



MC7355 Modem

Test Report

FOR

CDMA and EVDO

FCC and IC Certifications

IC: 2417C-MC7355

FCC ID: N7NMC7355

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1 Introduction and Purpose

This document provides test data for the MC7355 modem output power intended for FCC and Industry Canada certifications.

2 Test Summary

FCC Rule	IC Standards	DESCRIPTION OF TEST	RESULT	PAGE
2.1046	RSS-132, 4.4 RSS-133, 6.4	RF Power Output	Complies	5
2.1049, 22.917, 24.238, 90.691	RSS-Gen, 4.6	Occupied Bandwidth	Complies	16
2.1051, 24.238, 90.210	RSS-132, 4.5 RSS-133, 6.5	Out of Band Emissions at Antenna Terminals	Complies	45
22.917, 24.238, 90.691	RSS-Gen, 4.6	Block Edge Compliance	Complies	106
2.1055, 22.355, 24.235, 90.213	RSS-132, 4.3 RSS-133, 6.3	Frequency Stability versus Temperature	Complies	122
2.1055, 22.355, 24.235, 90.213	RSS-132, 4.3 RSS-133, 6.3	Frequency Stability versus Voltage	Complies	124
24.232		Peak to Average Ratio	Complies	126

3 Description of Equipment under Test

The MC7355 modem, referred to as “EUT” hereafter, is a multi-band wireless modem operating on the GSM/GPRS/EDGE/UMTS/LTE/CDMA networks. The table below shows the supported North American bands for the device.

Technology	Band	UL Freq. (MHz)	DL Freq. (MHz)	Max Power
LTE	B2	1850 – 1910	1930 – 1990	23 dBm (+/- 1 dB)
	B4	1710 – 1755	2110 – 2155	23 dBm (+/- 1 dB)
	B5	824 – 849	869 – 894	23 dBm (+/- 1 dB)
	B13	777 – 787	746 – 756	23 dBm (+/- 1 dB)
	B17	704 – 716	734 – 746	23 dBm (+/- 1 dB)
	B25	1850 – 1915	1930 – 1995	23 dBm (+/- 1 dB)
WCDMA / HSDPA/ HSUPA / HSPA+	B2	1850 – 1910	1930 – 1990	23 dBm (+/- 1 dB)
	B4	1710 – 1755	2110 – 2155	23 dBm (+/- 1 dB)
	B5	824 – 849	869 – 894	23 dBm (+/- 1 dB)
CDMA / EVDO	BC0	824 – 849	869 – 894	24 dBm (+0.5/- 1 dB)
	BC1	1850 – 1910	1930 – 1990	24 dBm (+0.5/- 1 dB)
	BC10*	816.0 – 823.975	861.0 – 868.975	24 dBm (+0.5/- 1 dB)

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				dB)
GSM	G850	824 – 849	869 – 894	32 dBm (+/-1dB)
	G1900	1850 – 1910	1930 – 1990	29 dBm (+/-1dB)
EDGE	G850	824 – 849	869 – 894	27 dBm (+/-1dB)
	G1900	1850 – 1910	1930 – 1990	26 dBm (+/-1dB)

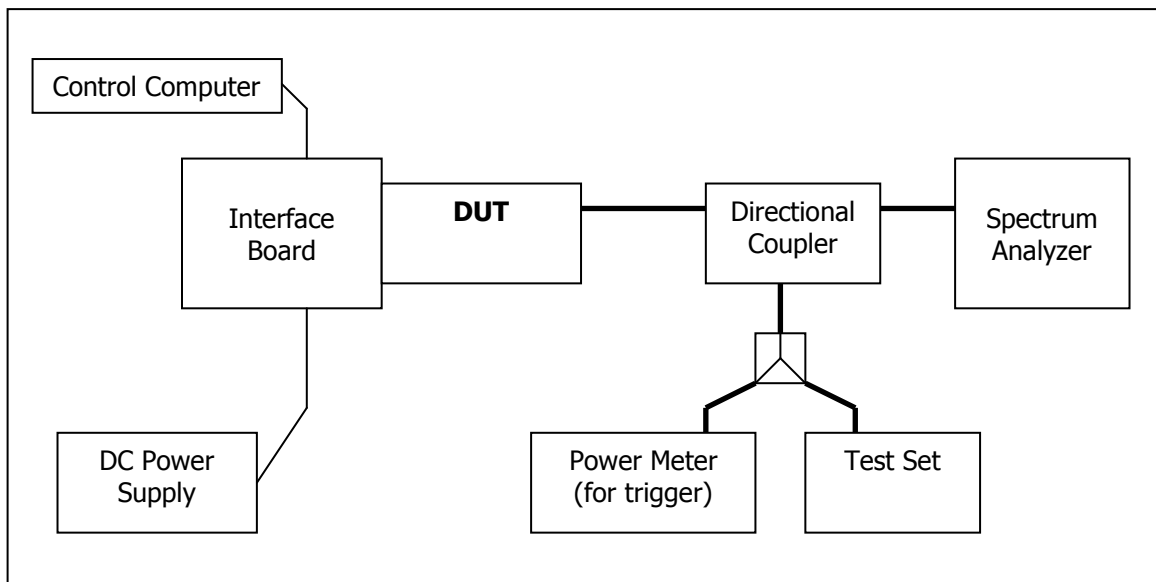
* Only BC10 subclass 2 and 3 frequencies are supported by hardware and firmware.

4 Compliance Test Equipment List

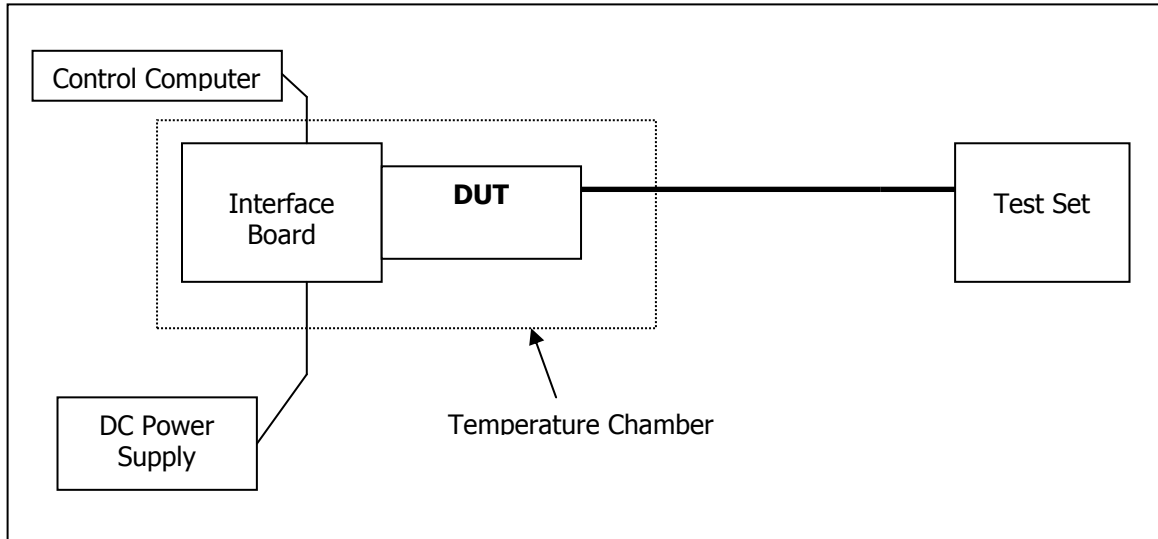
EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE
Control Computer	TC	Generic PC	100488	N/A
Wireless Test Set	Rohde & Schwarz	CMU200	110521	October 30, 2011
Wireless Test Set	Rohde & Schwarz	CMW500	101060	October 12, 2011
Spectrum Analyzer	Rohde & Schwarz	FSP	100060	October 31, 2011
DC Power Supply	HP	6632A	3530A	N/A
Interface Board	Shop built	ATEMux	N/A	N/A
Directional Coupler	Pasternack	PE2209-10	N/A	N/A

5 Test Setup Block Diagrams

5.1 Test Setup 1



5.2 Test Setup 2



6 RF Power Output

FCC 2.1046, 27.53(h)

6.1 Test Procedure

The transmitter output was connected to a Rohde & Schwarz CMW500 Test Set and configured to operate at maximum power in a call. The power was measured using the CDMA Tx measurement of the CMW500. Refer to Test Setup 1.

