



MOTOROLA

MOBILE DEVICES BUSINESS

**PRODUCT SAFETY AND COMPLIANCE
EMC LABORATORY**

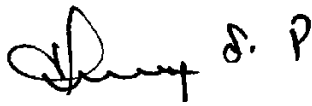
EMC TEST REPORT

Test Report Number – 18607-3

Report Date – November 28, 2006

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: Thanigaiselvan Palaniswami

Title: EMC Engineer

Date: November 28, 2006

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A2LA Certificate Number: 1651-01

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Test Report Details

Tests Performed By: Motorola Mobile Devices business
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, 1900 and Bluetooth

FCC ID Number: IHDT56GJ2

Serial Numbers: 80435BD6, 80094F19, 805AA757

Testing Complete Date: July 13, 2006

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:

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

Applicable Standards: TIA EIA 137-A, TIA EIA 98-C, ANSI 63.4 2003, 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	Occupied Bandwidth	Pass
4	Spurious Emissions at Antenna Terminal	Pass
5	Field Strength of Spurious Emissions	Pass
6	Frequency Stability	Pass
7	Field Strength of Spurious Emissions from Unintentional Radiators	Pass

Test #	Test Name	Margin with respect to the Limit
1	RF Power Output	NA
2	ERP (Effective Radiated Power)	See results
3	Occupied Bandwidth	See Plots
4	Spurious Emissions at Antenna Terminal	15.6 dB
5	Field Strength of Spurious Emissions	See Plots
6	Frequency Stability	42 Hz
7	Field Strength of Spurious Emissions from Unintentional Radiators	See Table

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	ESI40	100226	6/05/07
Rohde Schwarz	Receiver	ESI26	100001	3/08/07
Hewlett Packard	EMC Analyzer	E7405	US39440191	1/05/07
A.H. Systems	DRG Horn Antenna	SAS 200/571	365	5/12/07
ETS.	Horn Antenna	3115	6222	3/03/07
ETS	Log-Periodic Antenna	3148	1189	8/22/06
ETS	Biconical Antenna	3110B	3369	8/15/06
Attenuator	Weinschel	2	AS-6 6675	1/10/07
Attenuator	Weinschel	2	AS-6 6677	11/14/06
Attenuator	Weinschel	2	AS-6 7075	1/31/07
Attenuator	Weinschel	2	AS-6 6675	6/06/07
Thermotron	Environmental Chamber	S-4	31580	1/31/07
Agilent	Power Meter	E4416A	GB41293246	02/03/07
Agilent	Power Sensor	E9323A	US40412063	11/22/06

All 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 a Agilent power meter through a 20dB passive attenuator, adaptor (if needed), and specialized RF connector. The peak power output is measured for all channels.

Per the “Preliminary Guidance for Reviewing Applications for Certifications of 3G Devices” released on May 9, 2006, both RC1 and RC3 CDMA modes are considered. The conducted power measurements (steps 3 & 4 of section 4.4.5.2 of 3GPP2 C.5.011 / TIA -98-E) show that the portable cellular phone FCC ID IHDT56GJ2 has the same output conducted power for both CDMA modes.

		Conducted power (dBm) for CDMA modes	
		RC1	RC3
CDMA 800	Ch 1013	25.15	25.12
	Ch 384	25.15	25.12
	Ch 777	24.91	24.90
CDMA 1900	Ch 25	25.18	25.05
	Ch 600	25.06	24.98
	Ch 1175	25.00	25.05

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 three frequencies (824.7, 836.52 and 848.31 MHz) and CDMA 1900 three frequencies (1851.25, 1880.00, and 1908.75 MHz)

CDMA measurements were made with the phone placed in a call using the CMU 200 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 8542C power meter in “Mod Avg” mode. 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 EIRP.

Measurement Results

CDMA 800:	EIRP	ERP
824.70 MHz	25.94 dBm	23.84 dBm
836.52 MHz	25.50 dBm	23.40 dBm
848.31 MHz	25.43 dBm	23.33 dBm
CDMA 1900:	EIRP	ERP
1851.25 MHz:	26.48 dBm	24.38 dBm
1880.00 MHz:	27.50 dBm	25.40 dBm
1908.75 MHz:	27.05 dBm	24.95 dBm

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

BAND/TECHNOLOGY	MAXIMUM EIRP(dBm)	MAXIMUM ERP (dBm)
800 CDMA	25.94	23.84
1900 CDMA	27.50	25.40

OCCUPIED BANDWIDTH

CFR Part 2.1049, 22.917, 24.238

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.

Equipment Settings

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
Reference Plot - CDMA 1900	300	Auto	1001	Max Hold	Peak	30
OCBW - CDMA 1900	3	Auto	1001	Max Hold	Peak	30
Lower Band Edge - CDMA 1900	1	Auto	2004	Max Hold	Peak	30
Upper Band Edge - CDMA 1900	1	Auto	2004	Max Hold	Peak	30

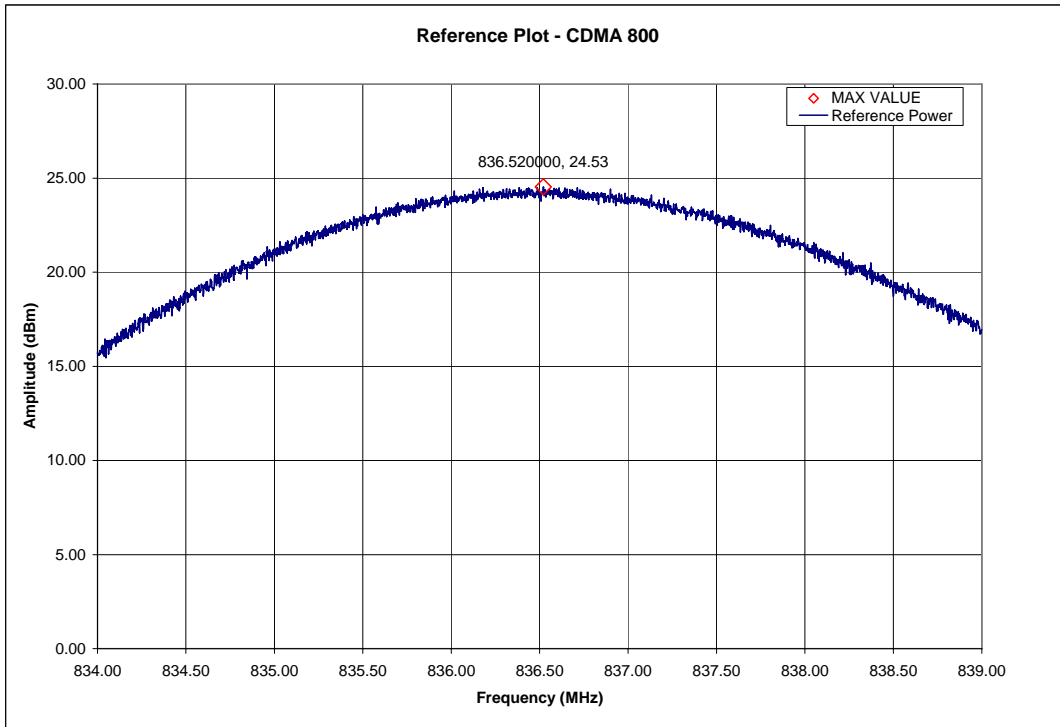
- Notes: 1) When the video bandwidth is set to Auto the video bandwidth self adjusts for ³ the resolution bandwidth.
 2) The plotted data shown for the band edge measurements is representative of data taken with a true 13 kHz resolution bandwidth filter. The raw data was taken using a 1 kHz resolution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

