



**MOBILE DEVICES BUSINESS**

**PRODUCT SAFETY AND COMPLIANCE  
EMC LABORATORY**

**EMC TEST REPORT**

**Test Report Number** – 21620-1

**Report Date** – March 10, 2008

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: 

Name: Albert J. Patapack

Title: EMC Engineer

Date: March 10, 2008

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**Test Report Details**

Tests Performed By: Motorola Mobile Devices business (MDb)  
 Product Safety and Compliance Group  
 600 North US Hwy 45  
 Libertyville, IL 60048  
 PH (847) 523-6167 Fax (847) 523-4538  
 Motorola MDb FRN: 0004321311  
 FCC Registration Number: 316588  
 Industry Canada Number: IC3908-1

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

Product Type: Cellular Phone

Signaling Capability: CDMA 800, CDMA 1900, EV-DO Rev0,  
 EV-DO RevA, Bluetooth

FCC ID : IHDT56JJ1

Serial Numbers: 80D36724, 80E1DB33, 8015F830,  
 80443F01, 80D1F0E8

Testing Complete Date: March 5, 2008

**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 15 Subpart B – Unintentional Radiators
- X   Part 22 Subpart H - Public Mobile Services
- X   Part 24 Subpart E – Personal Communications Services

Applicable Standards: TIA EIA 137-A, TIA EIA 98-C, ANSI 63.4 2001, RSS-118 (AMPS), RSS-128 (TDMA), RSS-129 (CDMA), RSS-133 (PCS)

**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
8	Field Strength of Spurious Emissions from Unintentional Radiators	Pass
9	AC Line Conducted Emissions	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
3	Occupied Bandwidth	See Plots
4	Spurious Emissions at Antenna Terminal	See results
5	Field Strength of Spurious Emissions	See results
6	Frequency Stability	See results
7	Field Strength of Spurious Emissions from Unintentional Radiators	Below noise floor
8	AC Line Conducted Emissions	See Plots

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

**General and Special Conditions**

The EUT was tested using a fully charged battery when applicable. 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 with an average temperature of 22° C and relative humidity of 50%.

**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	838786/010	3/19/2008
Rohde Schwarz	Receiver	ESI26	100001	5/02/2008
Hewlett Packard	EMC Analyzer	E7405	US40240219	6/28/2008
Hewlett Packard	Signal Generator	83712A	3429A00286	3/18/2008
A.H. Systems	DRG Horn Antenna	SAS 200/571	265	1/18/2009
A.H. Systems	DRG Horn Antenna	SAS 200/571	365	5/24/2008
ETS	Log-Periodic Antenna	3148	1188	6/18/2008
ETS	Biconical Antenna	3110B	3370	3/15/2008
Attenuator	Weinschel	AS-6	7074	7/23/2008
Attenuator	Weinschel	AS-6	6677	6/21/2008
Thermotron	Environmental Chamber	S-4	31580	2/11/2009
Agilent	Power Meter	E4416A	GB41293263	12/27/2008
Agilent	Power Sensor	E9323A	US40412067	3/05/2008
Agilent	Microwave Preamplifier	8449B	3008A00535	12/06/2008
ETS	LISN	3810/2NM	62907	5/02/2008
ETS	LISN	3810/2NM	62912	5/02/2008

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. Note that the Agilent power meter is on a two-year calibration cycle. All other equipment is on a one-year calibration cycle.

**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 30dB passive attenuator, adaptor (if needed), and specialized RF connector. The peak power output is measured for all channels.

CFR47 Part 2.1046

**Measurement Results**

**CDMA 800**

Frequency (MHz)	Power (dBm)
824.70	25.07
836.52	25.00
848.31	25.06

**CDMA 1900**

Frequency (MHz)	Power (dBm)
824.70	25.08
836.52	25.03
848.31	25.12

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

Based on the power measurements, the 800 band testing was performed in RC3/SO55 CDMA mode and the 1900 band testing was performed in EV-DO RevA Subtype2 mode.

Conducted power (dBm) for CDMA modes						
	Channel	RC1		RC3		RC3 (FCH + SCH)
		SO2	SO55	SO2	SO55	
CDMA 800	1013	24.50	24.49	25.08	25.04	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	24.52	24.46	24.94	25.06	
	777	24.47	24.48	25.02	24.99	
CDMA 1900	25	25.19	25.18	25.13	25.12	
	600	25.19	25.09	25.08	25.05	
	1175	25.17	25.14	25.08	25.07	

Conducted power (dBm) for EVDO modes				
	Channel	Rev 0		Rev A
		FTAP 307.2k	RTAP 153.6k	Subtype 2
CDMA 800	1013	24.02	24.99	23.95
	384	24.02	24.82	23.91
	777	24.04	24.99	23.93
CDMA 1900	25	25.35	25.29	25.32
	600	25.43	25.31	25.55
	1175	25.61	25.37	25.65

**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. Tests were done for 800 CDMA and 1900 EV-DO Rev0 FTAP.

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 Gigatronics 8652 power meter in "Mod Avg" mode for CDMA or in the “Burst Avg” mode for GSM. 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.

**Measurement Results**

**800 CDMA:**

<u>Frequency (MHz)</u>	<u>ERP (dBm)</u>
824.70	21.74
836.52	22.19
848.31	21.88

**1900 EV-DO RevA Subtype2:**

<u>Frequency (MHz)</u>	<u>EIRP (dBm)</u>
1851.25	26.13
1880.00	26.70
1908.75	25.93

For all measurement, calibration was performed via gain substitution with a half-wave dipole.

<b>BAND/TECHNOLOGY</b>	<b>MAXIMUM EIRP(dBm)</b>	<b>MAXIMUM ERP (dBm)</b>
<b>800 CDMA</b>	24.29	<b>22.19</b>
<b>1900 EV-DO RevA Subtype2</b>	<b>26.70</b>	24.60

**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.

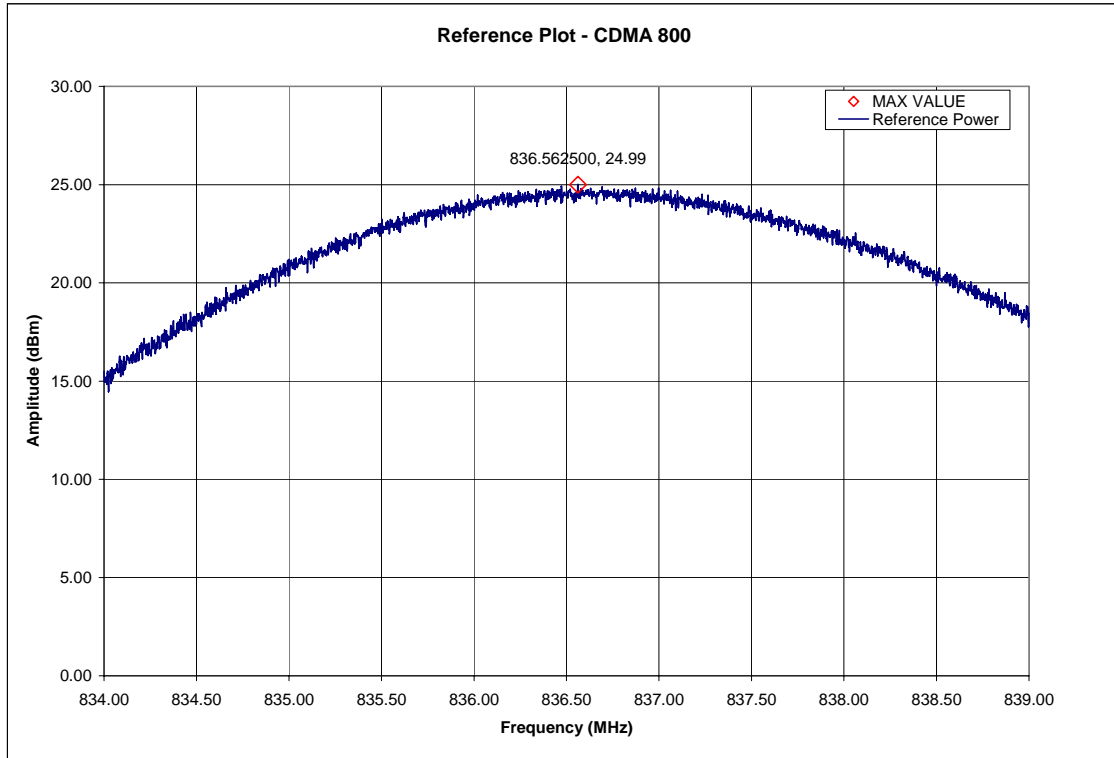
Measurement Results  
Attached

**Measurement Results –800 CDMA**

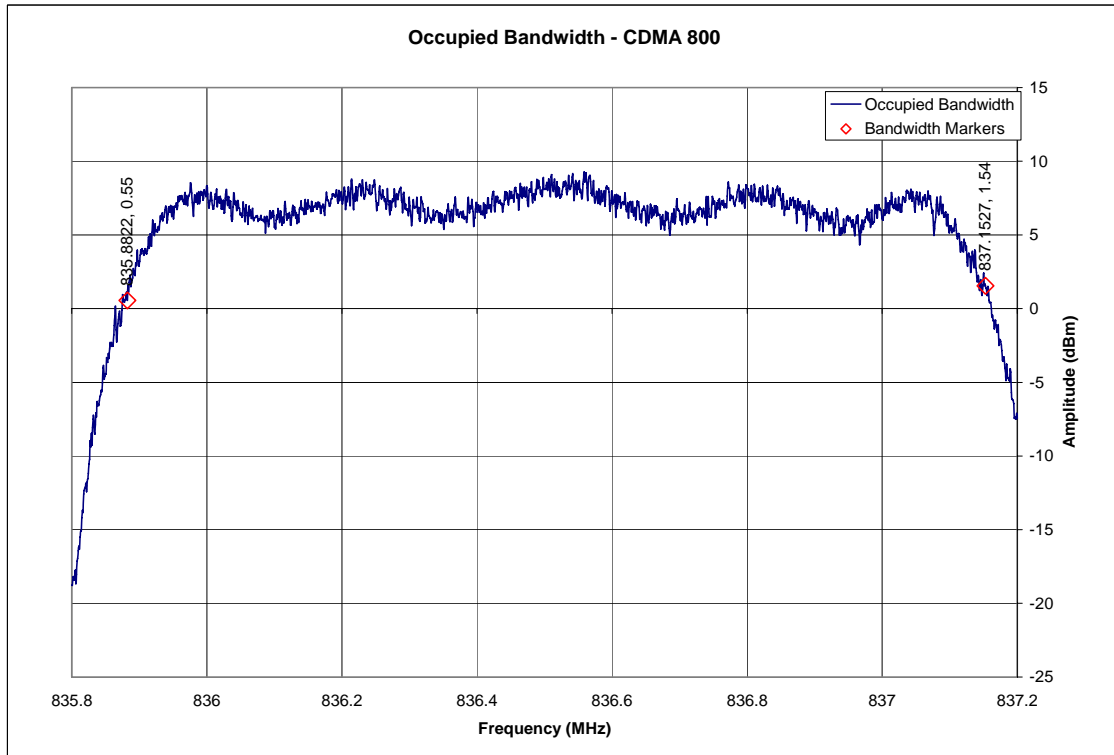
Plot	Equipment Settings					
	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Sweep Points (#)	Trace Mode	Detector	Samples (≥ #)
Reference Plot - CDMA 800	3000	Auto	2001	Max Hold	Peak	100
OCBW - CDMA 800	30	Auto	1601	Max Hold	Peak	100
Lower Band Edge - CDMA 800	1	Auto	2004	Max Hold	Peak	30
Upper Band 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 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.