6.1.1 CDMA/EVDO Max Power setup

For CDMA Loopback Call per 3GPP2 CS00114.4.5 Maximum Output Power

- Configure Fundamental Channel Test Mode 1 with 9600 bps data rate.
- Set the Service option to SO2, the radio configuration to RC1, set forward channel power to -85 dBm and connect call.
- Set the reverse power control bits to "All up" and measure the power at the MC7355 module antenna connector.
- Repeat above process for SO9 and SO55 service options and RC1 and RC3 radio configuration.

For EVDO Loopback Call per 3GPP2 CS0033 4.3.4 Maximum Output Power

- For Subtype 0 or 1 Physical Layer, configure the Test Application RTAP (R0) so that the Reverse Data Channel rate corresponds to 153.6 kbps.
- Set Ior to -85 dBm/1.23 MHz and connect call.
- Set the reverse power control bits to "All up" and measure the power at the MC7355 module antenna connector.

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- Repeat above process for Test Application RETAP (RA) service option.

6.1.2 Test Results CDMA/EVDO Output Power

Band	Channel	CDMA						1x EvDO	
		SO2		SO9		SO55		Rel. 0	Rel. A
	F-RC	RC1	RC3	RC1	RC3	RC1	RC3	RTAP	RETAP
BC0	1013	24.4	24.2	24.3	24.3	24.2	24.3	24.2	24.1
	384	24.3	24.3	24.4	24.3	24.2	24.4	24.2	24.2
	777	24	24.1	24.1	24.1	24.1	24	24.1	24.1
BC1	25	24.1	24.1	24.2	24.3	24.3	24.3	24.2	24.2
	600	24.2	24.2	24.2	24.2	24.2	24.2	24.1	24.1
	1175	24.3	24.4	24.4	24.4	24.2	24.3	24.3	24.2
BC10*	450	24.3	24.2	24.2	24.2	24.2	24.2	24.1	24.1
	560	24.3	24.2	24.3	24.2	24.2	24.3	24.3	24.3
	670	24.2	24.3	24.3	24.4	24.3	24.4	24.3	24.2

*Note: Only BC10 Sub-Band 2 and 3 are supported by hardware and firmware

7 Occupied Bandwidth

FCC 2.202, 22.917, 24.238(a)(b), 90.691

7.1 Test Procedure

The transmitter output was connected to a spectrum analyzer through a calibrated coaxial cable and a directional coupler. The occupied bandwidth (defined as the 99% Power Bandwidth) was measured with the spectrum analyzer at low, middle, and high frequencies in each band. The -26dB bandwidth was also measured and recorded. Refer to Test Setup 1.

7.2 Test Results

The measurements were performed with the

7.2.1 CDMA Summary Results

Band	Configuration		99% OBW (MHz)	-26 dB OBW (MHz)	Plot No.
BC0	SO2	RC1	1.284	1.437	7.2.2.1
		RC3	1.274	1.437	7.2.2.2
	1x EvDo	Rel. A	1.289	1.442	7.2.3.1
BC1	SO2	RC1	1.274	1.446	7.2.2.3
		RC3	1.279	1.437	7.2.2.4
	1x EvDo	Rel. A	1.279	1.437	7.2.3.2

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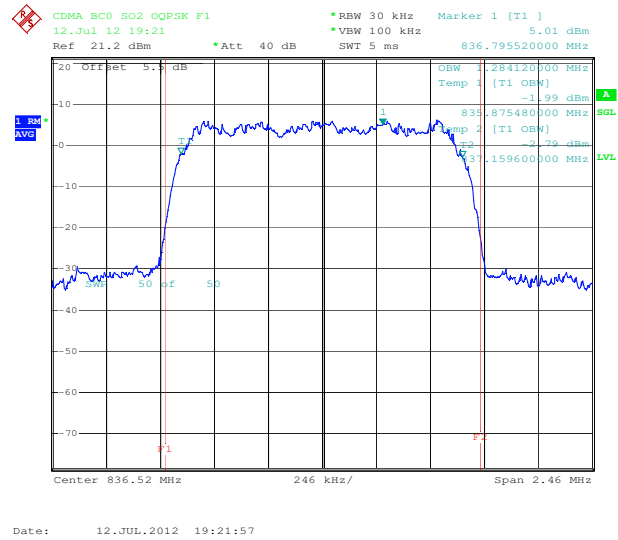
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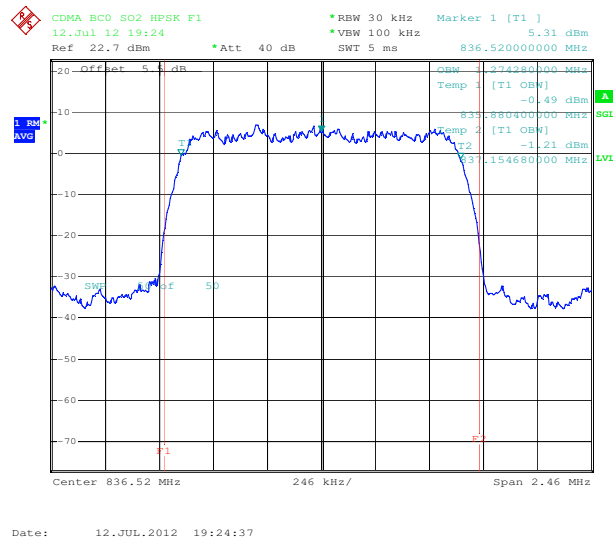
BC10*	SO2	RC1	1.274	1.437	7.2.2.5
		RC3	1.279	1.442	7.2.2.6
	1x EvDo	Rel. A	1.274	1.456	7.2.3.3

7.2.2 CDMA Test Plots

7.2.2.1 CDMA Occupied Bandwidth, SO2, RC1, BC0 Mid channel, 836.52 MHz, 99% BW



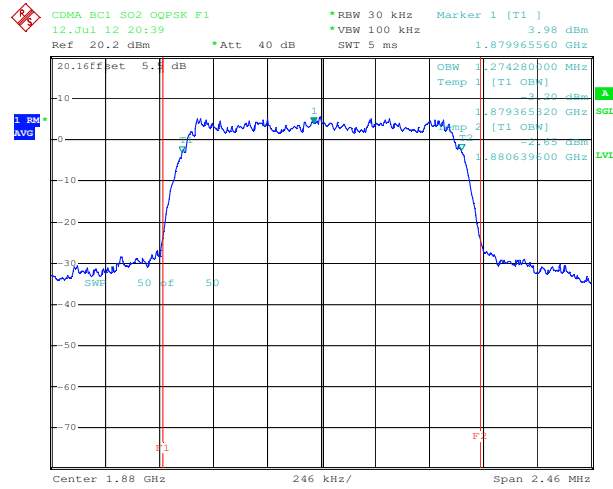
7.2.2.2 CDMA Occupied Bandwidth, SO2, RC3, BC0 Mid channel, 836.52 MHz, 99% BW



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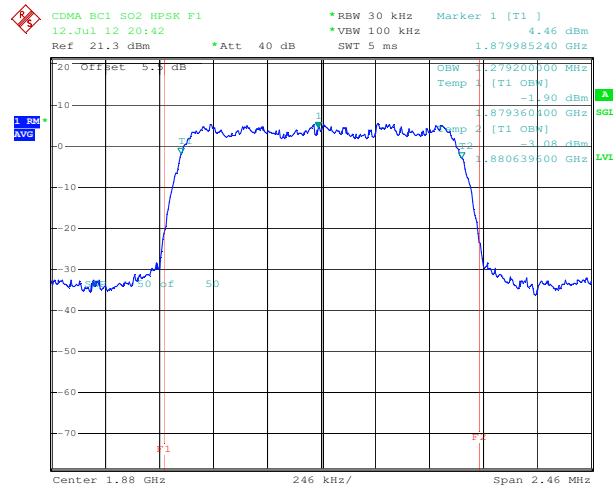
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7.2.2.3 CDMA Occupied Bandwidth, SO2, RC1, BC1 Mid channel, 1880.0 MHz, 99% BW



