



MOBILE DEVICES BUSINESS

**PRODUCT SAFETY AND COMPLIANCE
EMC LABORATORY**

EMC TEST REPORT

Test Report Number – 22136-1

Report Date – July 30, 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:

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

Name: Albert J. Patapack

Title: EMC Engineer

Date: July 30, 2008

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

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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 1700, CDMA 1900, Bluetooth

FCC ID : IHDP56JS1

Serial Numbers: A00000021323455, A000000213236C4

Testing Complete Date: July 29, 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
- X Part 27 – Miscellaneous Wireless 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.

Manufacturer	Equipment Type	Model No.	Serial Number	Calibration Due Date
Rohde Schwarz	Receiver	ESI26	838786/010	2/28/2009
Rohde Schwarz	Receiver	ESI26	100001	6/03/2009
Hewlett Packard	EMC Analyzer	E7405	US39440191	5/08/2009
Hewlett Packard	Signal Generator	83712A	3429A00286	6/19/2009
ETS	DRG Horn Antenna	3115	6222	5/02/2009
ETS	Log-Periodic Antenna	3148	1189	10/10/2008
ETS	Biconical Antenna	3110B	3369	10/04/2008
Attenuator	Weinschel	AS-6	7074	7/23/2008
Attenuator	Weinschel	AS-6	7075	7/23/2008
Attenuator	Weinschel	AS-6	6675	6/13/2009
Attenuator	Weinschel	AS-6	6677	6/17/2009
Thermotron	Environmental Chamber	S-4	31580	2/11/2009
Agilent	Power Meter	E4416A	GB41293246	9/10/2008
Agilent	Power Sensor	E9323A	MY44420850	11/07/2008
Agilent	Microwave Preamplifier	8449B	3008A00535	12/06/2009
ETS	LISN	3810/2NM	2179	1/23/2009
ETS	LISN	3810/2NM	00023630	1/23/2009

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 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	25.00
836.52	25.01
848.31	25.00

CDMA 1700

Frequency (MHz)	Power (dBm)
1711.25	25.01
1732.50	24.94
1753.75	25.05

CDMA 1900

Frequency (MHz)	Power (dBm)
1851.25	25.00
1880.00	24.94
1908.75	25.19

As Per the “Preliminary Guidance for Reviewing Applications for Certifications of 3G Devices” released on May 9, 2006, RC1, RC3 and RC3 (FCH + SCH) CDMA modes were considered. The conducted power measurements (per steps 3, 4 & 10 of section 4.4.5.2 of 3GPP2 C.5.011 / TIA -98-E) show that the portable cellular phone FCC ID IHDP56JS1 has the same output conducted power for all applicable CDMA modes. All testing was done in RC3/SO55 mode.

Conducted power (dBm) for CDMA modes						
	Channel	RC1		RC3		RC3 (FCH + SCH)
		SO2	SO55	SO2	SO55	
CDMA 800	1013	25.04	25.01	25.00	25.00	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	25.13	25.12	25.07	25.05	
	777	25.00	25.03	24.98	25.00	
CDMA 1700	25	25.17	25.10	25.07	25.01	
	450	24.90	24.92	24.98	24.94	
	875	25.14	25.08	25.06	25.05	
CDMA 1900	25	25.17	25.08	25.12	25.00	
	600	25.12	25.03	25.14	24.94	
	1175	25.18	25.21	25.28	25.19	

Note that this product does not support EV-DO.

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 CDMA 800, CDMA 1700 and CDMA 1900.

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 Peak Detector. 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

CDMA 800:

<u>Frequency (MHz)</u>	<u>ERP (dBm)</u>
824.70	25.37
836.52	26.51
848.31	25.95

CDMA 1700:

<u>Frequency (MHz)</u>	<u>EIRP (dBm)</u>
1711.25	28.50
1732.50	27.80
1753.75	29.78

CDMA 1900:

<u>Frequency (MHz)</u>	<u>EIRP (dBm)</u>
1851.25	28.85
1880.00	27.03
1908.75	26.61

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

BAND/TECHNOLOGY	MAXIMUM EIRP(dBm)	MAXIMUM ERP (dBm)
800 CDMA	28.61	26.51
1700 CDMA	29.78	27.68
1900 CDMA	28.85	26.75

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.

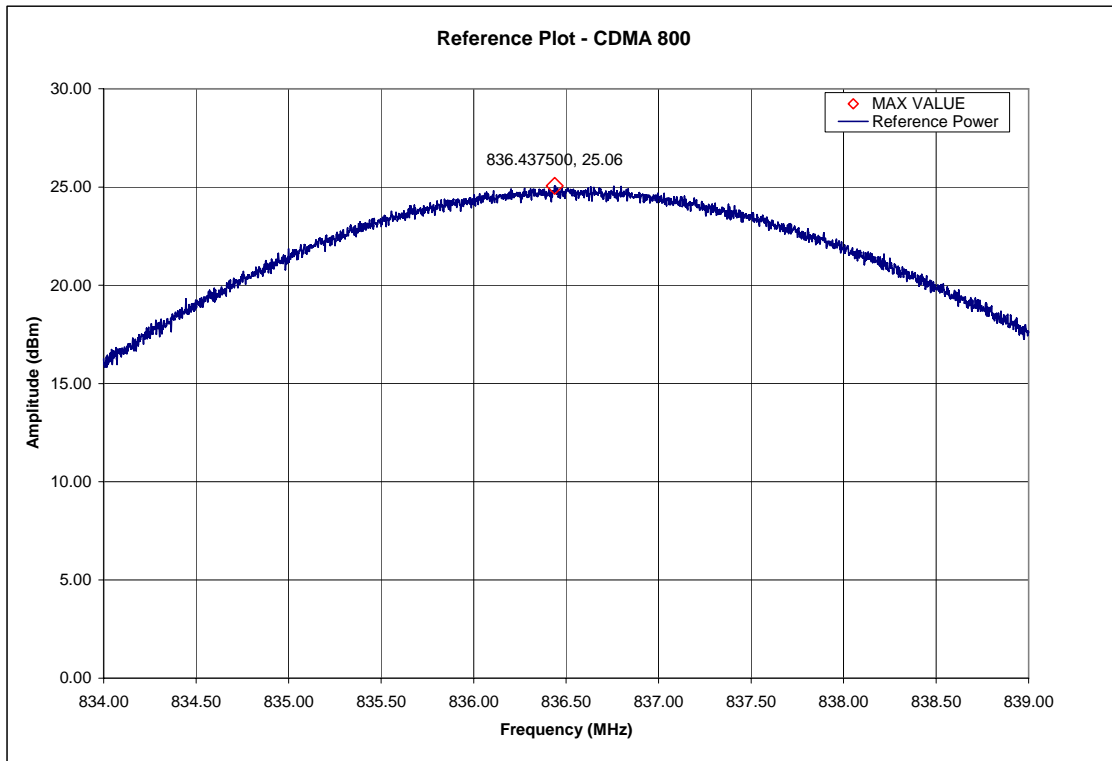
The middle channel within the designated frequency block was measured. For digital modulation, the lower and upper band edge plots are displayed.

Measurement Results
Attached

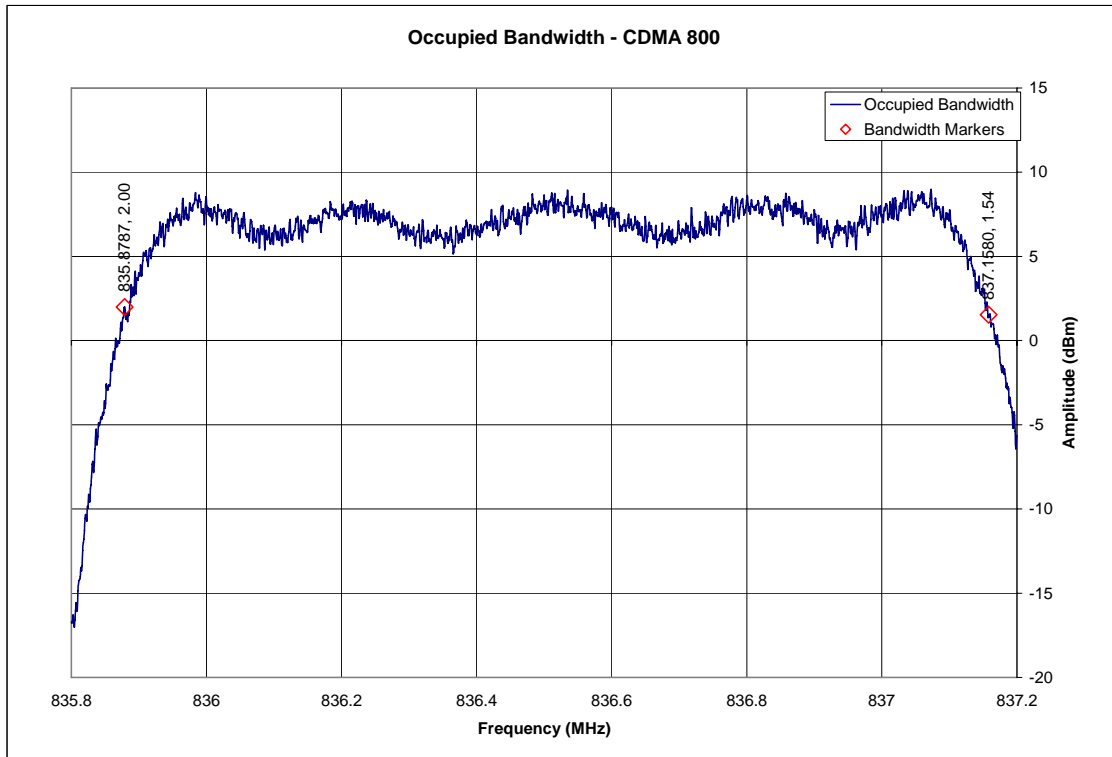
Measurement Results – CDMA 800

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

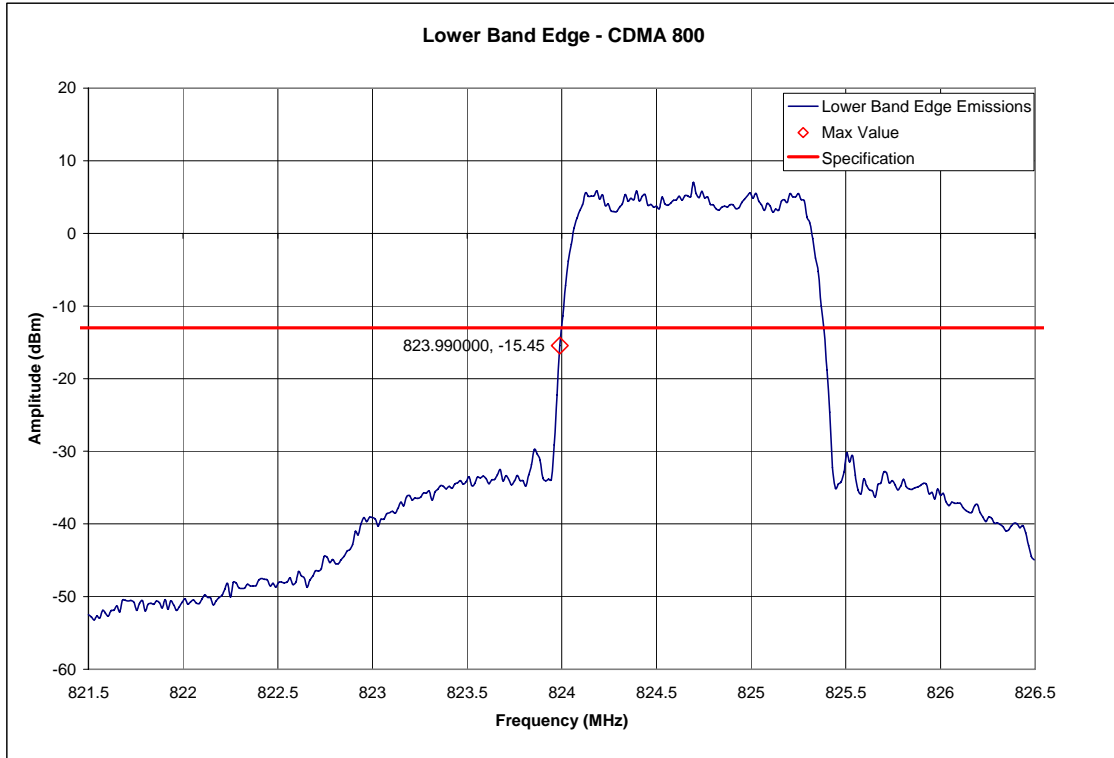
- Notes:
- 1) When the video bandwidth is set to Auto the video bandwidth self adjusts for ³ the resolution bandwidth.
 - 2) The plotted data shown for the band edge measurements is representative of data taken with a true 13 kHz resolution bandwidth filter. The raw data was taken using a 1 kHz resolution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



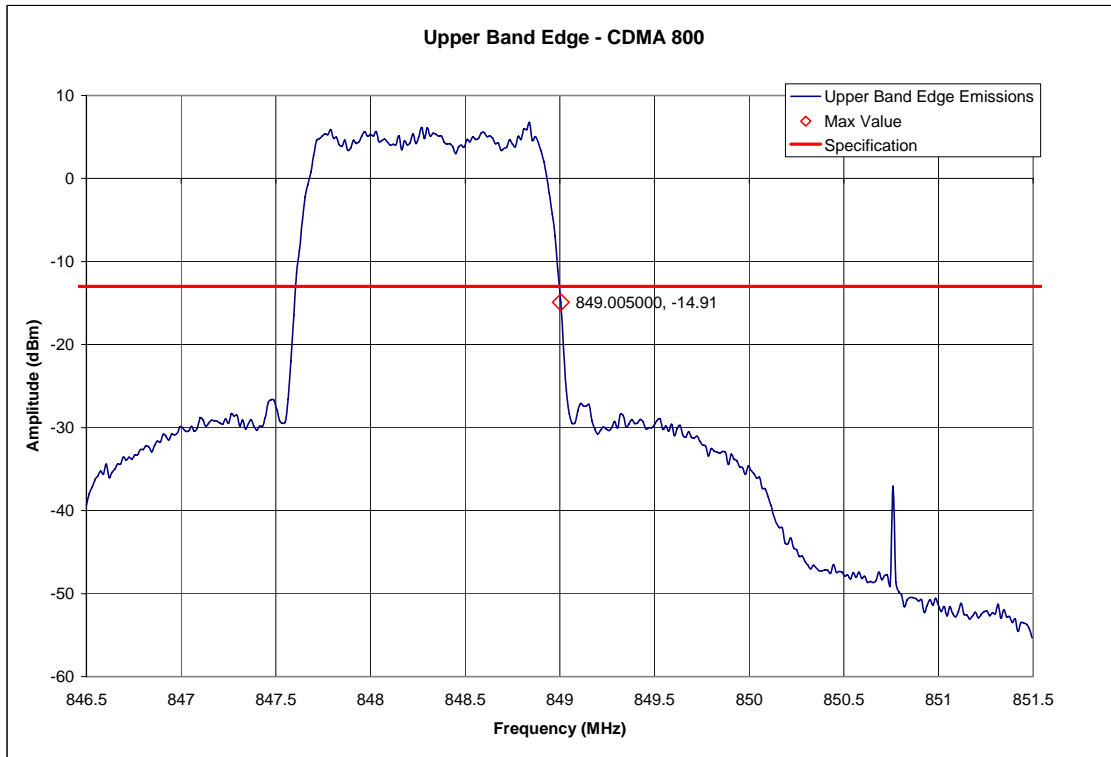
CDMA 800 – Reference Level Plot – Channel 384 (836.52MHz)