Measurement Results

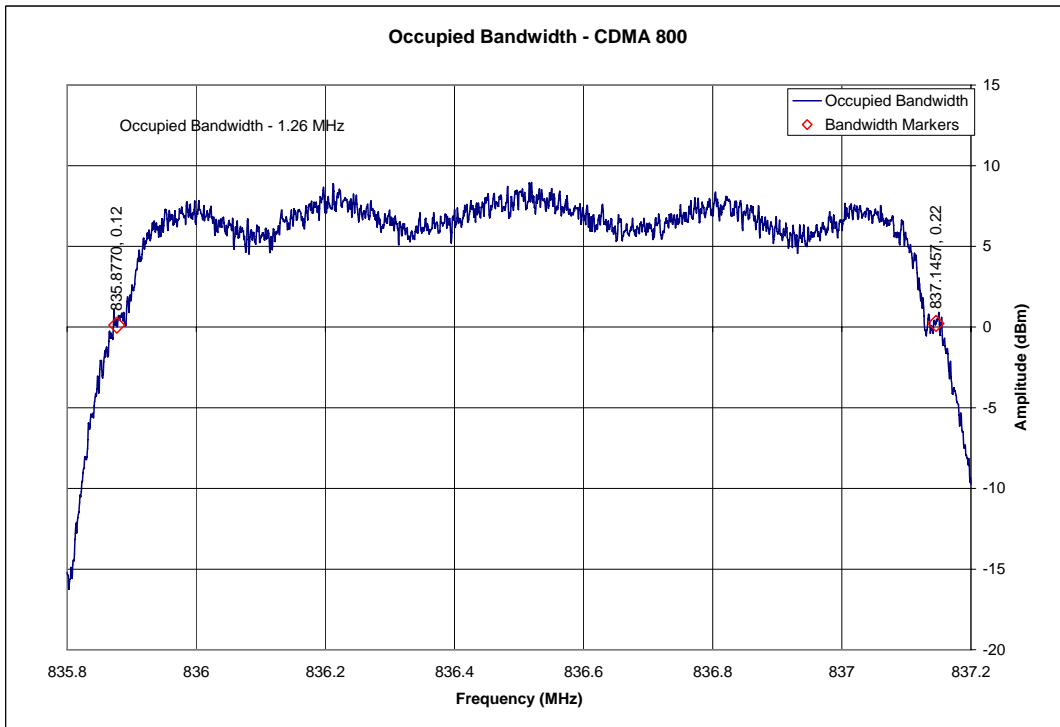
Attached

Measurement Results – CDMA 800

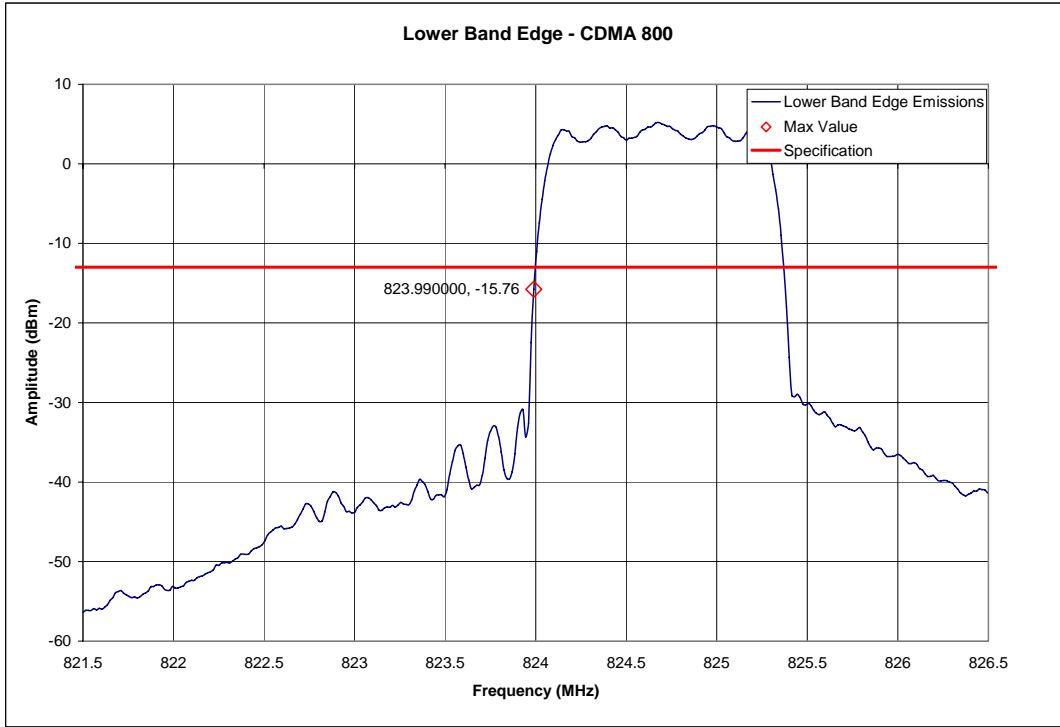
CDMA 800 Reference Level



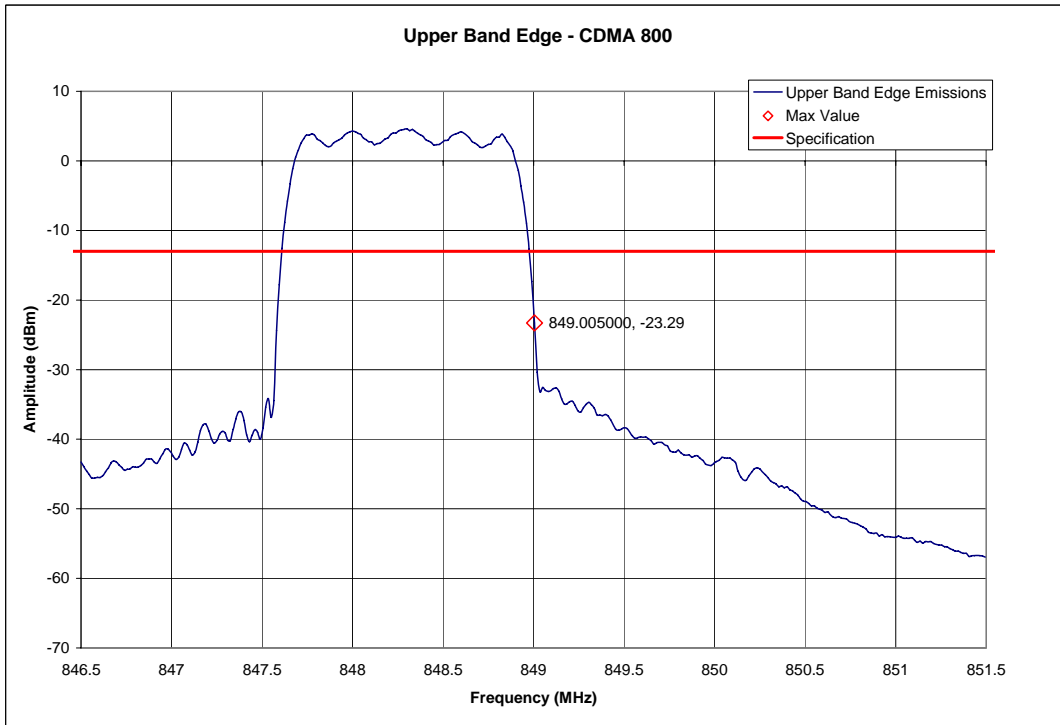
CDMA 850 Occupied Bandwidth



CDMA 800 Ch 1013 Lower Band Edge

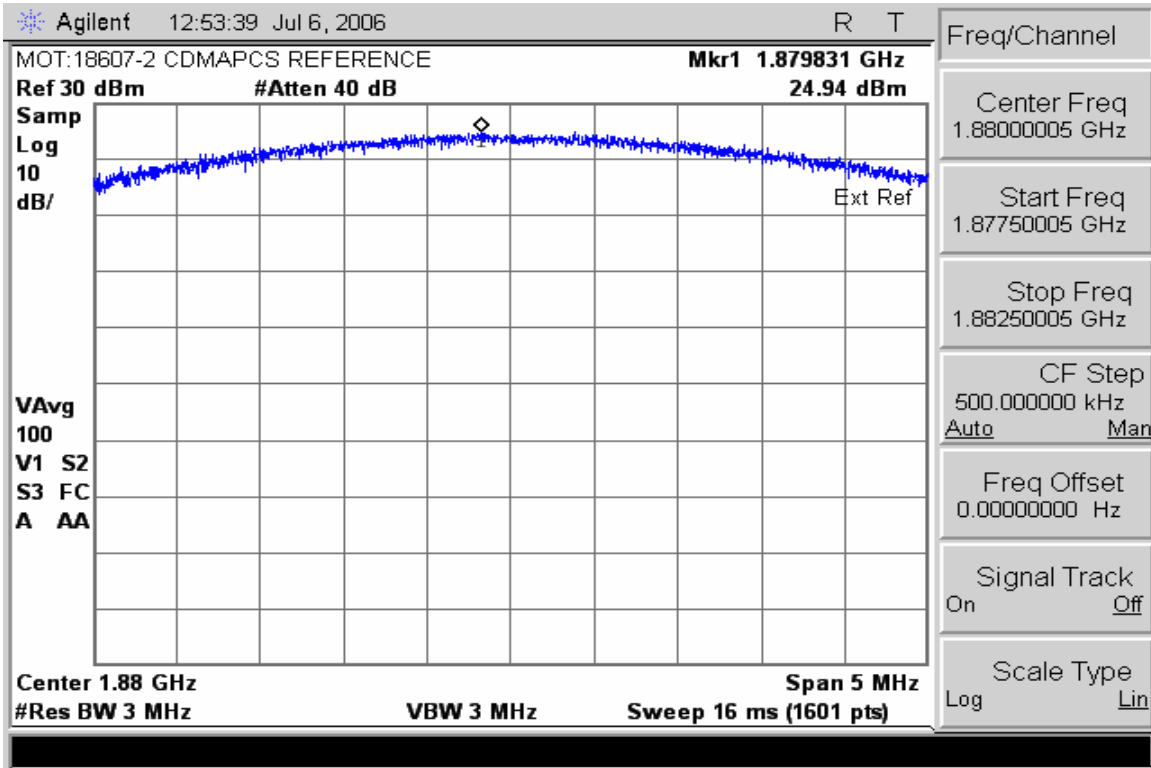


CDMA 800 Ch 777 Upper Band Edge

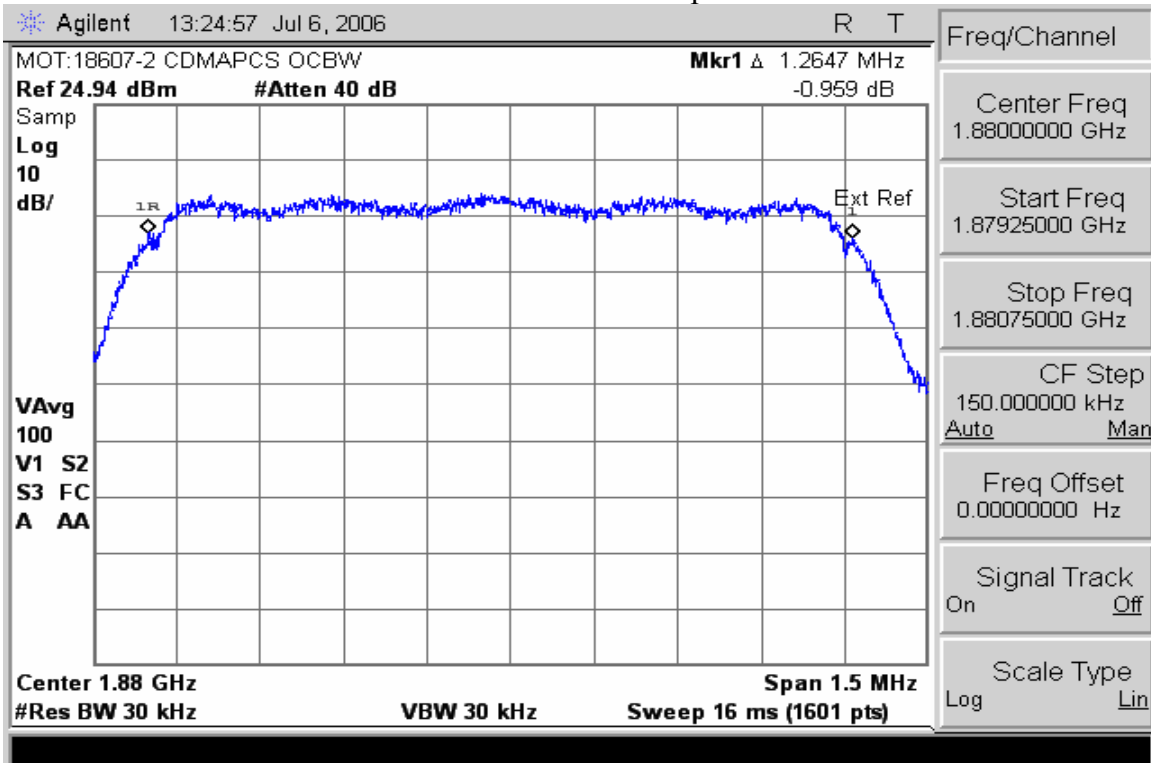


Measurement Results – CDMA 1900

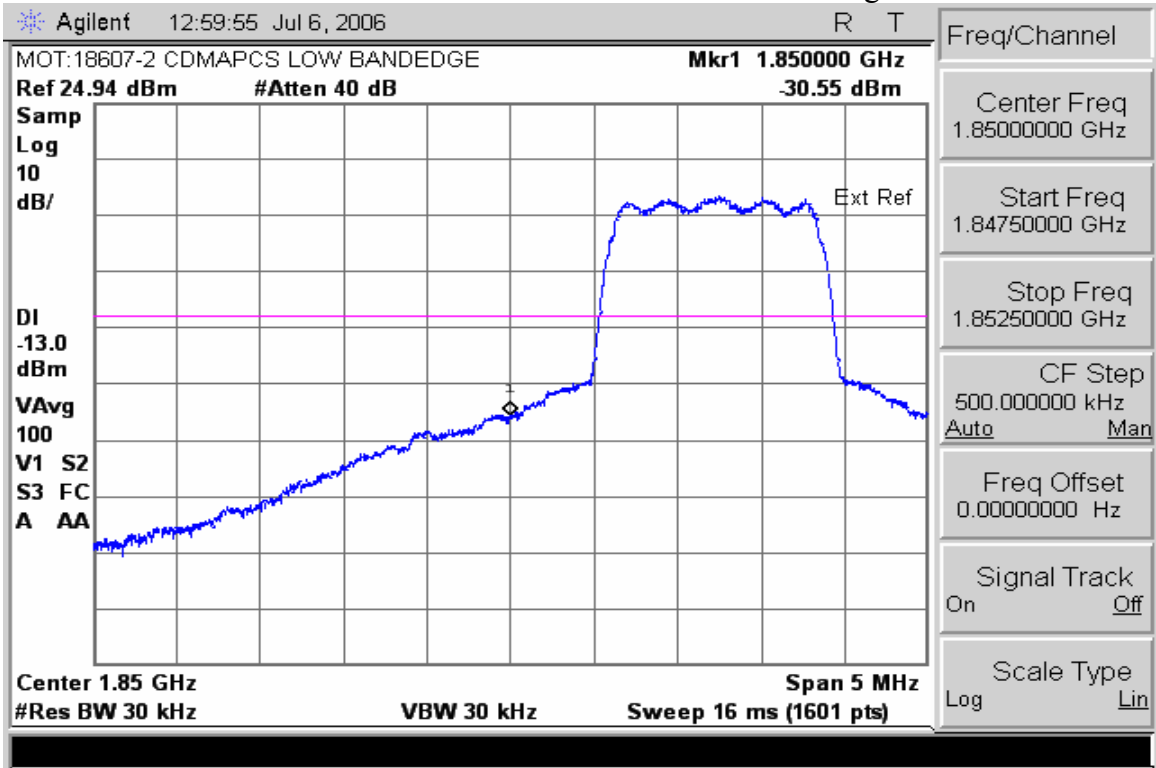
CDMA - PCS Channel 600 Reference Level



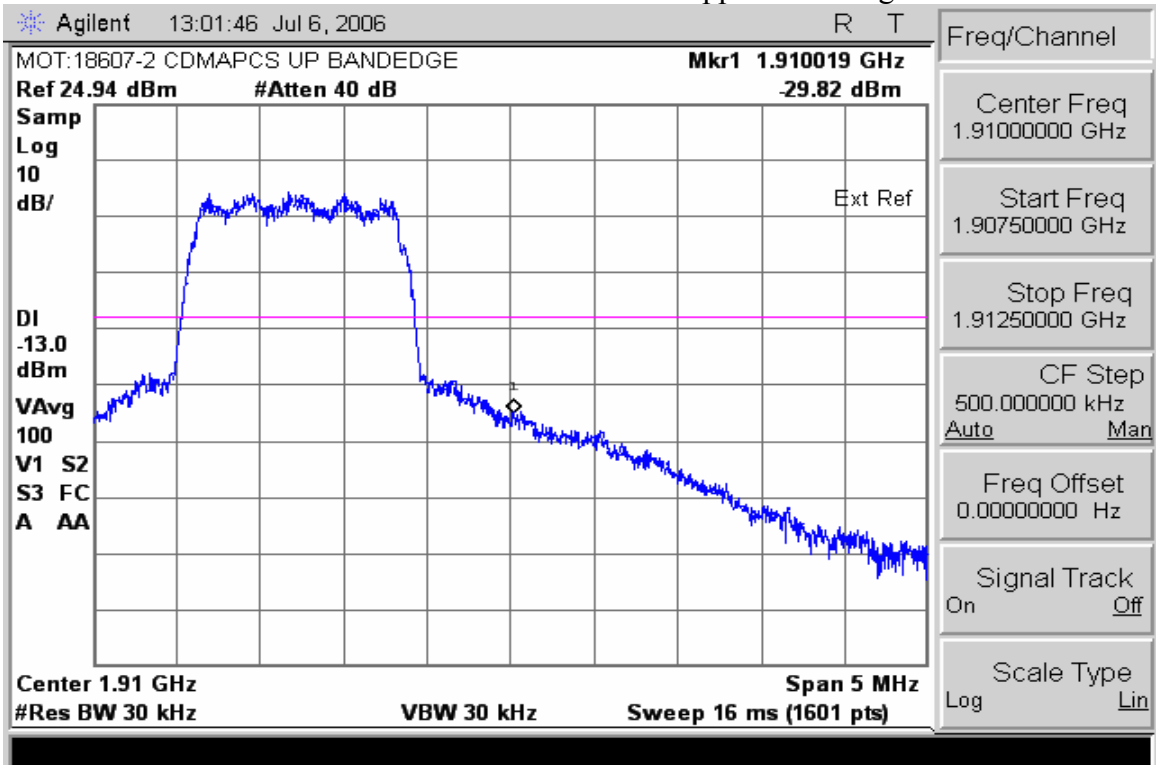
CDMA - PCS Channel 600 Occupied Bandwidth



CDMA/PCS 1900 Channel 25 Lower Band Edge



CDMA/PCS 1900 Channel 1175 Upper Band Edge



SPURIOUS EMISSIONS AT ANTENNA TERMINALS

CFR47 Part 2.1051, 24.238

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
Resolution Bandwidth	1 MHz
Video Bandwidth (AVG)	Auto