Date: 12.JUL.2012 20:39:20

7.2.2.4 CDMA Occupied Bandwidth, SO2, RC3, BC1 Mid channel, 1880.0 MHz, 99% BW

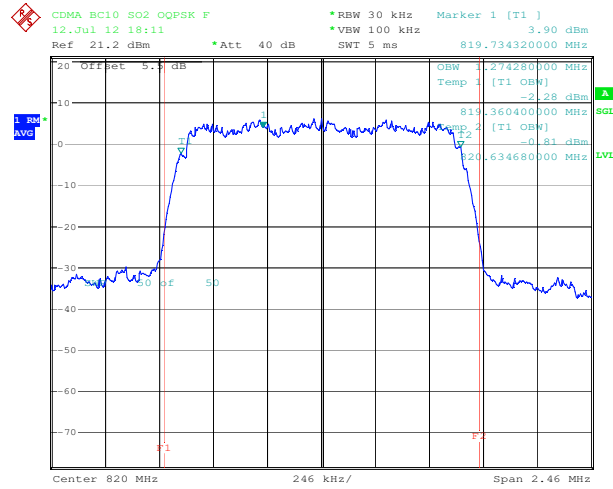


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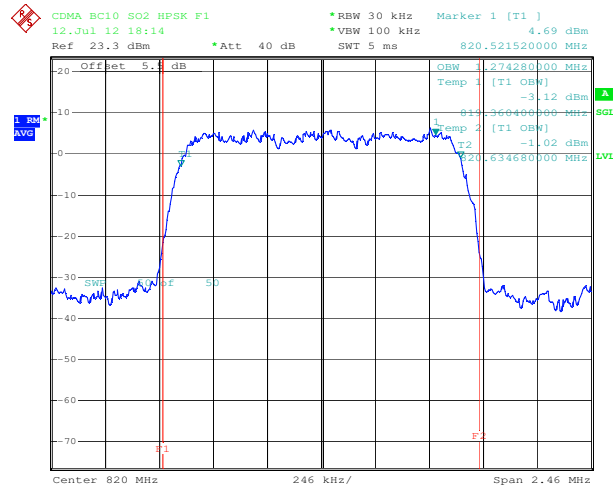
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7.2.2.5 CDMA Occupied Bandwidth, SO2, RC1, BC10 Mid channel, 820.0 MHz, 99% BW



Date: 12.JUL.2012 18:11:58

7.2.2.6 CDMA Occupied Bandwidth, SO2, RC3, BC10 Mid channel, 820.0 MHz, 99% BW



Date: 12.JUL.2012 18:14:42

7.2.3 1x EvDO Test Plots

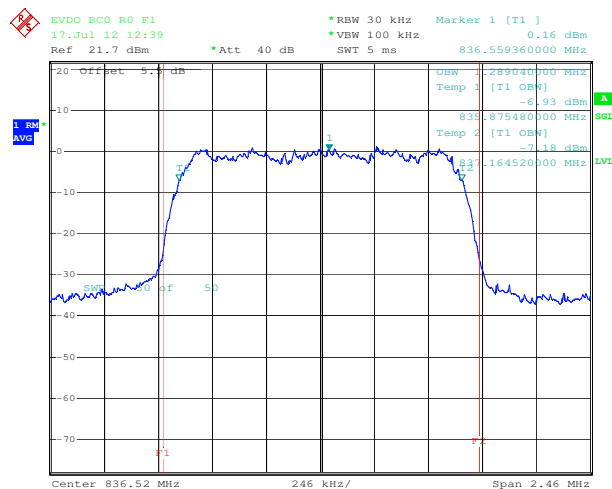
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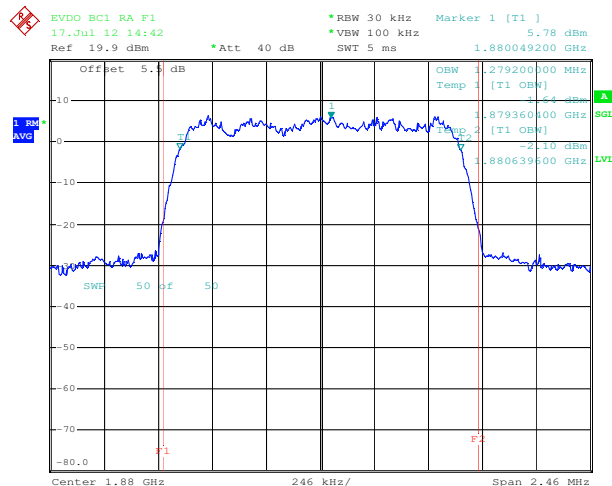
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7.2.3.1 1x EvDO Occupied Bandwidth, Rel. A, BC0 Mid channel, 836.52 MHz, 99% BW



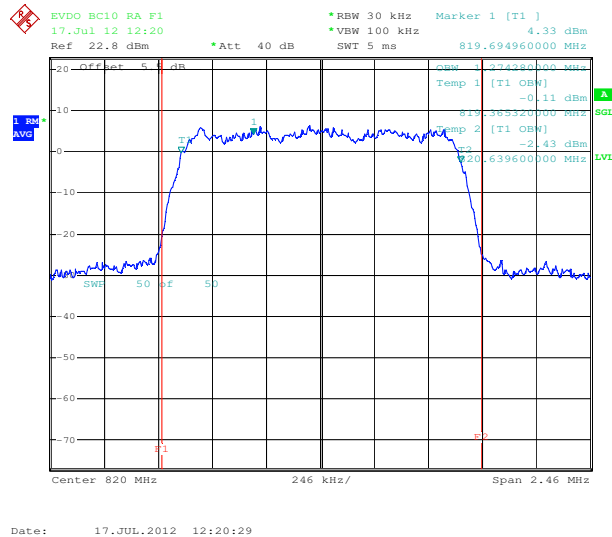
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7.2.3.2 1x EvDO Occupied Bandwidth, Rel. A, BC1 Mid channel, 1880.0 MHz, 99% BW



Date: 17.JUL.2012 14:42:10

7.2.3.3 1x EvDO Occupied Bandwidth, Rel. A, BC10 Mid channel, 820.0 MHz, 99% BW



8 Out of Band Emissions at Antenna Terminals

FCC 22.901(d), 22.917, 24.238(a), 27.53(h)(m)

Out of Band Emissions:

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least $(43 + 10 \log P)$ dB. The out of band emission limit translates to a worst case absolute limit of -13dBm in this case.

8.1 Test Procedure

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band emissions, if any, up to 10th harmonic. The EUT was scanned for spurious emissions from 1MHz to 20GHz with sufficient bandwidth and video resolution. Data plots are included. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were captured. Refer to Test Setup 2.

8.2 Test Results

Band	Configuration	Plot No.	Status
BC0	SO2	8.2.1.1, 8.2.1.2	PASS
	1x EvDo	8.2.2.1, 8.2.2.2	PASS
BC1	SO2	8.2.1.3 – 8.2.1.5	PASS
	1x EvDo	8.2.2.3 – 8.2.2.5	PASS
BC10	SO2	8.2.1.6, 8.2.1.7	PASS
	1x EvDo	8.2.2.6, 8.2.2.7	PASS

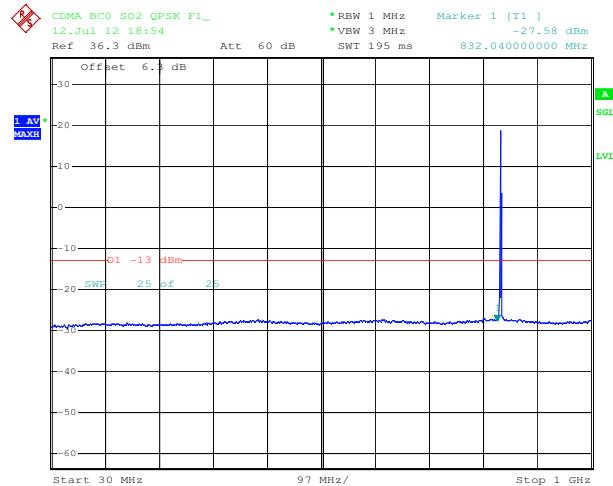
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The plots below show that the conducted emission limits requirements are met.

8.2.1 CDMA Test Plots

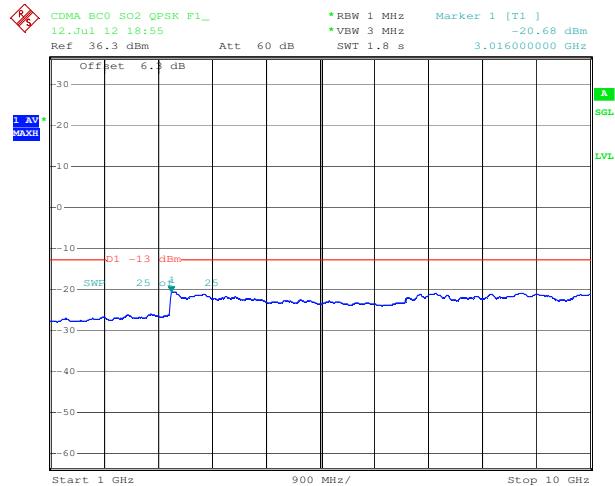
8.2.1.1 Out of Band Emissions at Antenna Terminals CDMA BC0, Mid channel, 836.52 MHz, 2 Hz to 1 GHz



Date: 12.JUL.2012 18:54:06

Note: The strong emission shown in each case is the carrier signal.