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

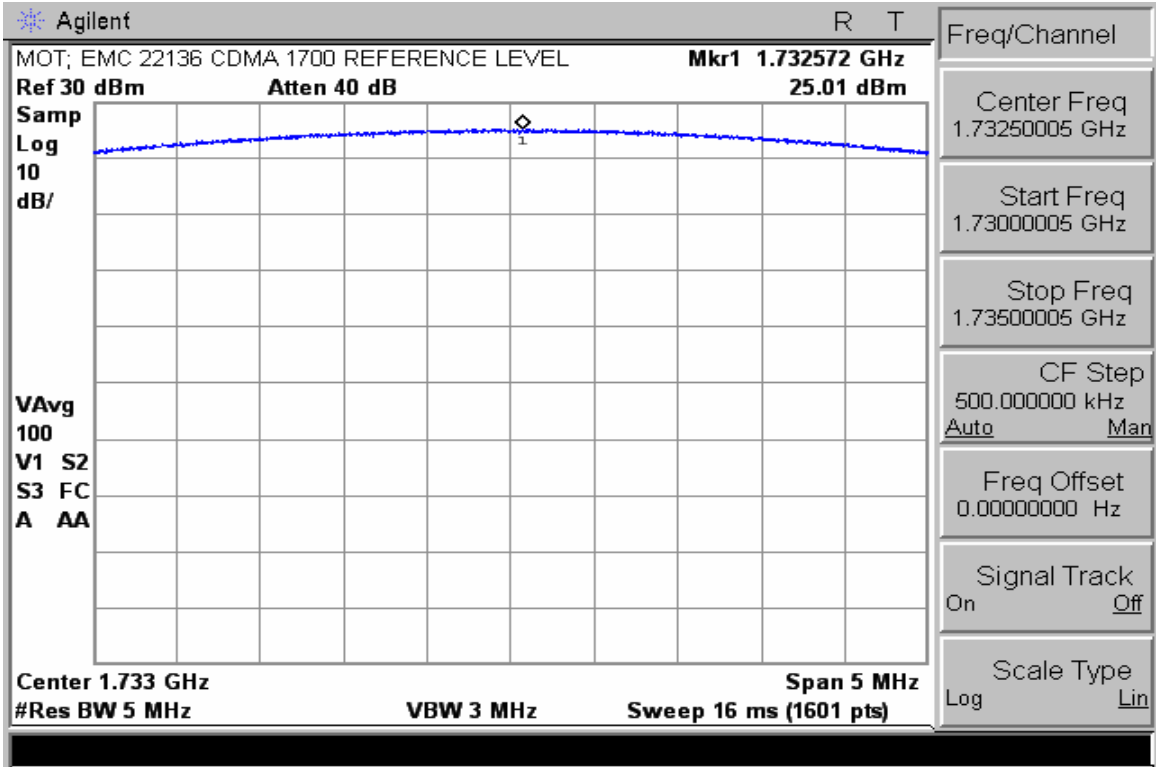


CDMA 800 – Lower Band Edge – Channel 1013 (824.702MHz)

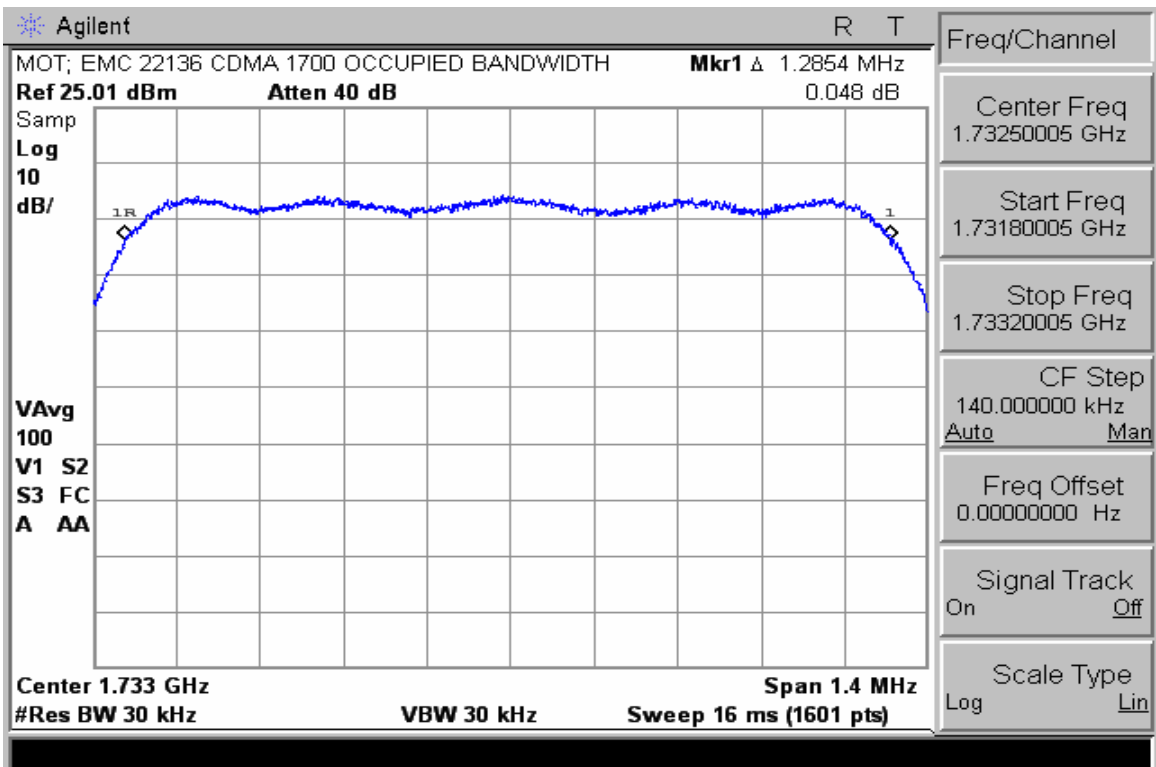


CDMA 800 – Upper Band Edge – Channel 777 (848.31MHz)

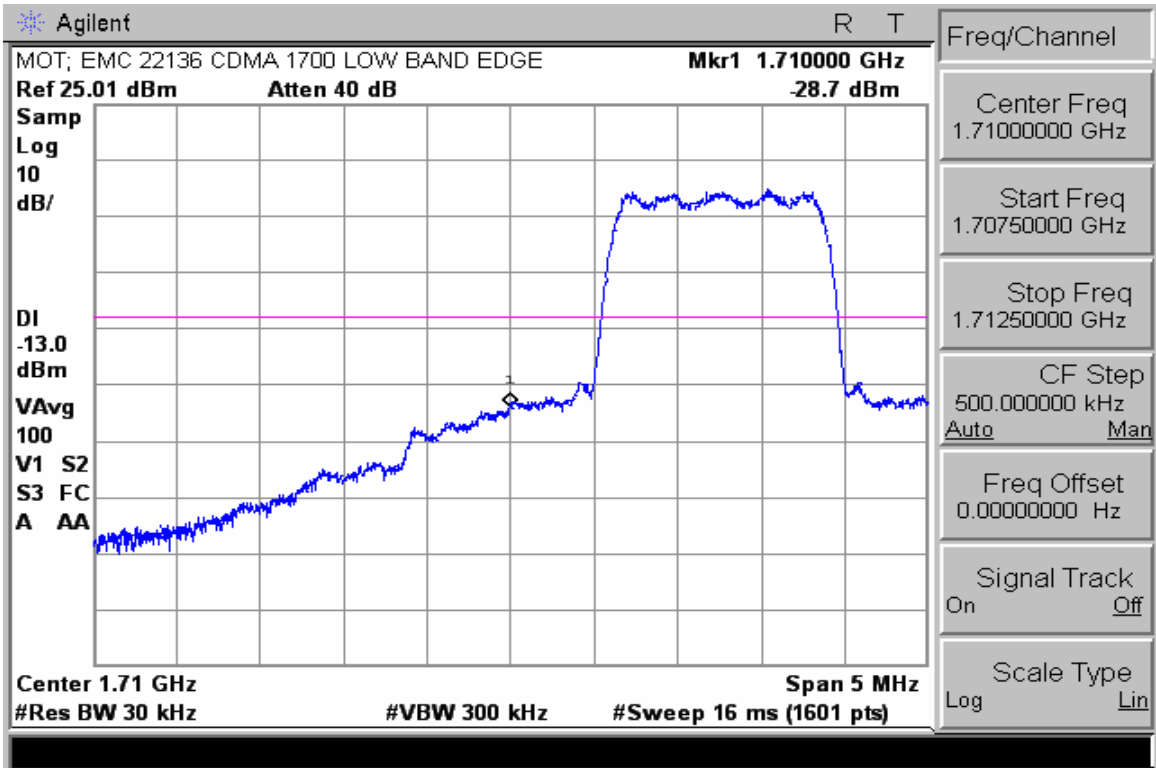
Measurement Results – CDMA 1700



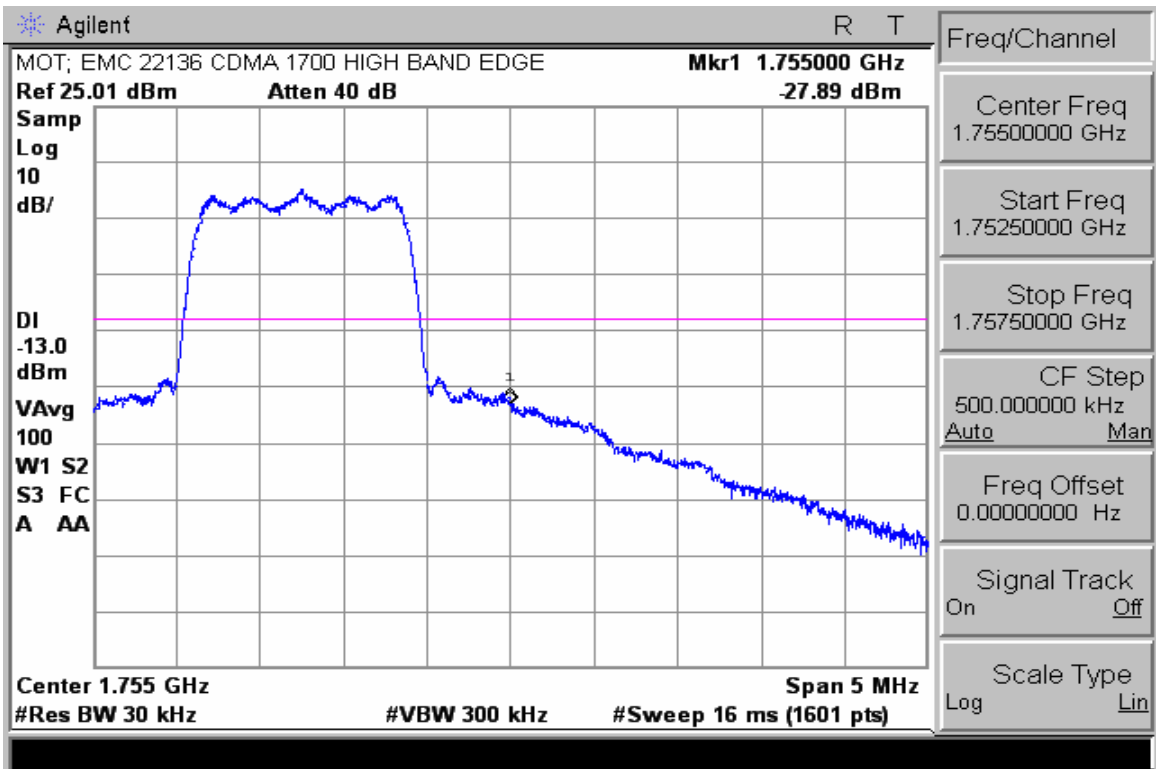
CDMA 1700 – Reference Level Plot – Channel 450 (1732.50 MHz)



CDMA 1700 – Occupied Bandwidth – Channel 450 (1732.50 MHz)

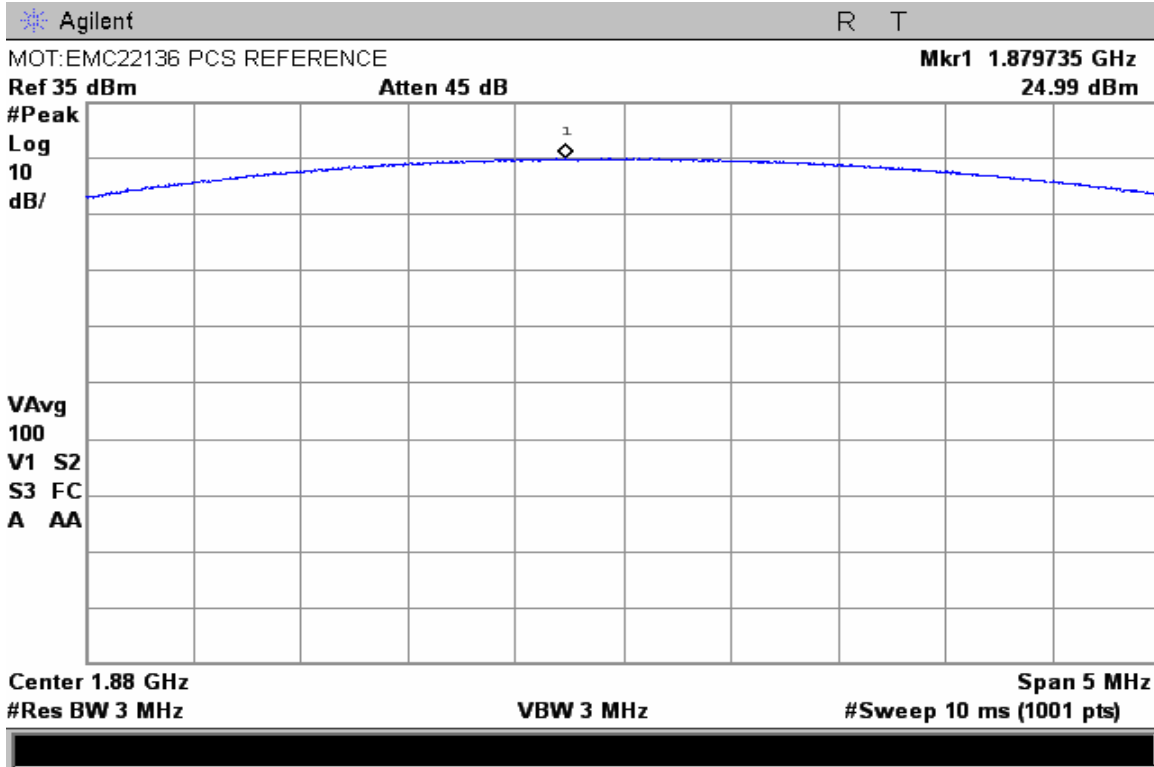


CDMA 1700 – Lower Band Edge – Channel 25 (1711.25 MHz)