Sweep Time	Auto
Detector	Peak Detector

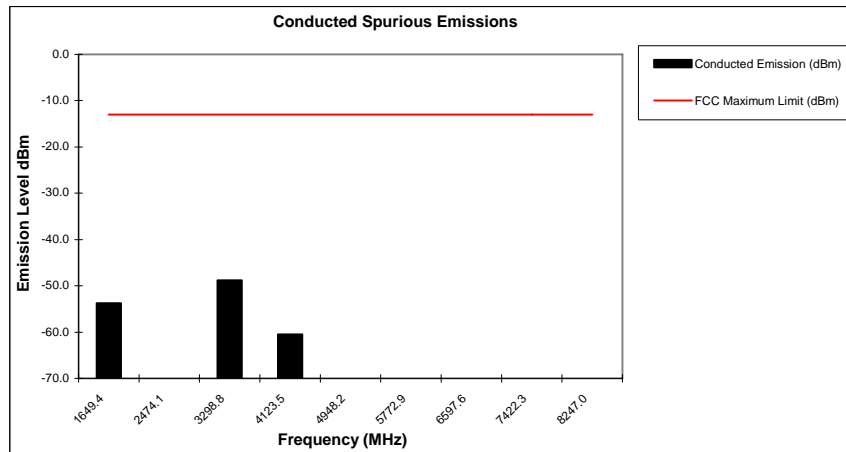
Measurement Results

Attached

Measurement Results
Modulation: CDMA 800

Conducted Spurious and Harmonic Emissions
CHANNEL: 1013

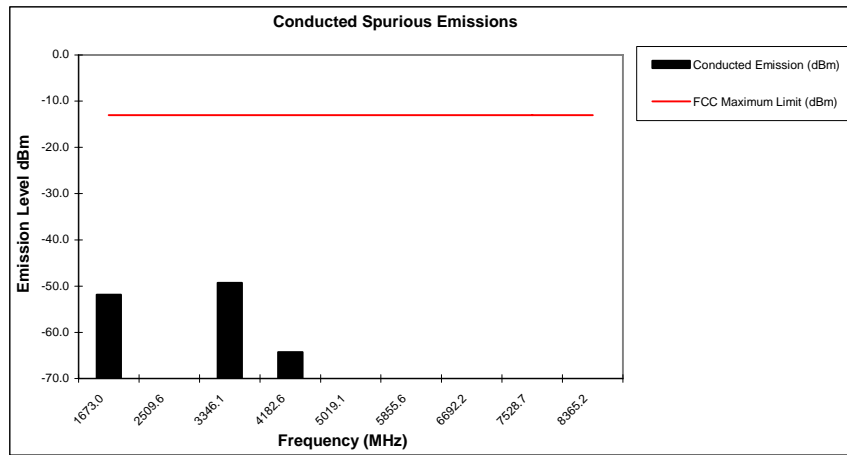
Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
1649.4	-13	-53.7
2474.1	-13	*
3298.8	-13	-48.8
4123.5	-13	-60.5
4948.2	-13	*
5772.9	-13	*
6597.6	-13	*
7422.3	-13	*
8247.0	-13	*



- 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 maximum power.
 3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

Conducted Spurious and Harmonic Emissions
CHANNEL: 384

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
1673.0	-13	-51.9
2509.6	-13	*
3346.1	-13	-49.3
4182.6	-13	-64.3
5019.1	-13	*
5855.6	-13	*
6692.2	-13	*
7528.7	-13	*
8365.2	-13	*

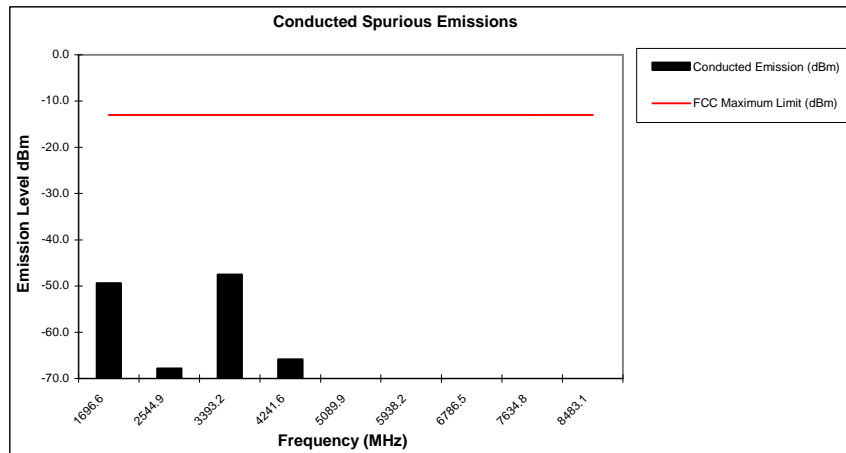


Notes:

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 maximum power.
3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

Conducted Spurious and Harmonic Emissions
CHANNEL: 777

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
1696.6	-13	-49.4
2544.9	-13	-67.8
3393.2	-13	-47.5
4241.6	-13	-65.9
5089.9	-13	*
5938.2	-13	*
6786.5	-13	*
7634.8	-13	*
8483.1	-13	*



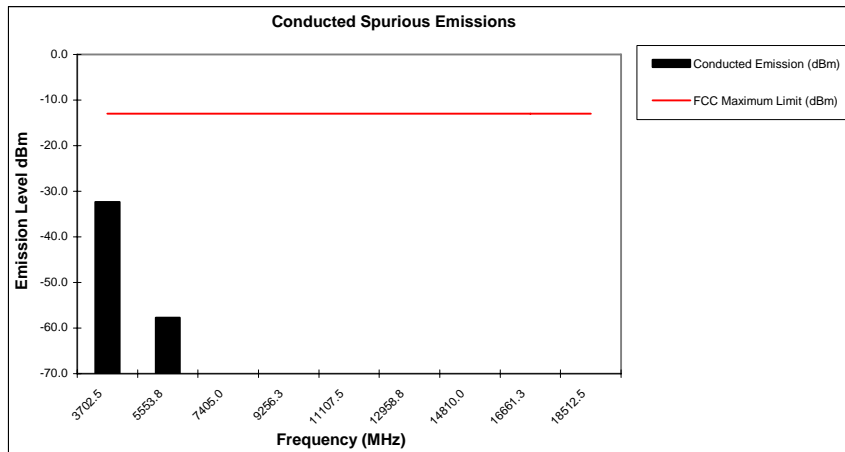
Notes:

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 maximum power.
3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

Measurement Results
Modulation: CDMA 1900

Conducted Spurious and Harmonic Emissions
CHANNEL: 25

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
3702.5	-13	-32.4
5553.8	-13	-57.7
7405.0	-13	*
9256.3	-13	*
11107.5	-13	*
12958.8	-13	*
14810.0	-13	*
16661.3	-13	*
18512.5	-13	*

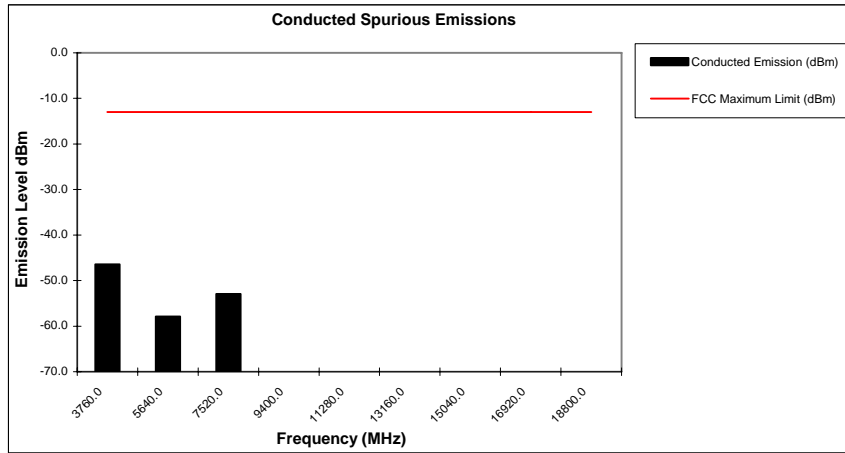


Notes:

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 maximum power.
3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

Conducted Spurious and Harmonic Emissions
CHANNEL: 600

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
3760.0	-13	-46.5
5640.0	-13	-57.9
7520.0	-13	-52.9
9400.0	-13	*
11280.0	-13	*
13160.0	-13	*
15040.0	-13	*
16920.0	-13	*
18800.0	-13	*

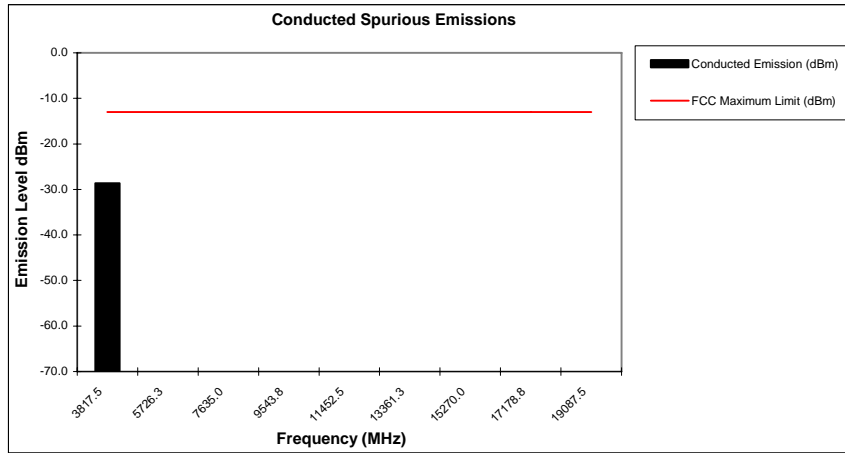


Notes:

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 maximum power.
3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

Conducted Spurious and Harmonic Emissions
CHANNEL: 1175

Harmonic of Fundamental	FCC Maximum Limit (dBm)	Conducted Emission (dBm)
3817.5	-13	-28.6
5726.3	-13	*
7635.0	-13	*
9543.8	-13	*
11452.5	-13	*
13361.3	-13	*
15270.0	-13	*
17178.8	-13	*
19087.5	-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 maximum power.
3. The Spectrum was investigated from 9 kHz to the tenth harmonic of the fundamental.

FIELD STRENGTH OF SPURIOUS EMISSIONS

CFR47 Part 2.1053, 22.917, 24.238

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. A fully charged battery was used for the supply voltage.

The settings of the receiver were as follows:

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

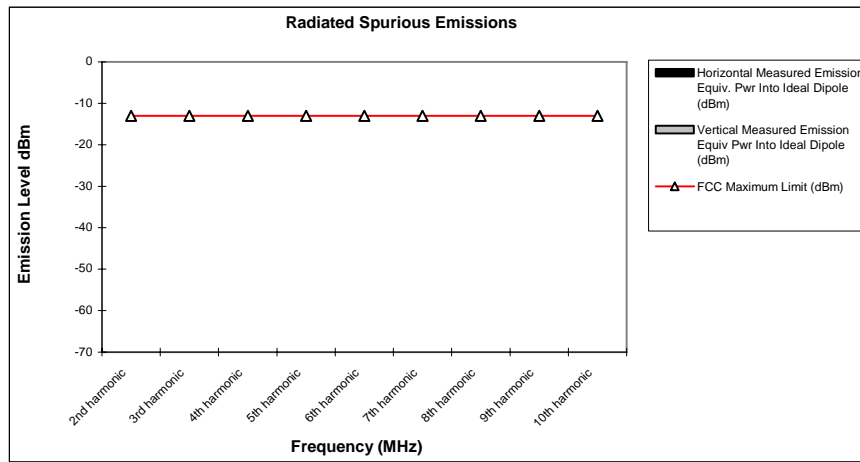
Measurement Results

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	*	*



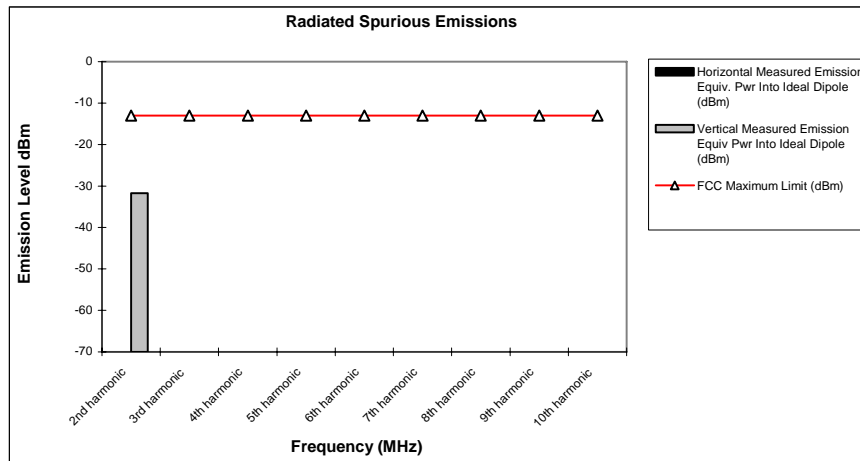
Notes:

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.

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)
2nd harmonic	-13	*	-31.8
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

CFR47 Part 2.1055, 24.235

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

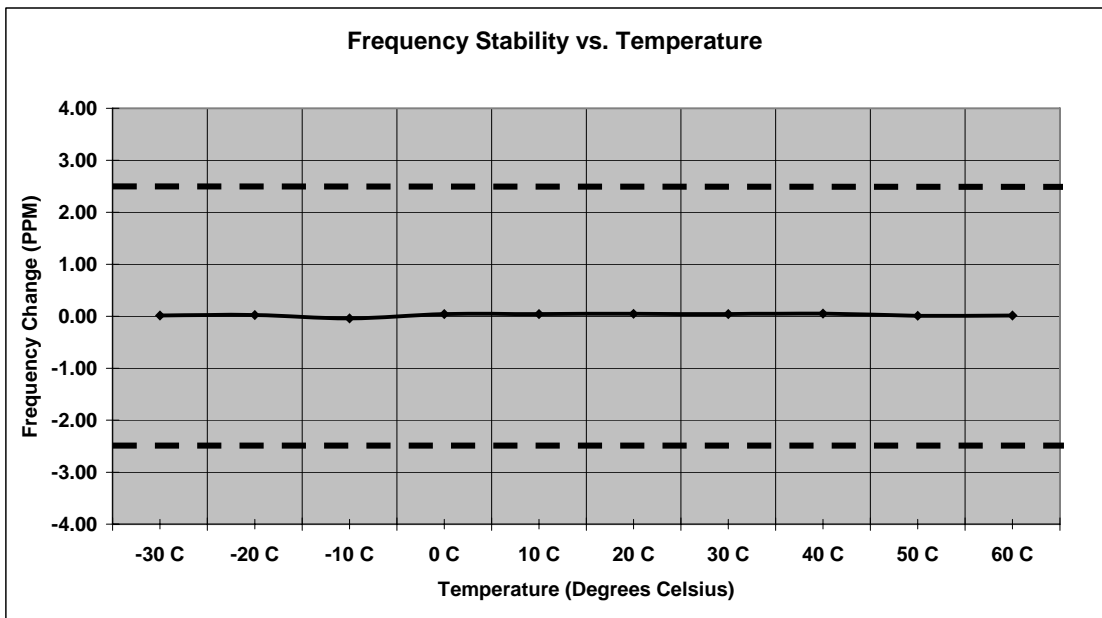
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Measurement Results
Modulation: CDMA 800