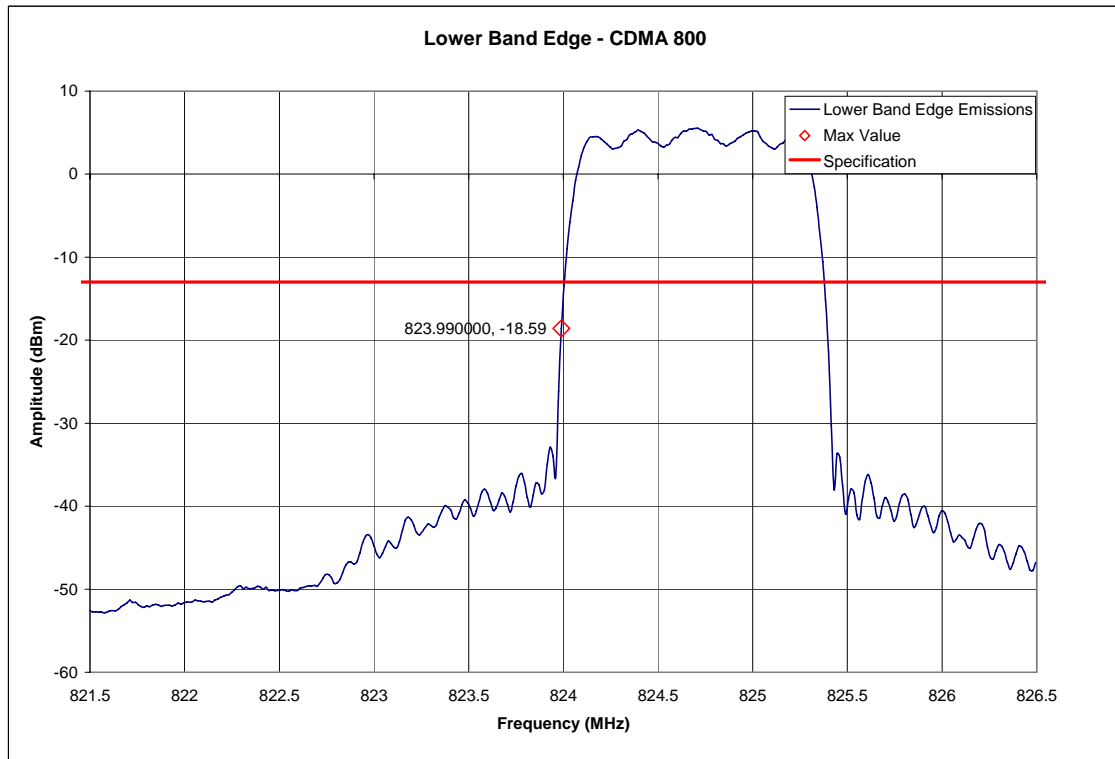
**800 CDMA – Reference Level Plot – Channel 384 (836.52MHz)**



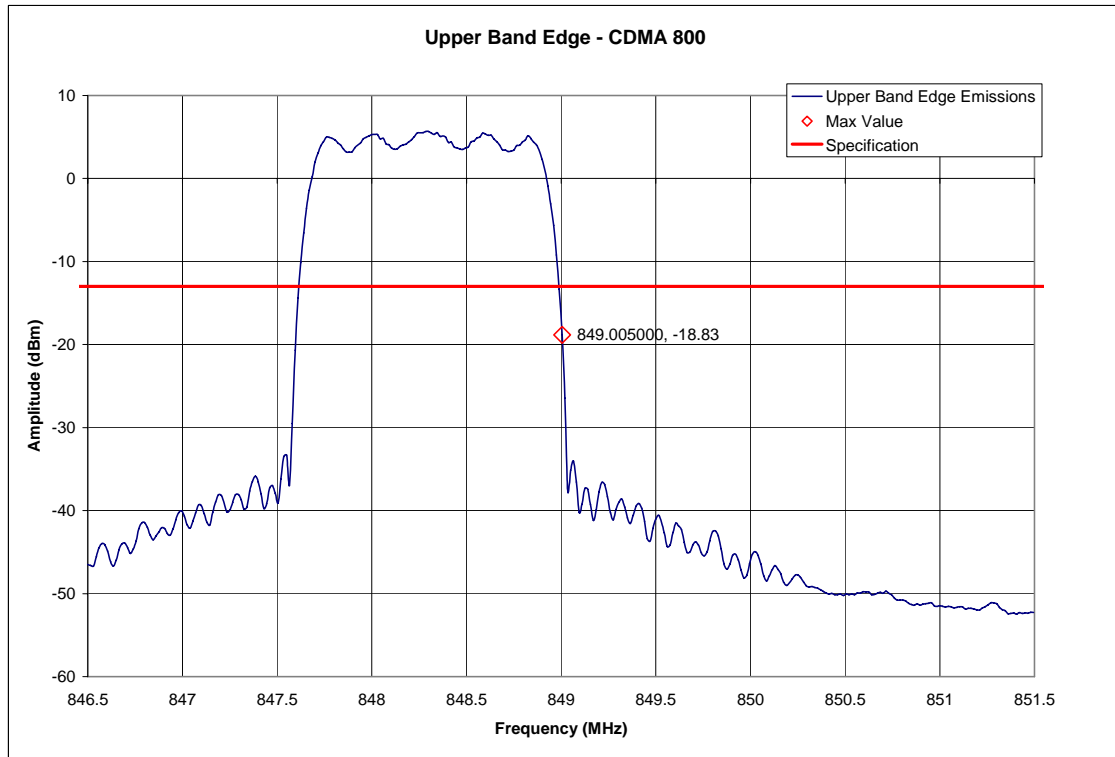
**800 CDMA – Occupied Bandwidth – Channel 384 (836.52MHz)**



