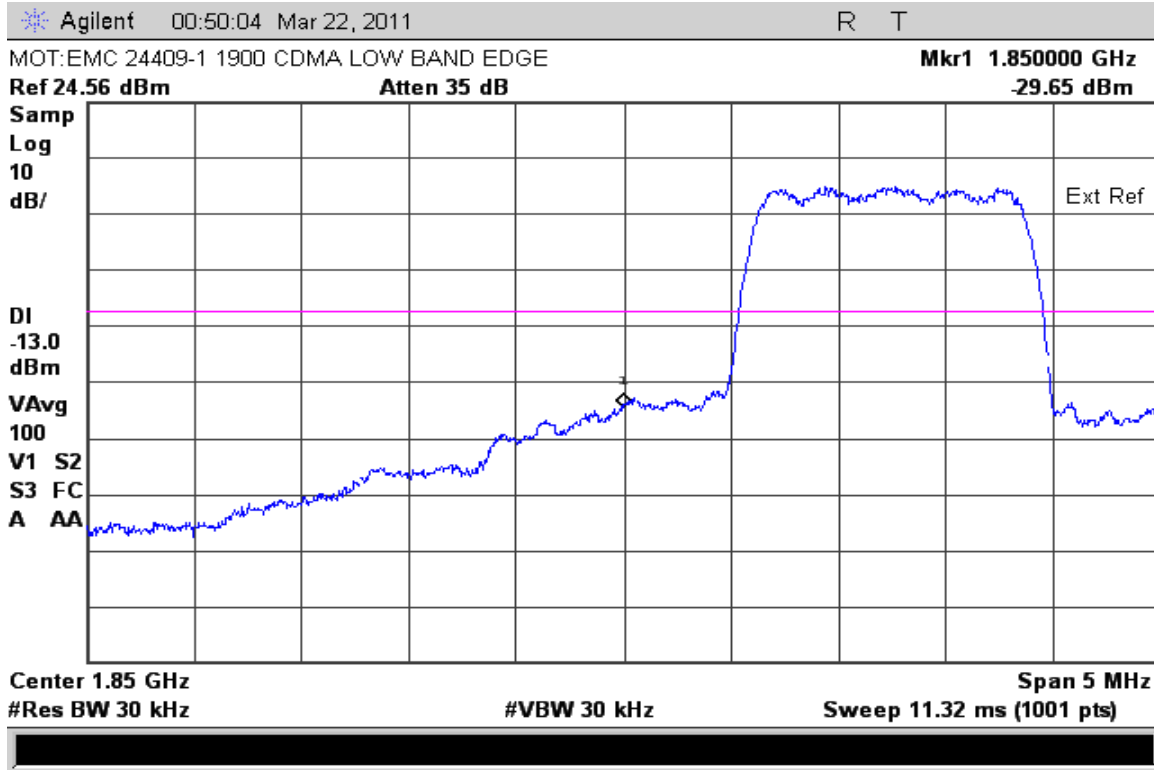
**Measurement Results – CDMA 1900**



**CDMA 1900 – Reference Level Plot – Channel 600 (1880.00 MHz)**



**CDMA 1900 – Occupied Bandwidth – Channel 600 (1880.00 MHz)**



## **SPURIOUS EMISSIONS AT ANTENNA TERMINALS**

### **Measurement Procedure**

The RF output port of the Equipment Under Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

The spectrum was investigated from the lowest frequency signal generated, without going below 9 kHz, up to at least the tenth harmonic of the fundamental or 40 GHz, whichever is lower.

The spectrum analyzer settings were as follows:

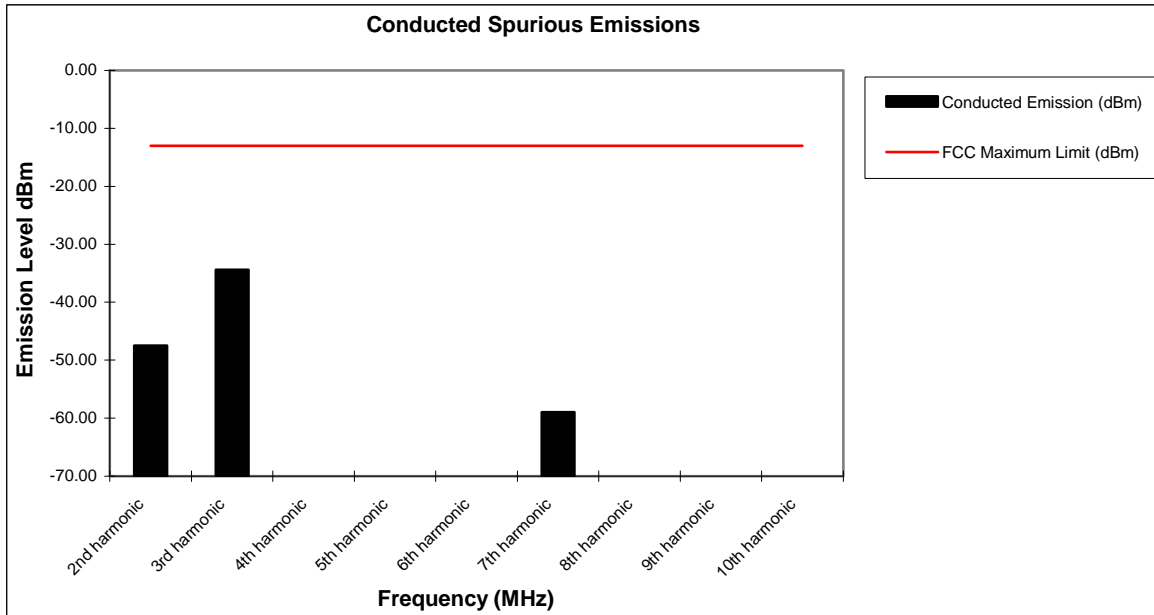
Units	dBm
Divisions	10 dB
Detector	Peak Detector
Resolution Bandwidth	1 MHz
Video Bandwidth (AVG)	Auto
Sweep Time	Auto

### **Measurement Results**

Attached

**Measurement Results**  
**Modulation: GSM 850**

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-47.47
3rd harmonic	-13	-34.38
4th harmonic	-13	*
5th harmonic	-13	*
6th harmonic	-13	*
7th harmonic	-13	-58.94
8th harmonic	-13	*
9th harmonic	-13	*
10th harmonic	-13	*



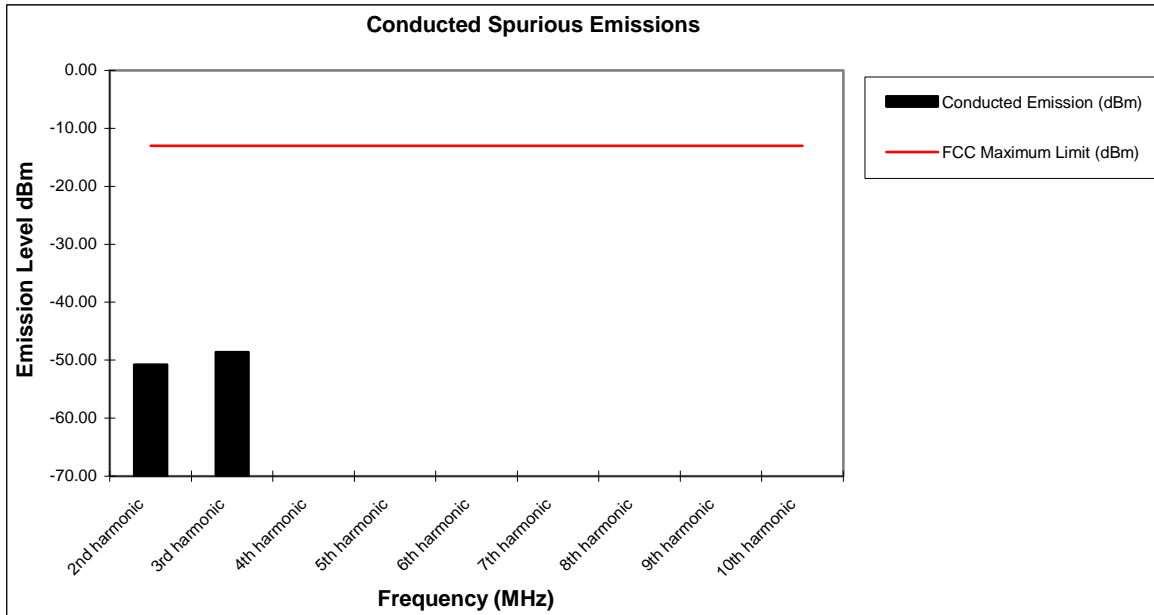
**Notes:**

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results**  
**Modulation: EDGE 850**

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-50.80
3rd harmonic	-13	-48.61
4th harmonic	-13	*
5th harmonic	-13	*
6th harmonic	-13	*
7th harmonic	-13	*
8th harmonic	-13	*
9th harmonic	-13	*
10th harmonic	-13	*



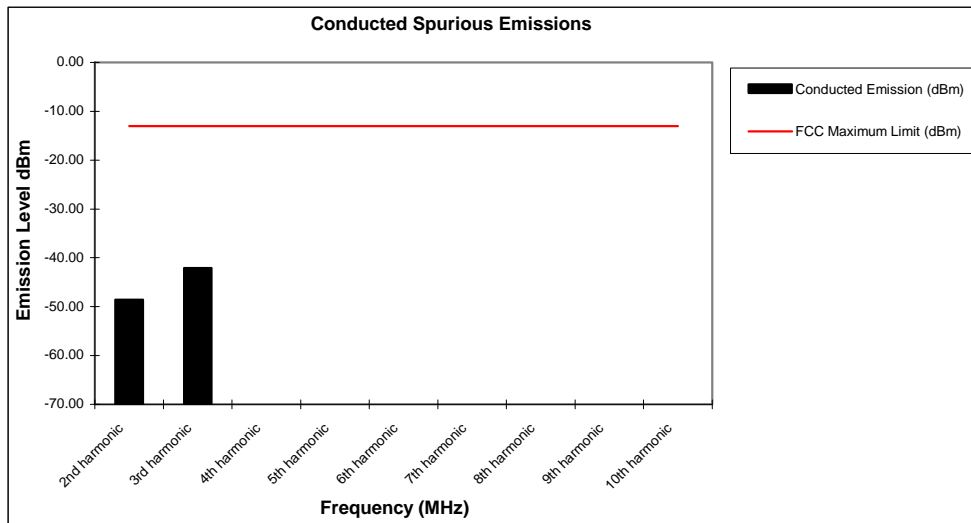
Notes:

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results**  
**Modulation: GSM 1900**

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-48.58
3rd harmonic	-13	-42.10
4th harmonic	-13	*
5th harmonic	-13	*
6th harmonic	-13	*
7th harmonic	-13	*
8th harmonic	-13	*
9th harmonic	-13	*
10th harmonic	-13	*



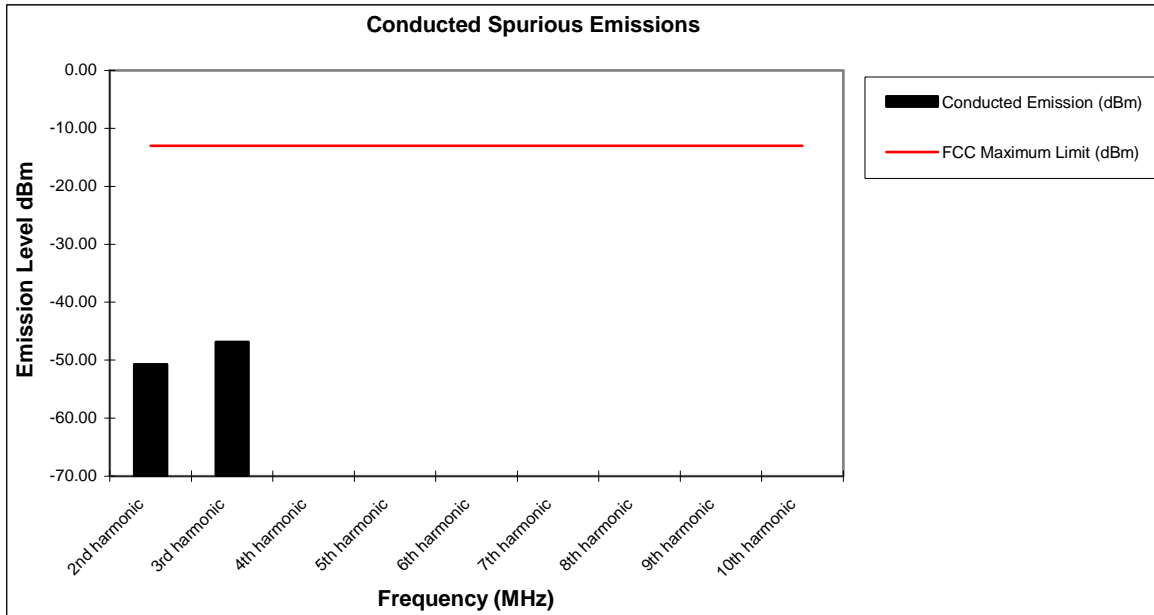
**Notes:**

- \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results**  
**Modulation: EDGE 1900**