Frequency Stability

Mode: CDMA 800 **Operating Frequency:** 836.52 MHz
Channel: 384 **Deviation Limit (PPM):** 2.5ppm

Temperature C	Frequency Error HZ	Frequency Error (PPM)	Voltage (%)	Voltage (VDC)
-30 C	11.34	0.014	100%	3.80
-20 C	18.29	0.022	100%	3.80
-10 C	-33.19	-0.040	100%	3.80
0 C	34.33	0.041	100%	3.80
10 C	36.27	0.043	100%	3.80
20 C	39.86	0.048	100%	3.80
30 C	35.84	0.043	100%	3.80
40 C	42.67	0.051	100%	3.80
50 C	7.66	0.009	100%	3.80
60 C	12.97	0.016	100%	3.80
20 C	13.67	0.016	Battery Endpoint	3.40



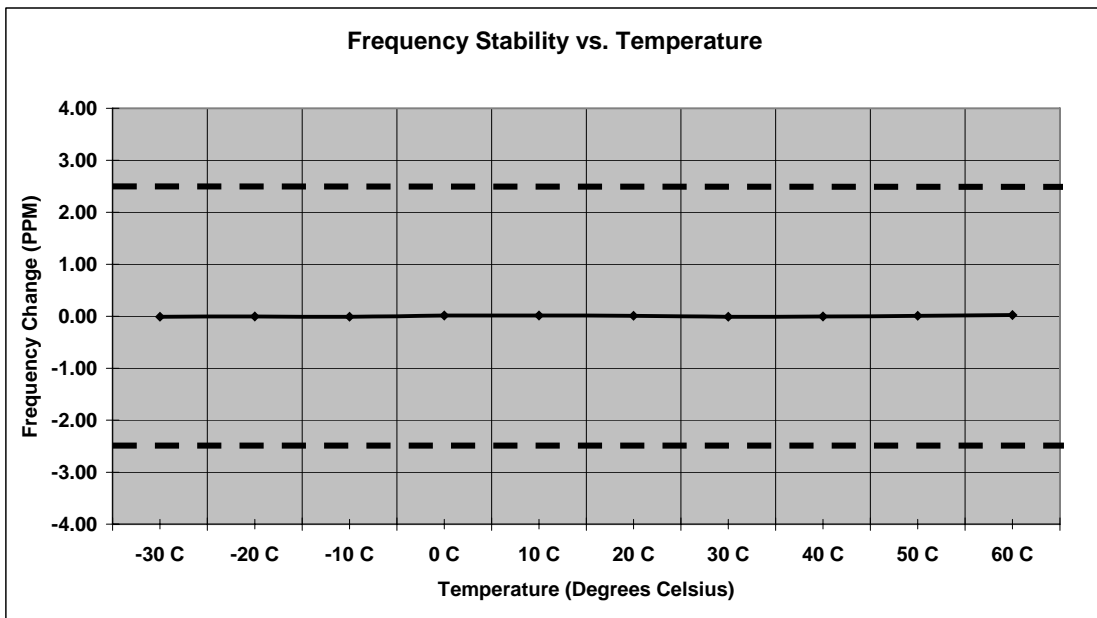
Measurement Results

Modulation: CDMA1900

Frequency Stability

Mode: CDMA 1900 **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	-16.84	-0.009	100%	3.80
-20 C	-12.63	-0.007	100%	3.80
-10 C	-15.29	-0.008	100%	3.80
0 C	28.91	0.015	100%	3.80
10 C	29.59	0.016	100%	3.80
20 C	18.54	0.010	100%	3.80
30 C	-14.64	-0.008	100%	3.80
40 C	-12.84	-0.007	100%	3.80
50 C	14.10	0.008	100%	3.80
60 C	42.03	0.022	100%	3.80
20 C	-12.12	-0.006	Battery Endpoint	3.40



FIELD STRENGTH OF EMISSIONS FROM UNINTENTIONAL RADIATORS

CFR Part 15.109

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

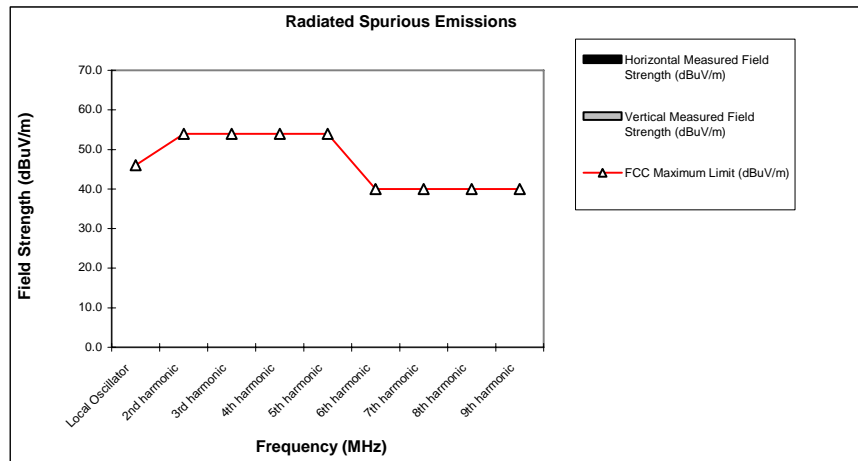
The data represents the worst case results for channel and orientation.

Attached

Measurement Results
Modulation: CDMA 800

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	46	*	*
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	*	*



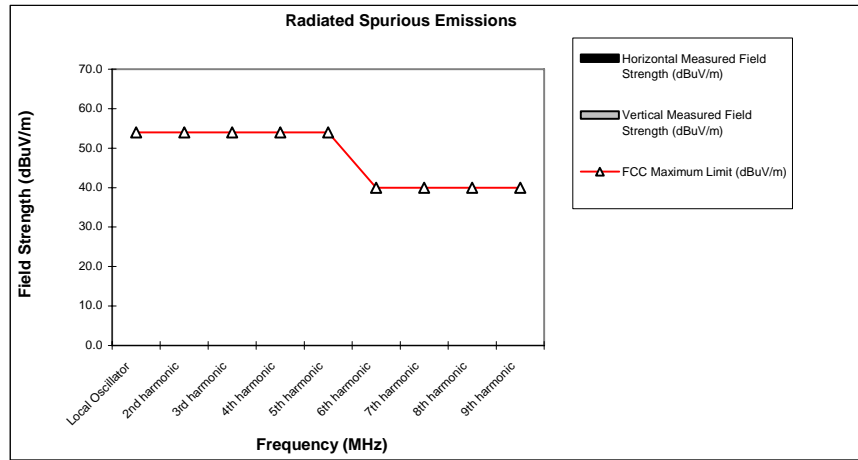
Notes:

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.

Measurement Results
Modulation: 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

CFR 47 Part 15.207

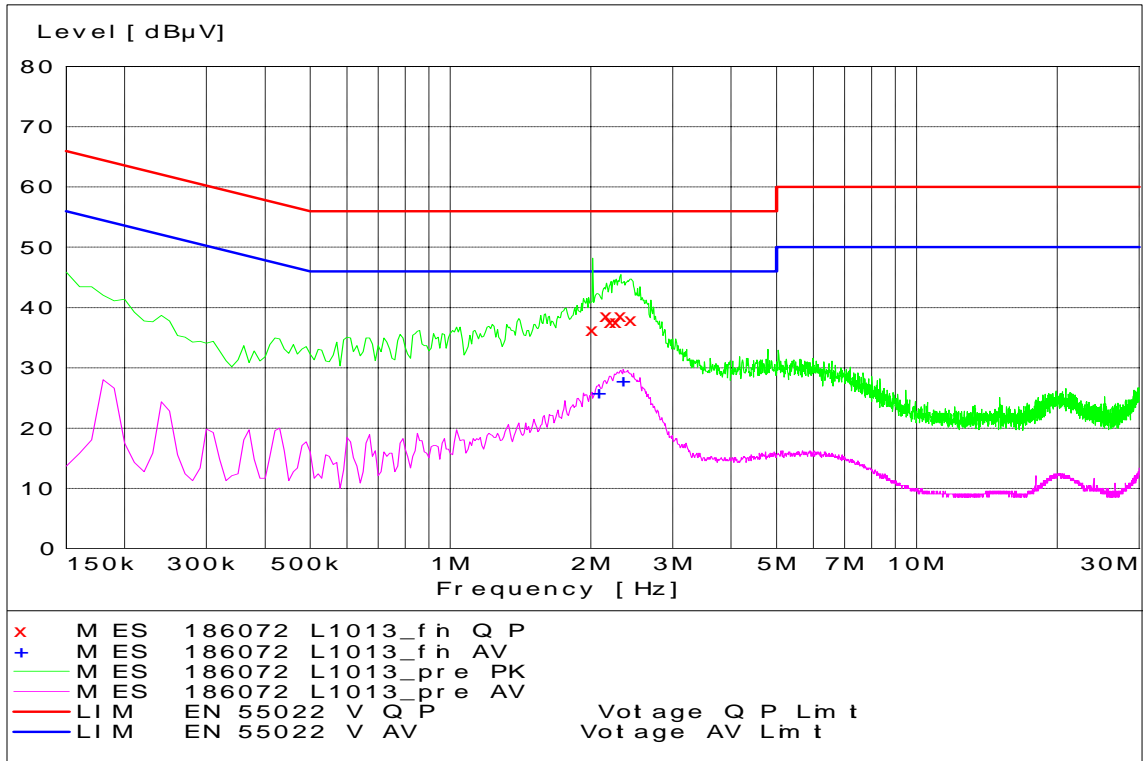
Measurement Procedure

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.