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

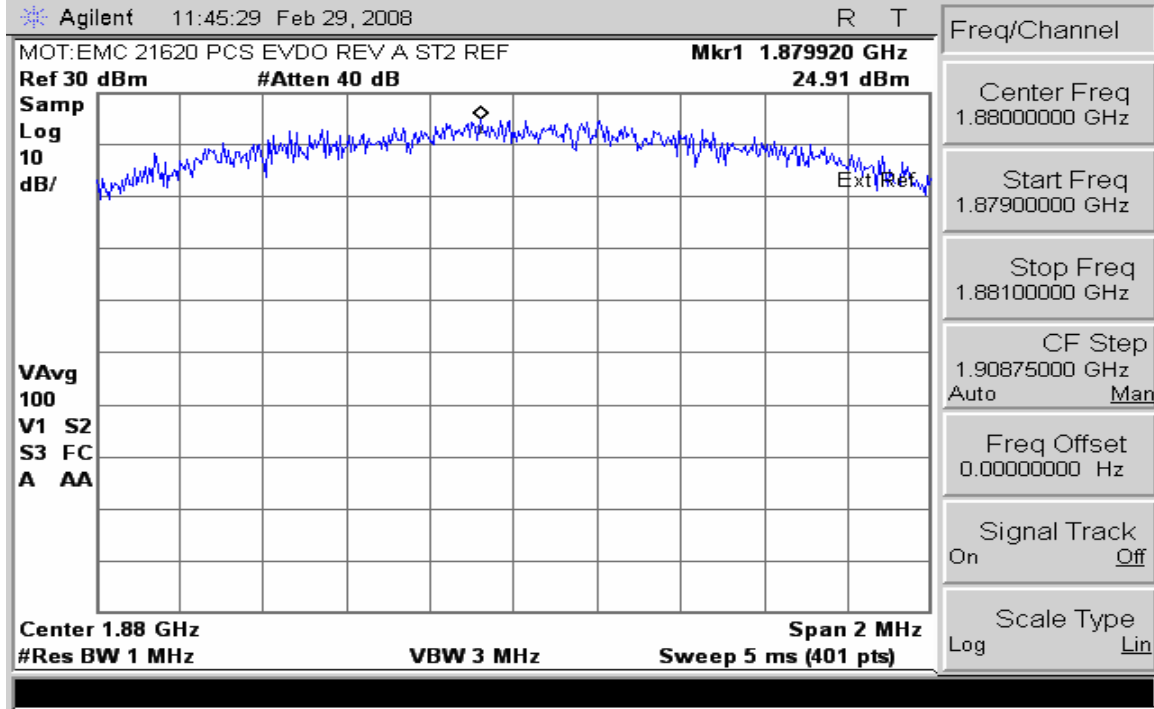


**800 CDMA – Upper Band Edge – Channel 777 (848.31MHz)**

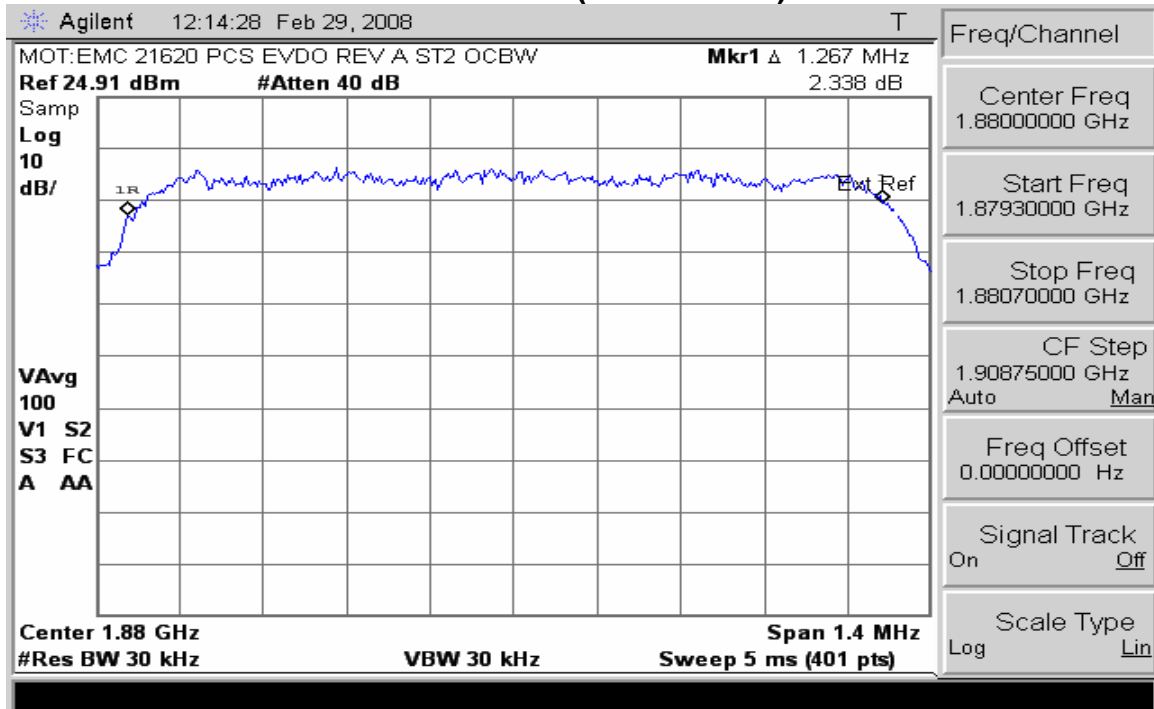


**Measurement Results –1900 EV-DO RevA Subtype2**

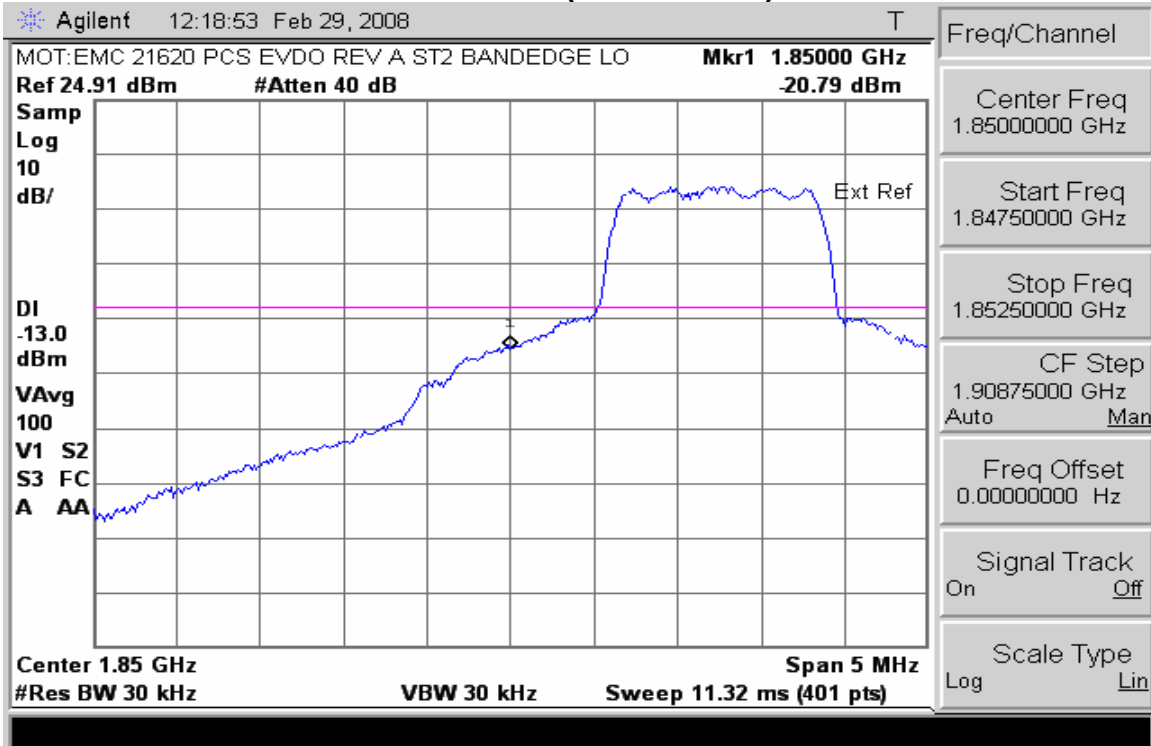
**1900 EV-DO RevA Subtype2– Reference Level Plot –  
Channel 600 (1880.00 MHz)**



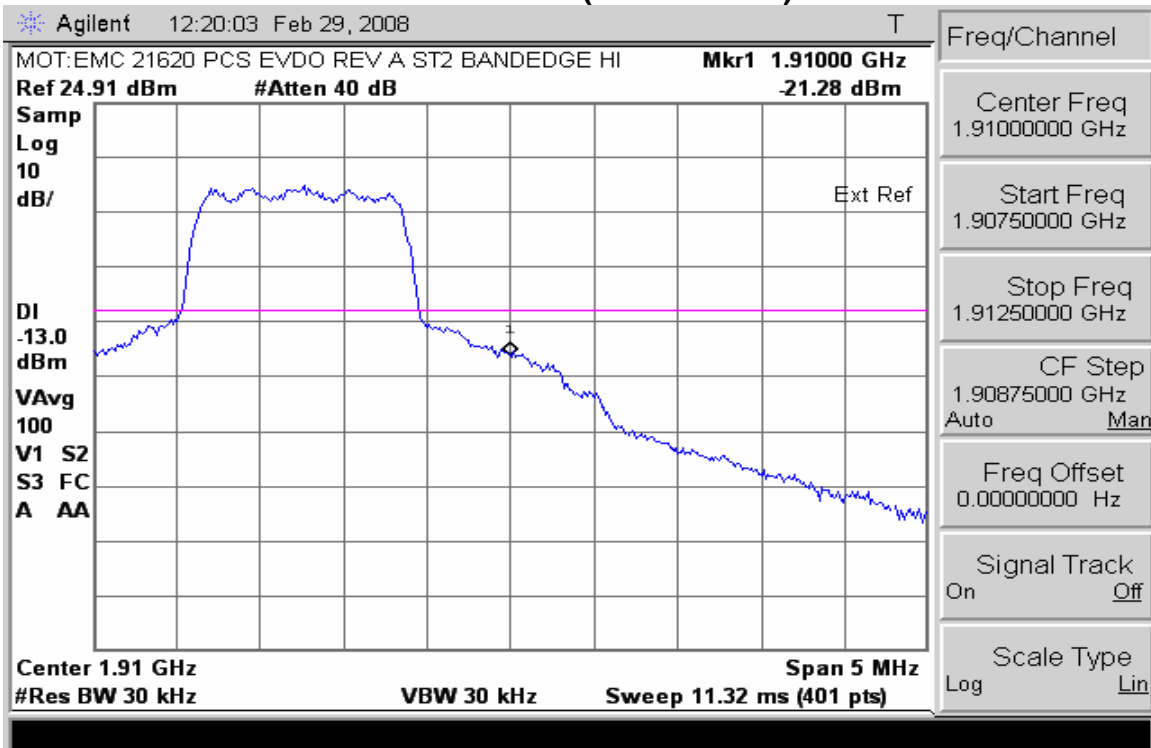
**1900 EV-DO RevA Subtype2–Occupied Bandwidth–  
Channel 600 (1880.00 MHz)**



**1900 EV-DO RevA Subtype2 – Lower Band Edge –  
Channel 25 (1851.25 MHz)**



**1900 EV-DO RevA Subtype2 – Upper Band Edge –  
Channel 1175 (1908.75 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

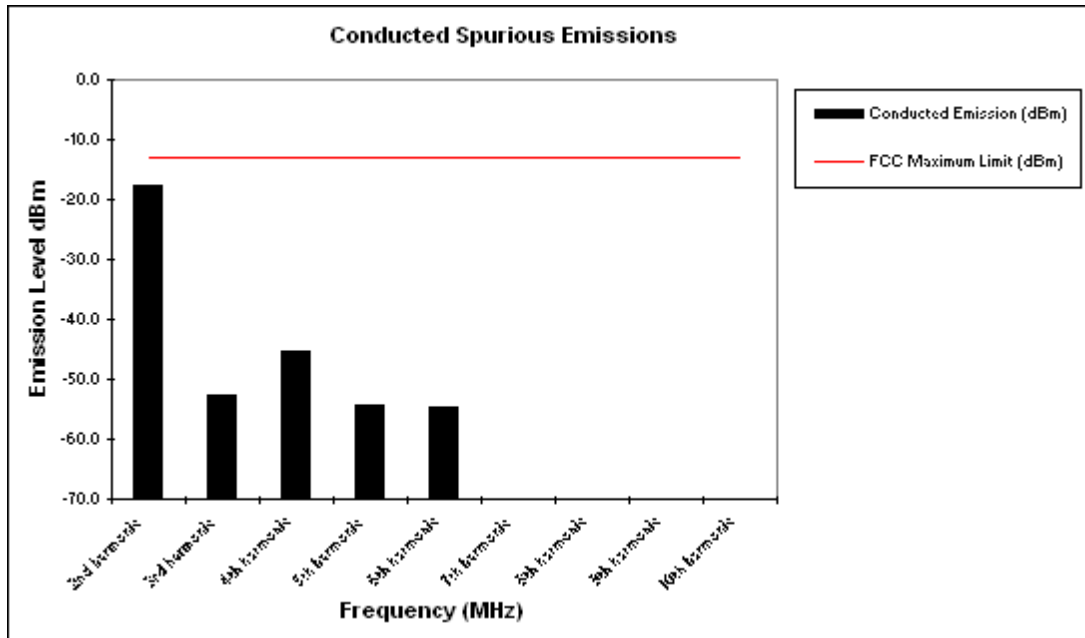
### **Measurement Results**

Attached

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

**Conducted Spurious and Harmonic Emissions**

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-17.8
3rd harmonic	-13	-52.7
4th harmonic	-13	-45.4
5th harmonic	-13	-54.5
6th harmonic	-13	-54.8
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.