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-50.75
3rd harmonic	-13	-46.84
4th harmonic	-13	*
5th harmonic	-13	*
6th harmonic	-13	*
7th harmonic	-13	*
8th harmonic	-13	*
9th harmonic	-13	*
10th harmonic	-13	*



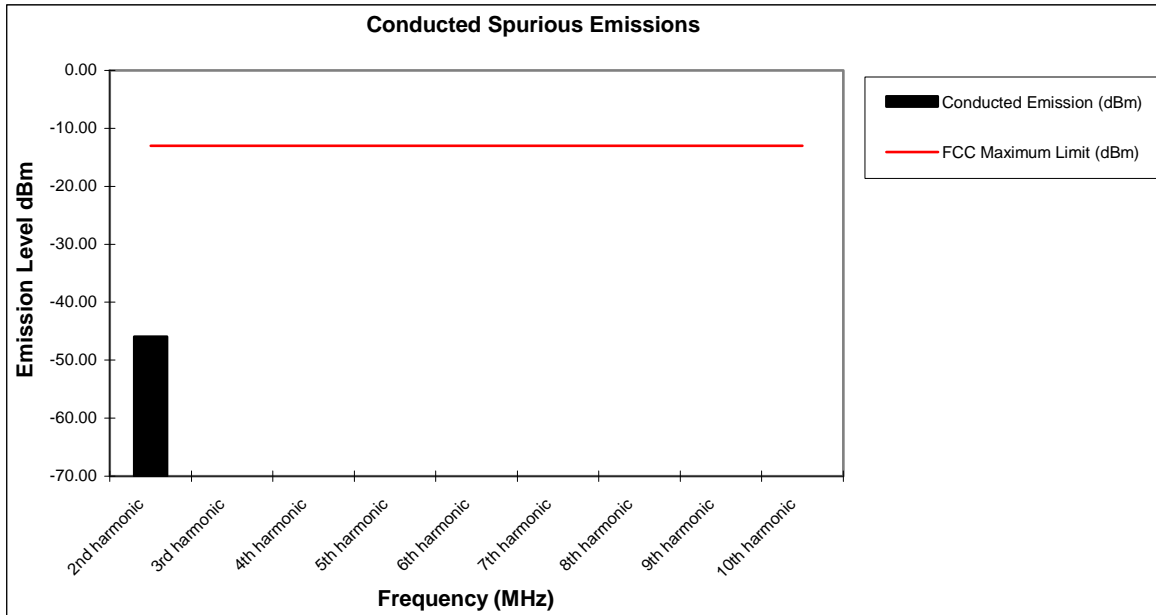
Notes:

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results**  
**Modulation: WCDMA 850**

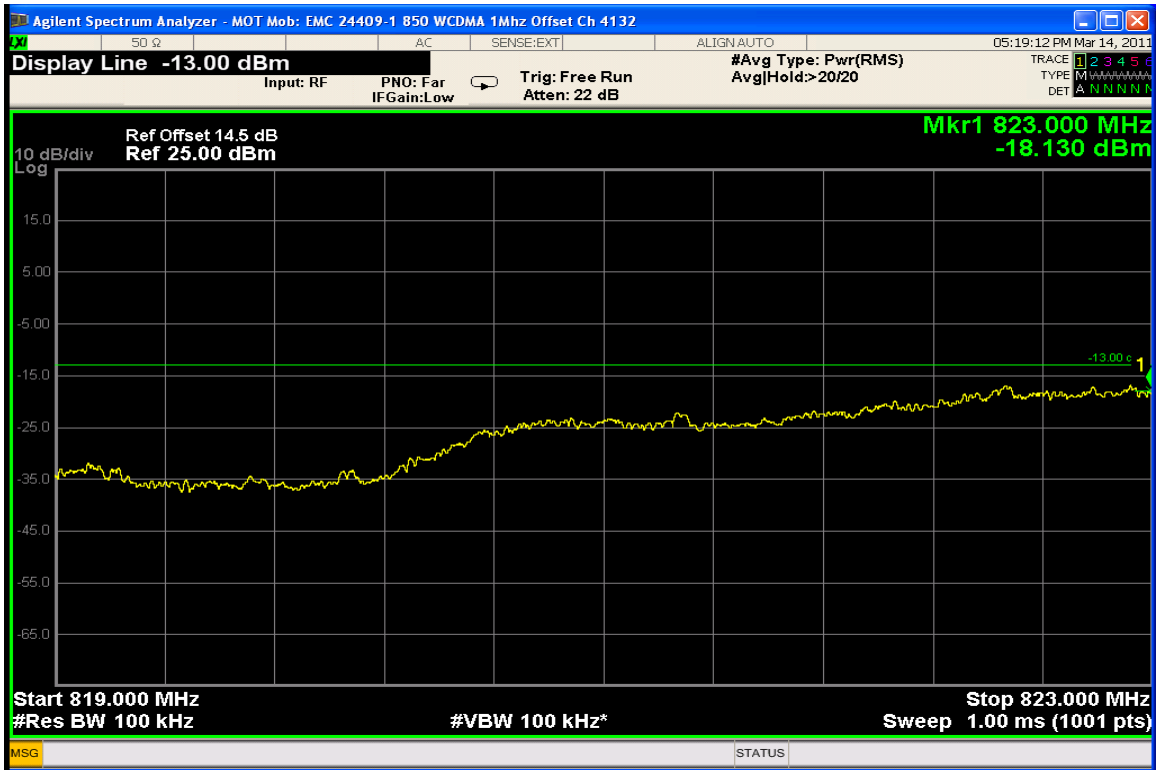
Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-45.92
3rd harmonic	-13	*
4th harmonic	-13	*
5th harmonic	-13	*
6th harmonic	-13	*
7th harmonic	-13	*
8th harmonic	-13	*
9th harmonic	-13	*
10th harmonic	-13	*



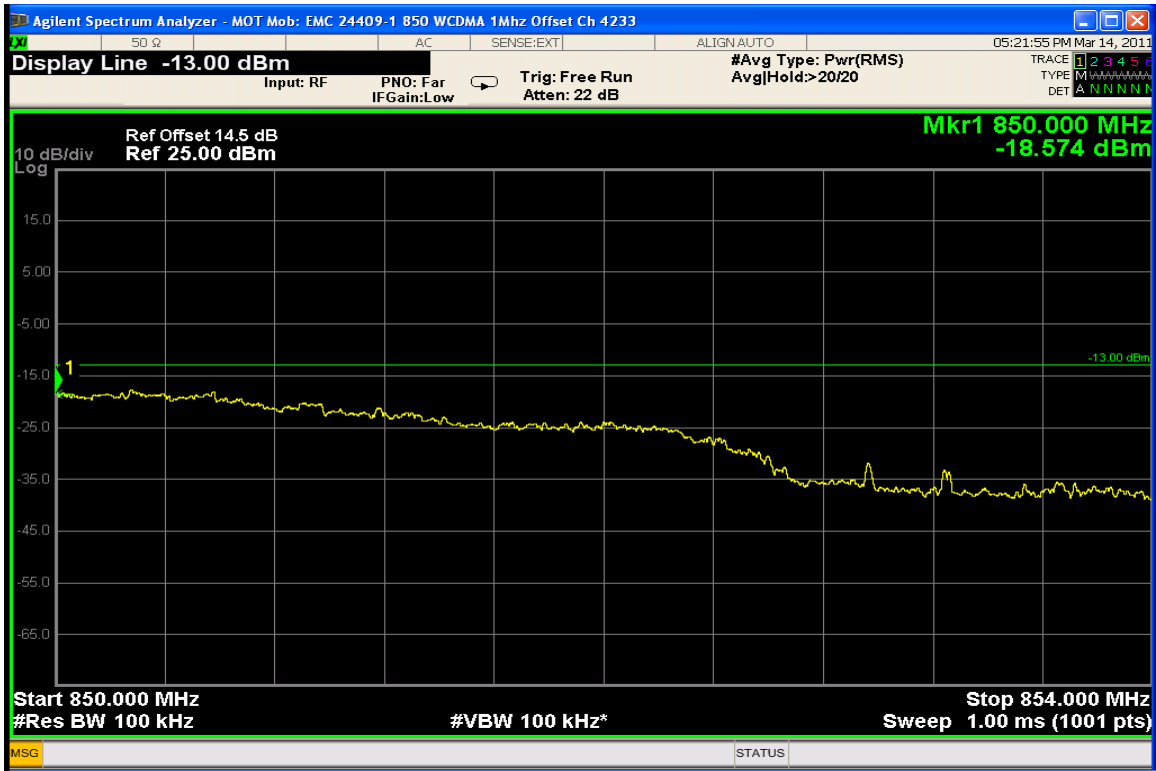
**Notes:**

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.



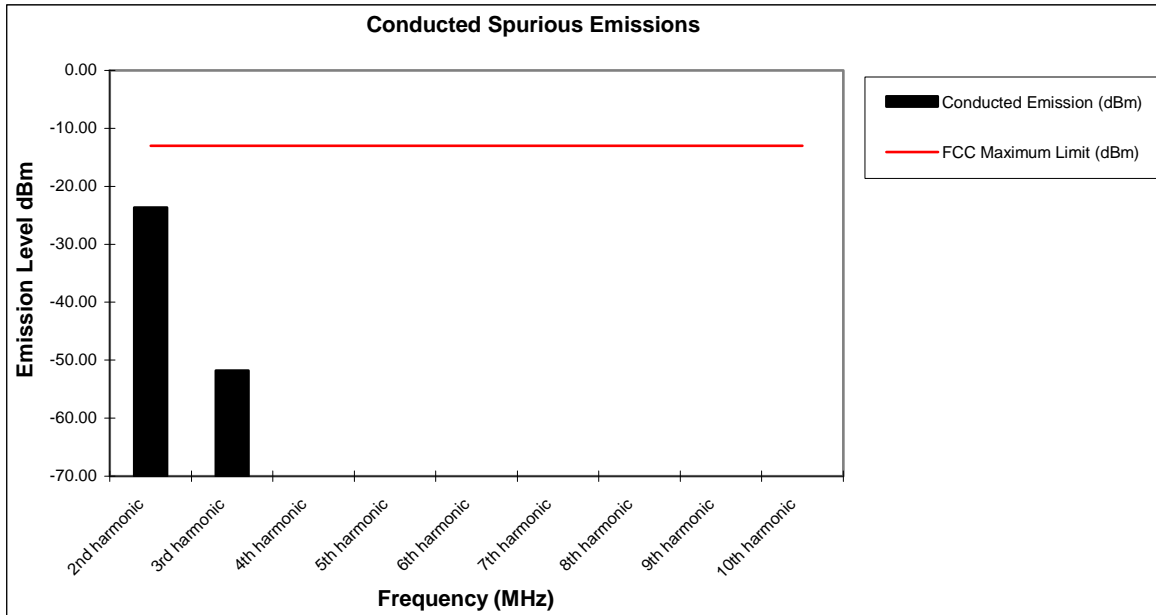
850 WCDMA Conducted Spurious Emissions (Lower adjacent 1 MHz band)