8.2.1.2 Out of Band Emissions at Antenna Terminals CDMA BC0, Mid channel, 836.52 MHz, 1 GHz to 10 GHz



Date: 12.JUL.2012 18:55:17

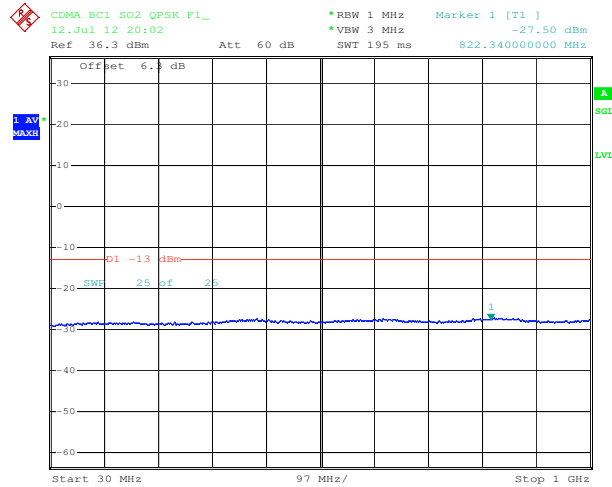
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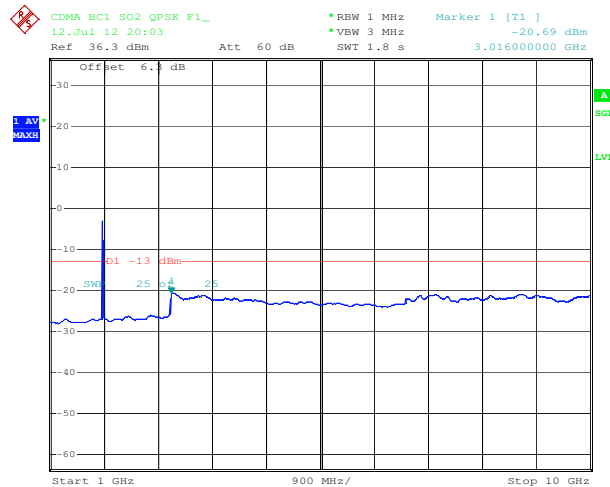
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8.2.1.3 Out of Band Emissions at Antenna Terminals CDMA BC1, Mid channel, 1880.0 MHz, 2 Hz to 1 GHz



Date: 12.JUL.2012 20:02:36

8.2.1.4 Out of Band Emissions at Antenna Terminals CDMA BC1, Mid channel, 1880.0 MHz, 1 GHz to 10 GHz



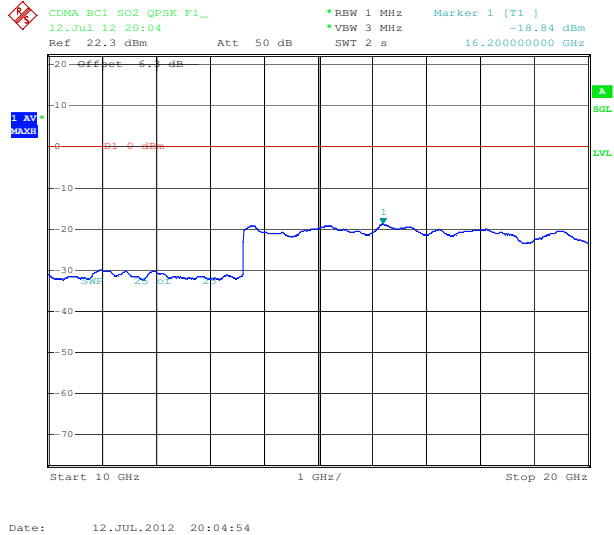
Date: 12.JUL.2012 20:03:47

Note: The strong emission shown in each case is the carrier signal.

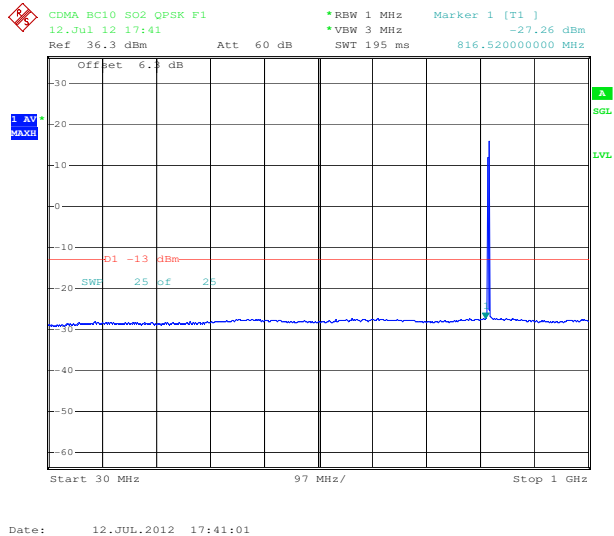
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8.2.1.5 Out of Band Emissions at Antenna Terminals CDMA BC1, Mid channel, 1880.0 MHz, 10 GHz to 20 GHz



8.2.1.6 *Out of Band Emissions at Antenna Terminals CDMA BC10, Mid channel, 820.0 MHz, 2 Hz to 1 GHz*

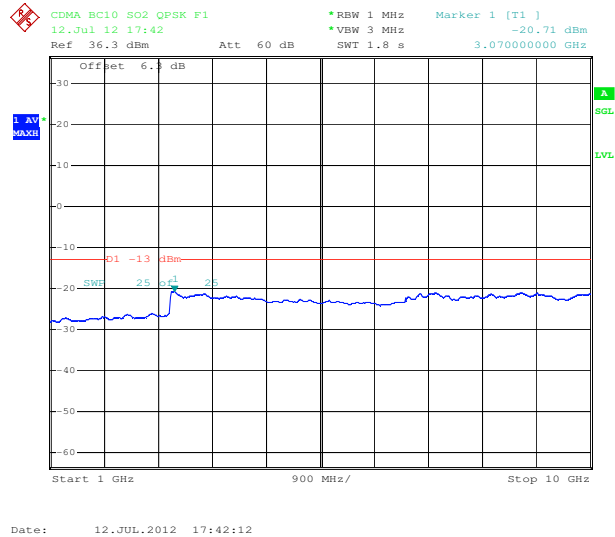


Note: The strong emission shown in each case is the carrier signal.

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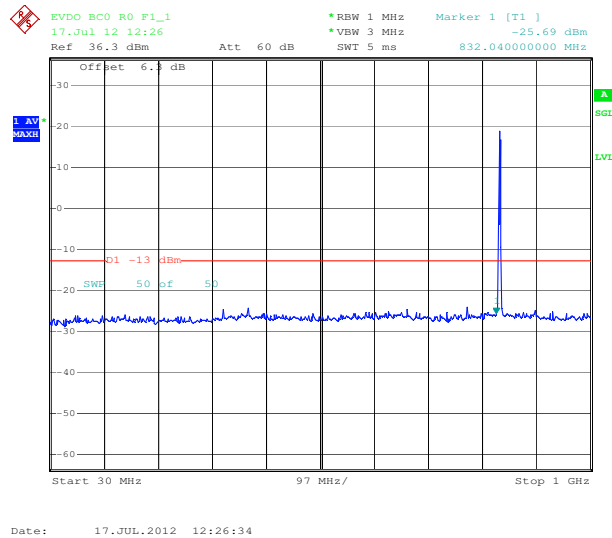
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8.2.1.7 Out of Band Emissions at Antenna Terminals CDMA BC10, Mid channel, 820.0 MHz, 1 GHz to 10 GHz



8.2.2 EVDO Rel. A Test Plots

8.2.2.1 Out of Band Emissions at Antenna Terminals 1x EvDO BC0, Mid channel, 836.52 MHz, 2 Hz to 1 GHz

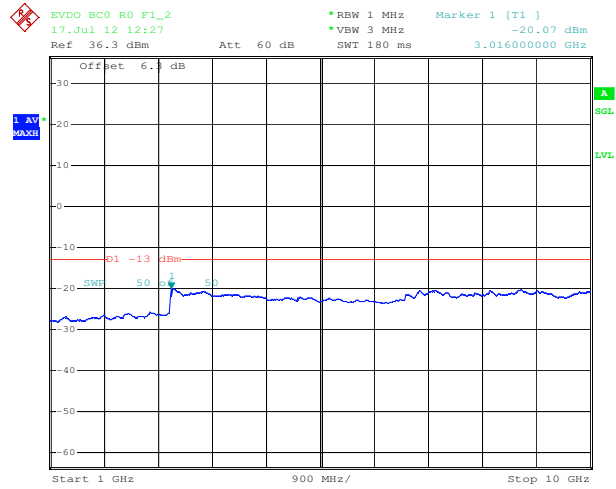


Note: The strong emission shown in each case is the carrier signal.