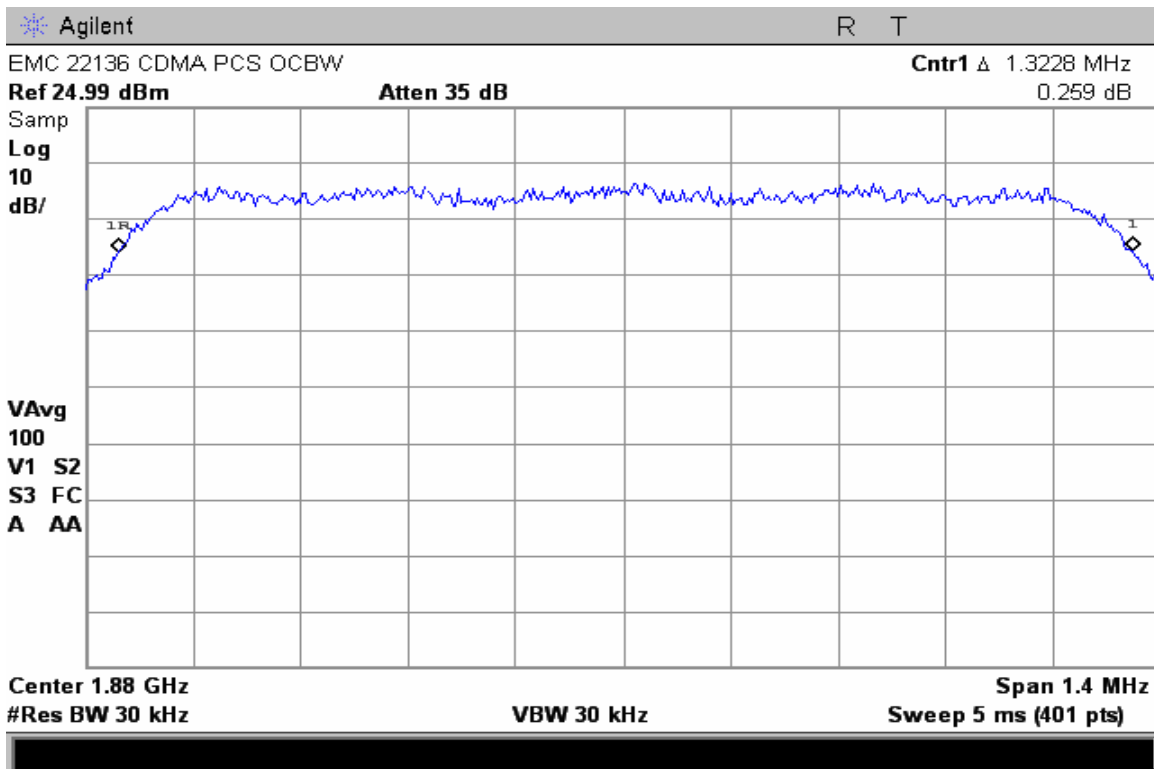


CDMA 1700 – Upper Band Edge – Channel 875 (1753.75MHz)

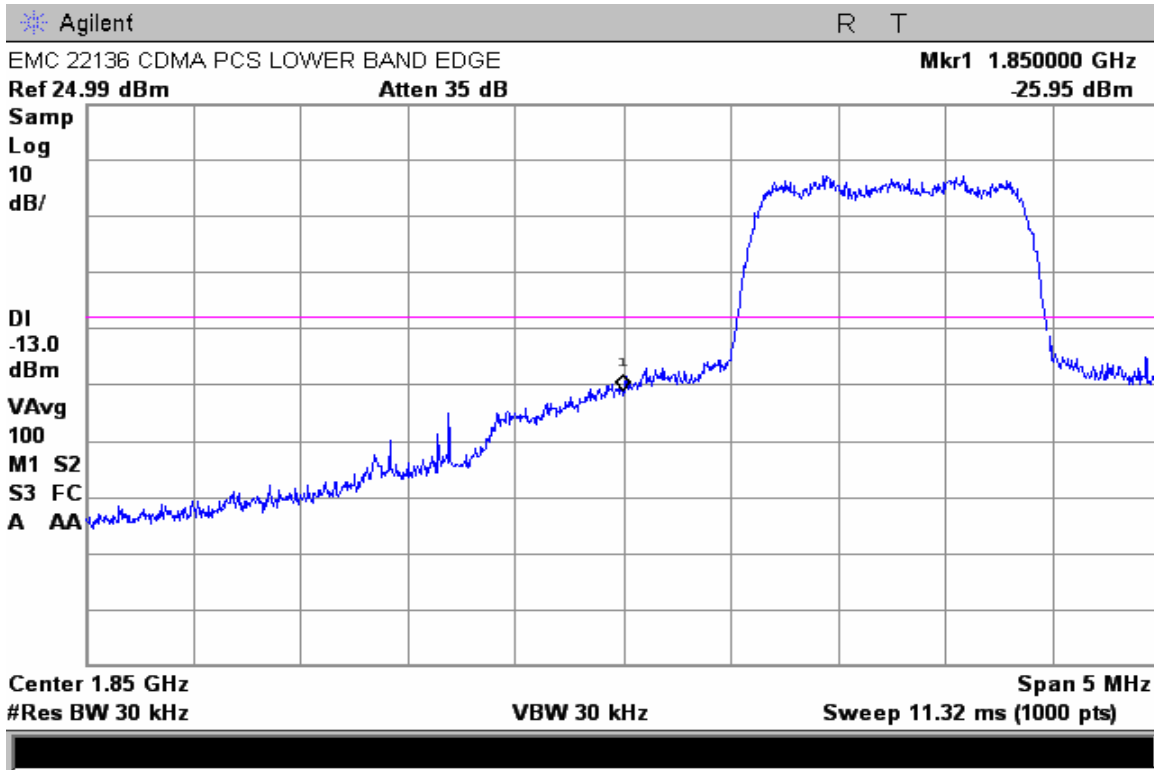
Measurement Results – CDMA 1900



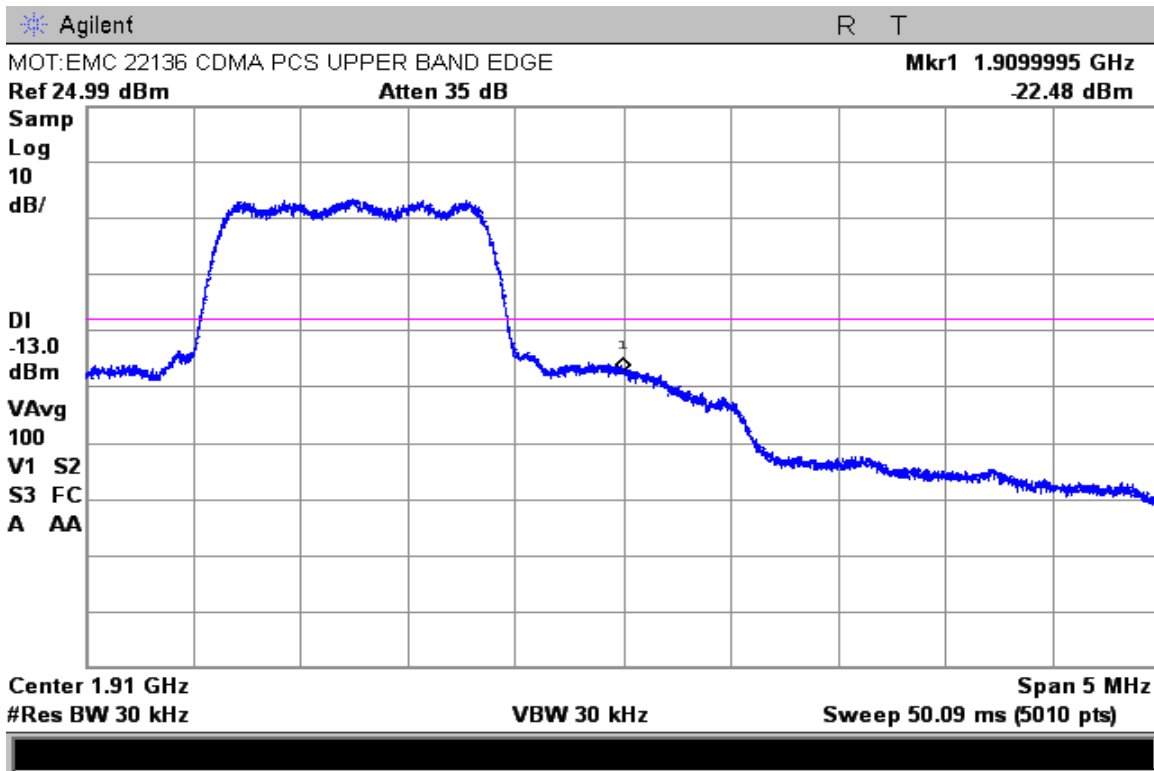
CDMA 1900 – Reference Level Plot – Channel 600 (1880.00 MHz)



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



CDMA 1900 – Lower Band Edge – Channel 25 (1851.25 MHz)



CDMA 1900 – 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

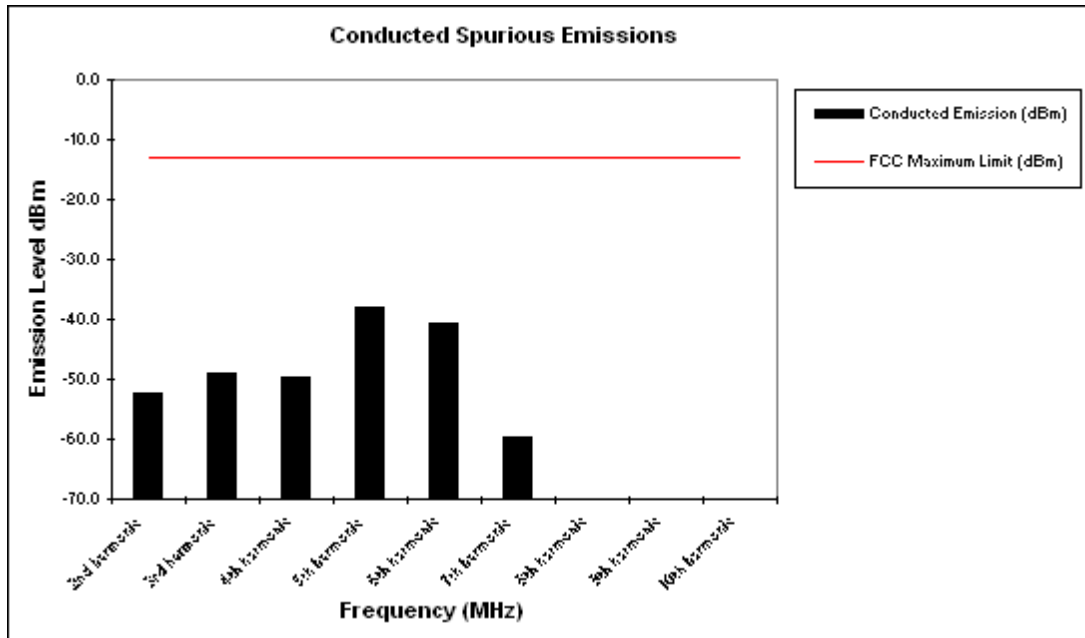
Measurement Results

Attached

Measurement Results
Modulation: CDMA 800

Conducted Spurious and Harmonic Emissions

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-52.2
3rd harmonic	-13	-49.0
4th harmonic	-13	-49.8
5th harmonic	-13	-38.1
6th harmonic	-13	-40.7
7th harmonic	-13	-59.5
8th harmonic	-13	*
9th harmonic	-13	*
10th harmonic	-13	*



Notes:

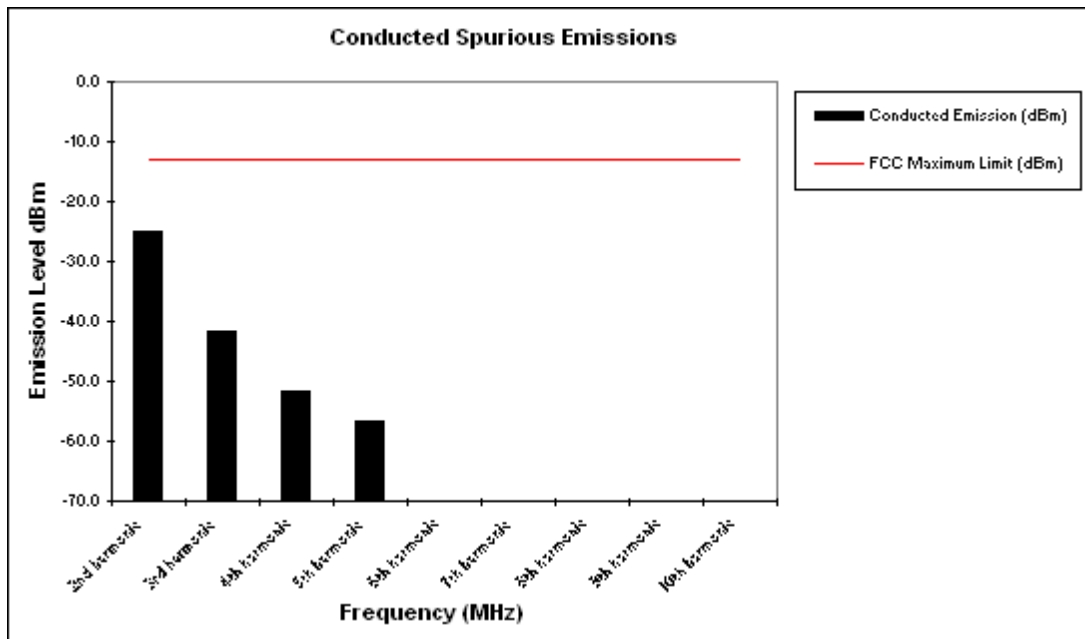
1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 9 kHz to the tenth harmonic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