850 WCDMA Conducted Spurious Emissions (Upper adjacent 1 MHz band)

**Measurement Results**  
**Modulation: WCDMA 1900**

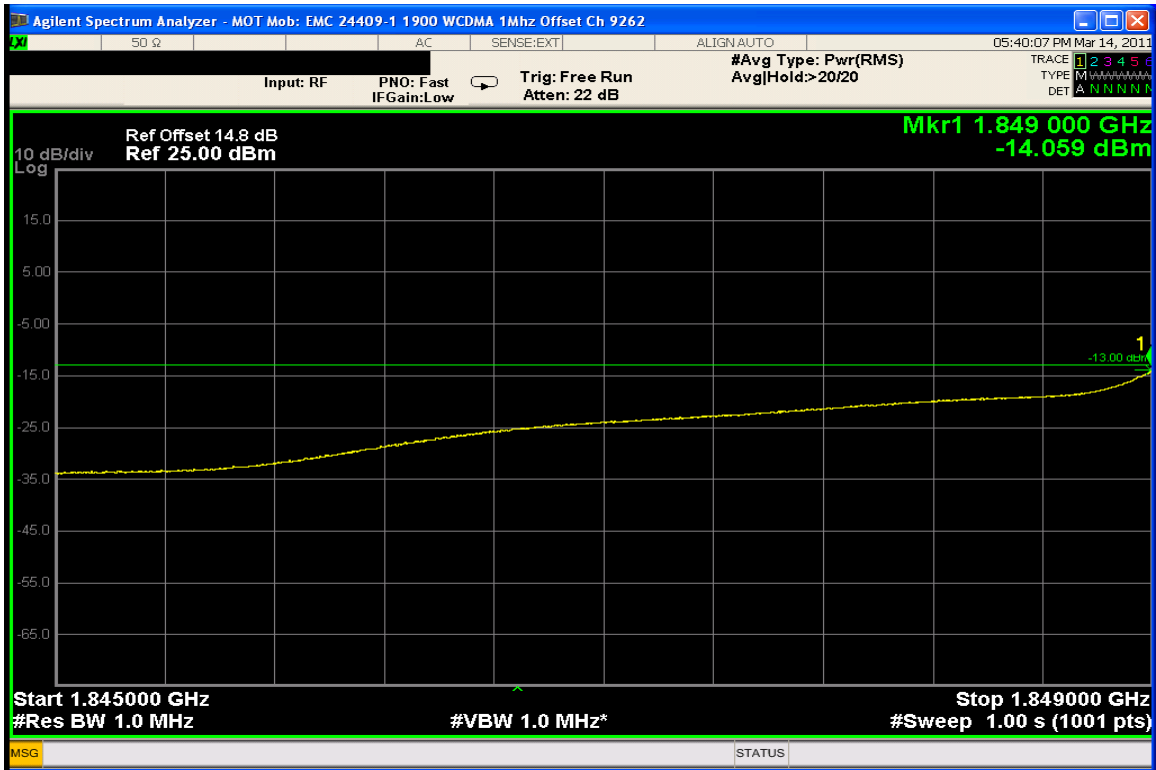
Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-23.68
3rd harmonic	-13	-51.78
4th harmonic	-13	*
5th harmonic	-13	*
6th harmonic	-13	*
7th harmonic	-13	*
8th harmonic	-13	*
9th harmonic	-13	*
10th harmonic	-13	*



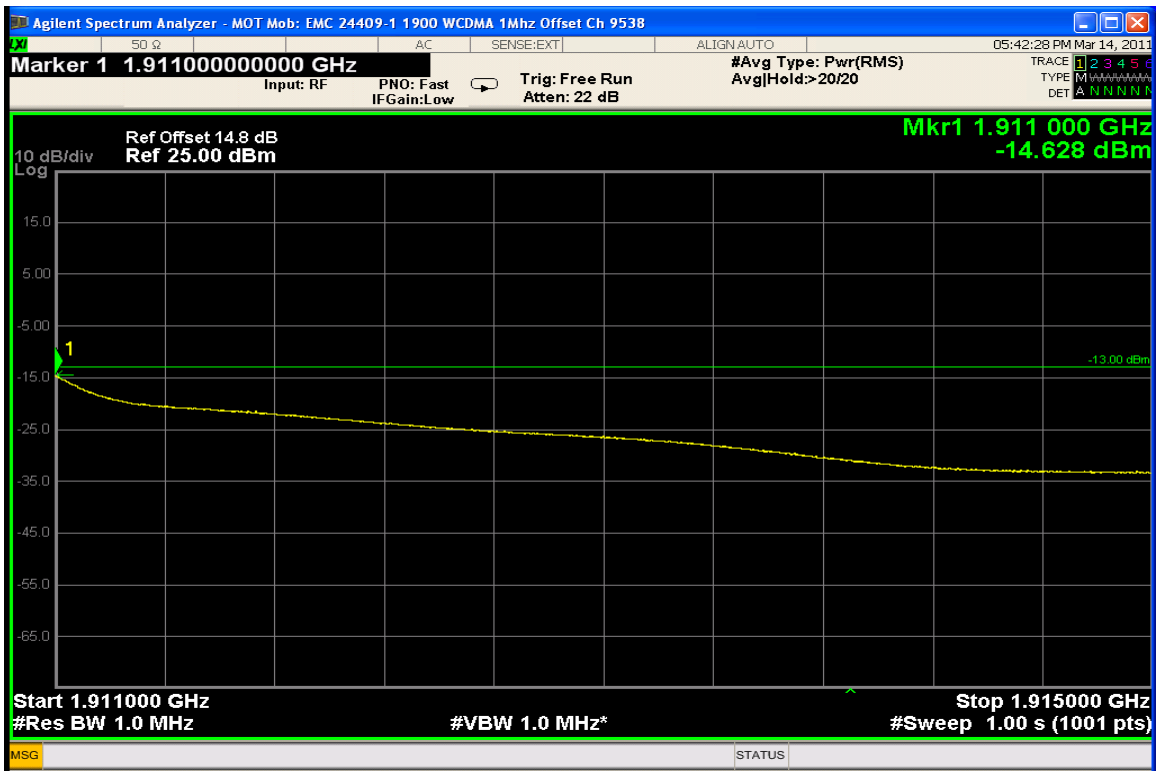
**Notes:**

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.



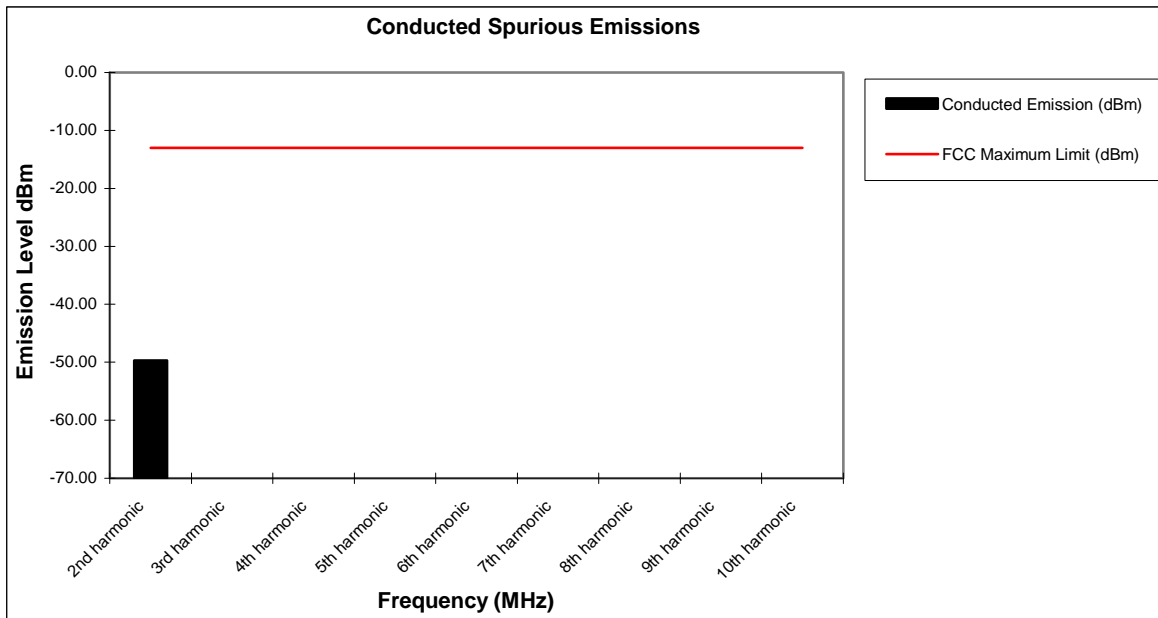
1900 WCDMA Conducted Spurious Emissions (Lower adjacent 1 MHz band)



1900 WCDMA Conducted Spurious Emissions (Upper adjacent 1 MHz band)

**Measurement Results**  
**Modulation: CDMA 800**

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-49.71
3rd harmonic	-13	*
4th harmonic	-13	*
5th harmonic	-13	*
6th harmonic	-13	*
7th harmonic	-13	*
8th harmonic	-13	*
9th harmonic	-13	*
10th harmonic	-13	*



Notes:

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.



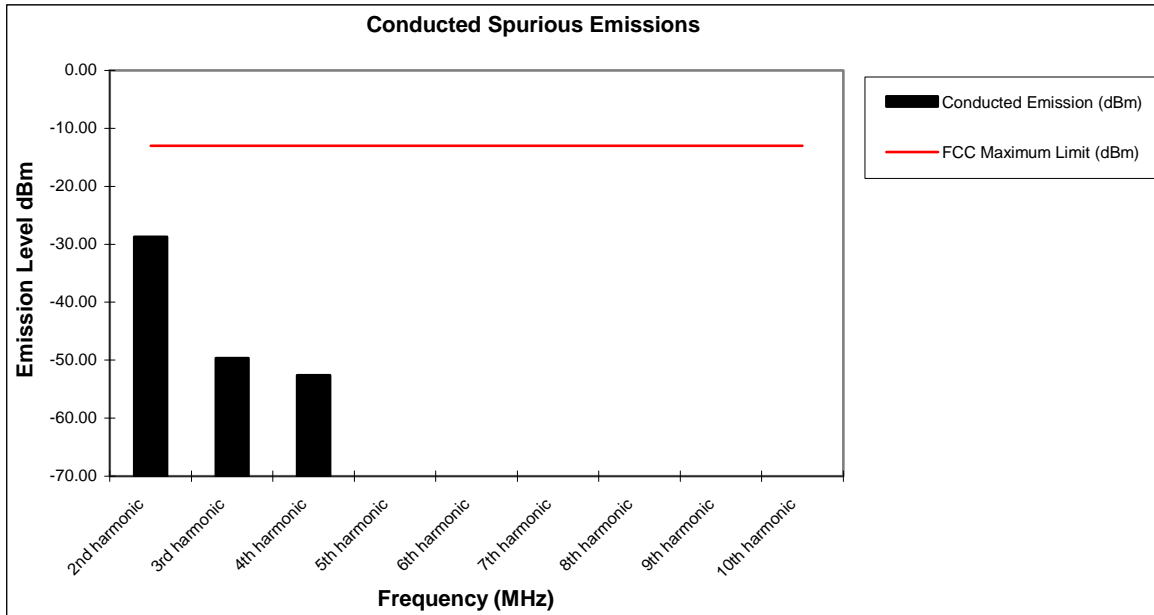
CDMA 800 Conducted Spurious Emissions (Lower adjacent 1 MHz band)



CDMA 800 Conducted Spurious Emissions (Upper adjacent 1 MHz band)

**Measurement Results**  
**Modulation: CDMA 1900**

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-28.69
3rd harmonic	-13	-49.64
4th harmonic	-13	-52.59
5th harmonic	-13	*
6th harmonic	-13	*
7th harmonic	-13	*
8th harmonic	-13	*
9th harmonic	-13	*
10th harmonic	-13	*