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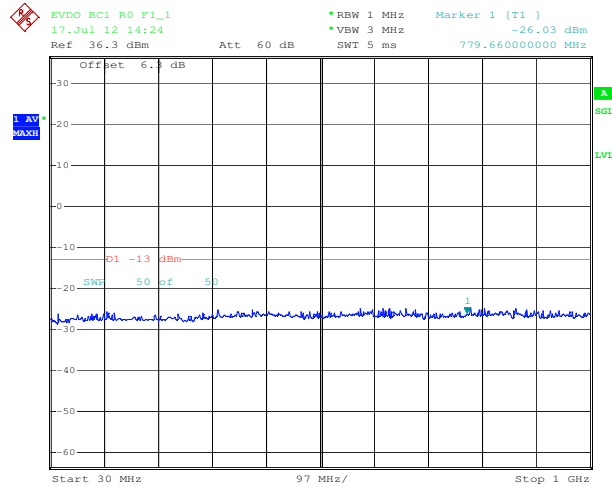
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8.2.2.2 Out of Band Emissions at Antenna Terminals 1x EvDO BC0, Mid channel, 836.52 MHz, 1 GHz to 10 GHz



Date: 17.JUL.2012 12:27:23

8.2.2.3 Out of Band Emissions at Antenna Terminals 1x EvDO BC1, Mid channel, 1880.0 MHz, 2 Hz to 1 GHz

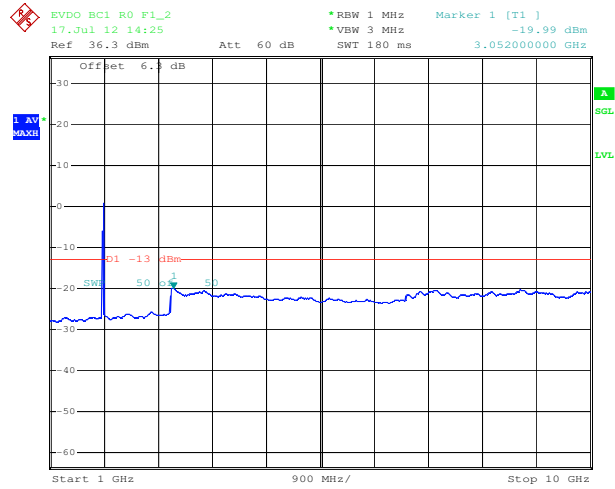


Date: 17.JUL.2012 14:24:22

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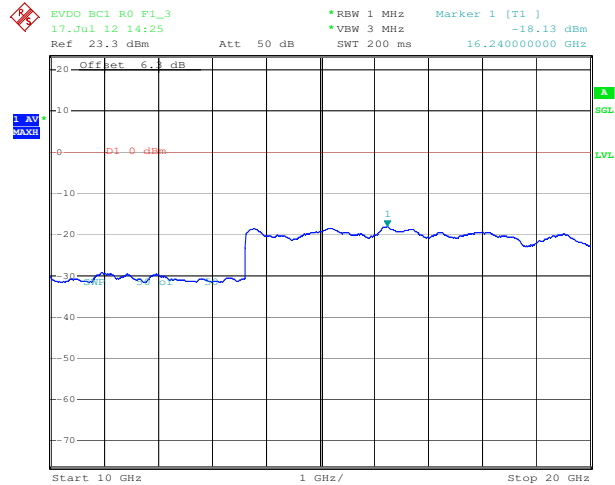
8.2.2.4 Out of Band Emissions at Antenna Terminals 1x EvDO BC1, Mid channel, 1880.0 MHz, 1 GHz to 10 GHz



Date: 17.JUL.2012 14:25:11

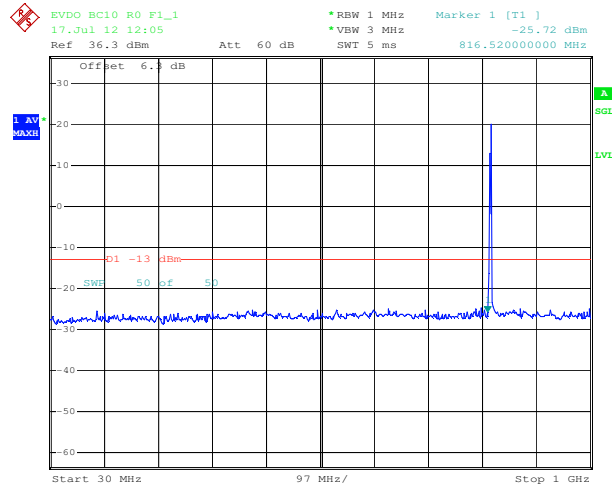
Note: The strong emission shown in each case is the carrier signal.

8.2.2.5 Out of Band Emissions at Antenna Terminals 1x EvDO BC1, Mid channel, 1880.0 MHz, 10 GHz to 20 GHz



Date: 17.JUL.2012 14:25:46

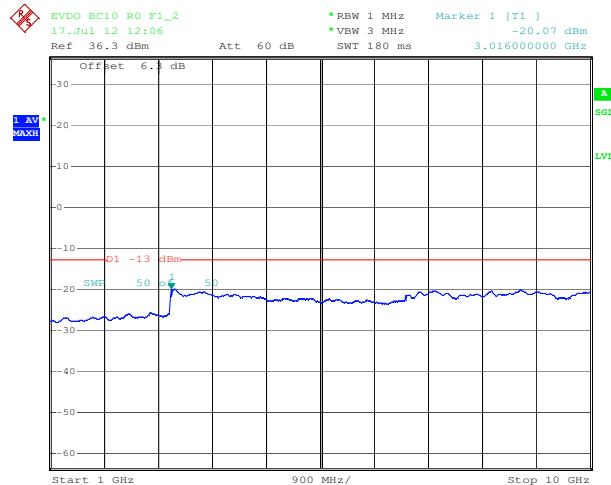
8.2.2.6 Out of Band Emissions at Antenna Terminals 1x EvDO BC10, Mid channel, 820.0 MHz, 2 Hz to 1 GHz



Date: 17.JUL.2012 12:05:32

Note: The strong emission shown in each case is the carrier signal.

8.2.2.7 Out of Band Emissions at Antenna Terminals 1x EvDO BC10, Mid channel, 820.0 MHz, 1 GHz to 10 GHz



Date: 17.JUL.2012 12:06:21

9 Block Edge Compliance

FCC Part 22(h)/24(e)/27.53(h)(m)

9.1 Test Procedure

The transmitter output was connected to a Rohde & Schwarz CMU200 Test Set (or CMW500 for LTE), through a coaxial RF cable and a directional coupler, and configured to operate at maximum power. The block edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer. Refer to Test Setup 1.