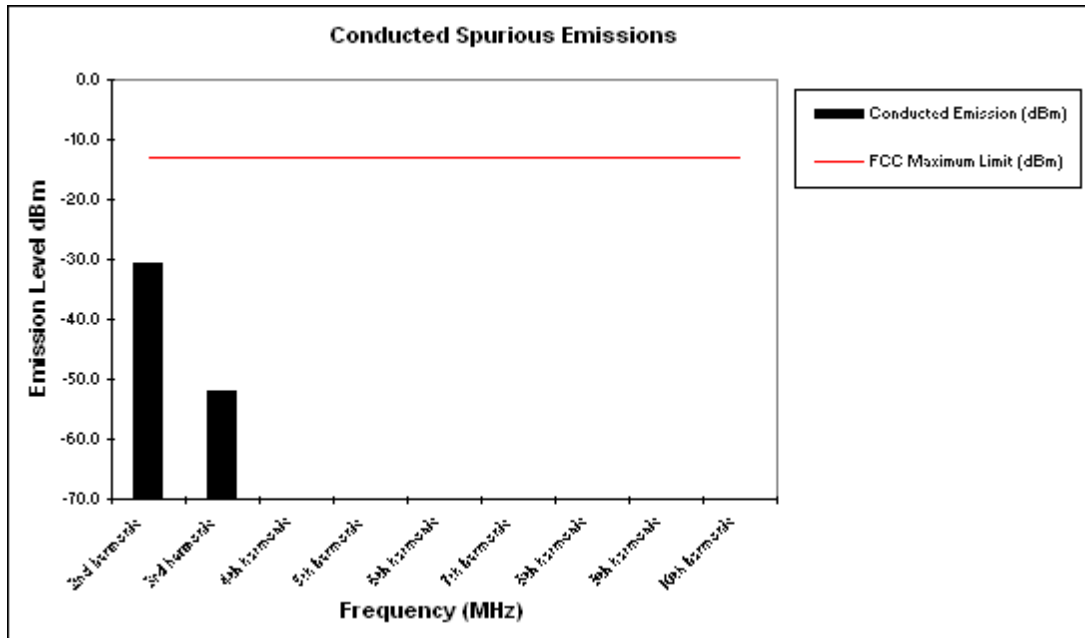
The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results**

**Modulation: 1900 EV-DO RevA Subtype2**

**Conducted Spurious and Harmonic Emissions**

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-30.6
3rd harmonic	-13	-52.1
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.

**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

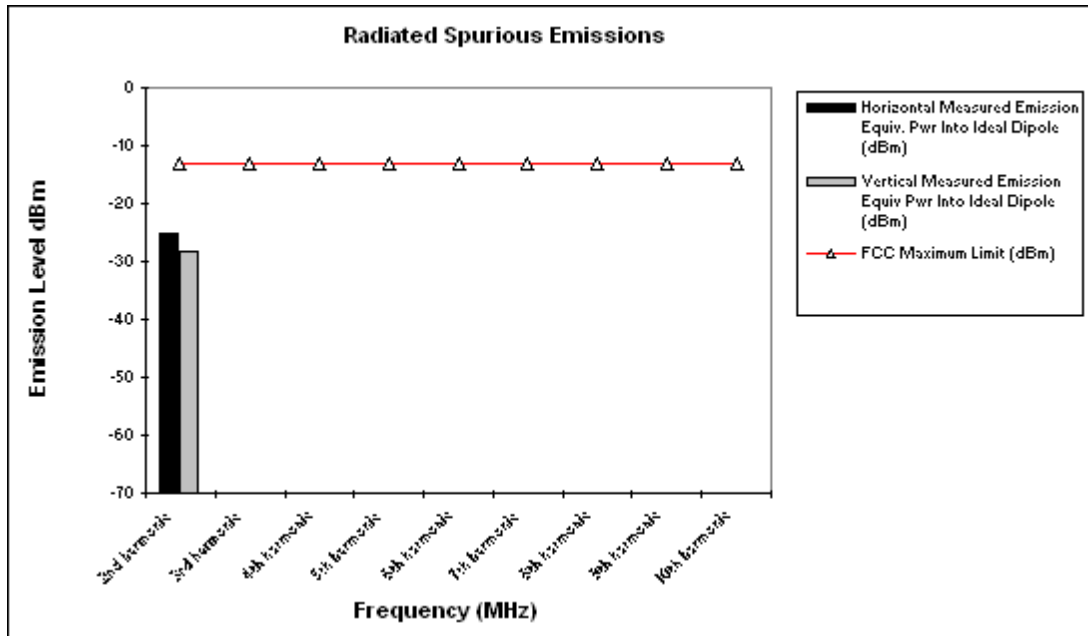
**Measurement Results**

Attached

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

**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	-25.0	-28.3
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:

- \* 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 30 MHz to the tenth harmonic of the fundamental.

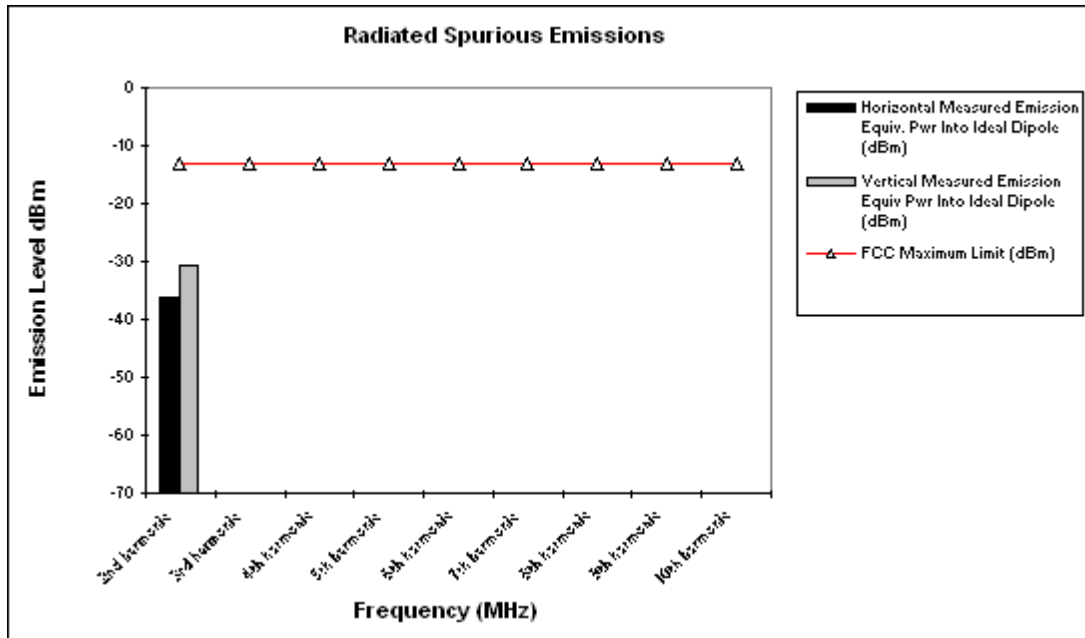
The margin with respect to the limit is the minimum margin for all modes and bands.

**Measurement Results**

**Modulation: 1900 EV-DO RevA Subtype2**

**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	-36.3	-30.8
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 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.

## **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**

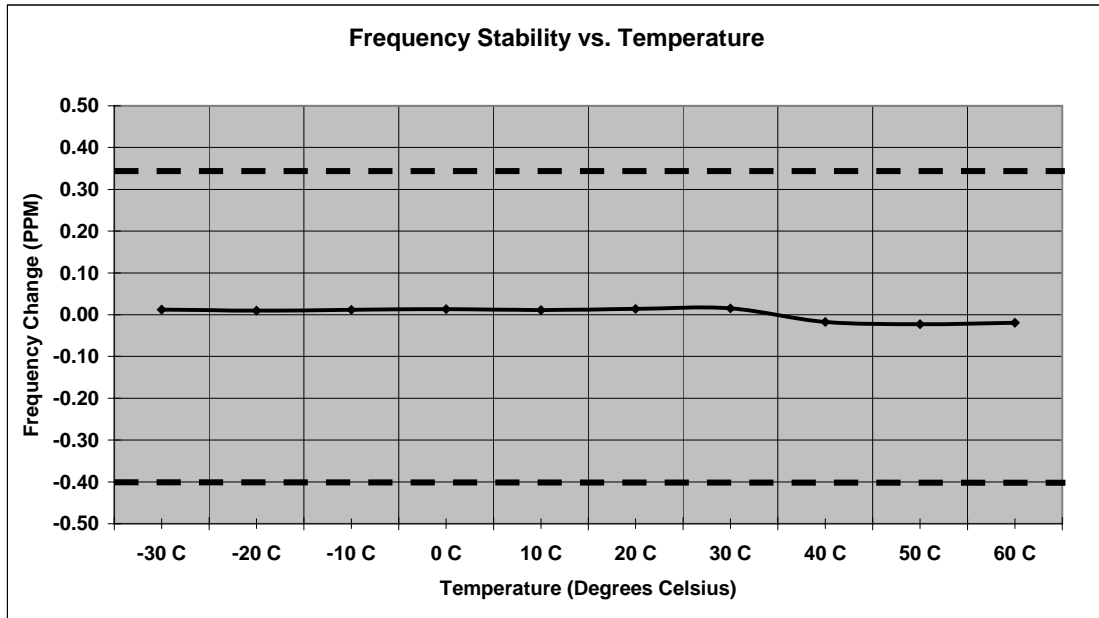
Attached

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

# Frequency Stability

**Mode:** CDMA 800      **Operating Frequency:** 836.52 MHz  
**Channel:** 384      **Deviation Limit (PPM):** 0.359ppm (+/-300 Hz)

Temperature C	Frequency Error HZ	Frequency Error (PPM)	Voltage (%)	Voltage (VDC)
-30 C	10.23	0.012	100%	3.70
-20 C	8.08	0.010	100%	3.70
-10 C	9.67	0.012	100%	3.70
0 C	11.33	0.014	100%	3.70
10 C	9.04	0.011	100%	3.70
20 C	11.57	0.014	100%	3.70
30 C	12.61	0.015	100%	3.70
40 C	-14.76	-0.018	100%	3.70
50 C	-18.82	-0.022	100%	3.70
60 C	-16.07	-0.019	100%	3.70
20 C	-10.97	-0.013	Battery Endpoint	3.20