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

Measurement Results
Modulation: CDMA 1700

Conducted Spurious and Harmonic Emissions

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-25.1
3rd harmonic	-13	-41.8
4th harmonic	-13	-51.5
5th harmonic	-13	-56.7
6th harmonic	-13	*
7th harmonic	-13	*
8th harmonic	-13	*
9th harmonic	-13	*
10th harmonic	-13	*



Notes:

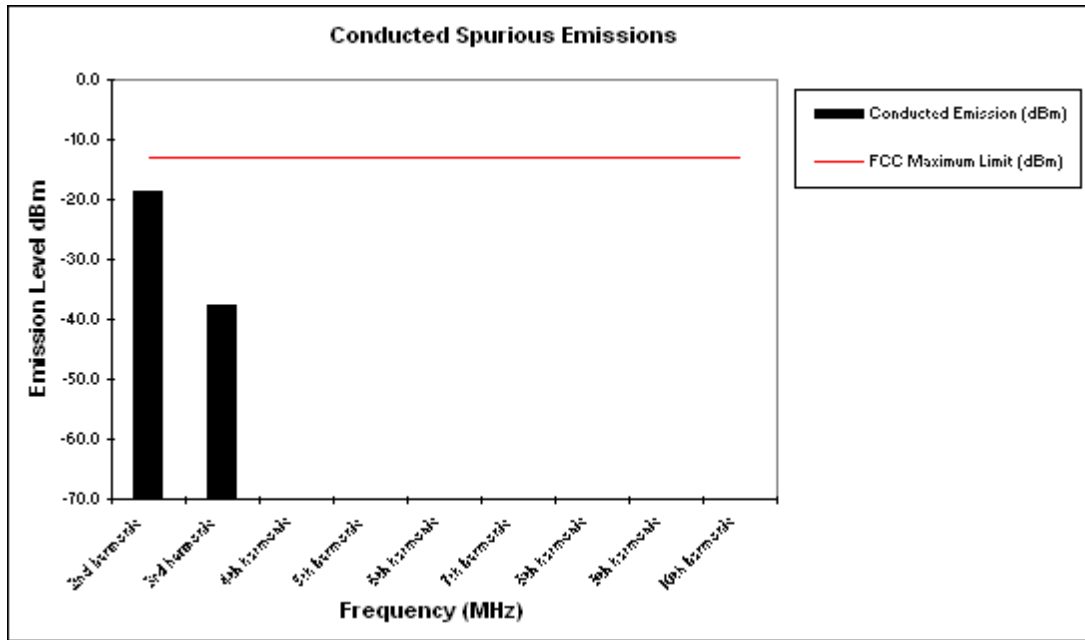
- * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- The Spectrum was investigated from 9 kHz to the tenth harmonic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

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

Measurement Results
Modulation: CDMA 1900

Conducted Spurious and Harmonic Emissions

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
2nd harmonic	-13	-18.7
3rd harmonic	-13	-37.8
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

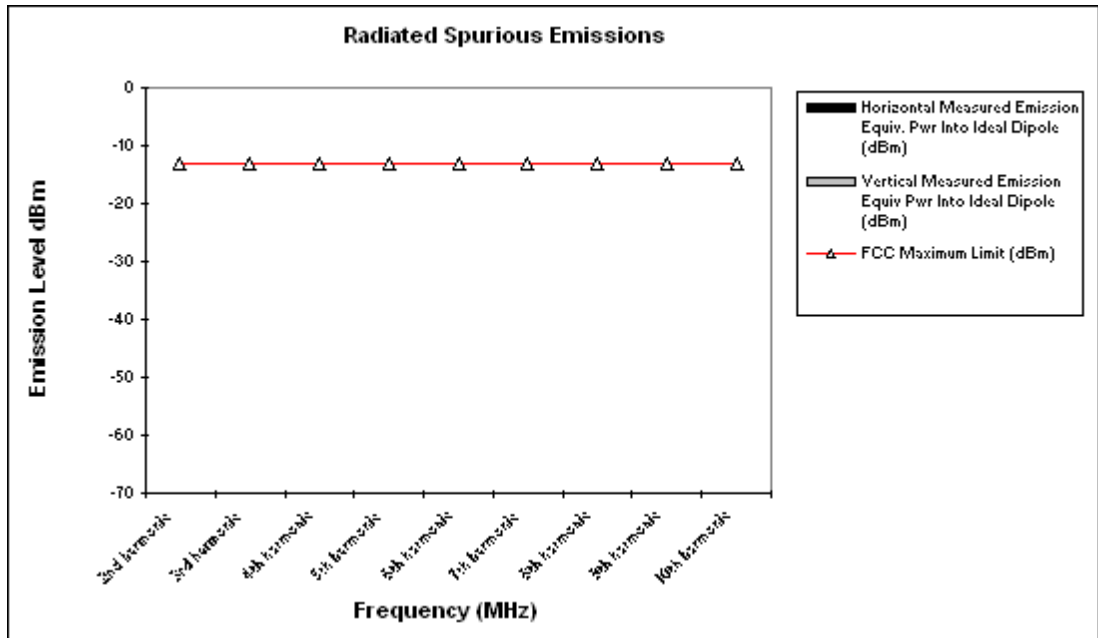
Measurement Results

Attached

Measurement Results
Modulation: CDMA 800

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	*	*



Notes:

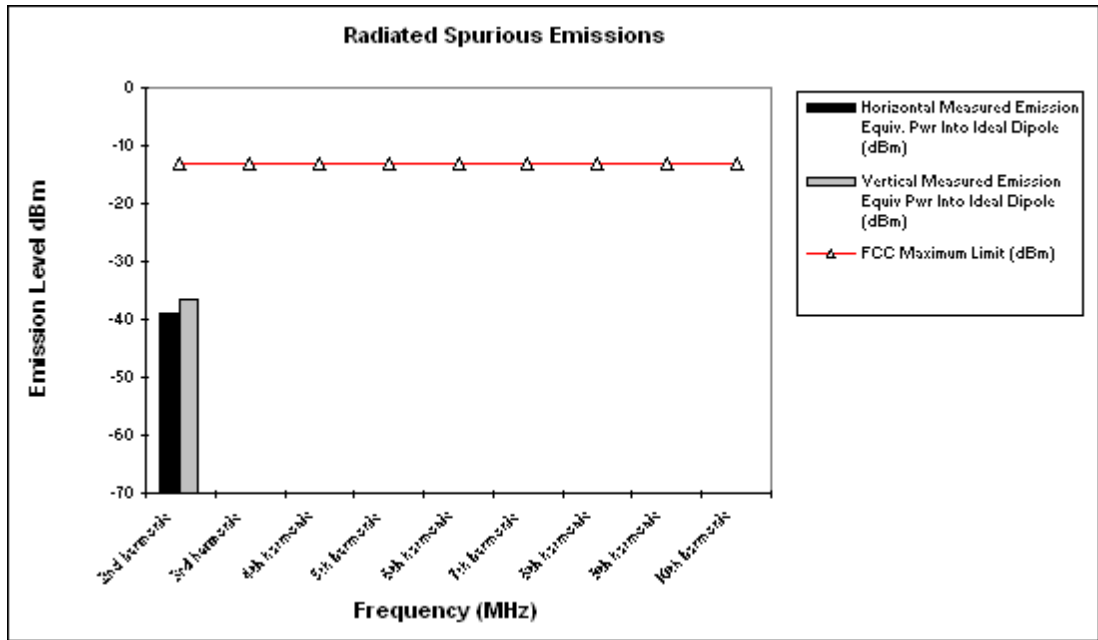
1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic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

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

Measurement Results
Modulation: CDMA 1700

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	-38.8	-36.4
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:

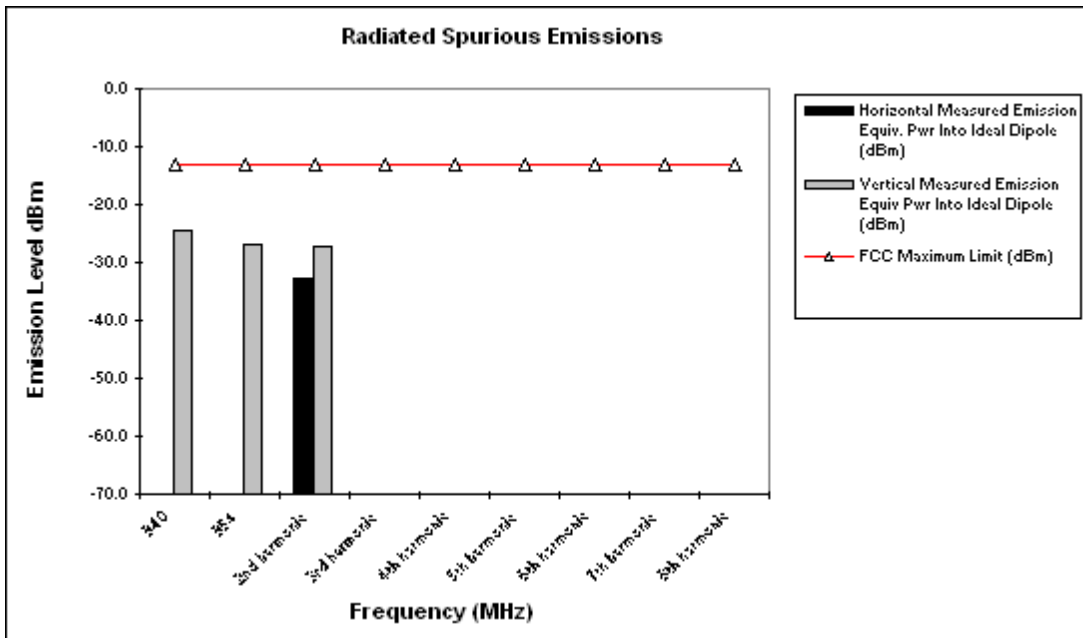
1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic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

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

Measurement Results
Modulation: CDMA 1900

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)
940	-13	*	-24.5
954	-13	*	-26.8
2nd harmonic	-13	-32.9	-27.3
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:

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°C to $+60^{\circ}\text{C}$ and at intervals of 10°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

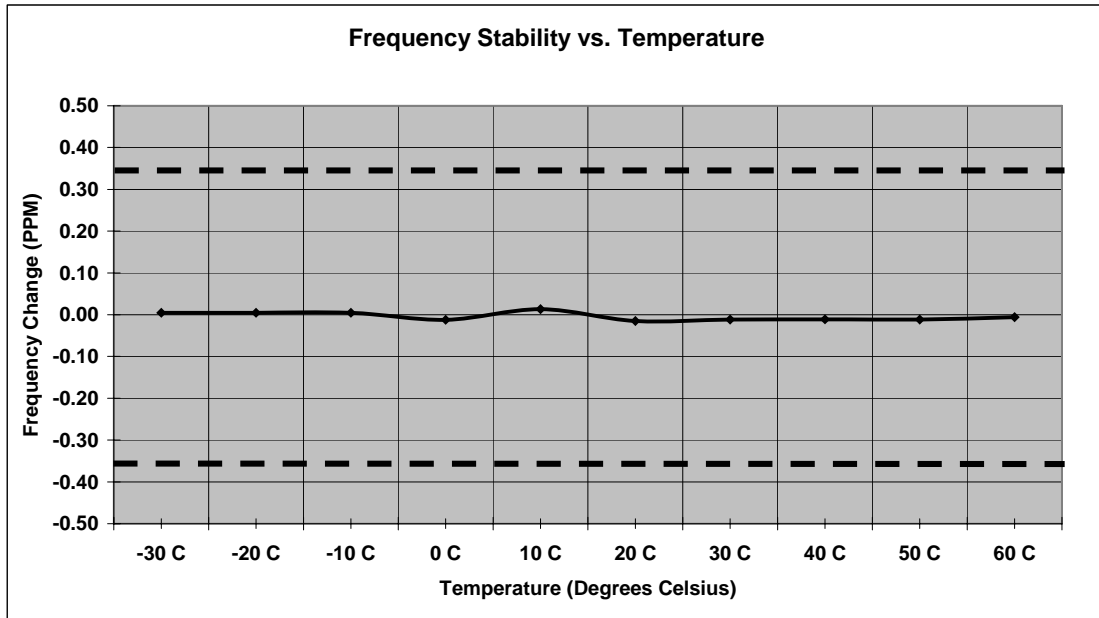
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Measurement Results
Modulation: CDMA 800

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	3.71	0.004	100%	3.80
-20 C	3.83	0.005	100%	3.80
-10 C	3.84	0.005	100%	3.80
0 C	-9.98	-0.012	100%	3.80
10 C	11.38	0.014	100%	3.80
20 C	-12.74	-0.015	100%	3.80
30 C	-9.67	-0.012	100%	3.80
40 C	-9.07	-0.011	100%	3.80
50 C	-9.64	-0.012	100%	3.80
60 C	-4.89	-0.006	100%	3.80
20 C	-9.74	-0.012	Battery Endpoint	3.40

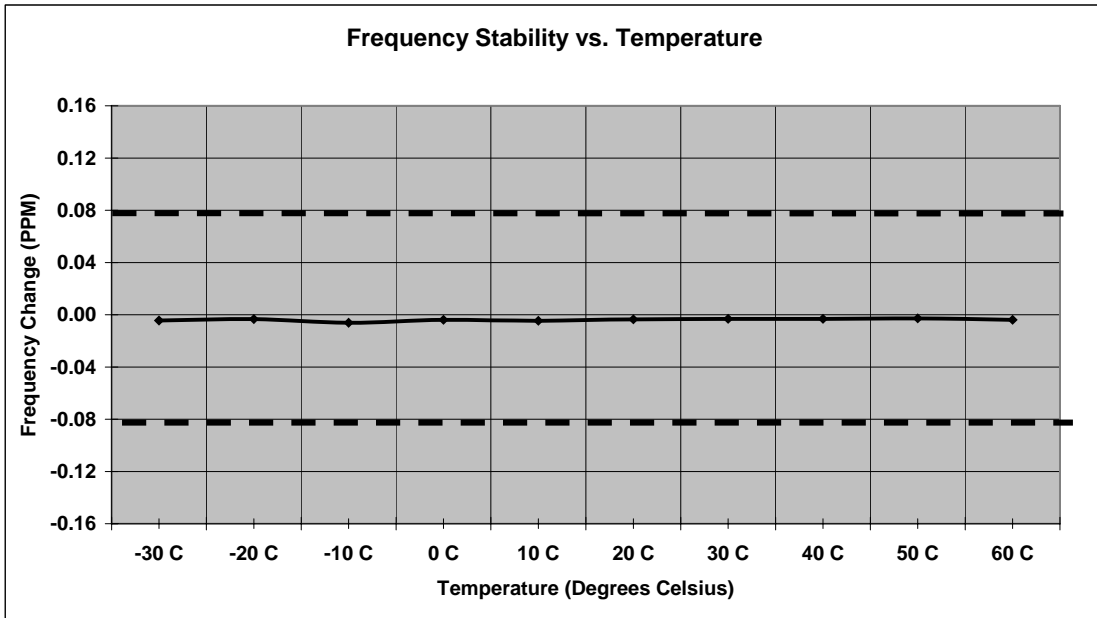


Measurement Results
Modulation: CDMA 1700

Frequency Stability

Mode: CDMA 1700 **Operating Frequency:** 1732.50 MHz
Channel: 450 **Deviation Limit (PPM):** 0.08ppm (+/-150Hz)