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The resolution bandwidth was set to at least 1% of the emission bandwidth (where applicable). The power was scaled accordingly:

$$\text{Power offset} = 10 \cdot \log(\text{FCC_RBW} / \text{Measurement_RBW})$$

9.2 Test Results

Block Test	Band	Frequency Boundaries (MHz)	Channels Tested	Configuration	Corresponding Plots	Result
CDMA	BC0	Below 824 MHz, above 849 MHz	128, 251	RC1 (OQPSK)	9.2.1.1, 9.2.1.2	Complies
				RC3 (HPSK)	9.2.1.3, 9.2.1.4	
	BC1	Below 1850MHz, above 1910MHz	512, 810	RC1 (OQPSK)	9.2.1.5, 9.2.1.6	Complies
				RC3 (HPSK)	9.2.1.7, 9.2.1.8	
	BC10*	Below 816MHz, above 823.975MHz	450, 670	RC1 (OQPSK)	9.2.1.9, 9.2.1.10	Complies
				RC3 (HPSK)	9.2.1.11, 9.2.1.12	
1x EvDO	BC0	Below 824 MHz, above 849 MHz	128, 251	Rel. A	9.2.2.1, 9.2.2.2	Complies
	BC1	Below 1850MHz, above 1910MHz	512, 810	Rel. A	9.2.2.3, 9.2.2.4	Complies
	BC10*	Below 816MHz, above 823.975MHz	450, 670	Rel. A	9.2.2.5, 9.2.2.6	Complies

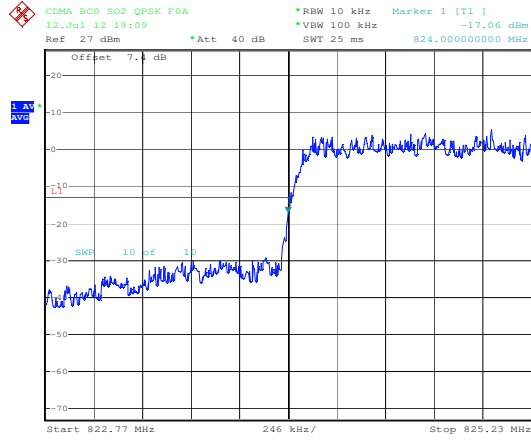
*Note: Only BC10 Sub-Band 2 and 3 are supported by hardware and firmware

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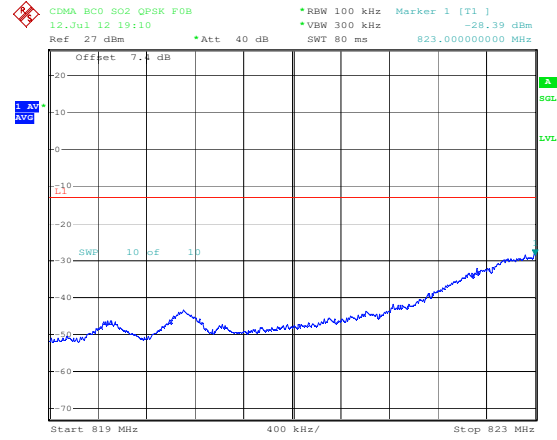
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9.2.1 CDMA Test Plots

9.2.1.1 CDMA BC0, RC1, low channel, below 824 MHz

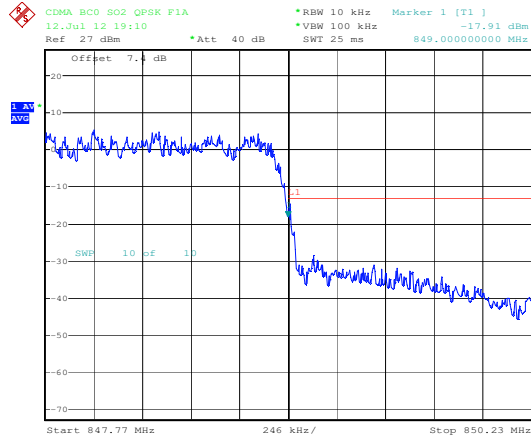


Date: 12.JUL.2012 19:09:56

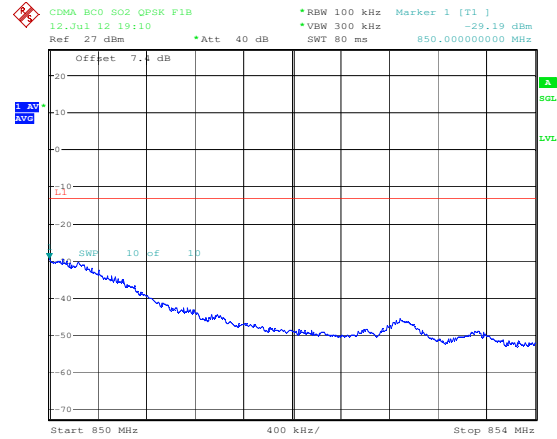


Date: 12.JUL.2012 19:10:03

9.2.1.2 CDMA BC0, RC1, high channel, above 849 MHz



Date: 12.JUL.2012 19:10:15

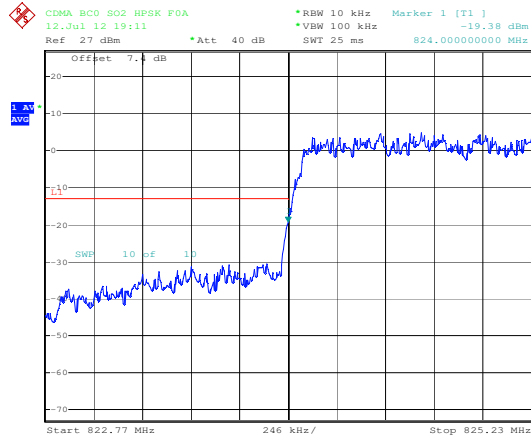


Date: 12.JUL.2012 19:10:23

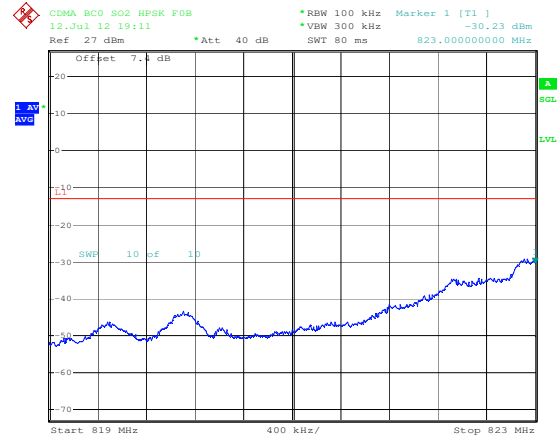
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9.2.1.3 CDMA BC0, RC3, low channel, below 824 MHz

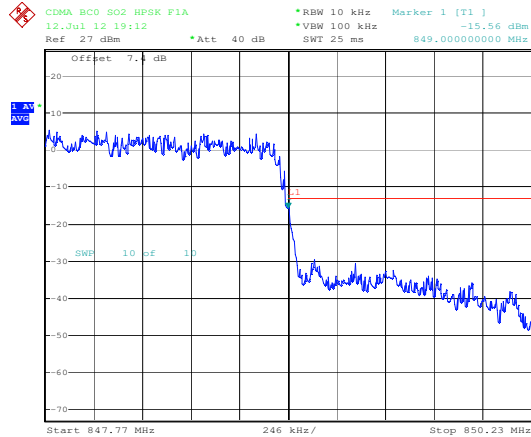


Date: 12.JUL.2012 19:11:50

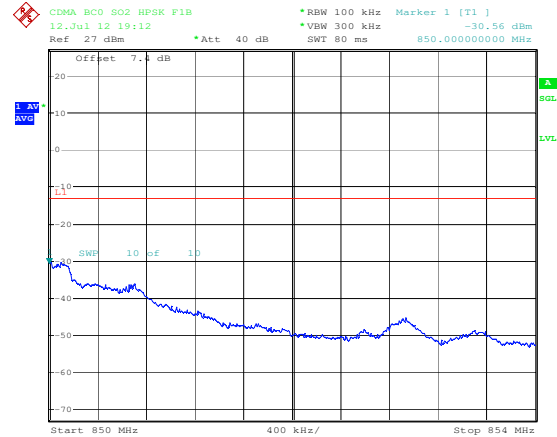


Date: 12.JUL.2012 19:11:57

9.2.1.4 CDMA BC0, RC3, high channel, above 849 MHz



Date: 12.JUL.2012 19:12:09



Date: 12.JUL.2012 19:12:16

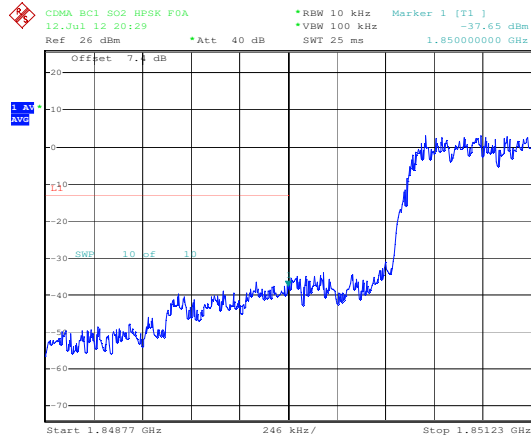
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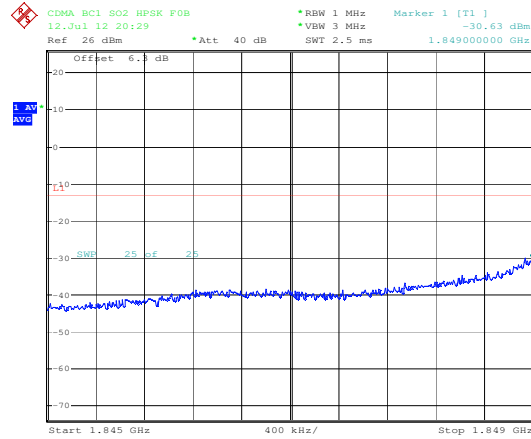
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9.2.1.7 CDMA BC1, RC3, low channel, below 1850 MHz