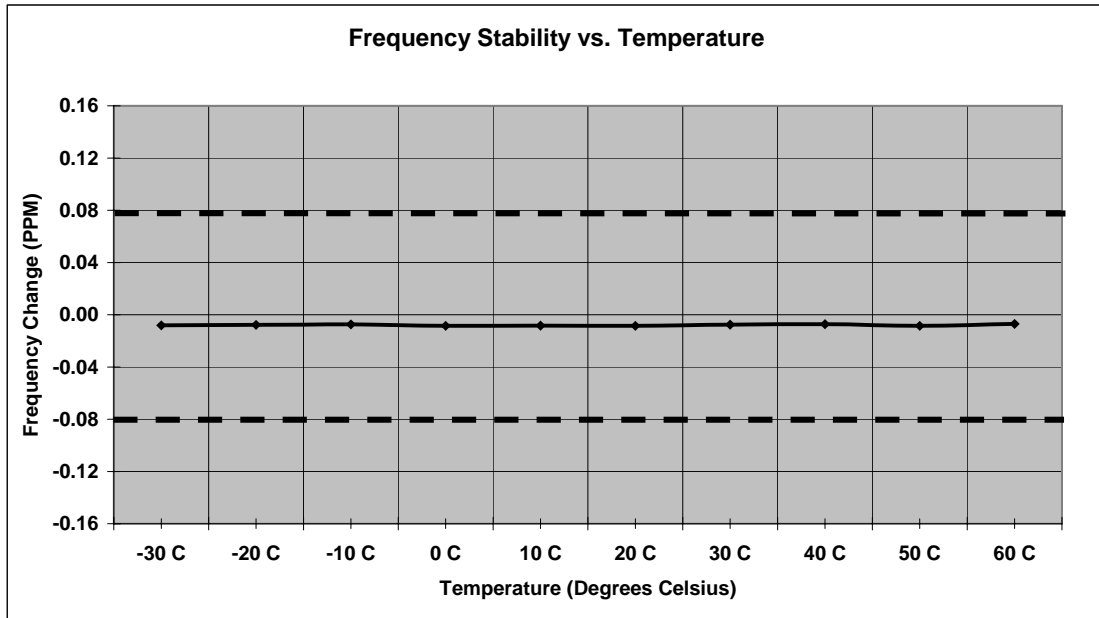


**Measurement Results**  
**Modulation: 1900 EV-DO RevA Subtype2**

# Frequency Stability

**Mode:** CDMA 1900 EV-DO    **Operating Frequency:** 1880.0 MHz  
**Channel:** 600                    **Deviation Limit (PPM):** 0.08ppm (+/-150Hz)

Temperature C	Frequency Error HZ	Frequency Error (PPM)	Voltage (%)	Voltage (VDC)
-30 C	-15.380	-0.008	100%	3.70
-20 C	-14.820	-0.008	100%	3.70
-10 C	-13.880	-0.007	100%	3.70
0 C	-16.210	-0.009	100%	3.70
10 C	-15.570	-0.008	100%	3.70
20 C	-16.120	-0.009	100%	3.70
30 C	-14.400	-0.008	100%	3.70
40 C	-13.690	-0.007	100%	3.70
50 C	-16.080	-0.009	100%	3.70
60 C	-13.220	-0.007	100%	3.70
20 C	-13.900	-0.007	Battery Endpoint	3.20



**FIELD STRENGTH OF EMISSIONS FROM UNINTENTIONAL RADIATORS****Measurement Procedure**

The equipment under test is placed inside the semi-anechoic chamber on a wooden table at the turntable center. For each radiated emission, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum peak reading on the spectrum analyzer. The radiated emissions are then measured using an EMI receiver employing a CISPR quasi-peak detector function below 1000 MHz and an average detector function above 1000 MHz. This is repeated for both horizontal and vertical polarizations of the receive antenna. A fully charged battery was used for the supply voltage.

The field strength of each radiated emission is calculated by correcting the EMI receiver level for cable loss, amplifier gain, and antenna correction factors.

$$\text{Field Strength (dBuV/m)} = \text{EMI Receiver Level (dBuV)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)} + \text{Antenna Correction Factor (1/m)}$$
**Measurement Results**

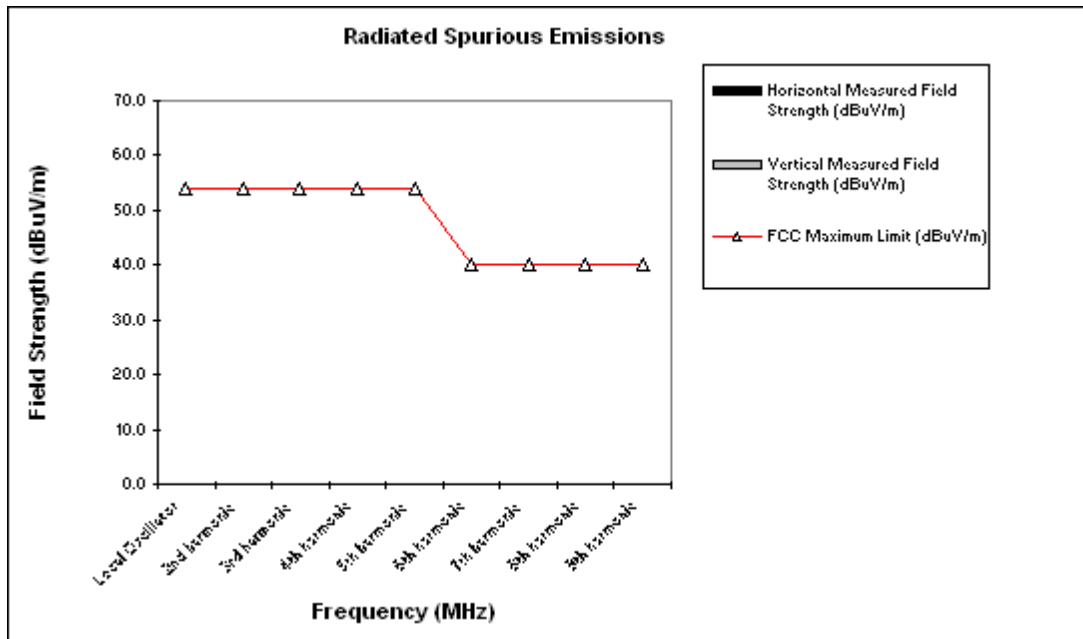
Attached

**Measurement Results**

**Modulation: 800 CDMA and 1900 EV-DO RevA Subtype2**

**Receiver Radiated Spurious Emissions**

Frequency (MHz)	FCC Maximum Limit (dBuV/m)	Horizontal Measured Field Strength (dBuV/m)	Vertical Measured Field Strength (dBuV/m)
Local Oscillator	54	*	*
2nd harmonic	54	*	*
3rd harmonic	54	*	*
4th harmonic	54	*	*
5th harmonic	54	*	*
6th harmonic	40	*	*
7th harmonic	40	*	*
8th harmonic	40	*	*
9th harmonic	40	*	*
10th harmonic	40	*	*



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 frequency for the low, mid, and high channels.

## **AC LINE CONDUCTED EMISSIONS**

### **Measurement Procedure**

Measured levels of ac power line conducted emission shall be the radio-noise voltage from the line probe or across the 50  $\Omega$  LISN port, where permitted, terminated into a 50  $\Omega$  noise meter, or where permitted or required, the radio-noise current on the power line sensed by a current probe.

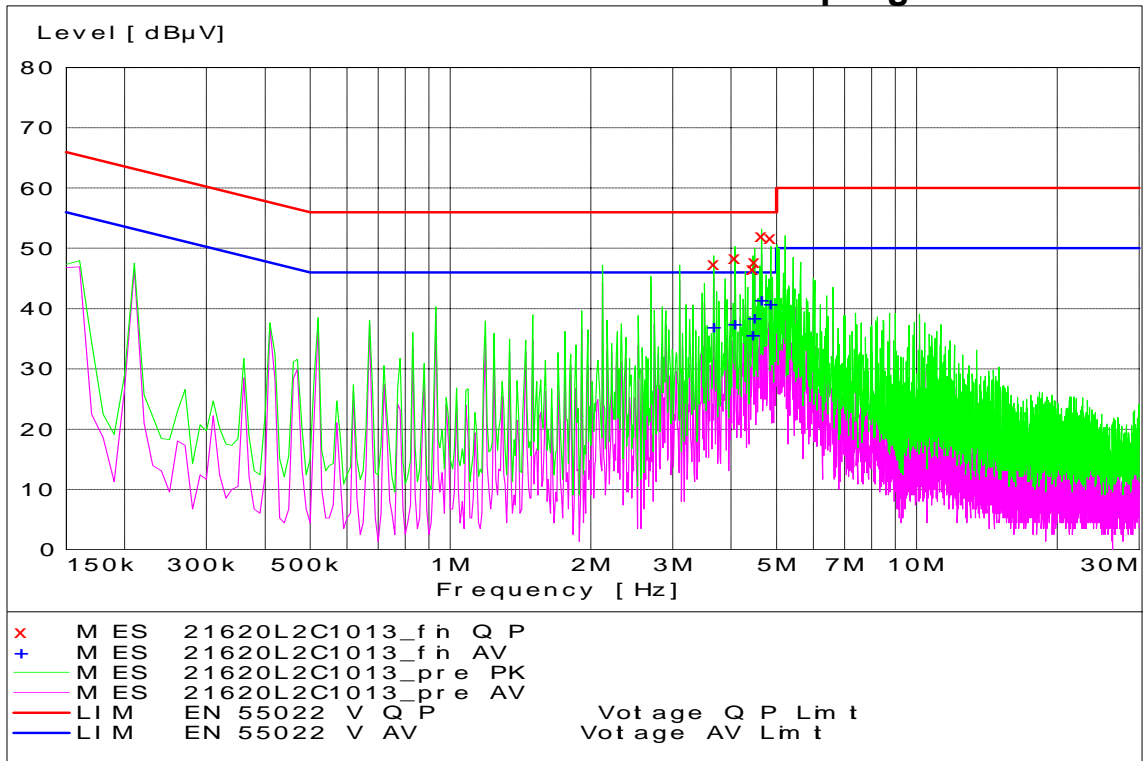
All radio-noise voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord or calibrated extension cord by the use of mating plugs and receptacles on the EUT and LISN. Equipment shall be tested with power cords that are normally supplied using an LISN, the 50  $\Omega$  measuring port is terminated by a 50  $\Omega$  radio-noise meter or a 50  $\Omega$  resistive load. All other ports are terminated in 50  $\Omega$ .