Temperature	Frequency Error	Frequency Error	Voltage	Voltage
C	HZ	(PPM)	(%)	(VDC)
-30 C	-8.41	-0.004	100%	3.80
-20 C	-6.33	-0.003	100%	3.80
-10 C	-11.38	-0.006	100%	3.80
0 C	-7.30	-0.004	100%	3.80
10 C	-8.88	-0.005	100%	3.80
20 C	-6.74	-0.004	100%	3.80
30 C	-6.00	-0.003	100%	3.80
40 C	-5.80	-0.003	100%	3.80
50 C	-5.29	-0.003	100%	3.80
60 C	-7.38	-0.004	100%	3.80
20 C	-9.36	-0.005	Battery Endpoint	3.40

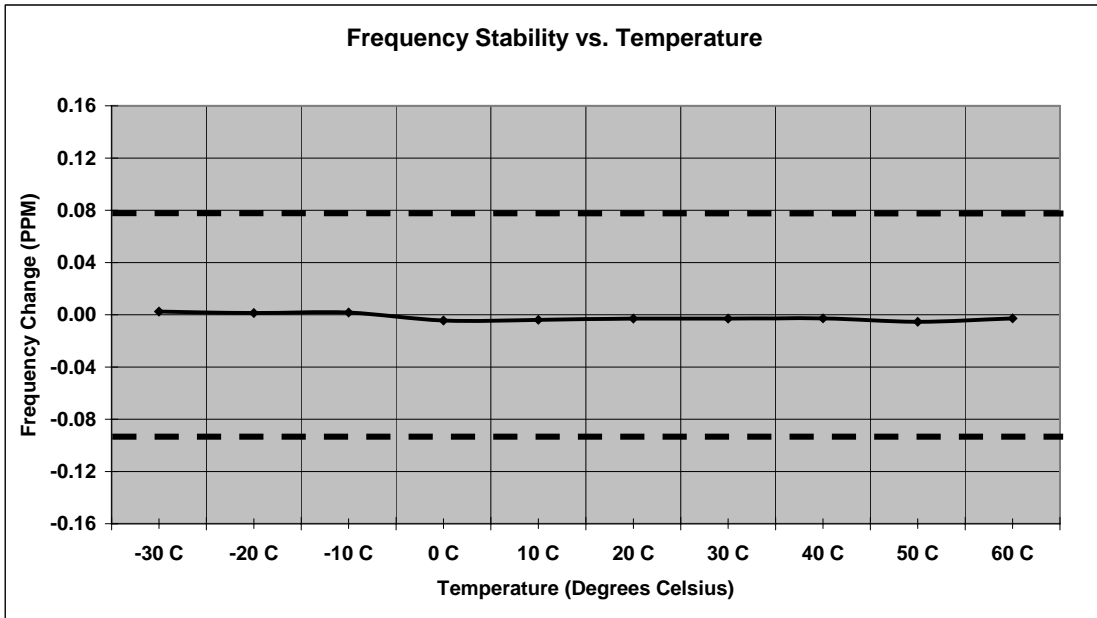


Measurement Results
Modulation: CDMA 1900

Frequency Stability

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

Temperature	Frequency Error	Frequency Error	Voltage	Voltage
C	HZ	(PPM)	(%)	(VDC)
-30 C	4.40	0.002	100%	3.80
-20 C	2.59	0.001	100%	3.80
-10 C	3.12	0.002	100%	3.80
0 C	-8.37	-0.004	100%	3.80
10 C	-7.33	-0.004	100%	3.80
20 C	-5.66	-0.003	100%	3.80
30 C	-5.49	-0.003	100%	3.80
40 C	-5.39	-0.003	100%	3.80
50 C	-10.11	-0.005	100%	3.80
60 C	-5.09	-0.003	100%	3.80
20 C	-5.64	-0.003	Battery Endpoint	3.40



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

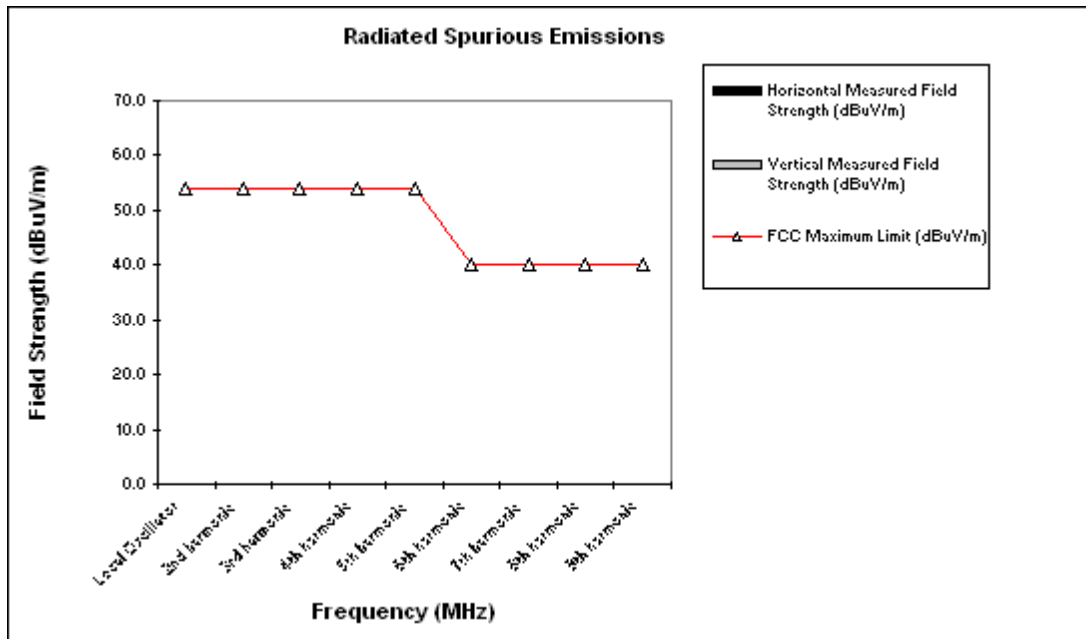
Attached

Measurement Results

Modulation: CDMA 800, CDMA 1700 and CDMA 1900

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

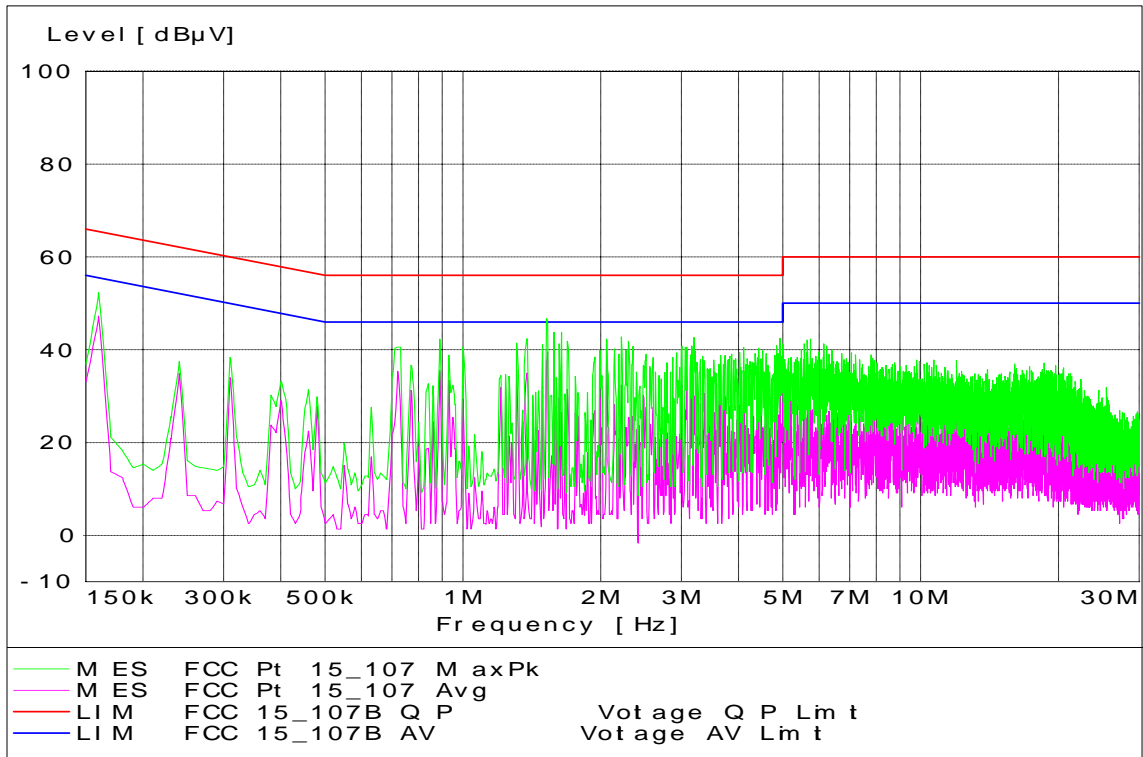
Measured levels of ac power line conducted emission shall be the radio-noise voltage from the line probe or across the 50 Ω LISN port, where permitted, terminated into a 50 Ω noise meter, or where permitted or required, the radio-noise current on the power line sensed by a current probe.

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 Ω measuring port is terminated by a 50 Ω radio-noise meter or a 50 Ω resistive load. All other ports are terminated in 50 Ω .

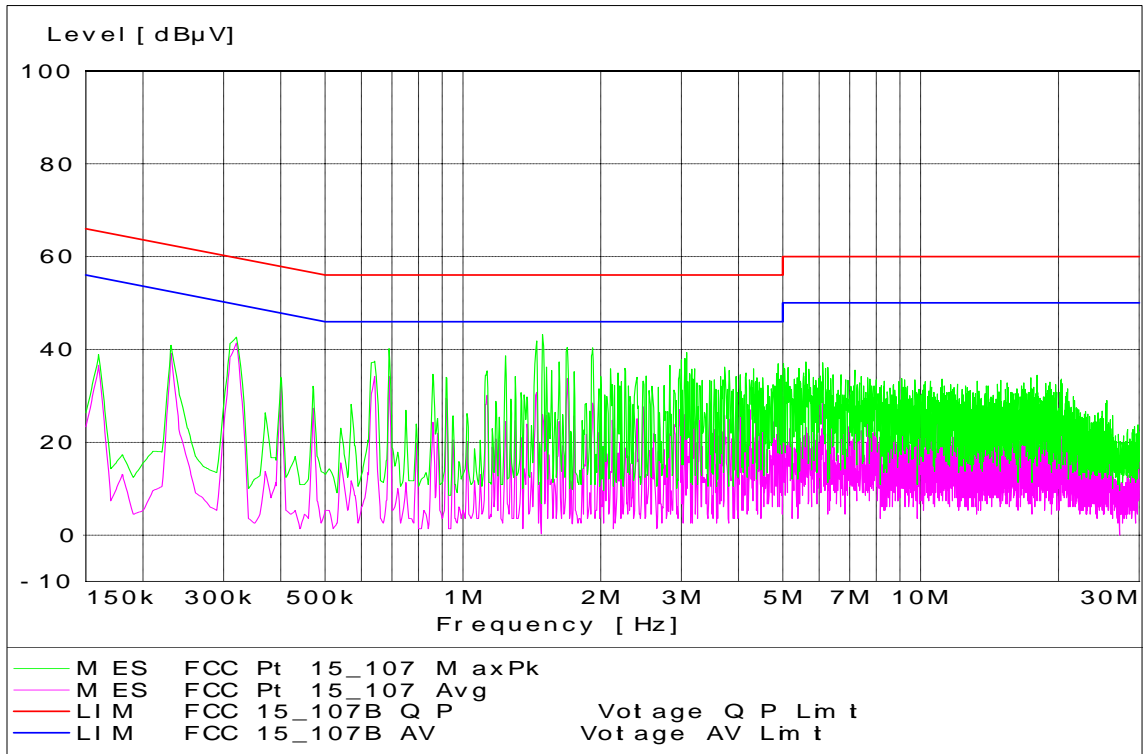
Detectors – Quasi Peak and Average

Measurement Results

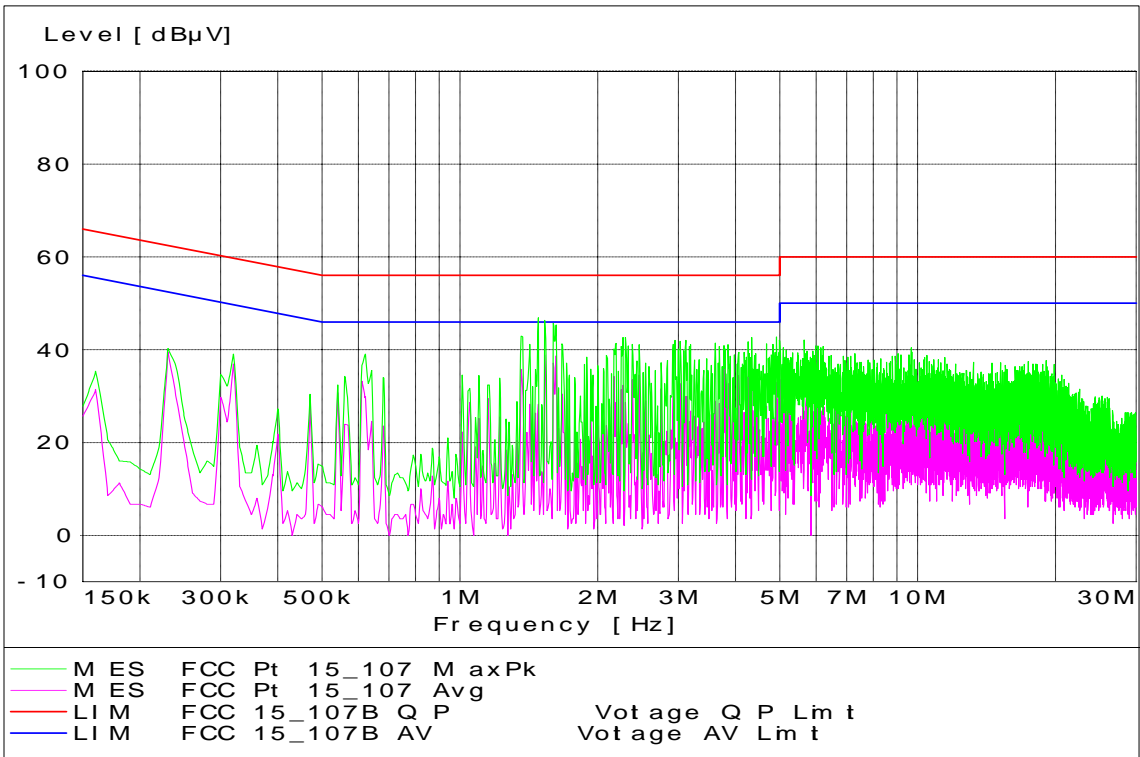
See attached:



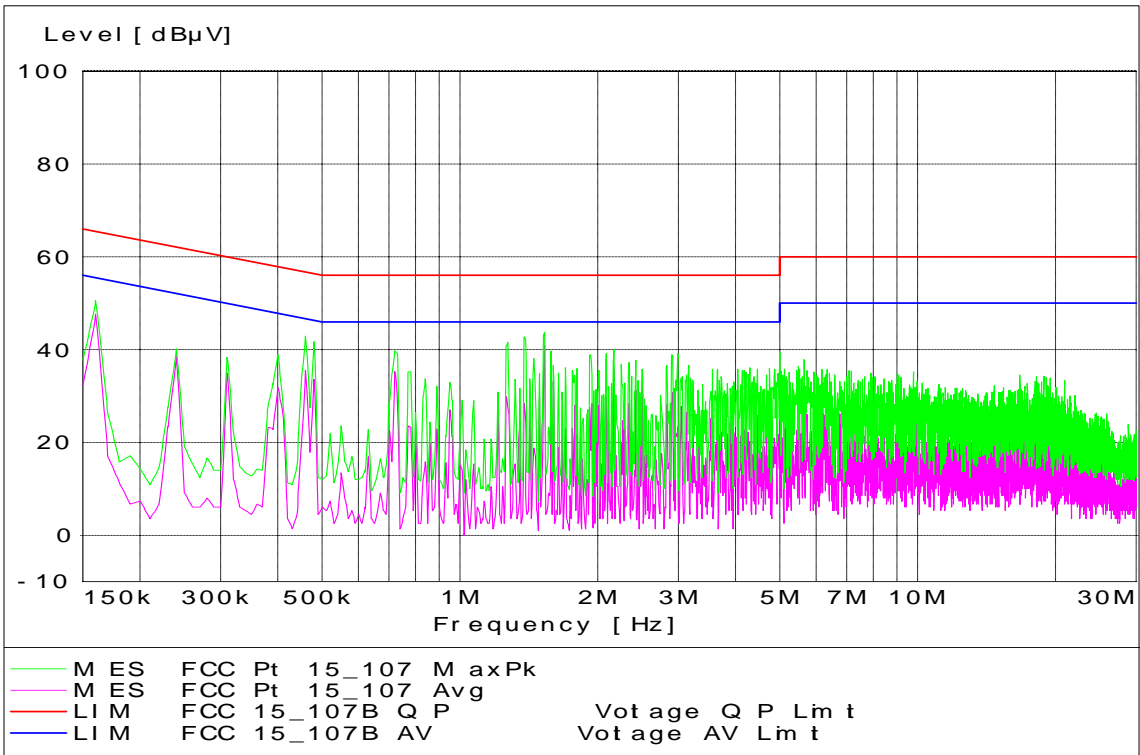
CDMA 800 Channel 1013 - Tx Mode - Line Coupling



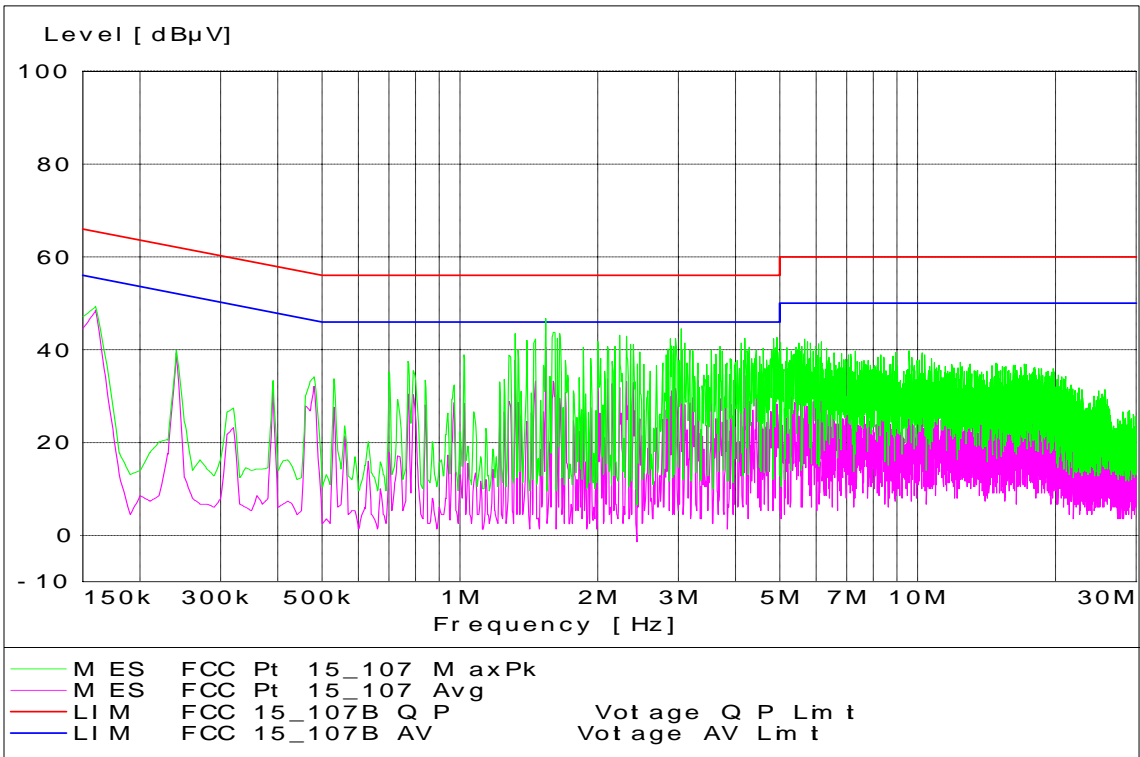
CDMA 800 Channel 1013 - Tx Mode - Neutral Coupling



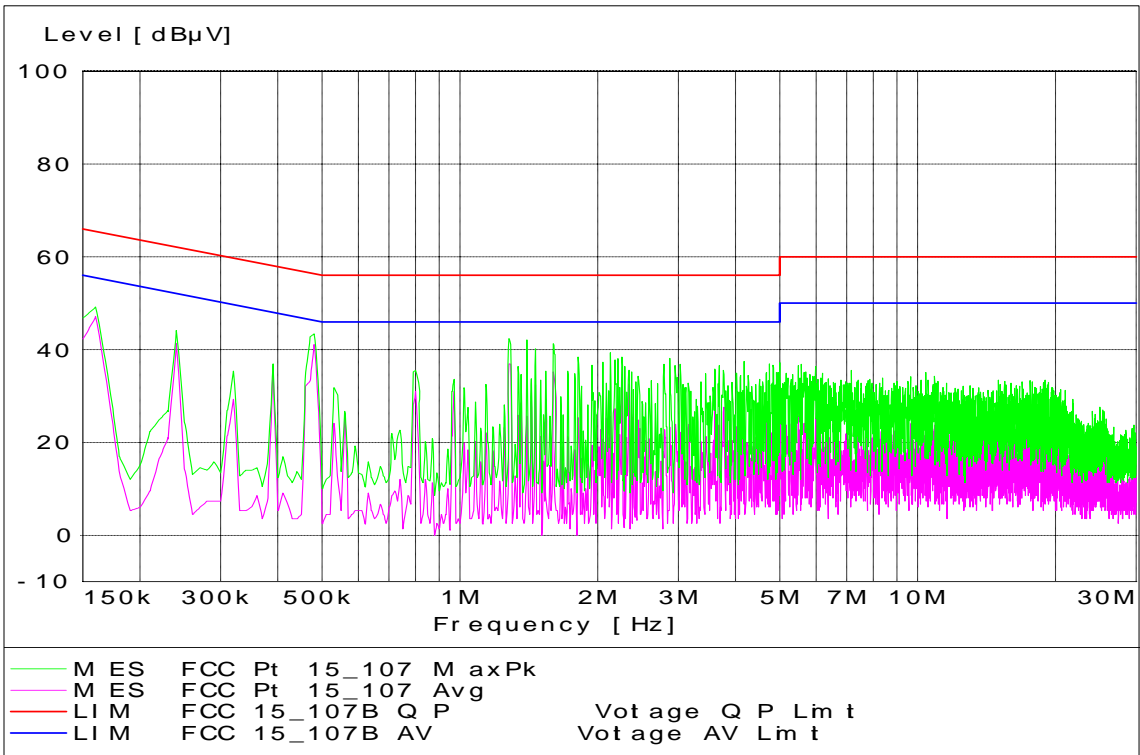
CDMA 800 Channel 384 - Tx Mode - Line Coupling



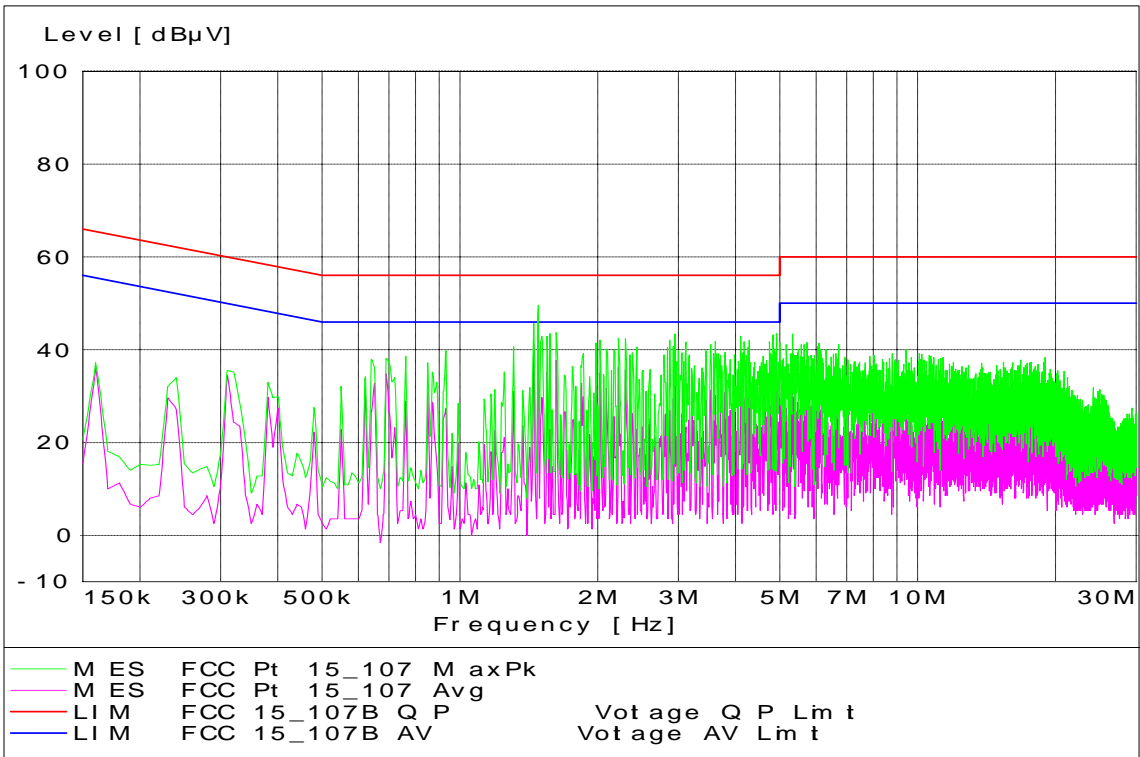
CDMA 800 Channel 384 - Tx Mode - Neutral Coupling



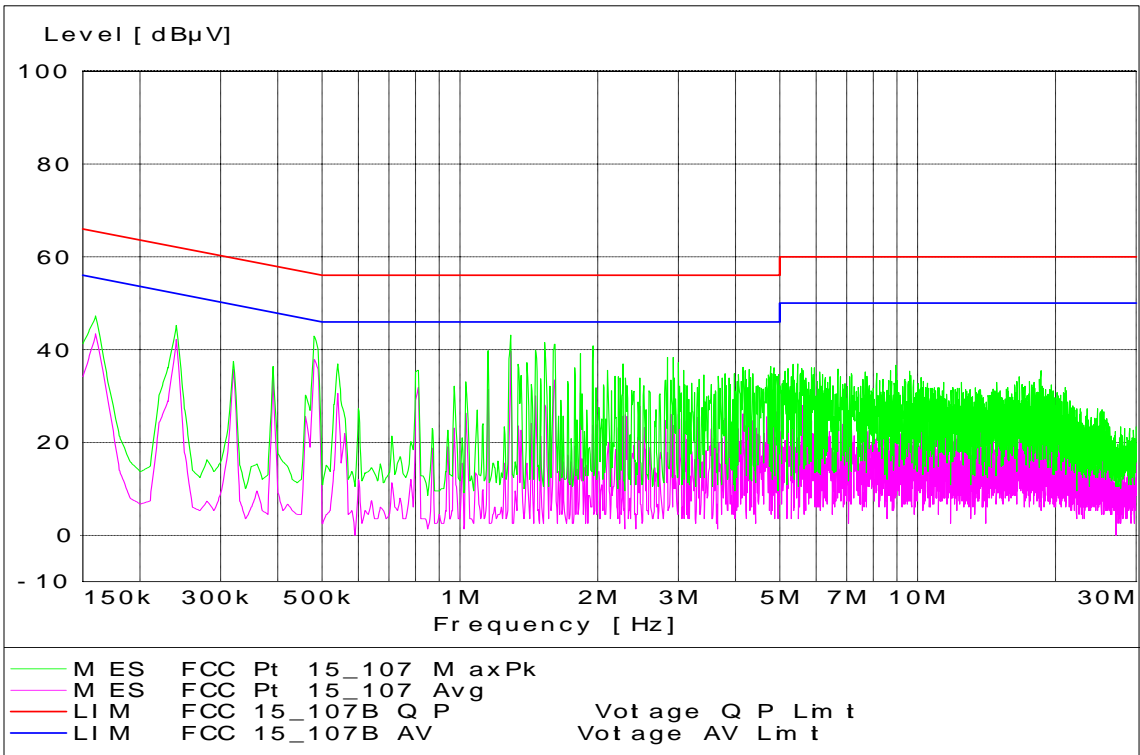
CDMA 800 Channel 777 - Tx Mode - Line Coupling