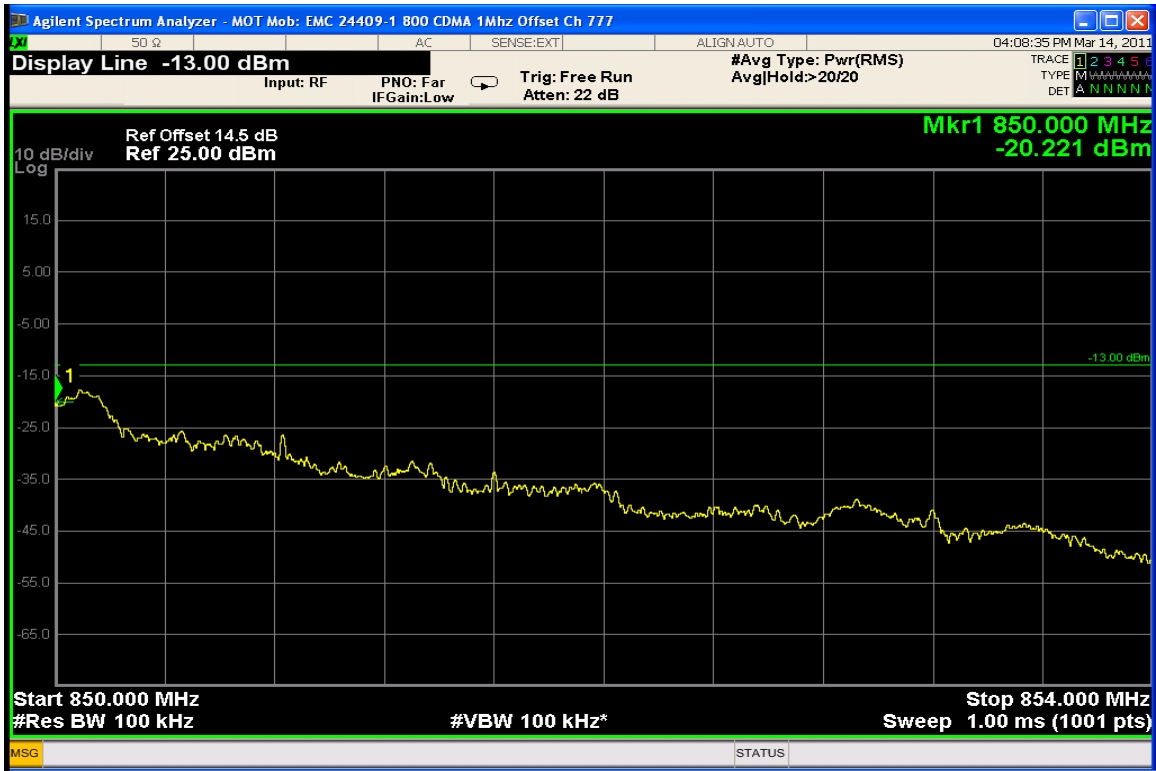
**Notes:**

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.



PCS Conducted Spurious Emissions (Lower adjacent 1 MHz band)



PCS Conducted Spurious Emissions (Upper adjacent 1 MHz band)

**FIELD STRENGTH OF SPURIOUS EMISSIONS**

**Measurement Procedure**

The equipment under test is placed inside the semi-anechoic chamber on a wooden table at the turntable center. For each spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum reading on the spectrum analyzer. This is repeated for both horizontal and vertical polarizations of the receive antenna.

The equipment under test is then replaced with a substitution antenna fed by a signal generator. With the signal generator tuned to a particular spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters to obtain a maximum reading at the spectrum analyzer. The output of the signal generator is then adjusted until a reading identical to that obtained with the actual transmitter is achieved.

The power in dBm of each spurious emission is calculated by correcting the signal generator level for cable loss and gain of the substitution antenna referenced to a dipole. A fully charged battery was used for the supply voltage.

The settings of the receiver were as follows:

Units	dBm
Divisions	5 dB
Detector	Peak Detector
Resolution Bandwidth	1 MHz
Video Bandwidth (AVG)	Auto
Sweep Time	Auto

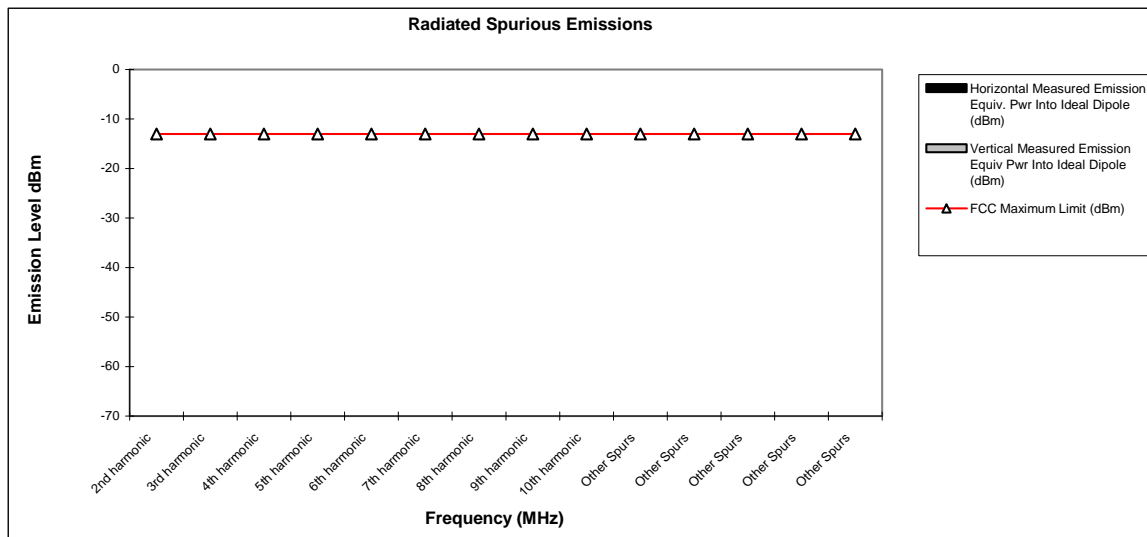
**Measurement Results**

Attached

**Measurement Results – GSM 850, slide opened**

**Radiated Spurious and Harmonic Emissions**

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	*	*
3rd harmonic	-13	*	*
4th harmonic	-13	*	*
5th harmonic	-13	*	*
6th harmonic	-13	*	*
7th harmonic	-13	*	*
8th harmonic	-13	*	*
9th harmonic	-13	*	*
10th harmonic	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*



Notes:

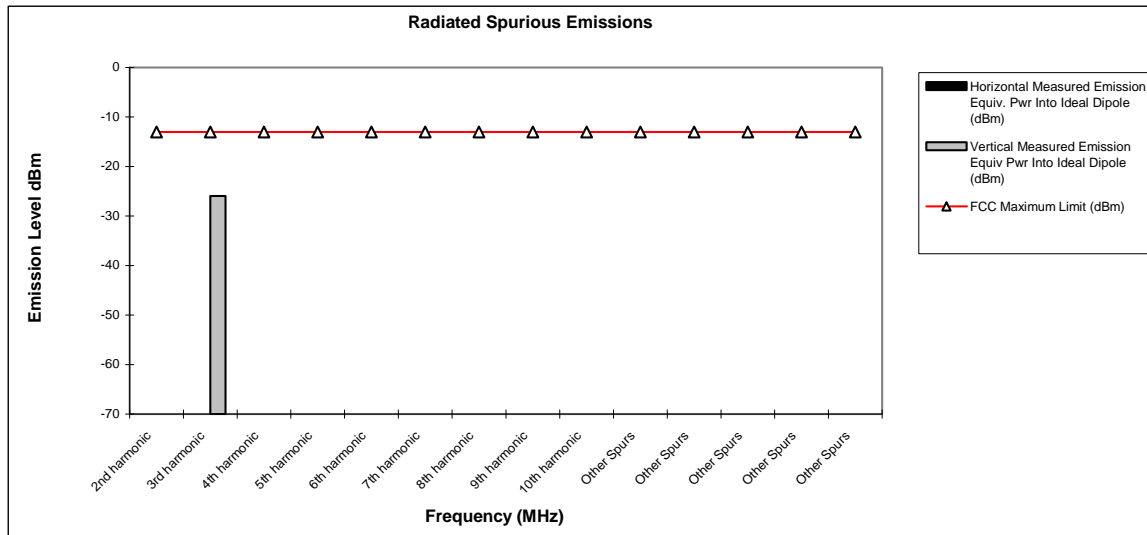
- \* Indicates the spurious emission could not be detected due to noise limitations or ambients or the emissions are lower than -33 dBm.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results – GSM 850, slide closed**

**Radiated Spurious and Harmonic Emissions**

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	*	*
3rd harmonic	-13	*	-26.0
4th harmonic	-13	*	*
5th harmonic	-13	*	*
6th harmonic	-13	*	*
7th harmonic	-13	*	*
8th harmonic	-13	*	*
9th harmonic	-13	*	*
10th harmonic	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*



Notes:

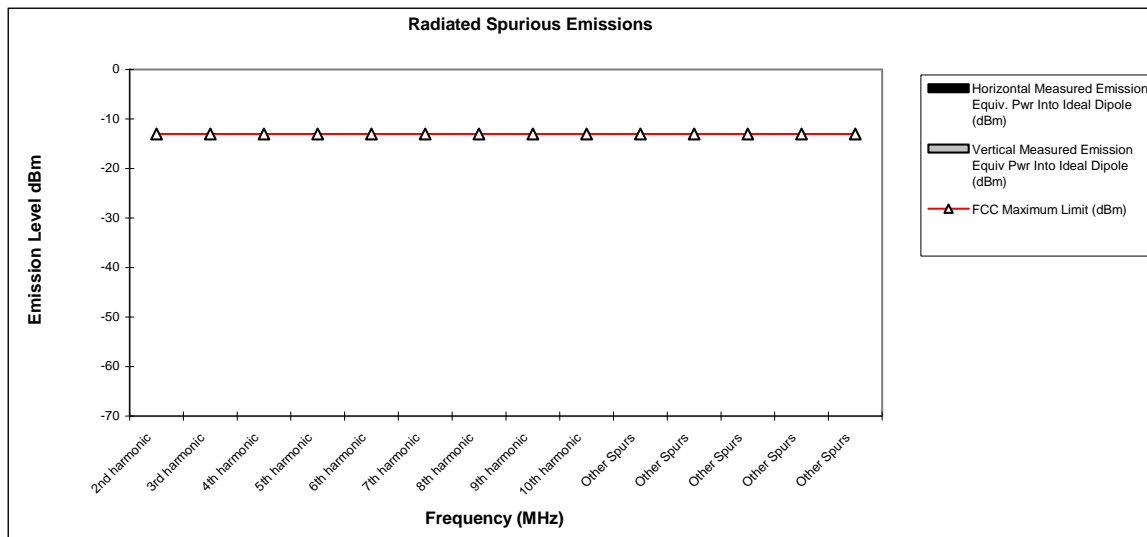
- \* Indicates the spurious emission could not be detected due to noise limitations or ambients or the emissions are lower than -33 dBm.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results – EDGE 850 and WCDMA 850, slide opened and closed**

**Radiated Spurious and Harmonic Emissions**

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	*	*
3rd harmonic	-13	*	*
4th harmonic	-13	*	*
5th harmonic	-13	*	*
6th harmonic	-13	*	*
7th harmonic	-13	*	*
8th harmonic	-13	*	*
9th harmonic	-13	*	*
10th harmonic	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*



Notes:

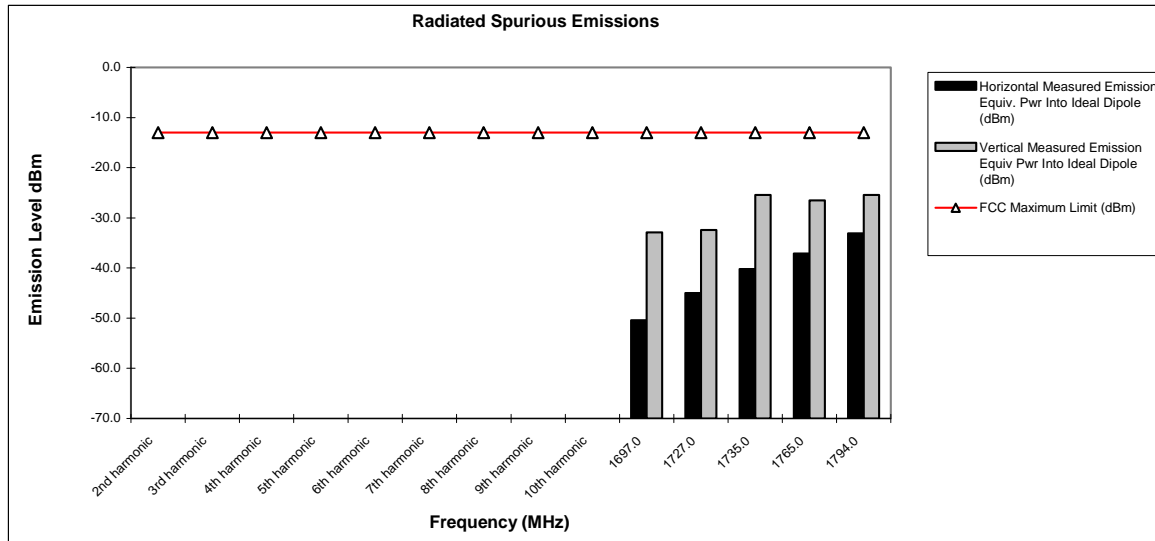
- \* Indicates the spurious emission could not be detected due to noise limitations or ambients or the emissions are lower than -33 dBm.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results – GSM 1900, slide opened**