Detectors – Quasi Peak and Average

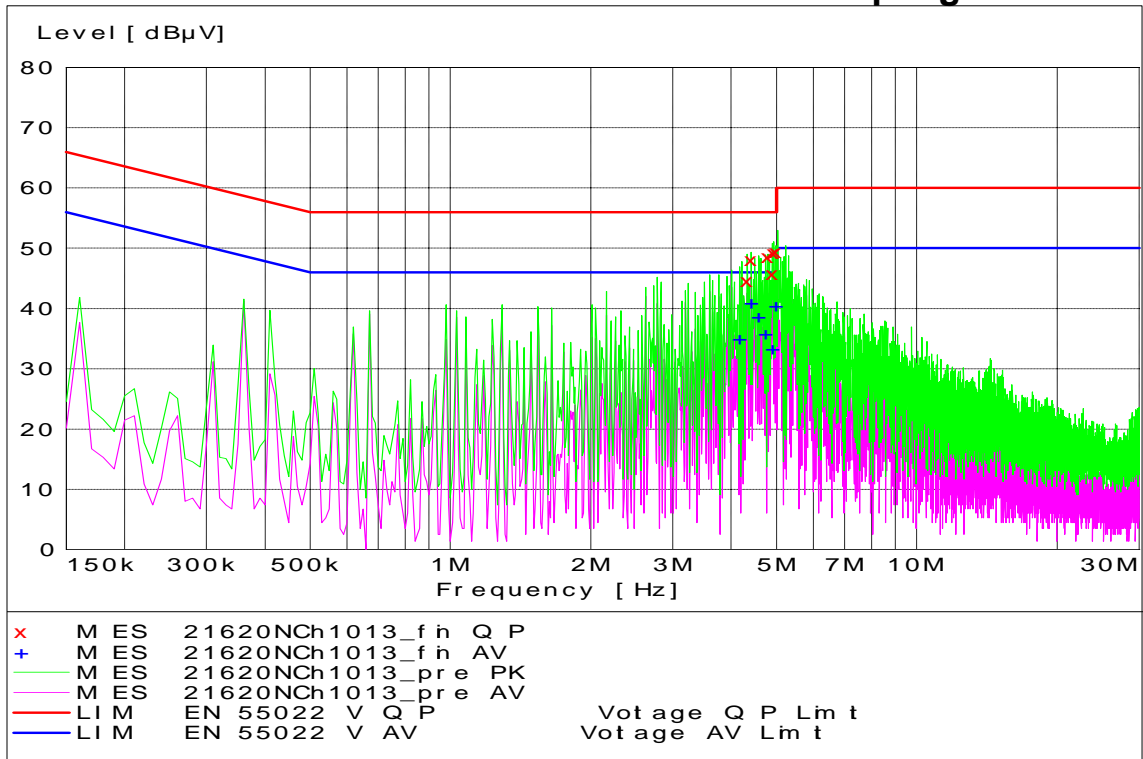
### **Measurement Results**

See attached:

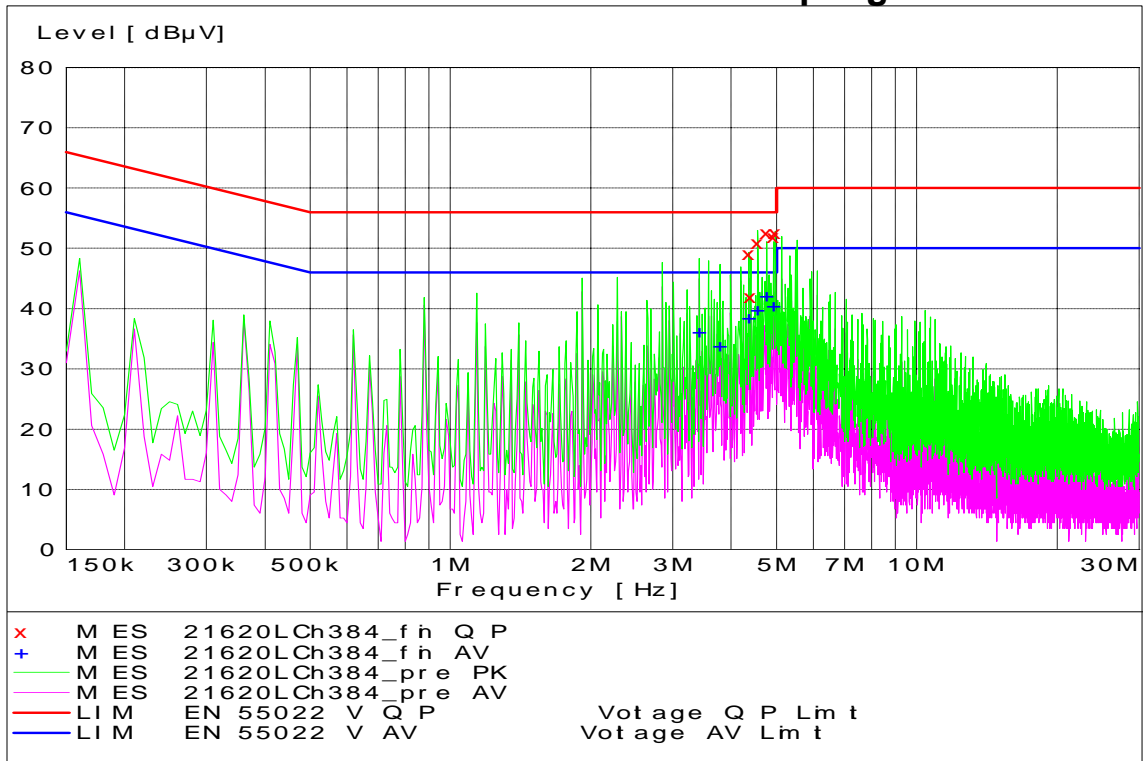
### CDMA 800 Channel 1013 - Tx Mode - Line Coupling



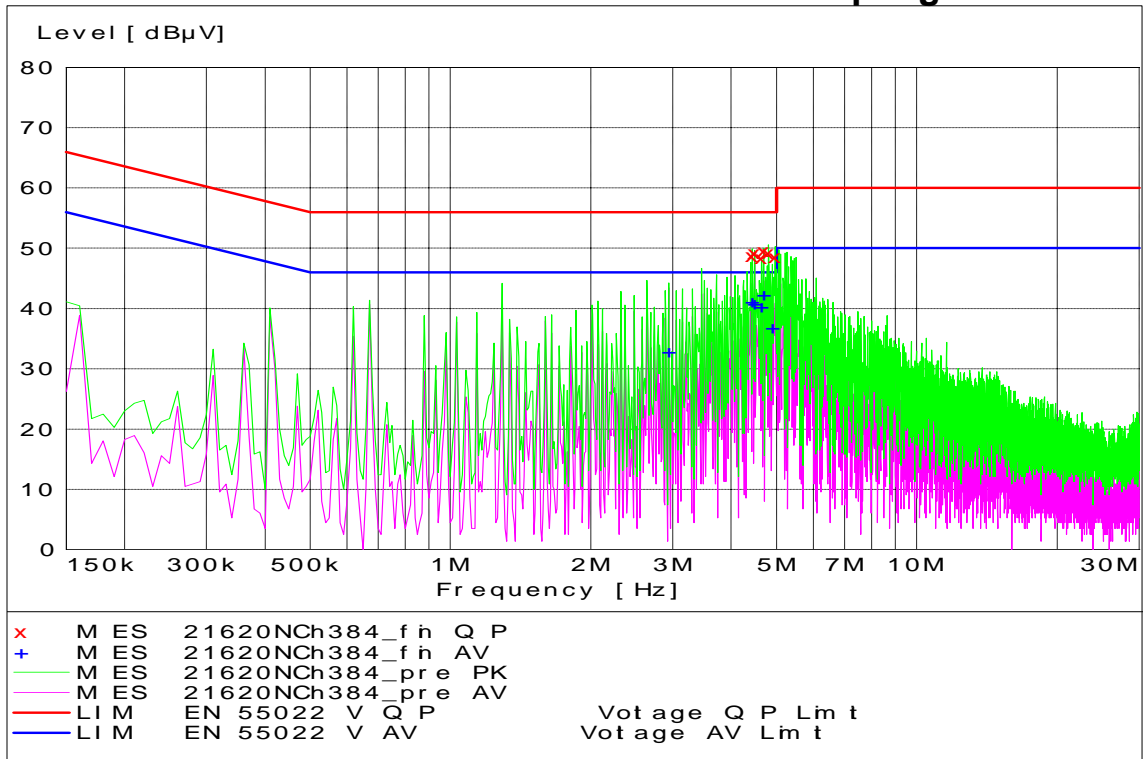
### CDMA 800 Channel 1013 - Tx Mode - Neutral Coupling



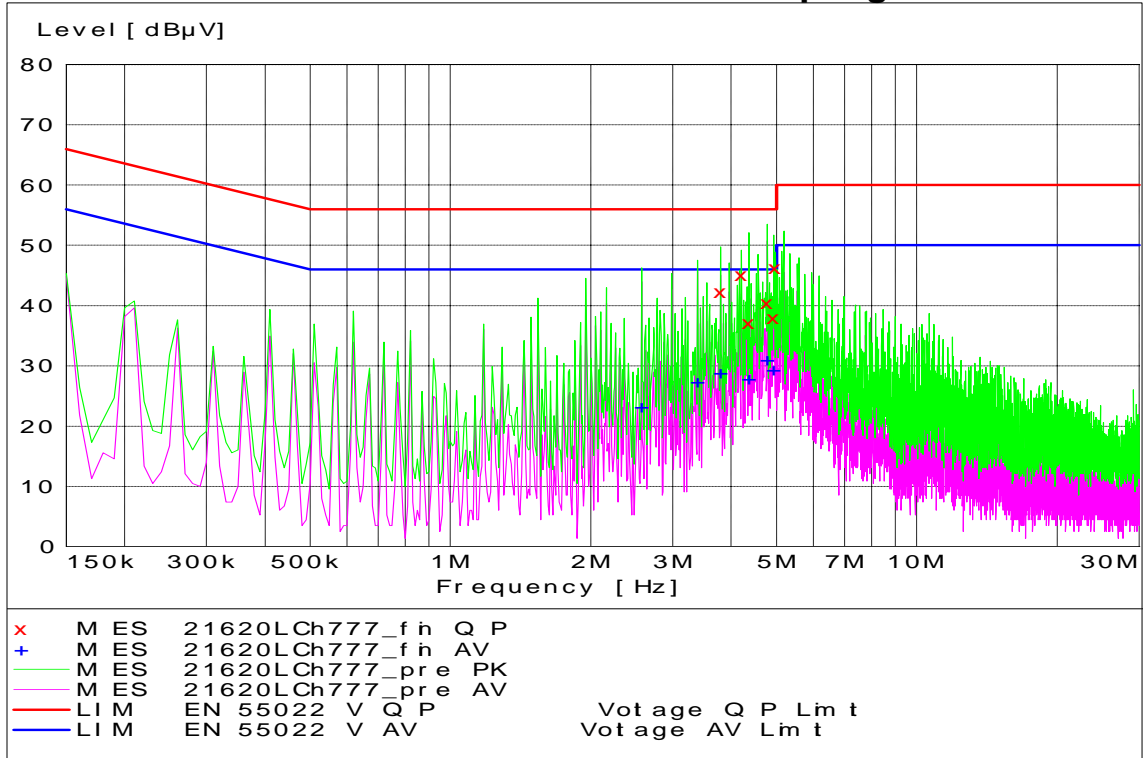
### CDMA 800 Channel 384 - Tx Mode - Line Coupling