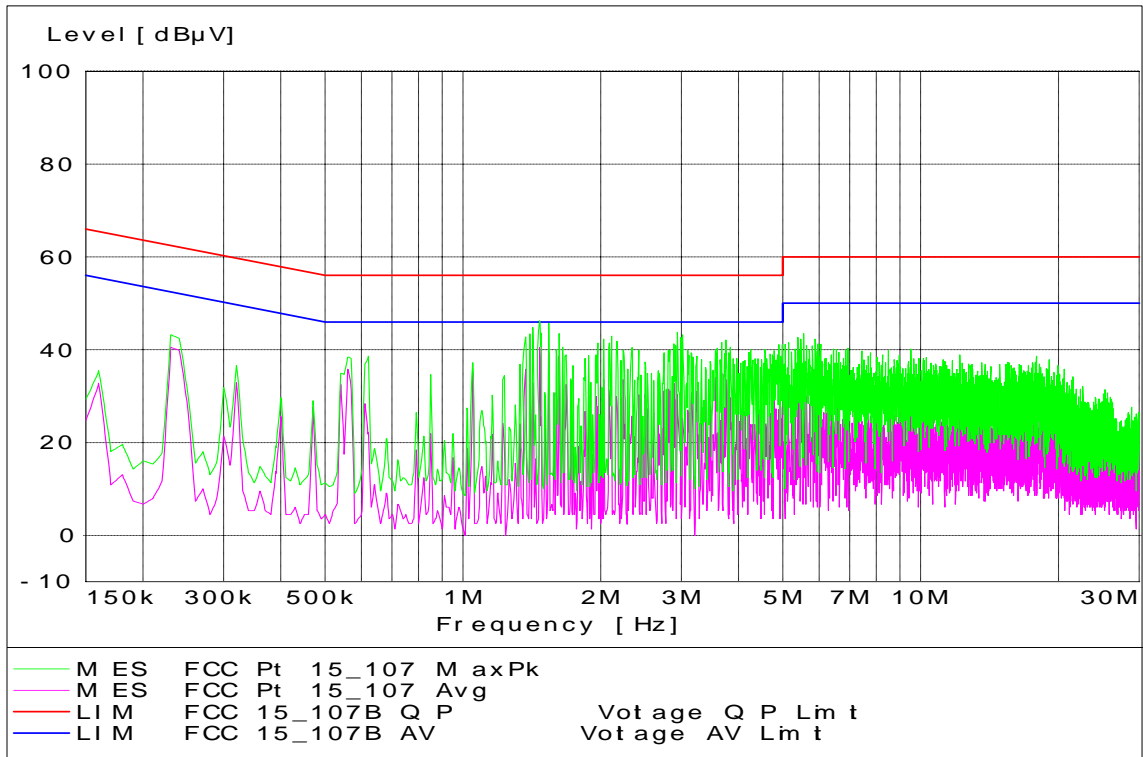
CDMA 800 Channel 777 - Tx Mode - Neutral Coupling



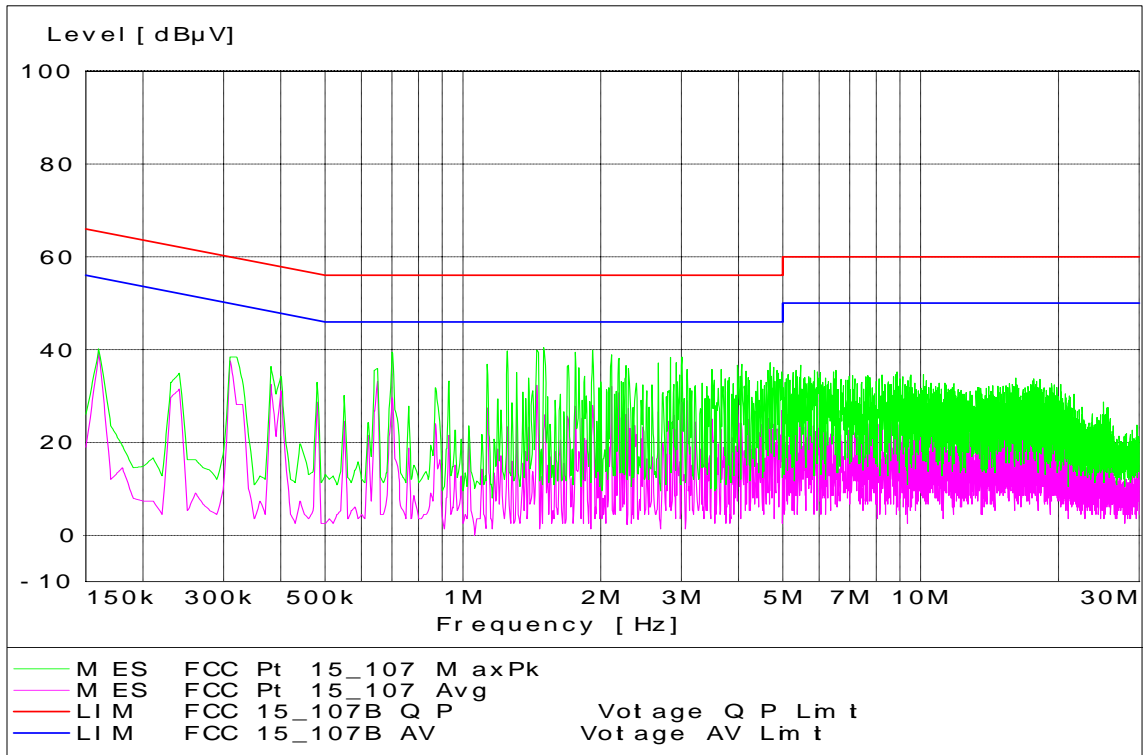
CDMA 1900 Channel 25 - Tx Mode - Line Coupling



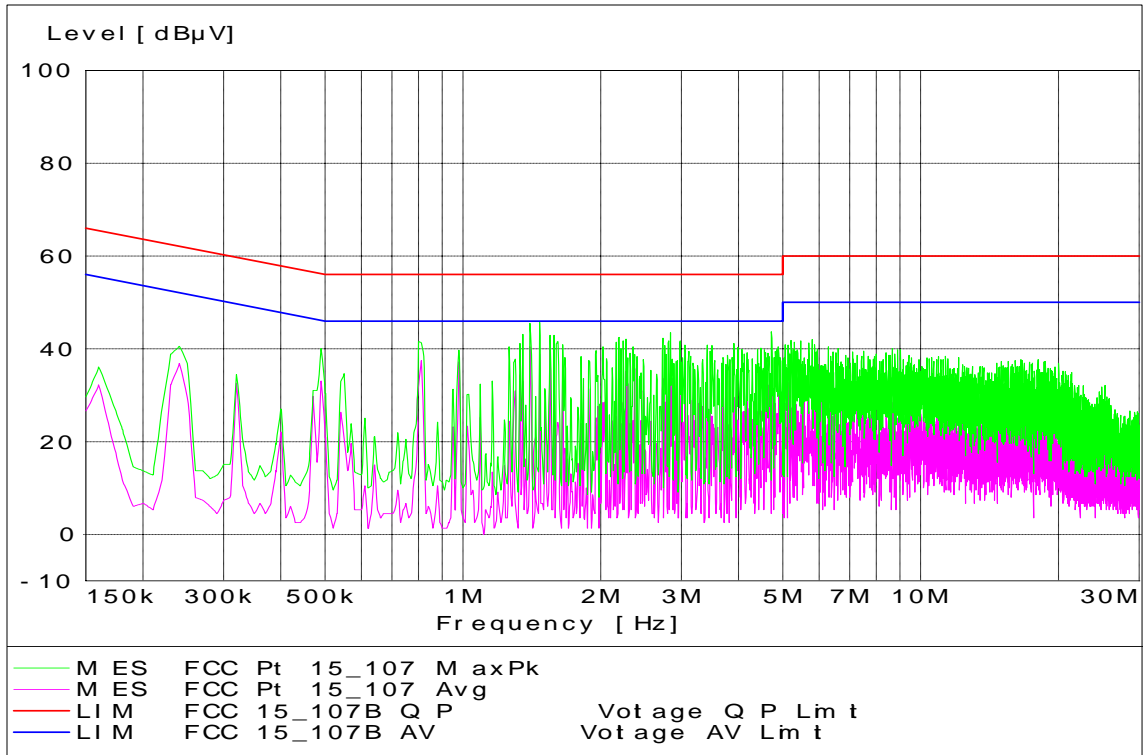
CDMA 1900 Channel 25 - Tx Mode - Neutral Coupling



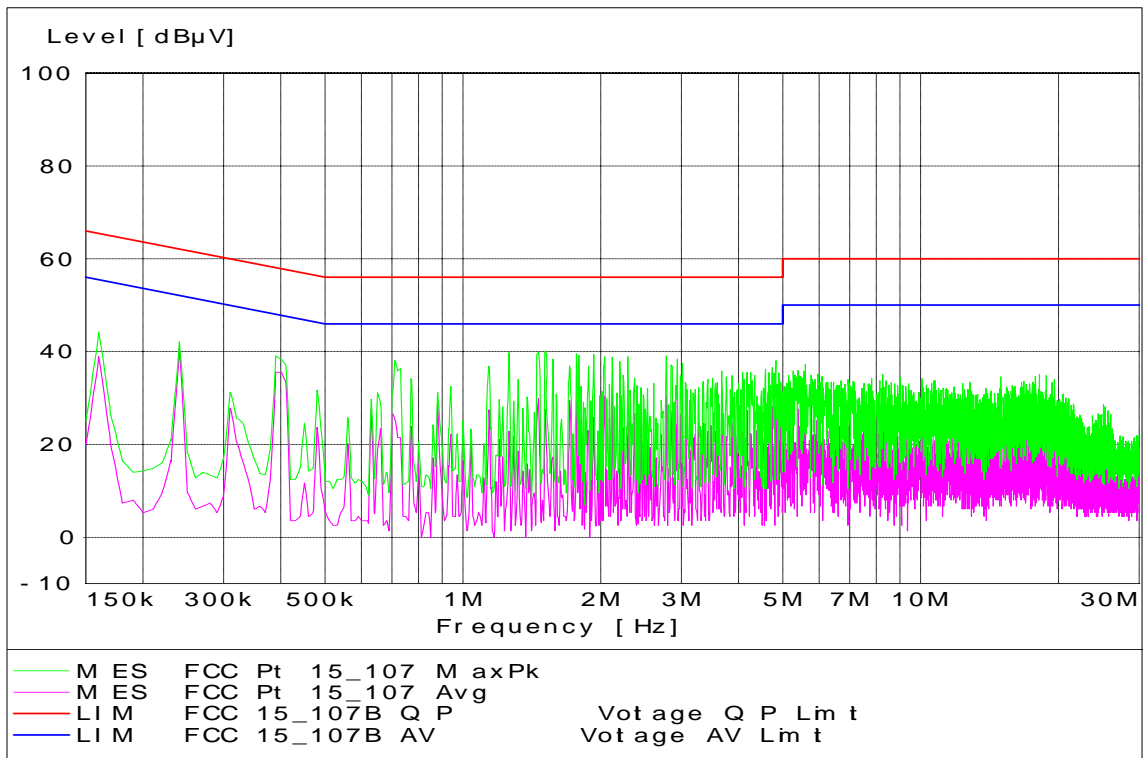
CDMA 1900 Channel 600 - Tx Mode - Line Coupling



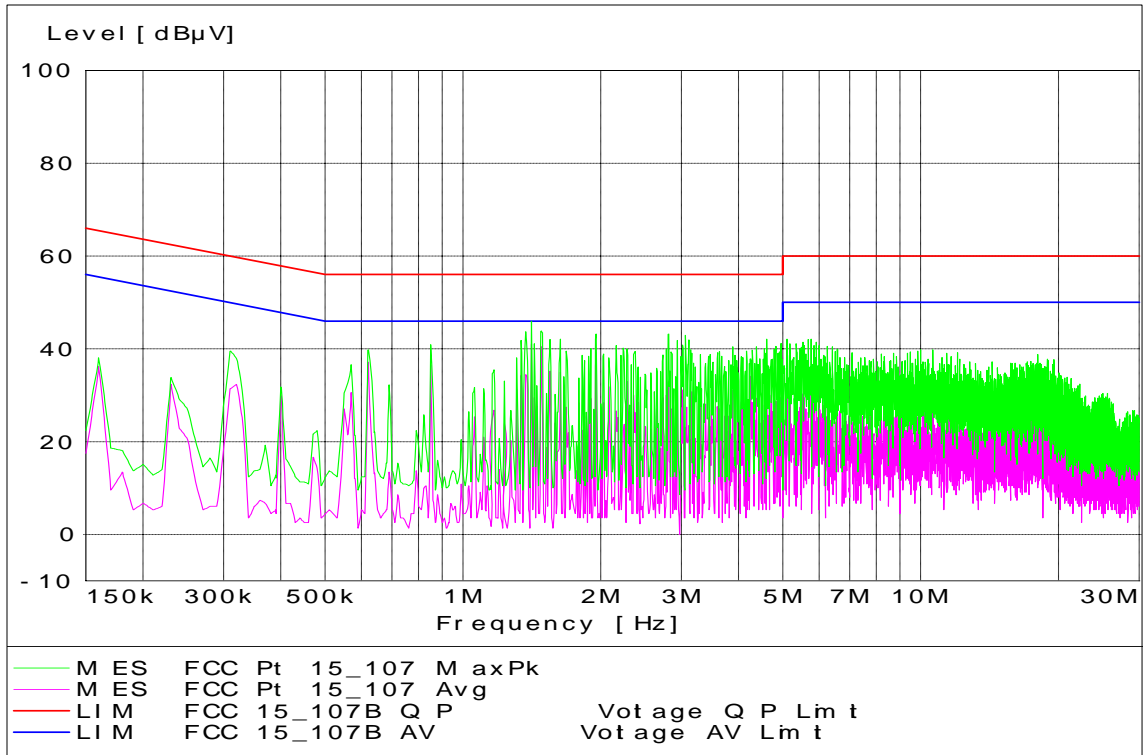
CDMA 1900 Channel 600 - Tx Mode - Neutral Coupling