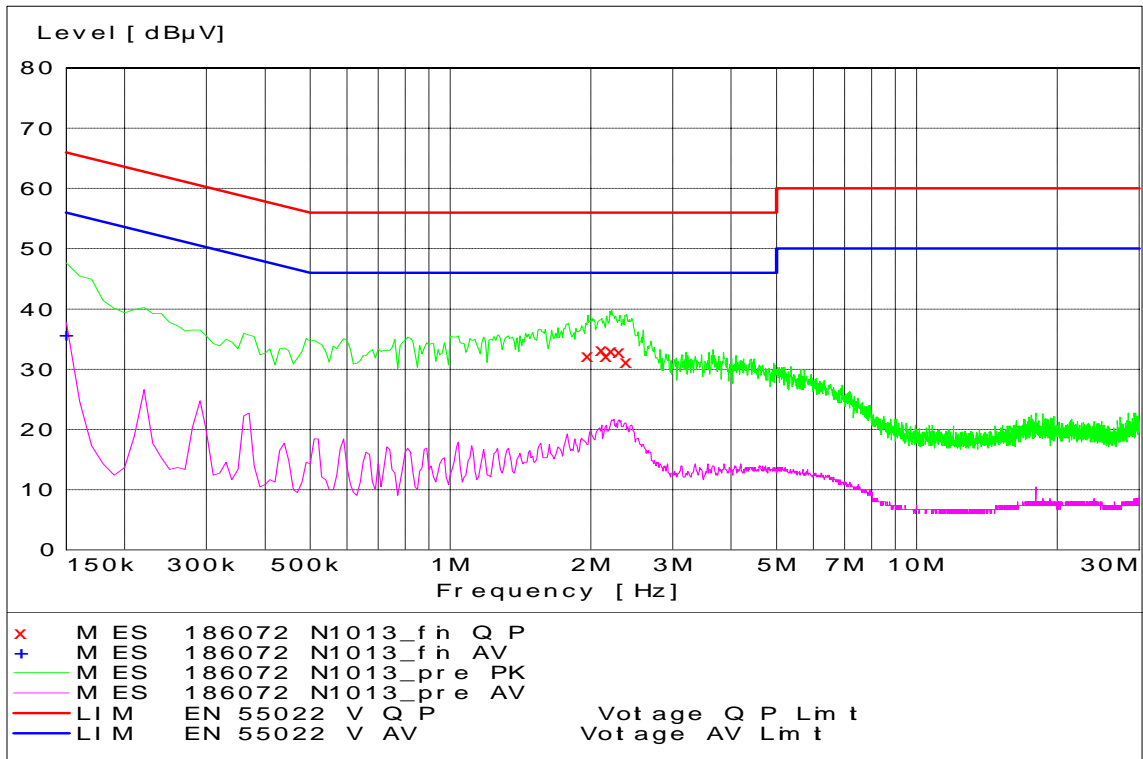
All radio-noise voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord or calibrated extension cord by the use of mating plugs and receptacles on the EUT and LISN. Equipment shall be tested with power cords that are normally supplied using 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 .

Measurement Results

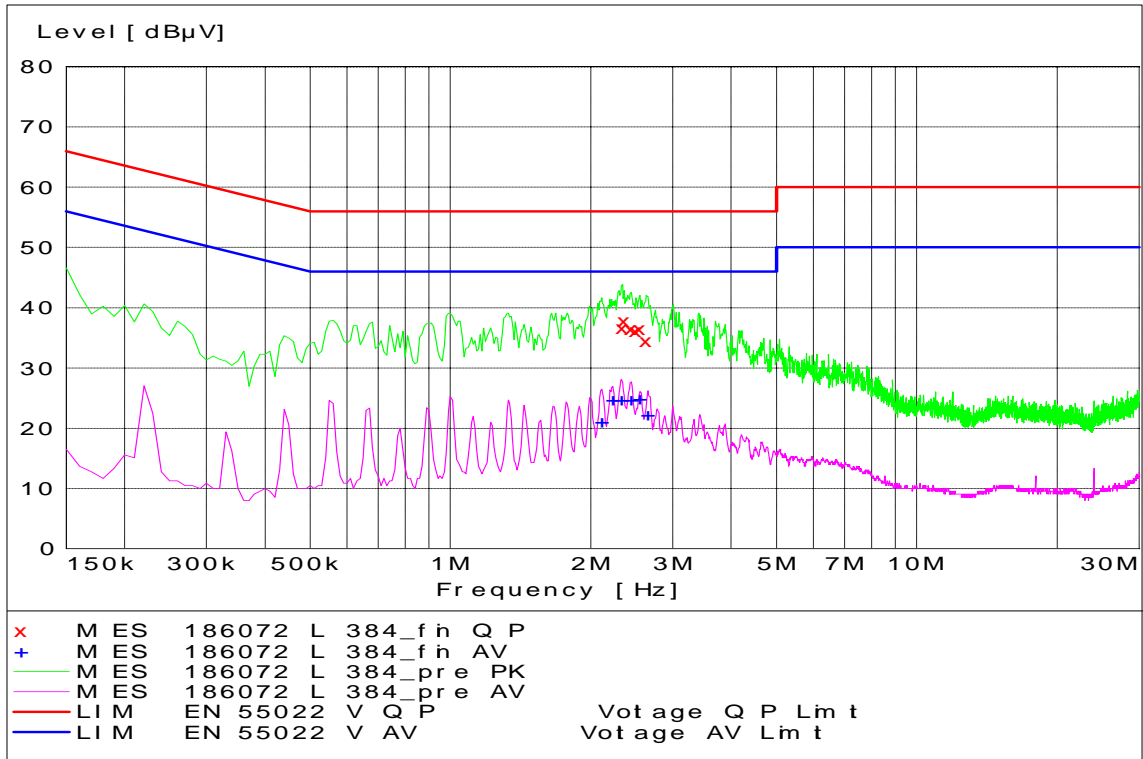
See attached:



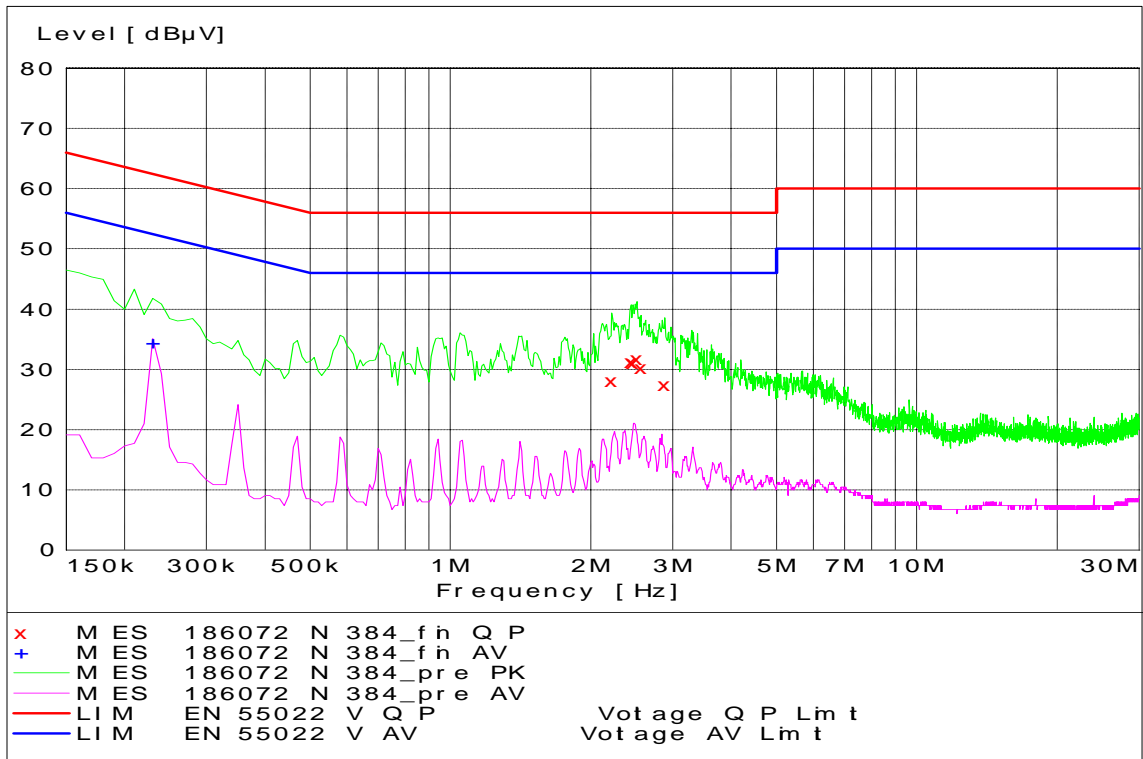
800 CDMA Channel 1013 - Tx Mode - Line Coupling



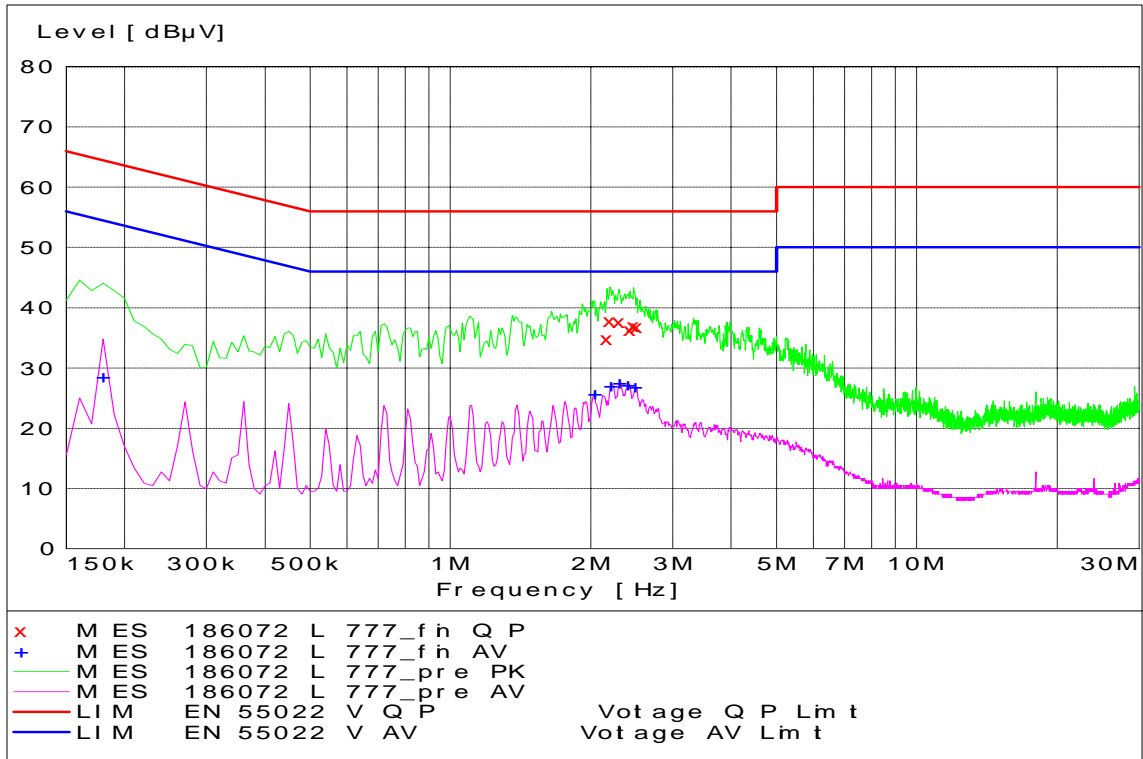
800 CDMA Channel 1013 - Tx Mode - Neutral Coupling