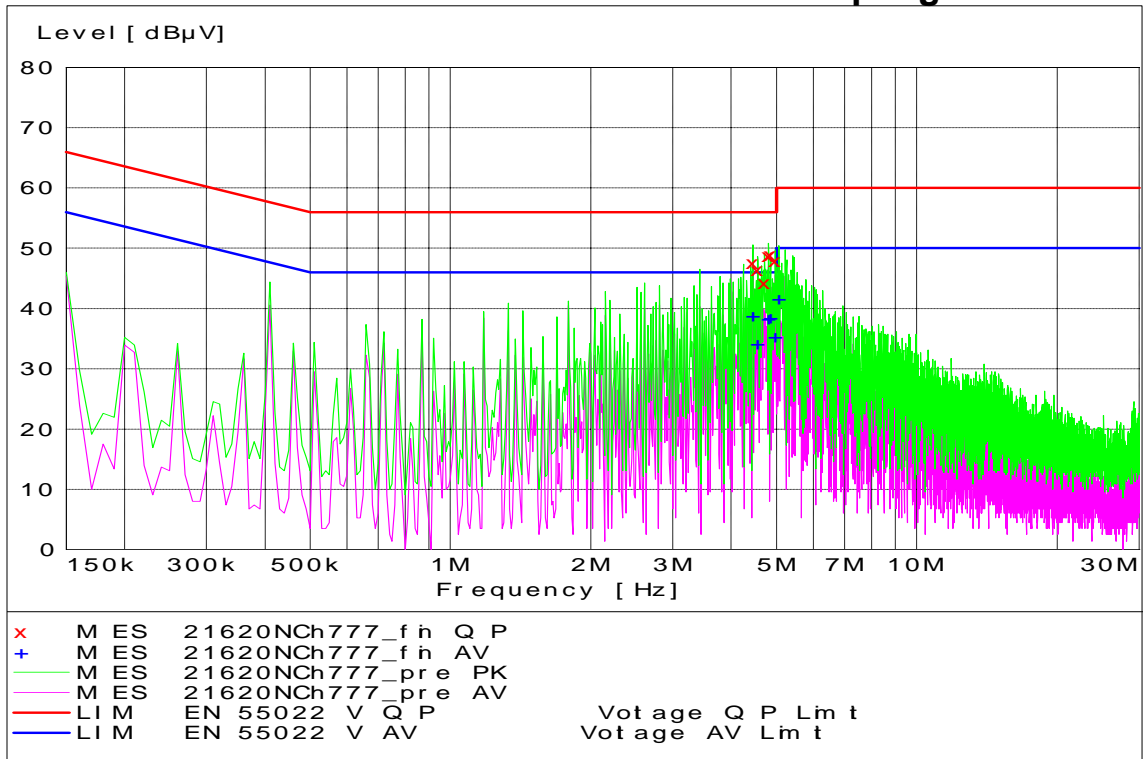
### CDMA 800 Channel 384 - Tx Mode - Neutral Coupling



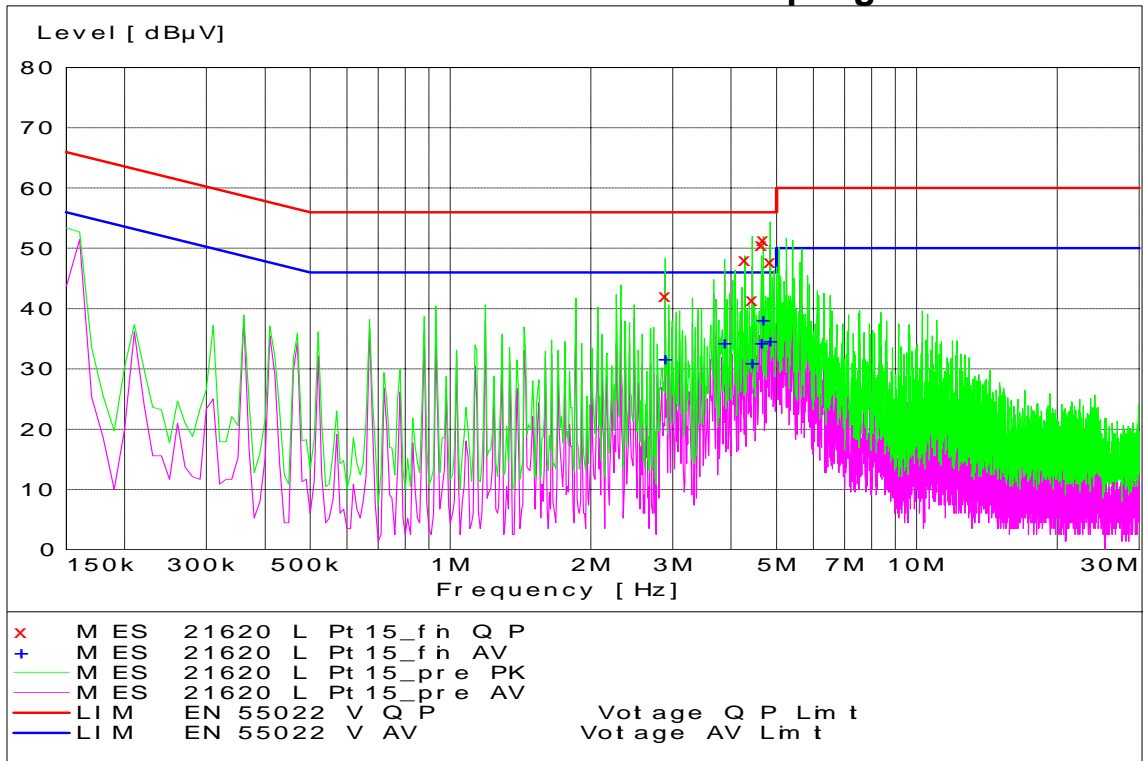
### CDMA 800 Channel 777 - Tx Mode - Line Coupling



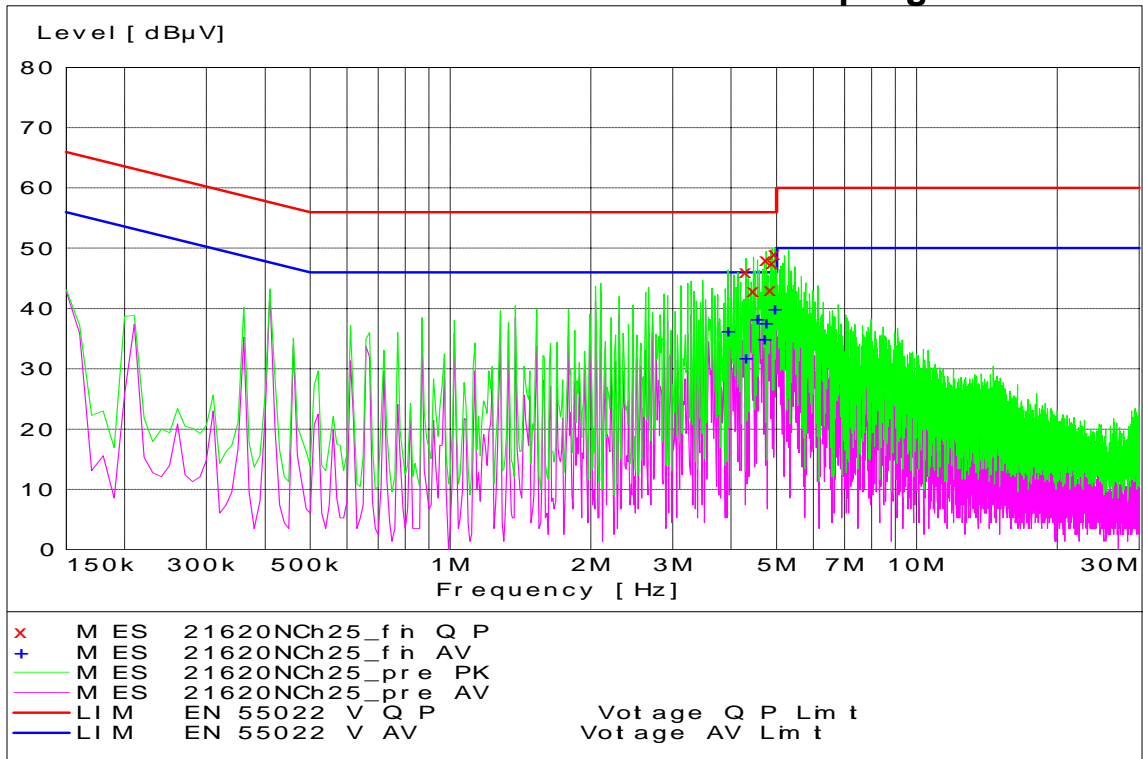
### CDMA 800 Channel 777 - Tx Mode - Neutral Coupling