**Radiated Spurious and Harmonic Emissions**

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	*	*
3rd harmonic	-13	*	*
4th harmonic	-13	*	*
5th harmonic	-13	*	*
6th harmonic	-13	*	*
7th harmonic	-13	*	*
8th harmonic	-13	*	*
9th harmonic	-13	*	*
10th harmonic	-13	*	*
1697.0	-13	-50.4	-32.9
1727.0	-13	-45.0	-32.4
1735.0	-13	-40.2	-25.4
1765.0	-13	-37.1	-26.5
1794.0	-13	-33.1	-25.4



Notes:

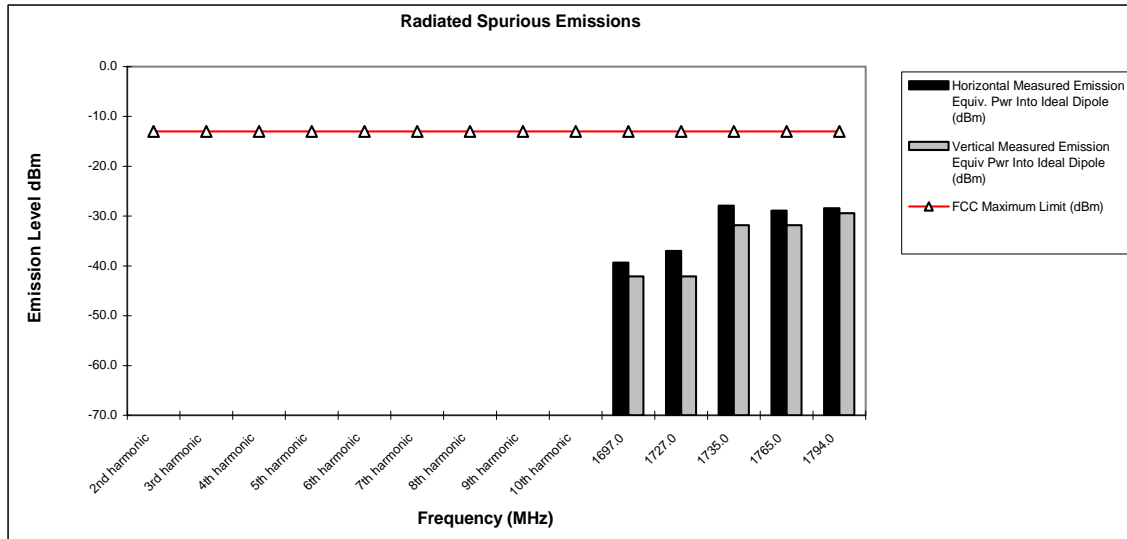
- \* Indicates the spurious emission could not be detected due to noise limitations or ambients or the emissions are lower than -33 dBm.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results – GSM 1900, slide closed**

**Radiated Spurious and Harmonic Emissions**

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	*	*
3rd harmonic	-13	*	*
4th harmonic	-13	*	*
5th harmonic	-13	*	*
6th harmonic	-13	*	*
7th harmonic	-13	*	*
8th harmonic	-13	*	*
9th harmonic	-13	*	*
10th harmonic	-13	*	*
1697.0	-13	-39.3	-42.1
1727.0	-13	-37.0	-42.1
1735.0	-13	-27.9	-31.8
1765.0	-13	-28.9	-31.8
1794.0	-13	-28.4	-29.4



Notes:

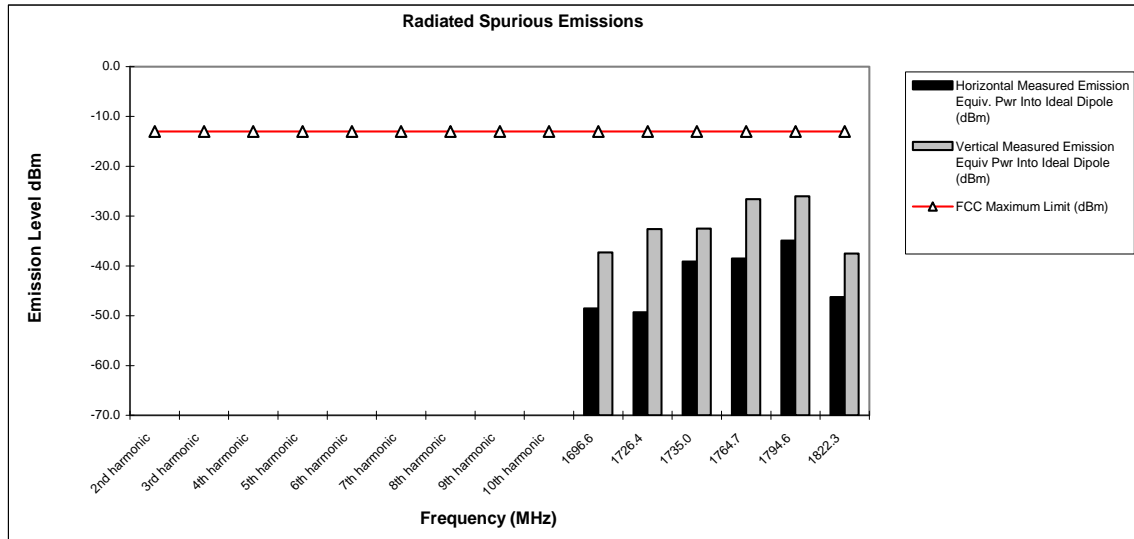
- \* Indicates the spurious emission could not be detected due to noise limitations or ambients or the emissions are lower than -33 dBm.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results – EDGE 1900, slide opened**

**Radiated Spurious and Harmonic Emissions**

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	*	*
3rd harmonic	-13	*	*
4th harmonic	-13	*	*
5th harmonic	-13	*	*
6th harmonic	-13	*	*
7th harmonic	-13	*	*
8th harmonic	-13	*	*
9th harmonic	-13	*	*
10th harmonic	-13	*	*
1696.6	-13	-48.5	-37.3
1726.4	-13	-49.3	-32.6
1735.0	-13	-39.1	-32.5
1764.7	-13	-38.5	-26.6
1794.6	-13	-34.9	-26.0
1822.3	-13	-46.2	-37.5



Notes:

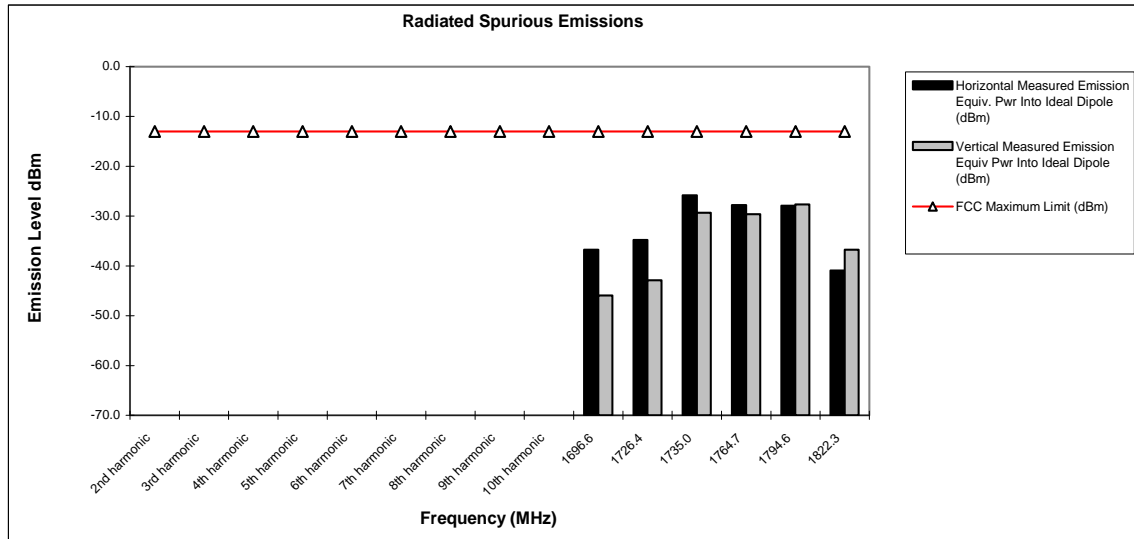
- \* Indicates the spurious emission could not be detected due to noise limitations or ambients or the emissions are lower than -33 dBm.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results – EDGE 1900, slide closed**

**Radiated Spurious and Harmonic Emissions**

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	*	*
3rd harmonic	-13	*	*
4th harmonic	-13	*	*
5th harmonic	-13	*	*
6th harmonic	-13	*	*
7th harmonic	-13	*	*
8th harmonic	-13	*	*
9th harmonic	-13	*	*
10th harmonic	-13	*	*
1696.6	-13	-36.7	-45.9
1726.4	-13	-34.8	-42.9
1735.0	-13	-25.8	-29.3
1764.7	-13	-27.8	-29.6
1794.6	-13	-27.9	-27.6
1822.3	-13	-40.9	-36.7



Notes:

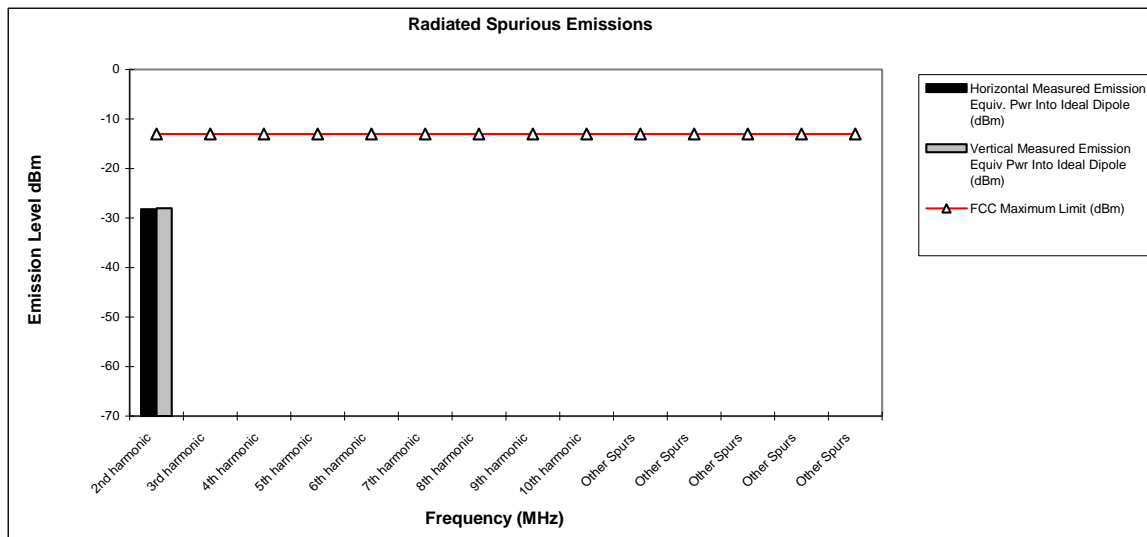
- \* Indicates the spurious emission could not be detected due to noise limitations or ambients or the emissions are lower than -33 dBm.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results – WCDMA 1900, slide opened**