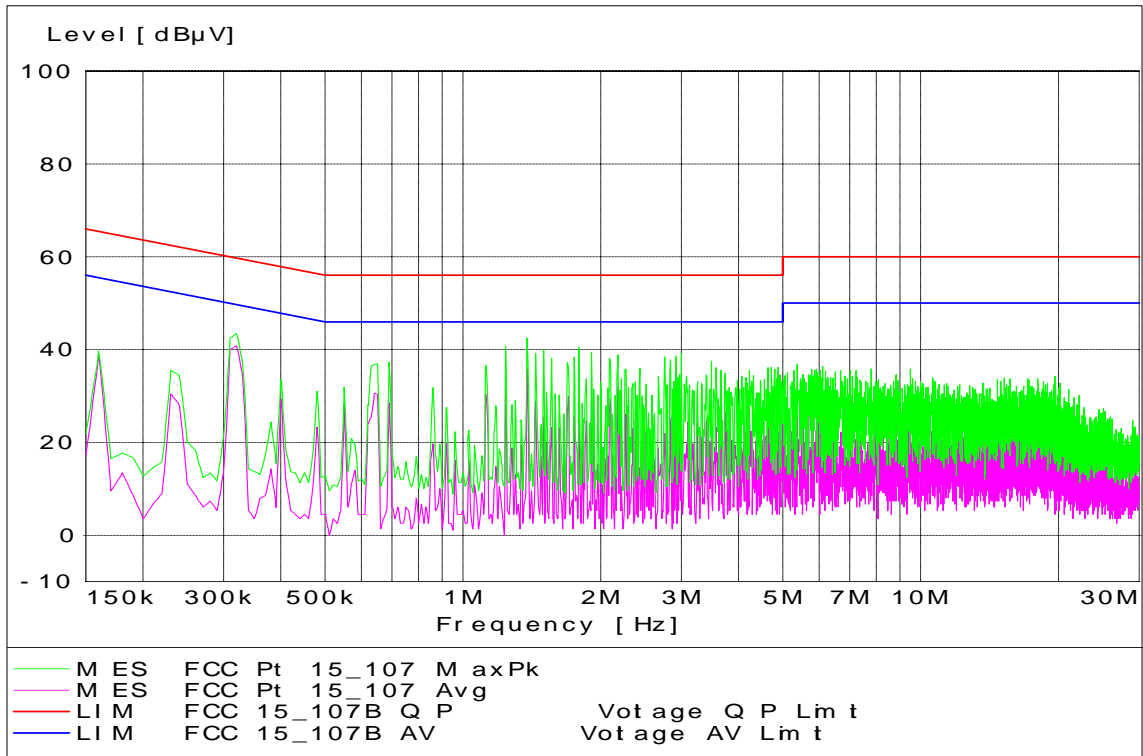
CDMA 1900 Channel 1175 - Tx Mode - Line Coupling



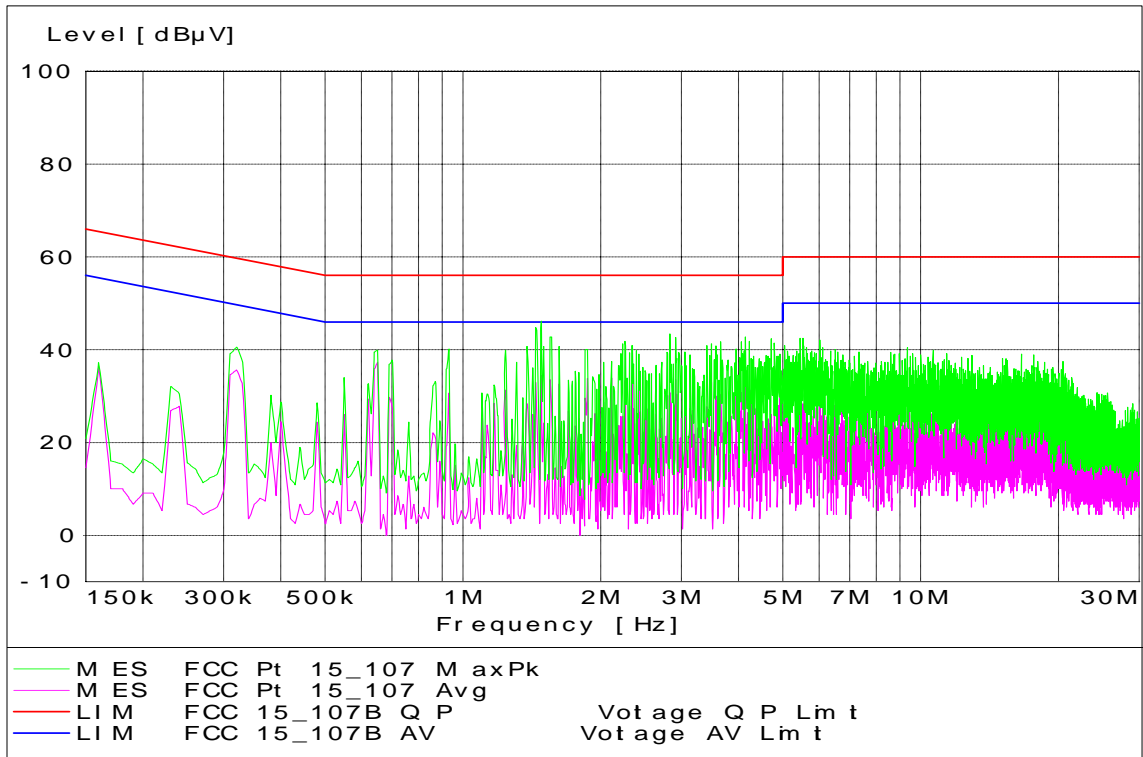
CDMA 1900 Channel 1175 - Tx Mode - Neutral Coupling



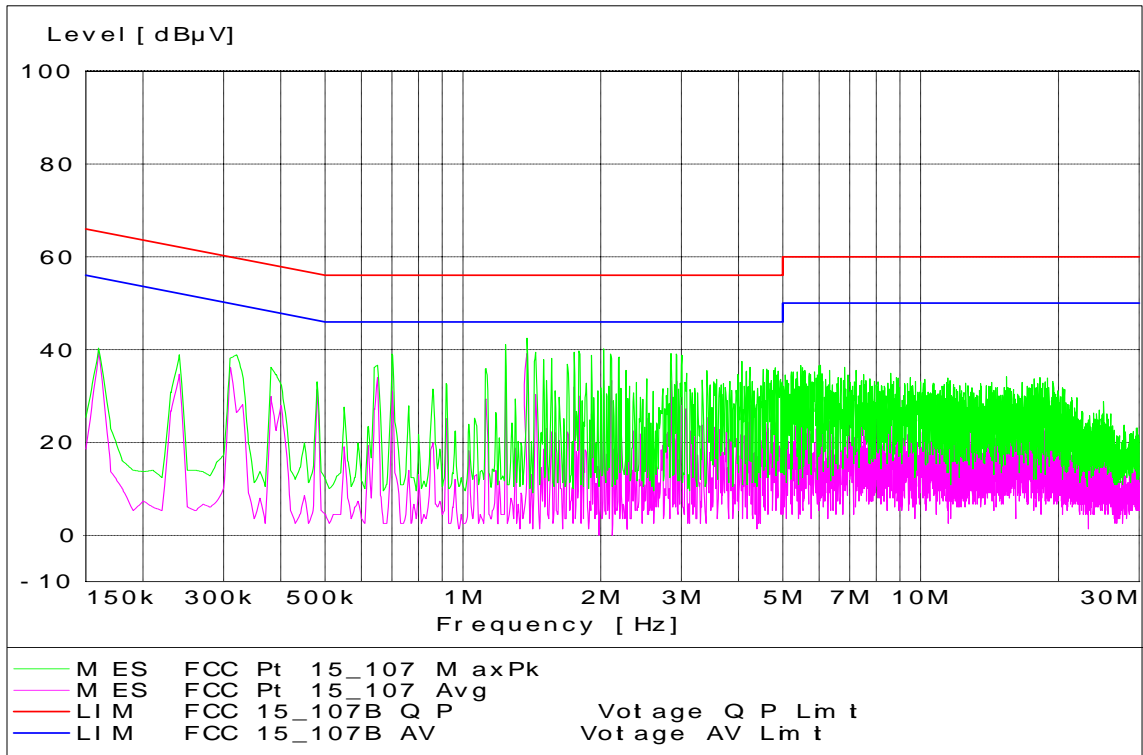
CDMA 1700 Channel 25 - Tx Mode - Line Coupling



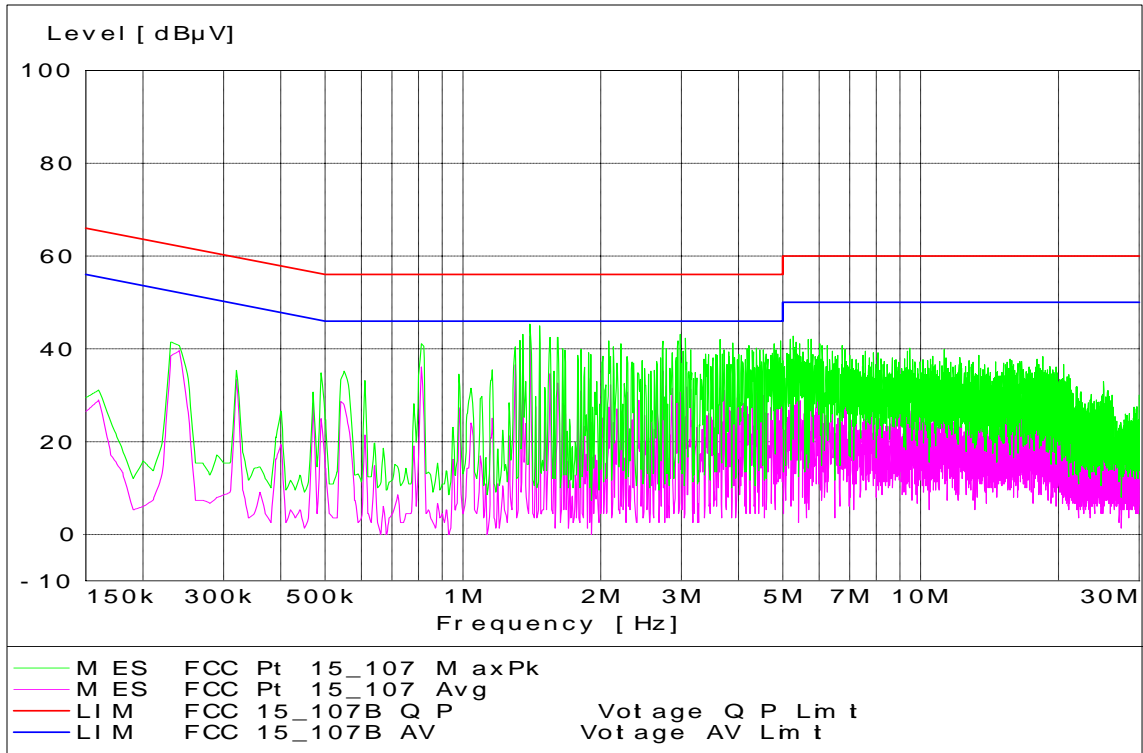
CDMA 1700 Channel 25 - Tx Mode - Neutral Coupling



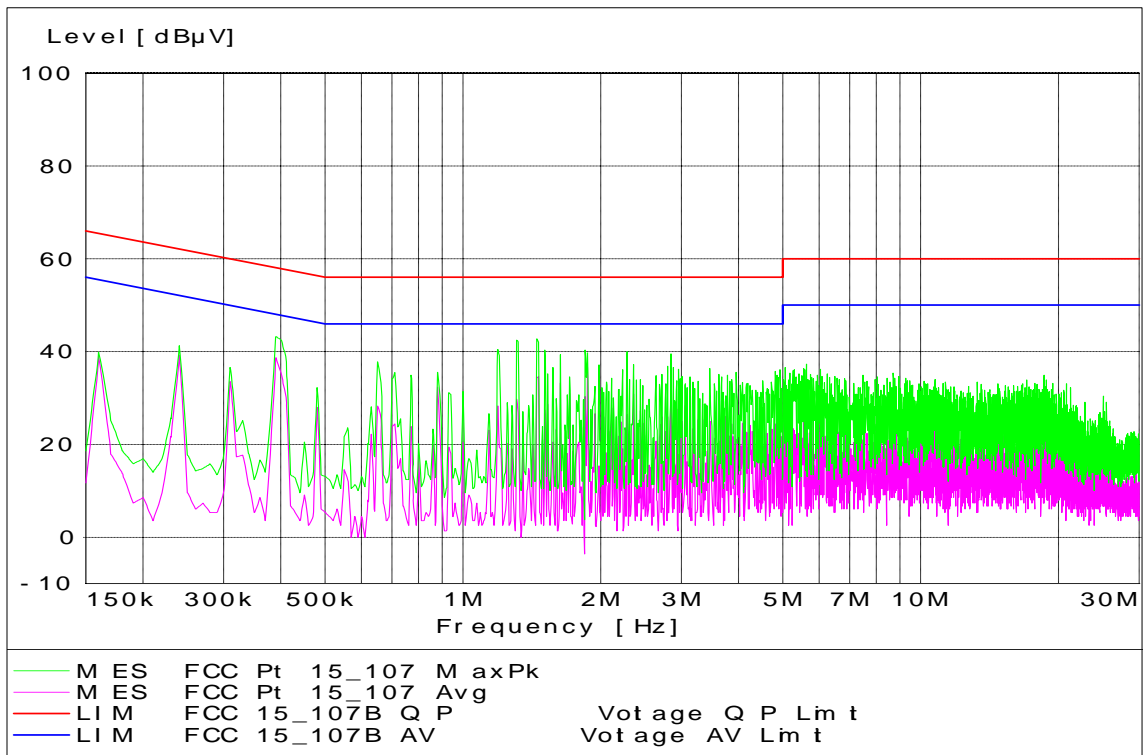
CDMA 1700 Channel 450 - Tx Mode - Line Coupling



CDMA 1700 Channel 450 - Tx Mode - Neutral Coupling



CDMA 1700 Channel 875 - Tx Mode - Line Coupling



CDMA 1700 Channel 875 - Tx Mode - Neutral Coupling

End of Test Report