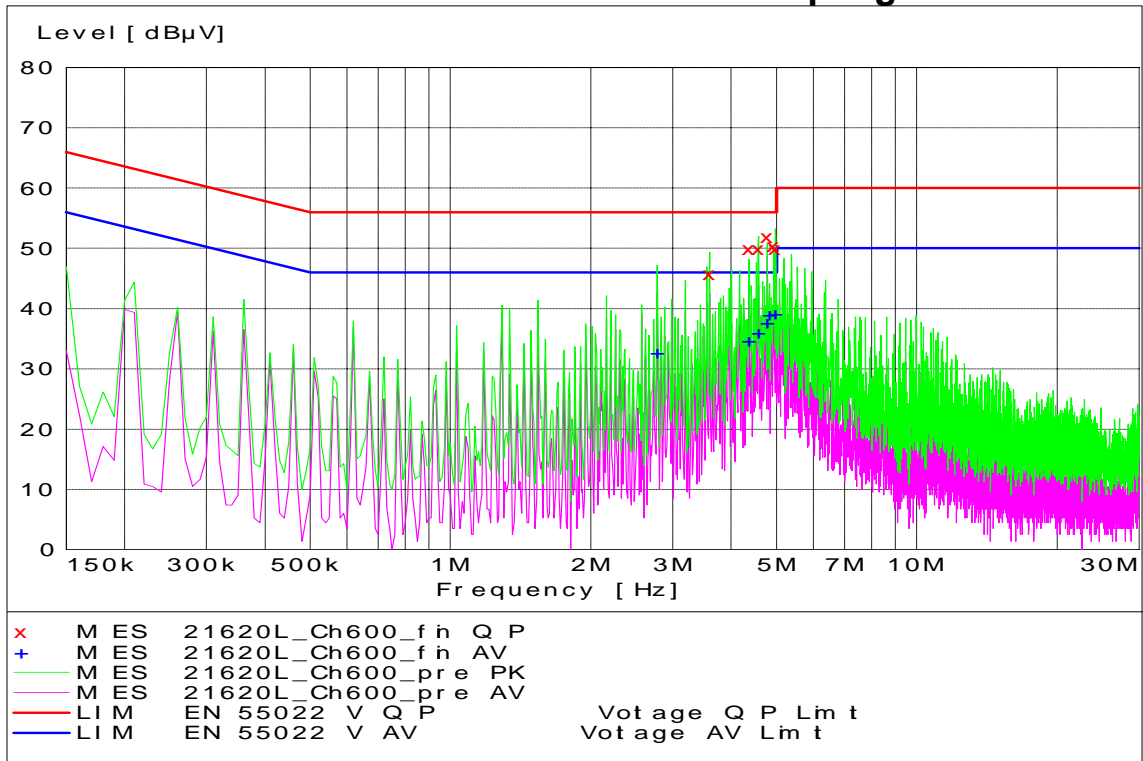
### PCS EVDO Channel 25 - Tx Mode - Line Coupling



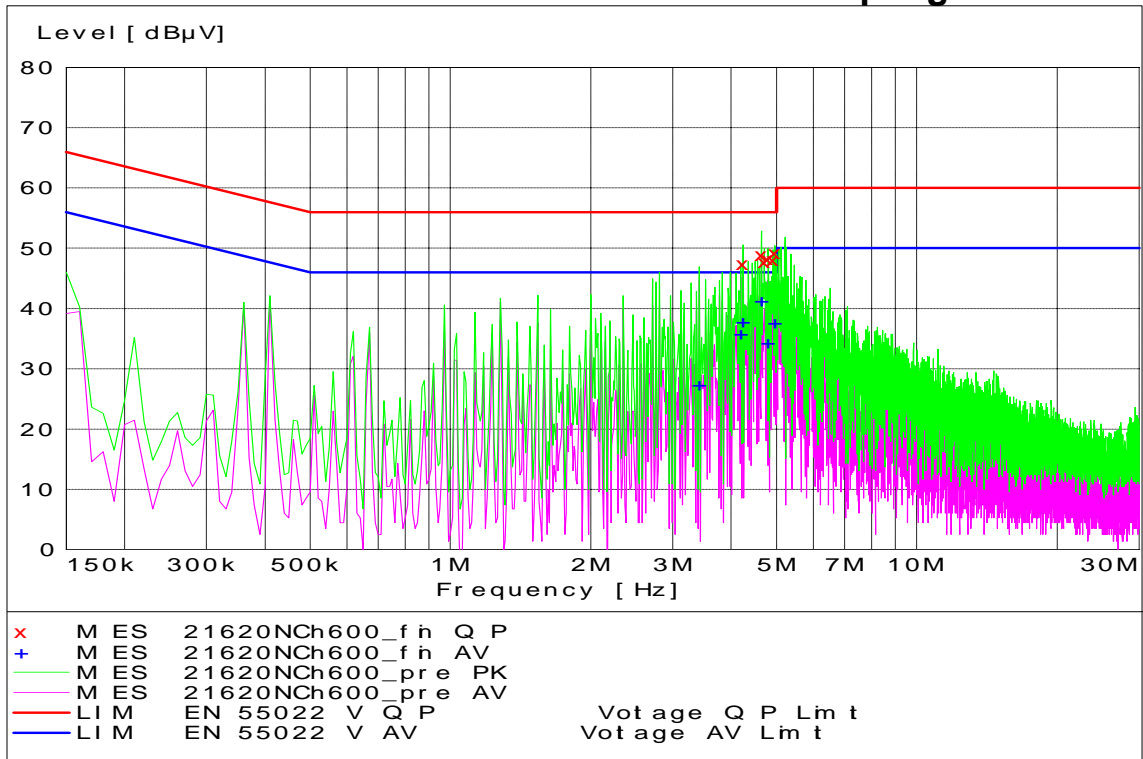
### PCS EVDO Channel 25 - Tx Mode - Neutral Coupling



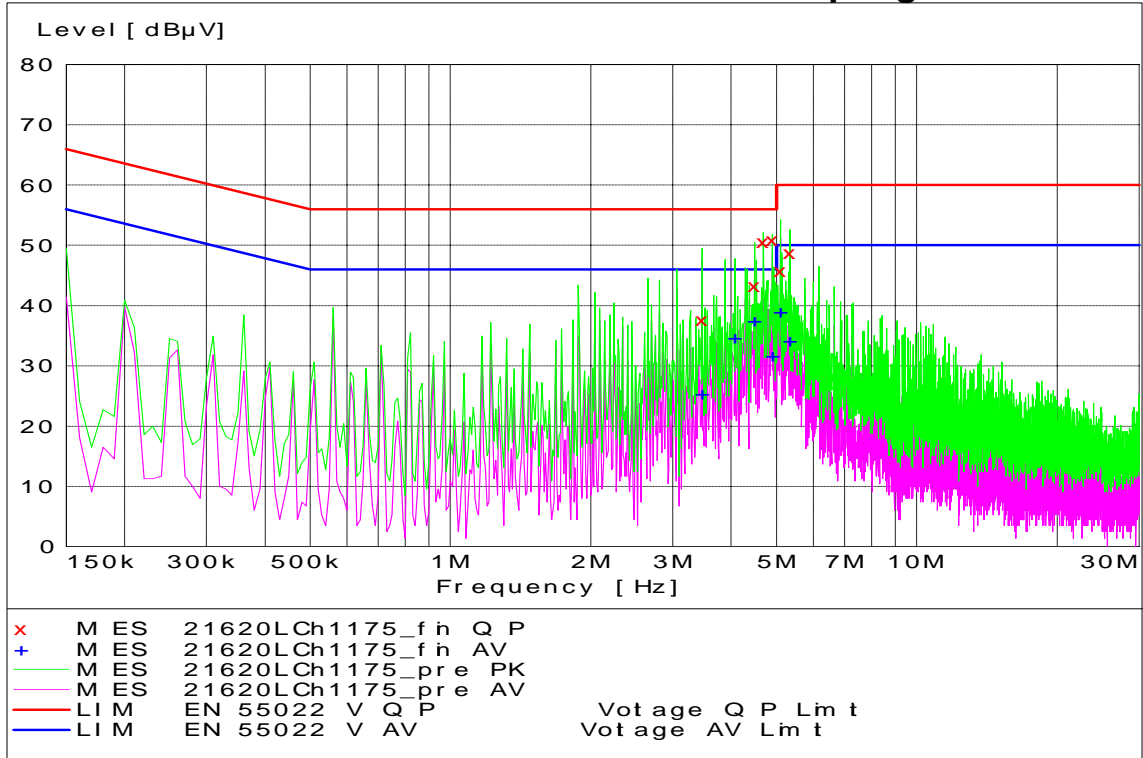
### PCS EVDO Channel 600 - Tx Mode - Line Coupling



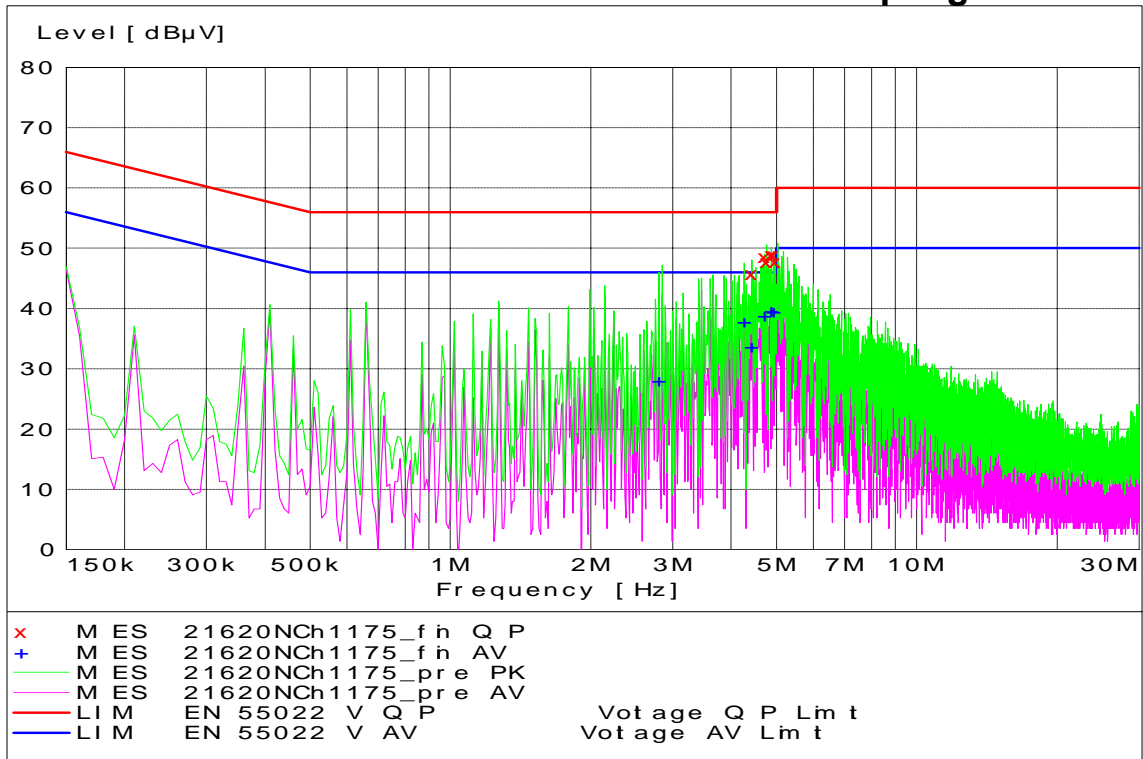
### PCS EVDO Channel 600 - Tx Mode - Neutral Coupling



**PCS EVDO Channel 1175 - Tx Mode - Line Coupling**



**PCS EVDO Channel 1175 - Tx Mode - Neutral Coupling**



**End of Test Report**