**Radiated Spurious and Harmonic Emissions**

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	-28.2	-28.0
3rd harmonic	-13	*	*
4th harmonic	-13	*	*
5th harmonic	-13	*	*
6th harmonic	-13	*	*
7th harmonic	-13	*	*
8th harmonic	-13	*	*
9th harmonic	-13	*	*
10th harmonic	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*



Notes:

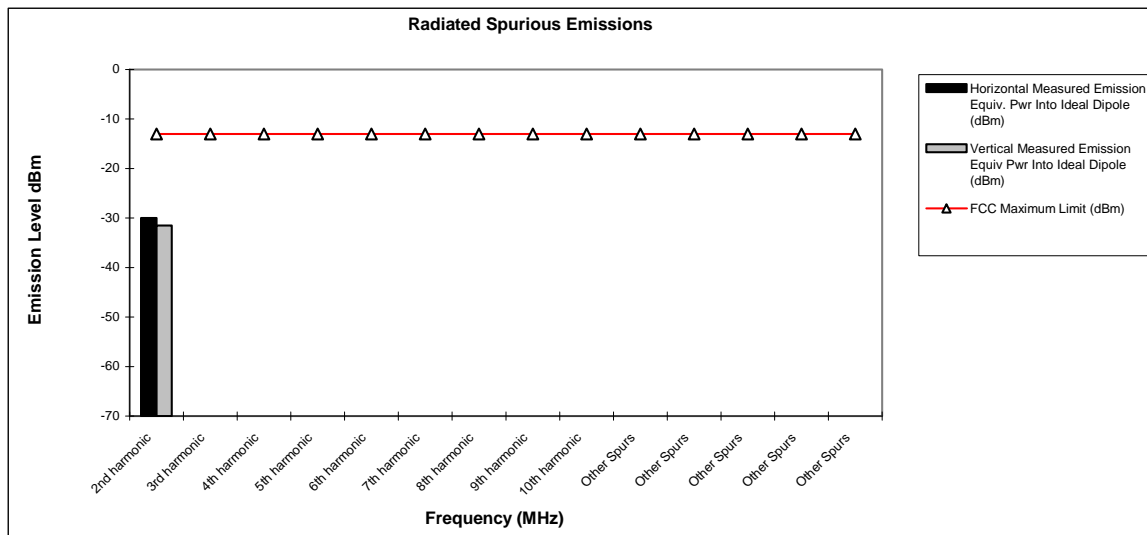
- \* Indicates the spurious emission could not be detected due to noise limitations or ambients or the emissions are lower than -33 dBm.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results – WCDMA 1900, slide closed**

**Radiated Spurious and Harmonic Emissions**

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	-30.0	-31.5
3rd harmonic	-13	*	*
4th harmonic	-13	*	*
5th harmonic	-13	*	*
6th harmonic	-13	*	*
7th harmonic	-13	*	*
8th harmonic	-13	*	*
9th harmonic	-13	*	*
10th harmonic	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*



Notes:

- \* Indicates the spurious emission could not be detected due to noise limitations or ambients or the emissions are lower than -33 dBm.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

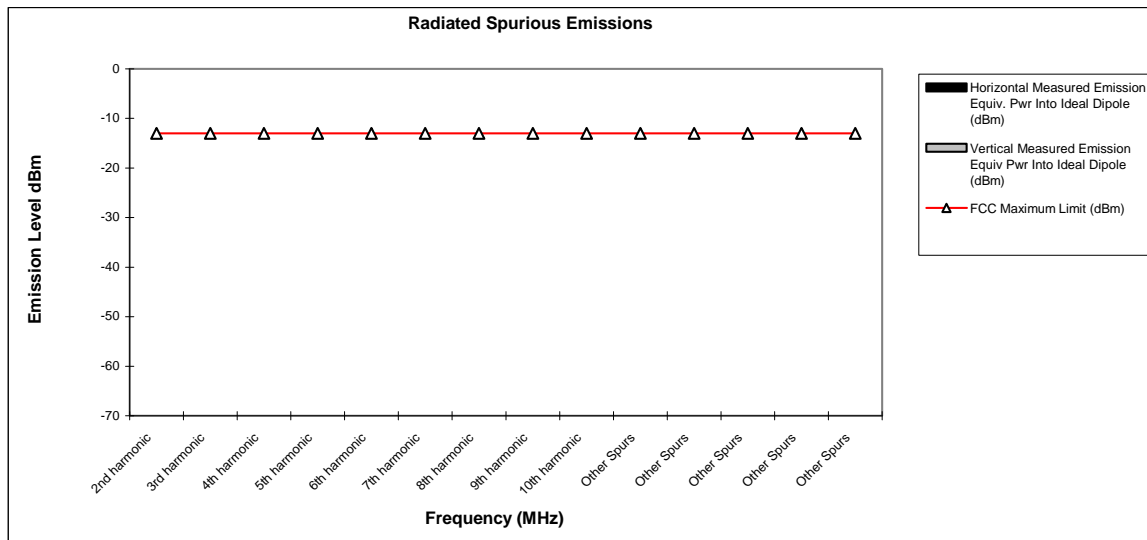
The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results**

**Modulation: 800 CDMA, slide open and closed**

**Radiated Spurious and Harmonic Emissions**

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	*	*
3rd harmonic	-13	*	*
4th harmonic	-13	*	*
5th harmonic	-13	*	*
6th harmonic	-13	*	*
7th harmonic	-13	*	*
8th harmonic	-13	*	*
9th harmonic	-13	*	*
10th harmonic	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*



Notes:

- \* Indicates the spurious emission could not be detected due to noise limitations or ambients or the emissions are lower than -33 dBm.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.

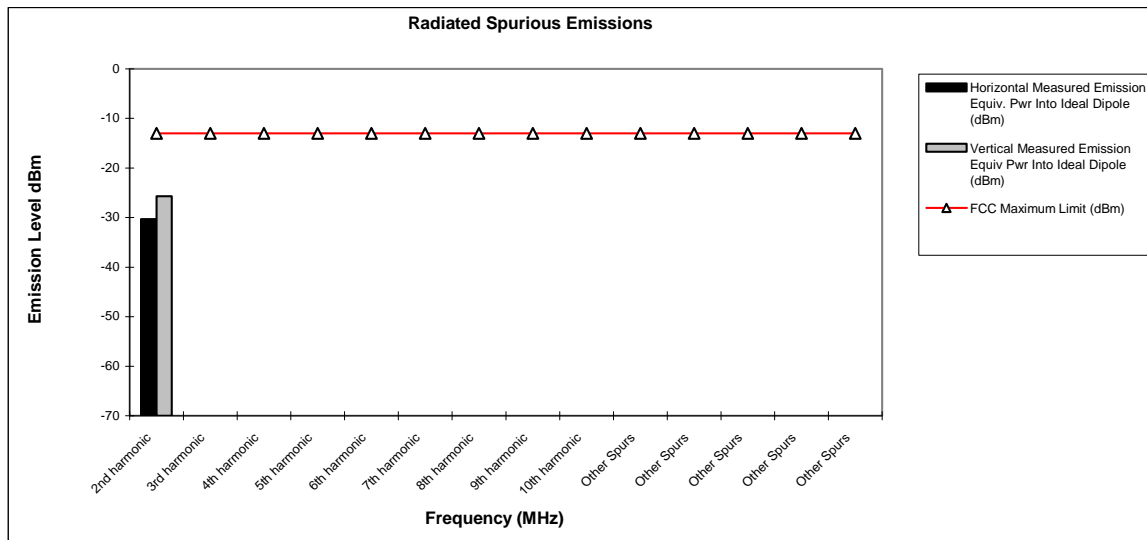
The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results**

**Modulation: 1900 CDMA, slide open**

**Radiated Spurious and Harmonic Emissions**

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	-30.3	-25.7
3rd harmonic	-13	*	*
4th harmonic	-13	*	*
5th harmonic	-13	*	*
6th harmonic	-13	*	*
7th harmonic	-13	*	*
8th harmonic	-13	*	*
9th harmonic	-13	*	*
10th harmonic	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*



Notes:

- \* Indicates the spurious emission could not be detected due to noise limitations or ambients or the emissions are lower than -33 dBm.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.

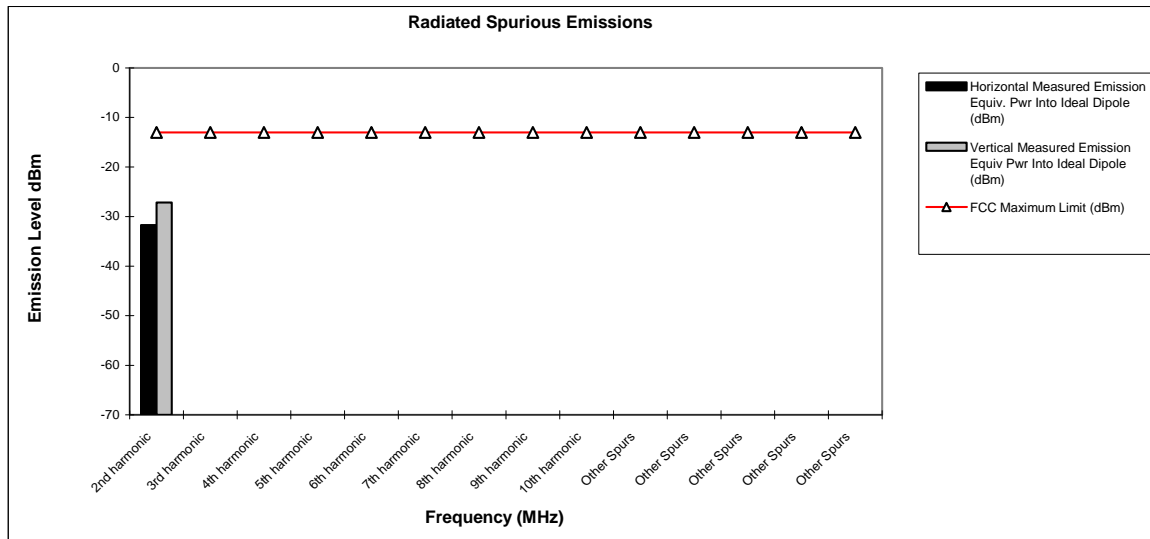
The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results**

**Modulation: 1900 CDMA, slide closed**

**Radiated Spurious and Harmonic Emissions**

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
2nd harmonic	-13	-31.7	-27.2
3rd harmonic	-13	*	*
4th harmonic	-13	*	*
5th harmonic	-13	*	*
6th harmonic	-13	*	*
7th harmonic	-13	*	*
8th harmonic	-13	*	*
9th harmonic	-13	*	*
10th harmonic	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*
Other Spurs	-13	*	*



Notes:

- \* Indicates the spurious emission could not be detected due to noise limitations or ambients or the emissions are lower than -33 dBm.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.

The margin with respect to the limit is the minimum margin for all modes and bands.

## **FREQUENCY STABILITY**

### **Measurement Procedure**

The equipment under test is placed in an environmental chamber. The antenna port of the Equipment Under Test is directly coupled to the input of the measurement equipment through a specialized RF connector. A power supply is attached as the primary voltage supply.

Frequency measurements are made at the extremes of the temperature range  $-30^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  and at intervals of  $10^{\circ}\text{C}$  with the primary supply voltage set to the nominal battery operating voltage. A period of time sufficient to stabilize all components of the equipment is allowed at each frequency measurement. The maximum variation of frequency is measured.

At room temperature, the primary supply voltage is reduced to the battery operating endpoint of the equipment under test. The maximum variation of frequency is measured. A battery eliminator was used for the input supply voltage.