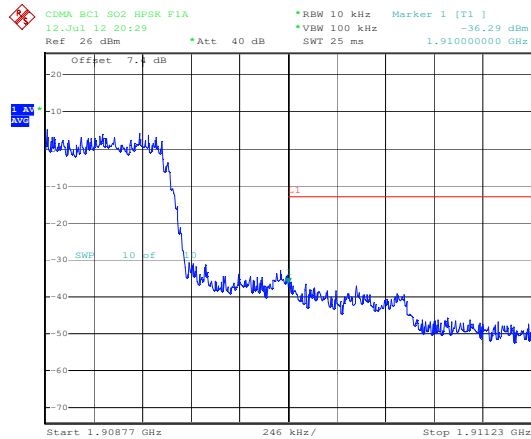


Date: 12.JUL.2012 20:29:17

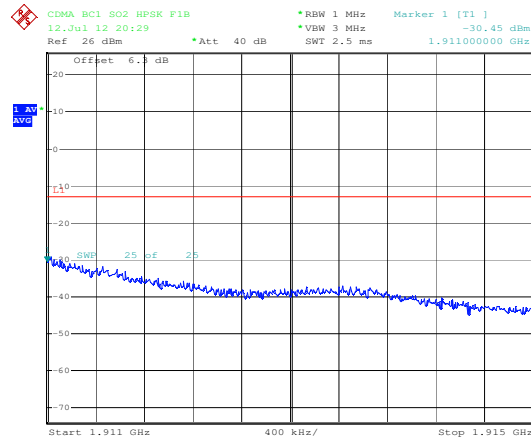


Date: 12.JUL.2012 20:29:24

9.2.1.8 CDMA BC1, RC3, high channel, above 1910 MHz



Date: 12.JUL.2012 20:29:36

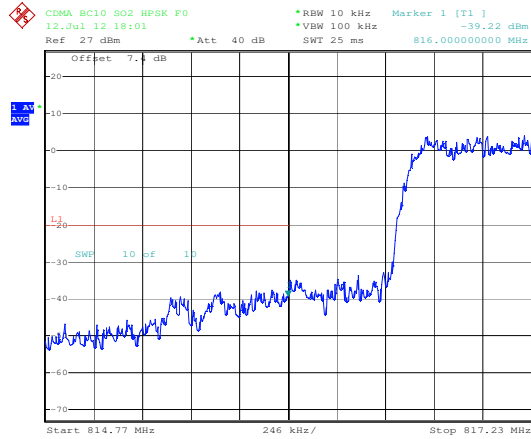


Date: 12.JUL.2012 20:29:43

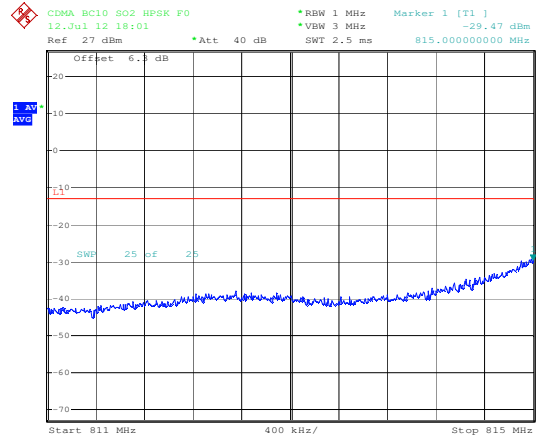
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9.2.1.11 CDMA BC10, RC3, low channel, below 816 MHz

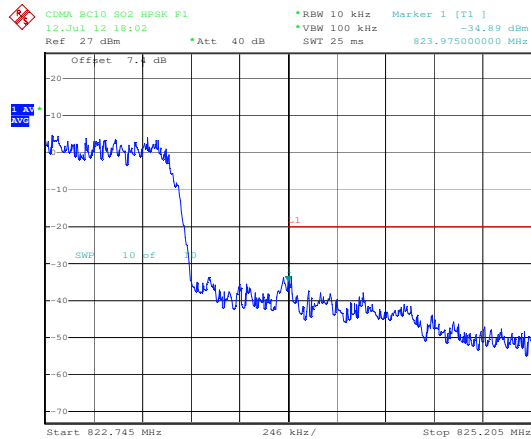


Date: 12.JUL.2012 18:01:52

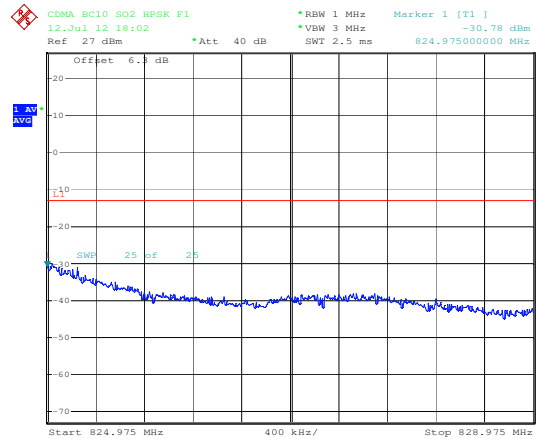


Date: 12.JUL.2012 18:02:00

9.2.1.12 CDMA BC10, RC3, high channel, above 823.975 MHz



Date: 12.JUL.2012 18:02:11



Date: 12.JUL.2012 18:02:19

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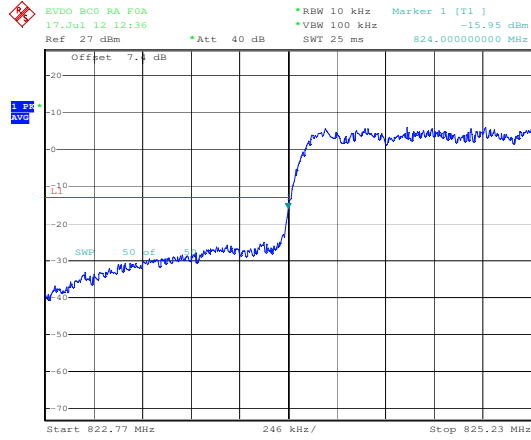
MC7355

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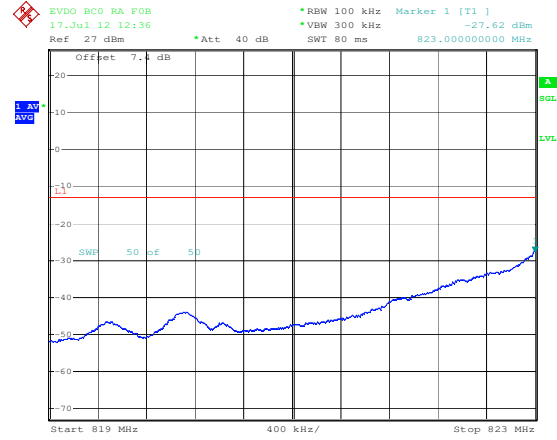
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9.2.2 1x EvDO Test Plots