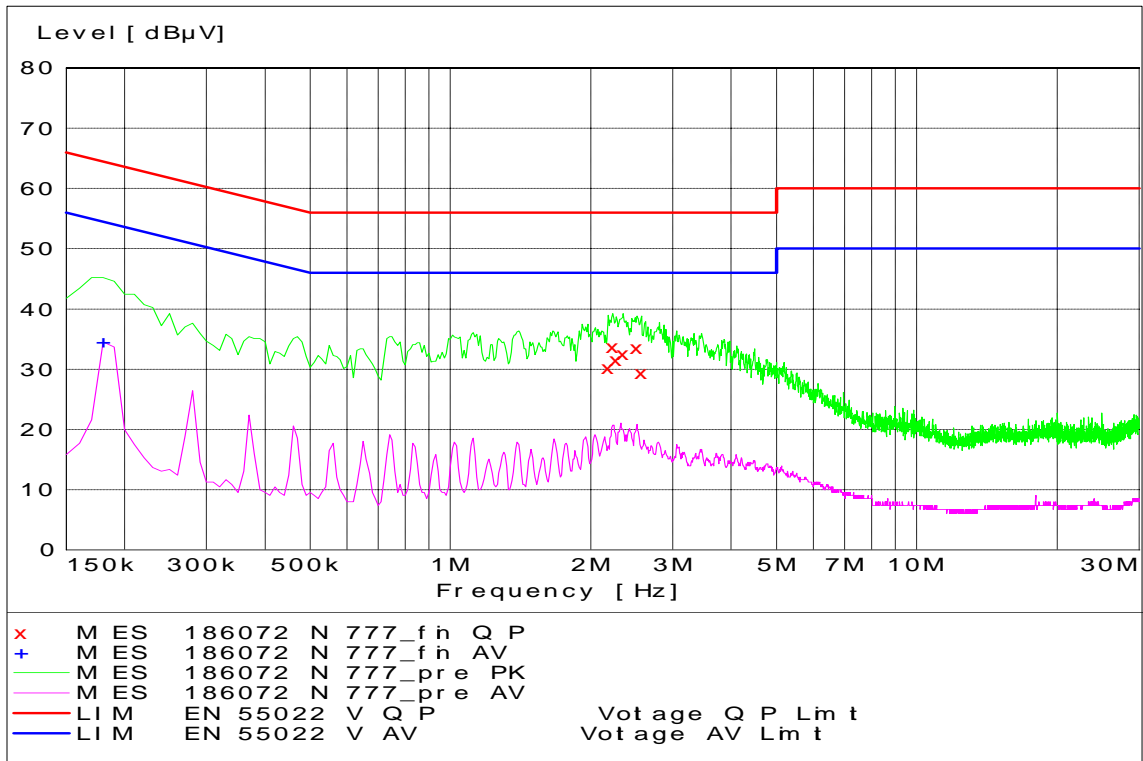
800 CDMA Channel 384 - Tx Mode - Line Coupling



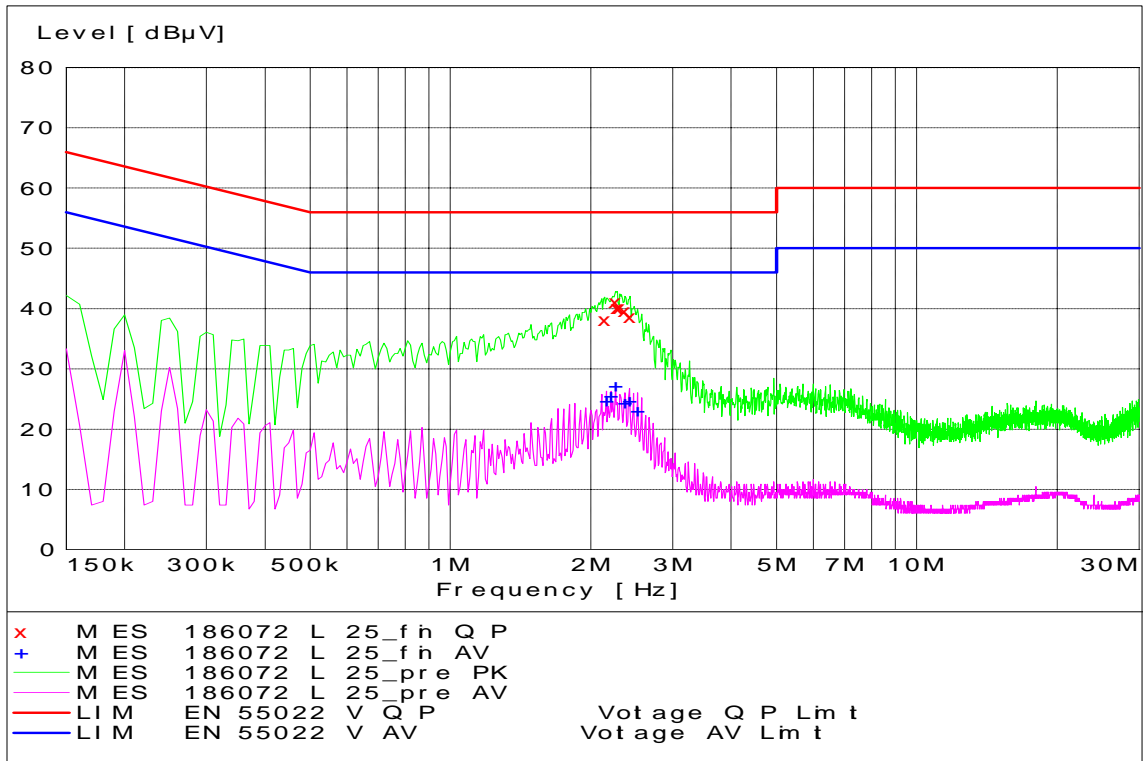
800 CDMA Channel 384 - Tx Mode - Neutral Coupling



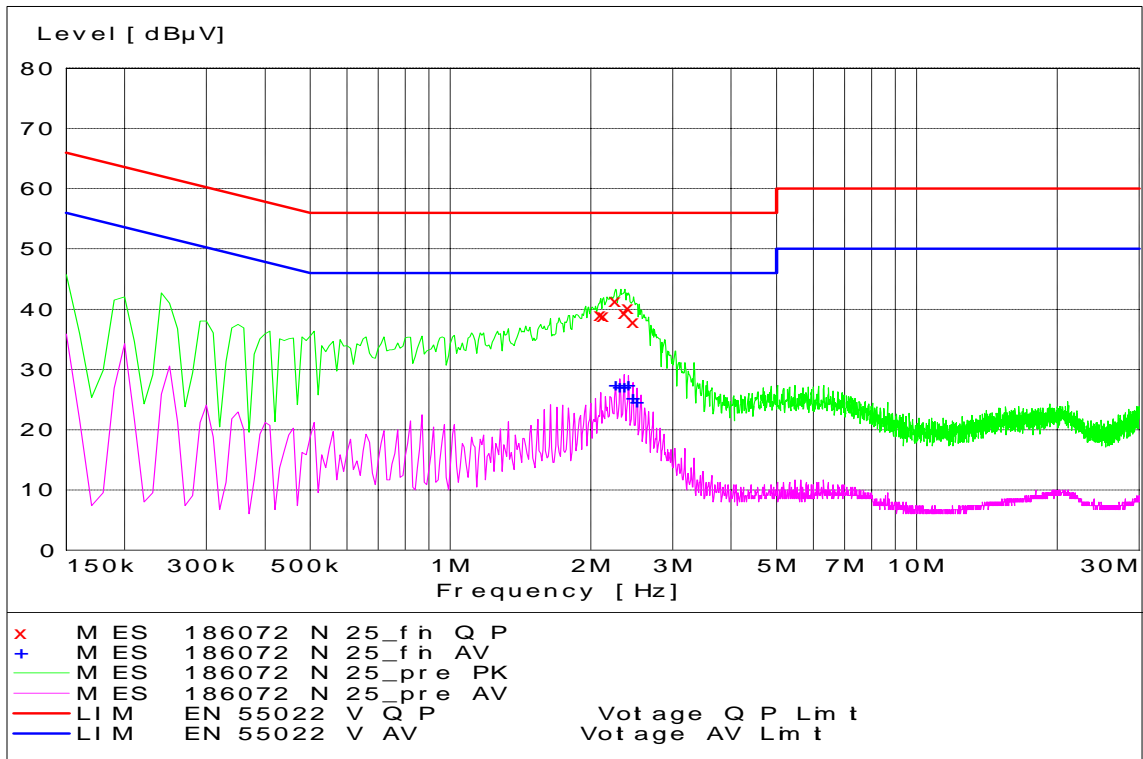
800 CDMA Channel 777 - Tx Mode - Line Coupling