### **Measurement Results**

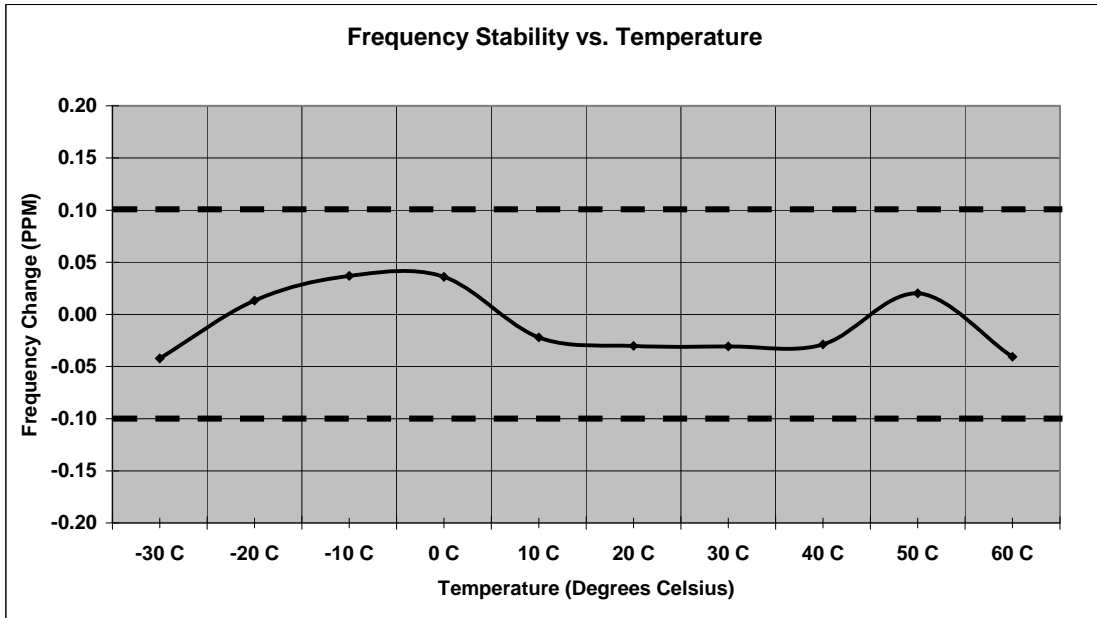
Attached

**Measurement Results**  
**Modulation: GSM 850**

# Frequency Stability

**Mode:** GSM 850      **Operating Frequency:** 836.6 MHz  
**Channel:** 190      **Deviation Limit (PPM):** 0.1 ppm

Temperature C	Frequency Error HZ	Frequency Error (PPM)	Voltage (%)	Voltage (VDC)
-30 C	-35.31	-0.042	100%	3.80
-20 C	10.99	0.013	100%	3.80
-10 C	30.91	0.037	100%	3.80
0 C	30.11	0.036	100%	3.80
10 C	-18.39	-0.022	100%	3.80
20 C	-25.35	-0.030	100%	3.80
30 C	-25.70	-0.031	100%	3.80
40 C	-24.04	-0.029	100%	3.80
50 C	16.88	0.020	100%	3.80
60 C	-34.02	-0.041	100%	3.80
20 C	-23.38	-0.028	Battery Endpoint	3.40

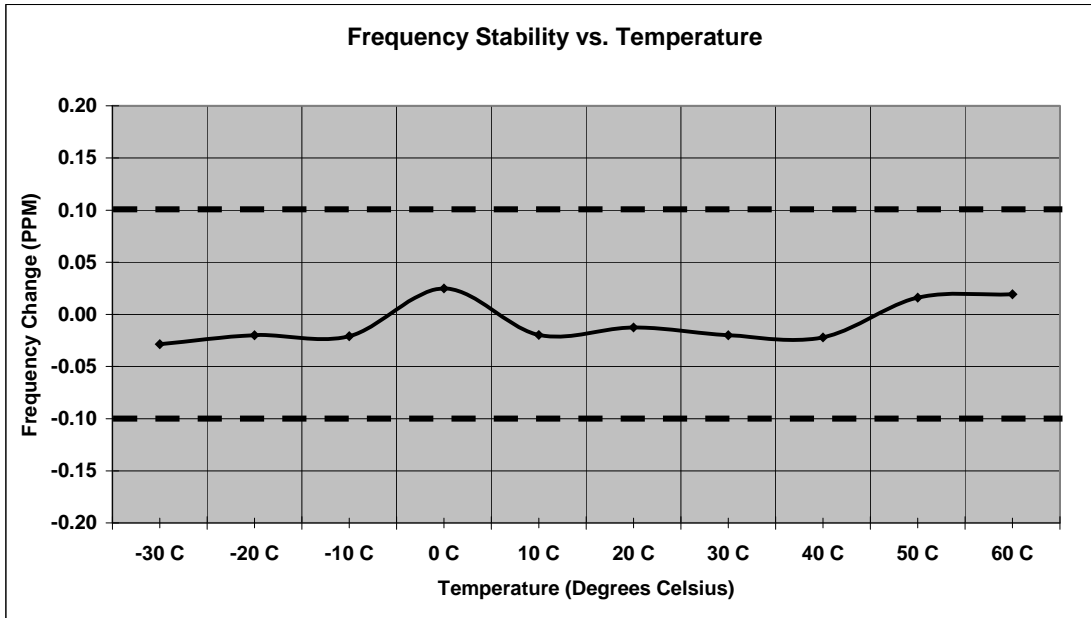


**Measurement Results**  
**Modulation: EDGE 850**

# Frequency Stability

**Mode:** EDGE 850      **Operating Frequency:** 836.6  
**Channel:** 190      **Deviation Limit (PPM):** 0.1ppm

Temperature	Frequency Error	Frequency Error	Voltage	Voltage
C	HZ	(PPM)	(%)	(VDC)
-30 C	-53.75	-0.029	100%	3.80
-20 C	-37.48	-0.020	100%	3.80
-10 C	-39.23	-0.021	100%	3.80
0 C	46.92	0.025	100%	3.80
10 C	-36.93	-0.020	100%	3.80
20 C	-23.51	-0.013	100%	3.80
30 C	-37.76	-0.020	100%	3.80
40 C	-41.30	-0.022	100%	3.80
50 C	30.03	0.016	100%	3.80
60 C	36.24	0.019	100%	3.80
20 C	27.61	0.015	Battery Endpoint	3.40

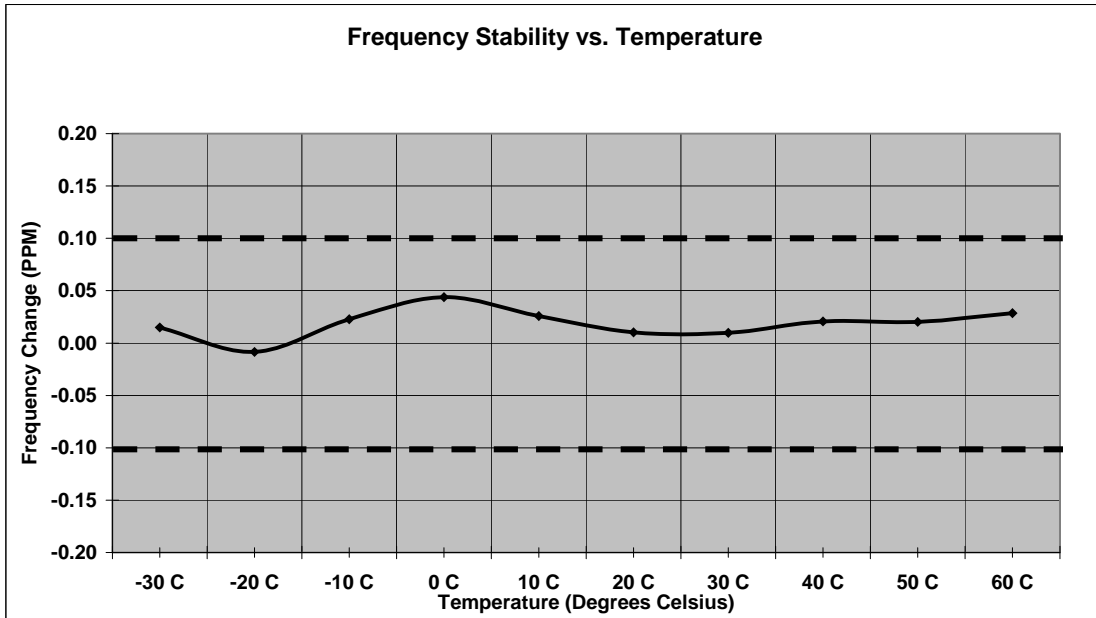


**Measurement Results**  
**Modulation: GSM 1900**

# Frequency Stability

**Mode:** GSM 1900      **Operating Frequency:** 1880.0 MHz  
**Channel:** 661      **Deviation Limit (PPM):** 0.1ppm

Temperature C	Frequency Error HZ	Frequency Error (PPM)	Voltage (%)	Voltage (VDC)
-30 C	27.88	0.015	100%	3.80
-20 C	-15.94	-0.008	100%	3.80
-10 C	42.77	0.023	100%	3.80
0 C	82.56	0.044	100%	3.80
10 C	48.63	0.026	100%	3.80
20 C	19.52	0.010	100%	3.80
30 C	18.51	0.010	100%	3.80
40 C	38.72	0.021	100%	3.80
50 C	38.26	0.020	100%	3.80
60 C	53.51	0.028	100%	3.80
20 C	49.98	0.027	Battery Endpoint	3.40

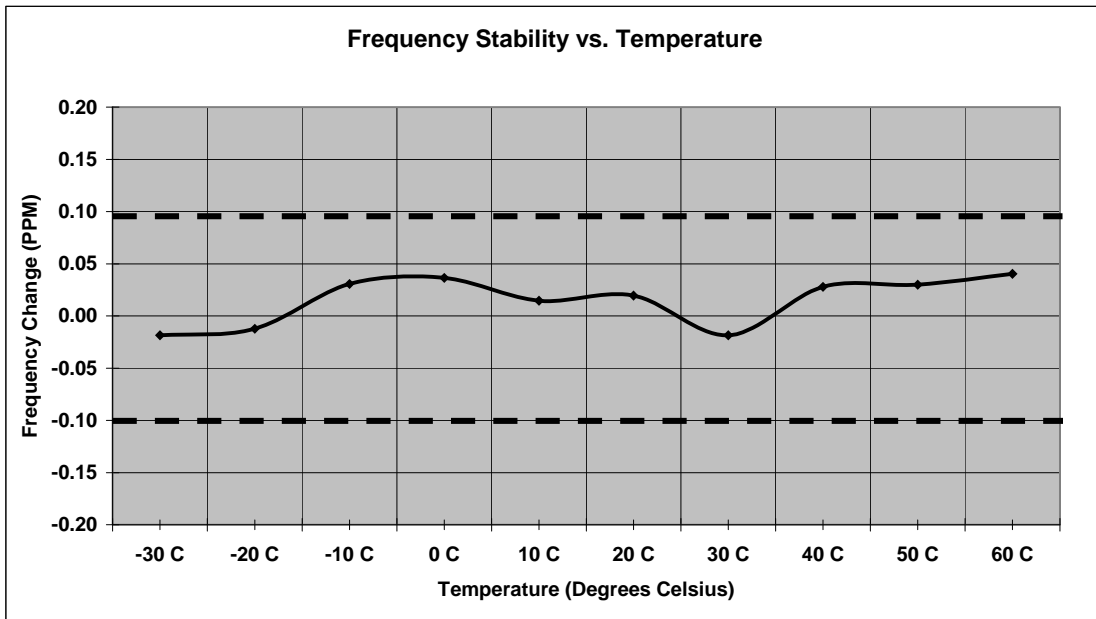


**Measurement Results**  
**Modulation: EDGE 1900**

# Frequency Stability

**Mode:** EDGE 1900      **Operating Frequency:** 1880.0 MHz  
**Channel:** 661      **Deviation Limit (PPM):** 0.1ppm

Temperature	Frequency Error	Frequency Error	Voltage	Voltage
C	HZ	(PPM)	(%)	(VDC)
-30 C	-35.08	-0.019	100%	3.80
-20 C	-23.33	-0.012	100%	3.80
-10 C	57.51	0.031	100%	3.80
0 C	68.45	0.036	100%	3.80
10 C	27.32	0.015	100%	3.80
20 C	36.61	0.019	100%	3.80
30 C	-35.06	-0.019	100%	3.80
40 C	52.50	0.028	100%	3.80
50 C	56.27	0.030	100%	3.80
60 C	76.09	0.040	100%	3.80
20 C	-33.65	-0.018	Battery Endpoint	3.40

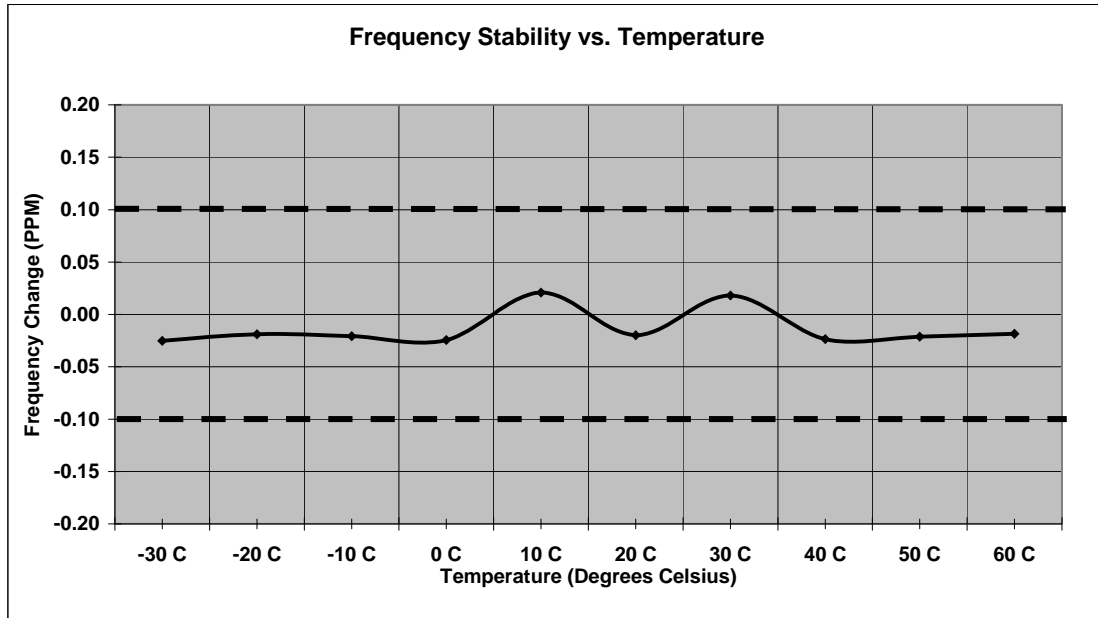


**Measurement Results**  
**Modulation: WCDMA 850**

# Frequency Stability

**Mode:** WCDMA 850      **Operating Frequency:** 836.00 MHz  
**Channel:** 4180      **Deviation Limit (PPM):** 0.1ppm

Temperature C	Frequency Error HZ	Frequency Error (PPM)	Voltage (%)	Voltage (VDC)
-30 C	-21.06	-0.025	100%	3.80
-20 C	-15.77	-0.019	100%	3.80
-10 C	-17.48	-0.021	100%	3.80
0 C	-20.43	-0.024	100%	3.80
10 C	17.38	0.021	100%	3.80
20 C	-16.59	-0.020	100%	3.80
30 C	15.16	0.018	100%	3.80
40 C	-19.71	-0.024	100%	3.80
50 C	-17.72	-0.021	100%	3.80
60 C	-15.52	-0.019	100%	3.80
20 C	-15.03	-0.018	Battery Endpoint	3.40

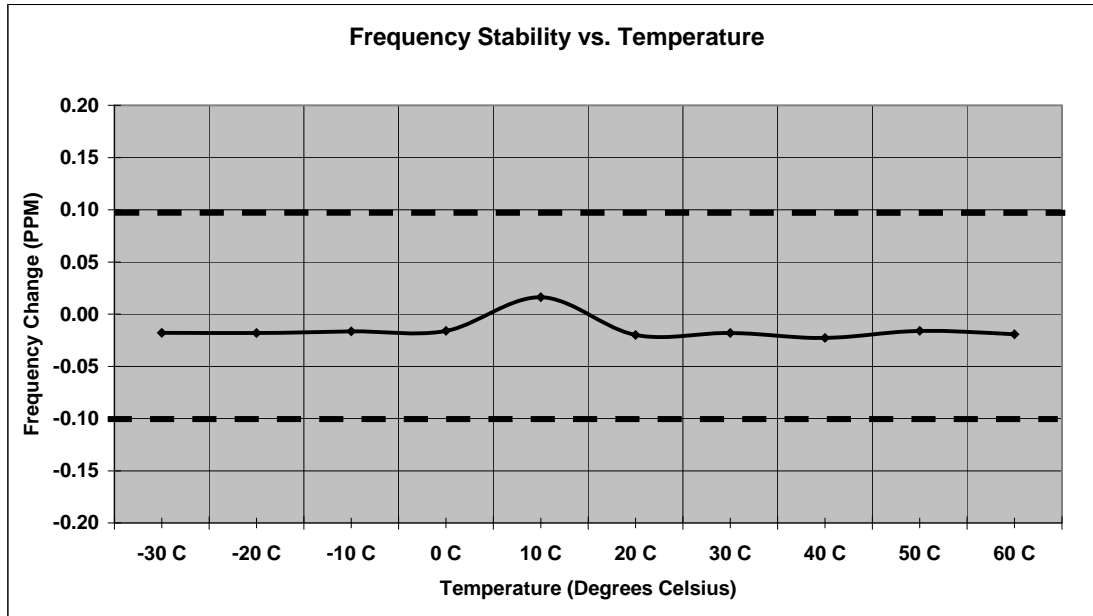


**Measurement Results**  
**Modulation: WCDMA 1900**

# Frequency Stability

**Mode:** WCDMA 1900      **Operating Frequency:** 1880.0 MHz  
**Channel:** 9400            **Deviation Limit (PPM):** 0.1ppm

Temperature C	Frequency Error HZ	Frequency Error (PPM)	Voltage (%)	Voltage (VDC)
-30 C	-33.59	-0.018	100%	3.80
-20 C	-34.23	-0.018	100%	3.80
-10 C	-30.85	-0.016	100%	3.80
0 C	-30.23	-0.016	100%	3.80
10 C	30.54	0.016	100%	3.80
20 C	-37.66	-0.020	100%	3.80
30 C	-34.08	-0.018	100%	3.80
40 C	-42.73	-0.023	100%	3.80
50 C	-29.91	-0.016	100%	3.80
60 C	-36.05	-0.019	100%	3.80
20 C	-32.77	-0.017	Battery Endpoint	3.40

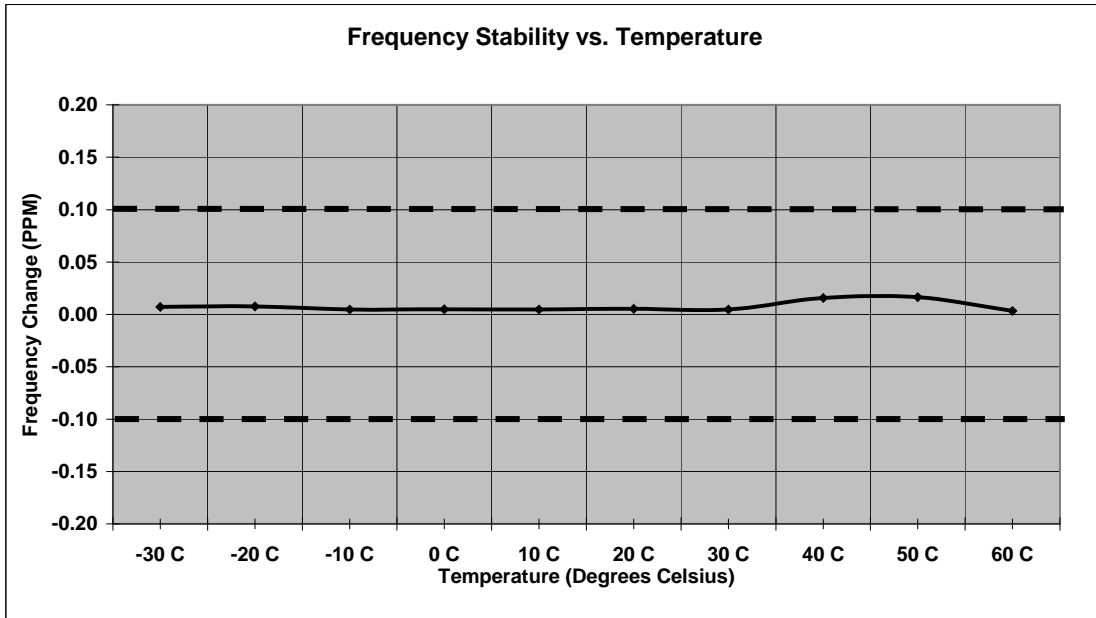


**Measurement Results**  
**Modulation: CDMA 800**

# Frequency Stability

**Mode:** CDMA 800      **Operating Frequency:** 836.52 MHz  
**Channel:** 384      **Deviation Limit (PPM):** 0.1ppm

Temperature C	Frequency Error HZ	Frequency Error (PPM)	Voltage (%)	Voltage (VDC)
-30 C	5.96	0.007	100%	3.80
-20 C	6.43	0.008	100%	3.80
-10 C	3.81	0.005	100%	3.80
0 C	4.14	0.005	100%	3.80
10 C	3.86	0.005	100%	3.80
20 C	4.54	0.005	100%	3.80
30 C	3.90	0.005	100%	3.80
40 C	13.23	0.016	100%	3.80
50 C	13.68	0.016	100%	3.80
60 C	2.69	0.003	100%	3.80
20 C	11.75	0.014	Battery Endpoint	3.40

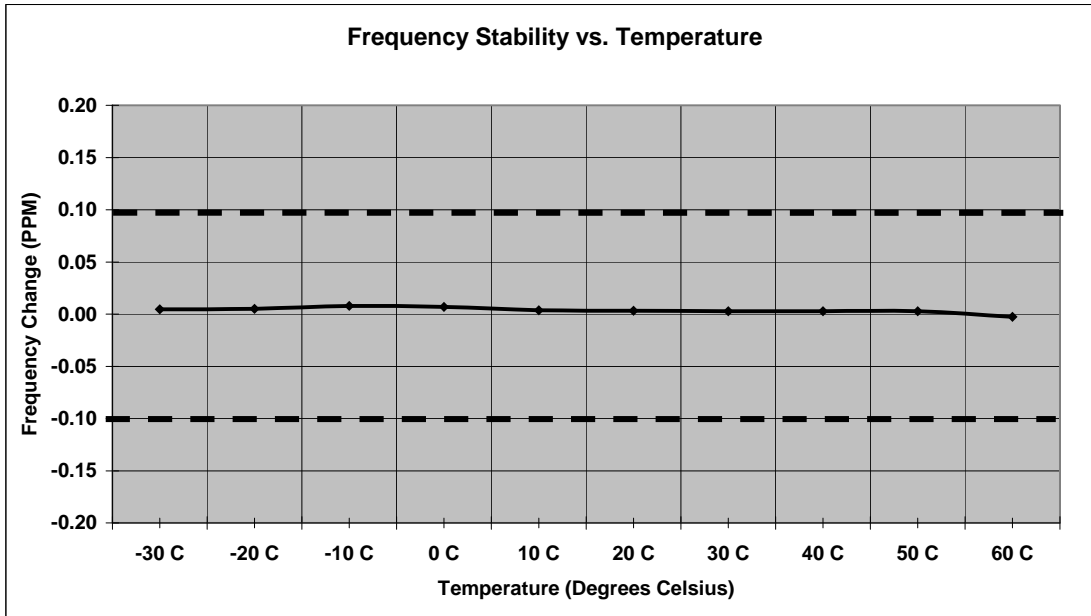


**Measurement Results**  
**Modulation: CDMA 1900**

# Frequency Stability

**Mode:** CDMA 1900      **Operating Frequency:** 1880.0 MHz  
**Channel:** 600      **Deviation Limit (PPM):** 0.1ppm

Temperature C	Frequency Error HZ	Frequency Error (PPM)	Voltage (%)	Voltage (VDC)
-30 C	8.69	0.005	100%	3.80
-20 C	9.76	0.005	100%	3.80
-10 C	14.77	0.008	100%	3.80
0 C	13.27	0.007	100%	3.80
10 C	7.05	0.004	100%	3.80
20 C	6.10	0.003	100%	3.80
30 C	5.25	0.003	100%	3.80
40 C	5.14	0.003	100%	3.80
50 C	5.28	0.003	100%	3.80
60 C	-4.96	-0.003	100%	3.80
20 C	5.70	0.003	Battery Endpoint	3.40



**End of Test Report**