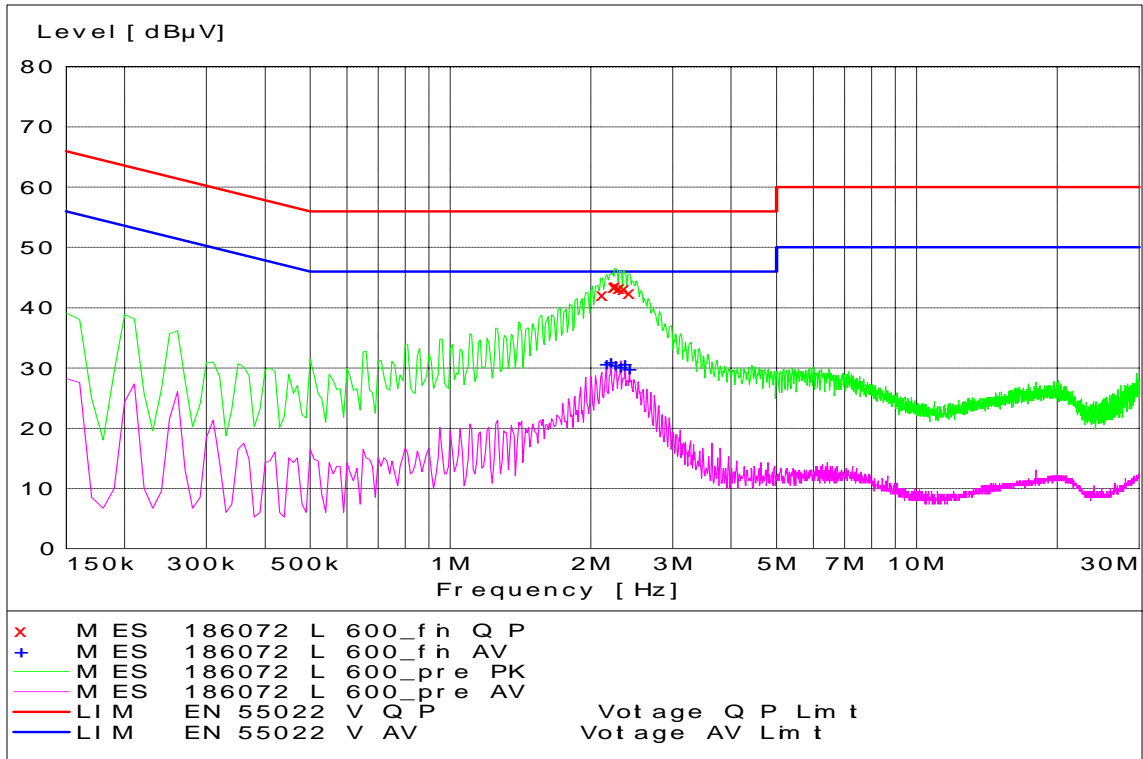
800 CDMA Channel 777 - Tx Mode - Neutral Coupling



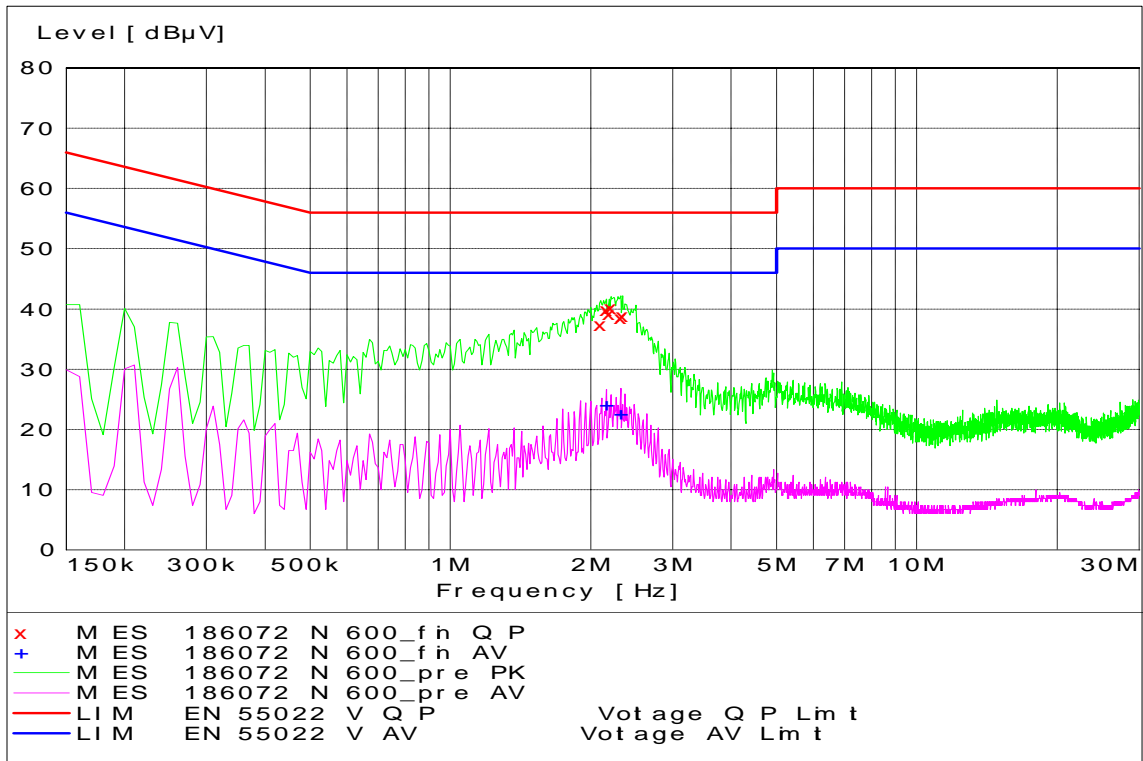
CDMA PCS Channel 25 - Tx Mode - Line Coupling



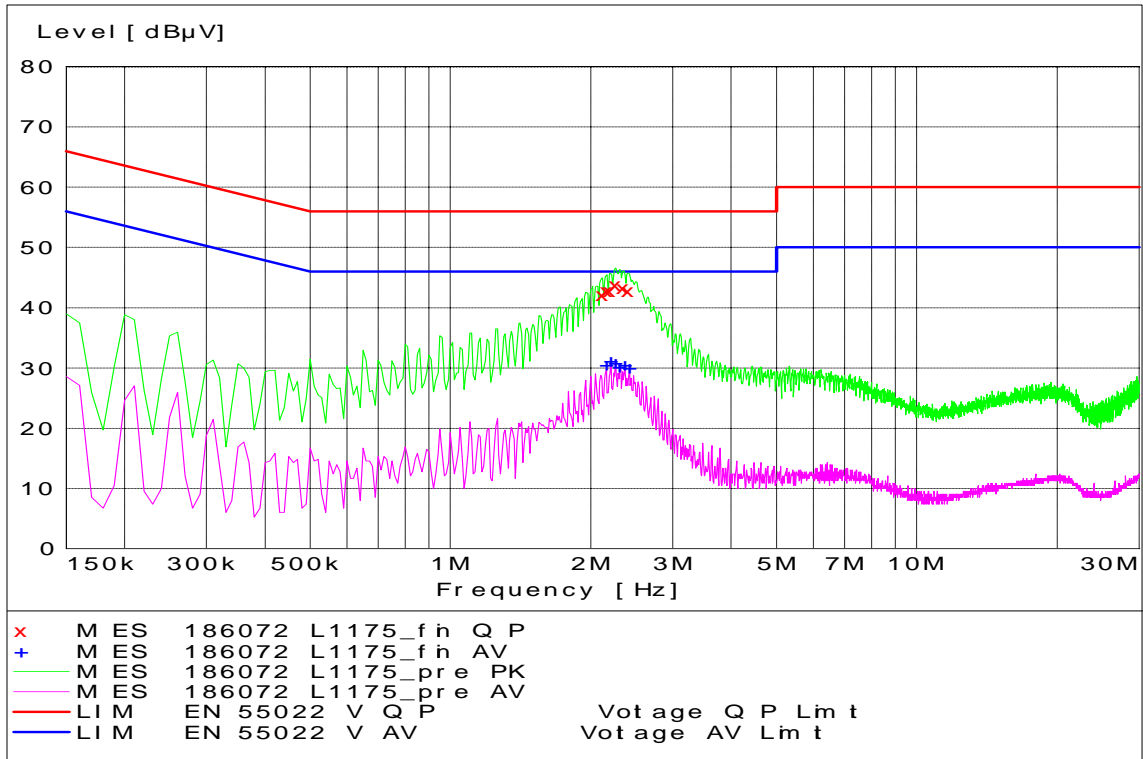
CDMA PCS Channel 25 - Tx Mode - Neutral Coupling



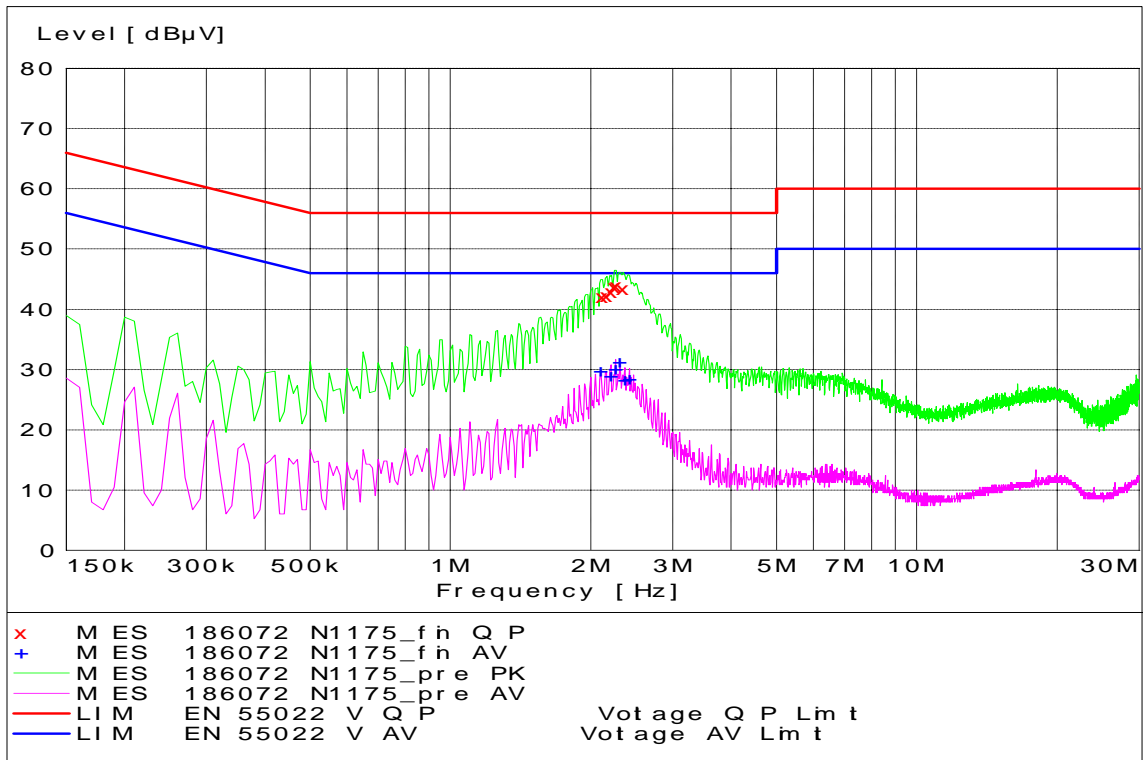
CDMA PCS Channel 600 - Tx Mode - Line Coupling



CDMA PCS Channel 600 - Tx Mode - Neutral Coupling



CDMA PCS Channel 1175 - Tx Mode - Line Coupling



CDMA PCS Channel 1175 - Tx Mode - Neutral Coupling

End of Test Report