9.2.2.1 1x EvDO BC0, Rel. A, low channel, below 824 MHz

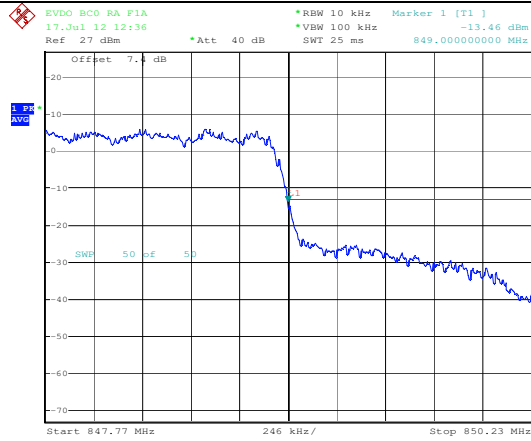


Date: 17.JUL.2012 12:36:26

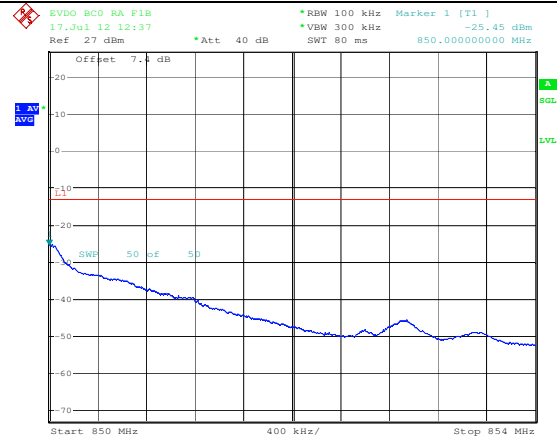


Date: 17.JUL.2012 12:36:38

9.2.2.2 1x EvDO BC0, Rel. A, high channel, above 849 MHz



Date: 17.JUL.2012 12:36:52



Date: 17.JUL.2012 12:37:03

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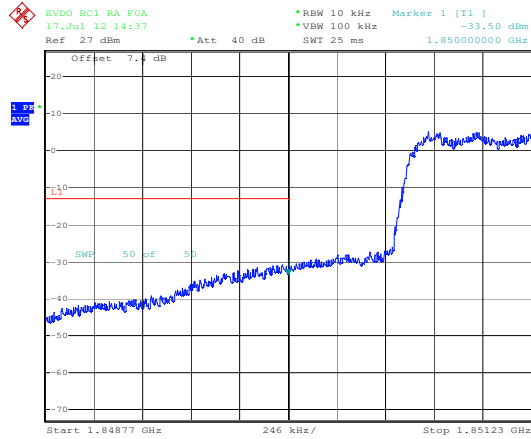
FCC Part 22/24/90, RSS-132/133

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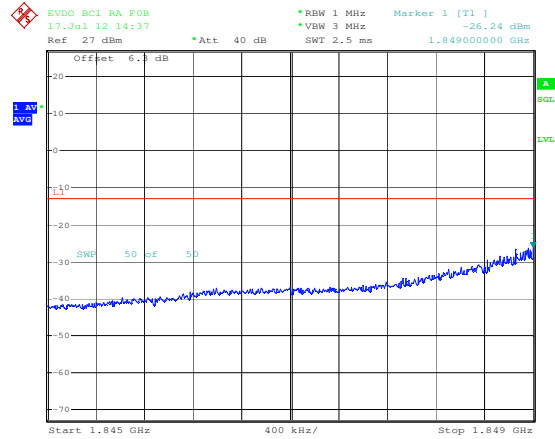
Aug. 16, 2012

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9.2.2.3 1x EvDO BC1, Rel. A, low channel, below 1850 MHz

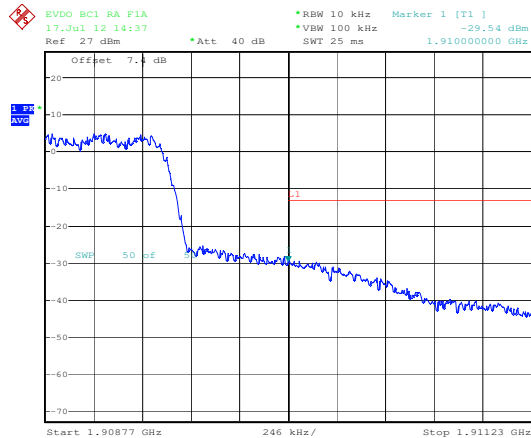


Date: 17.JUL.2012 14:37:00

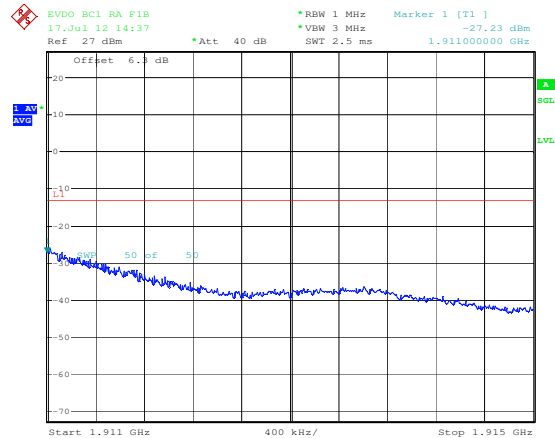


Date: 17.JUL.2012 14:37:08

9.2.2.4 1x EvDO BC1, Rel. A, high channel, above 1910 MHz



Date: 17.JUL.2012 14:37:22



Date: 17.JUL.2012 14:37:30

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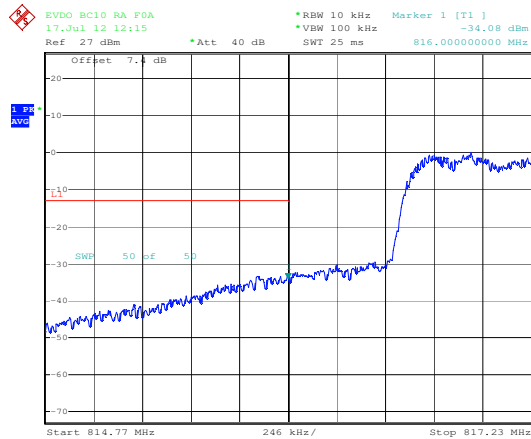
FCC Part 22/24/90, RSS-132/133

MC7355

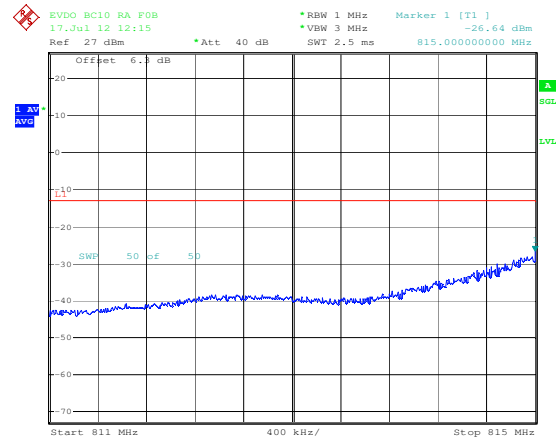
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9.2.2.5 1x EvDO BC10, Rel. A, low channel, below 816 MHz

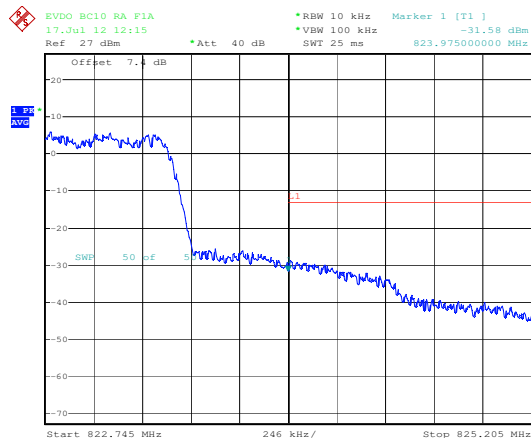


Date: 17.JUL.2012 12:15:14

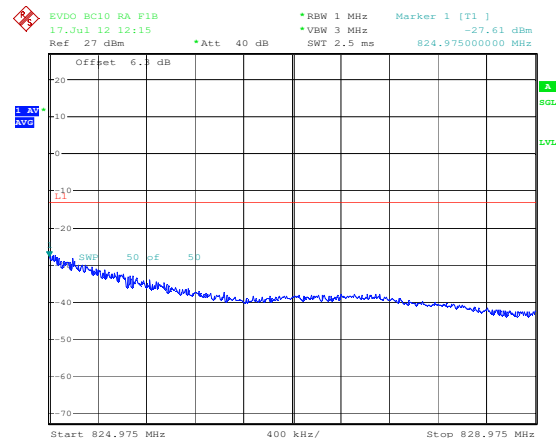


Date: 17.JUL.2012 12:15:22

9.2.2.6 1x EvDO BC10, Rel. A, high channel, above 823.975 MHz



Date: 17.JUL.2012 12:15:36



Date: 17.JUL.2012 12:15:44

10 Frequency Stability versus Temperature

FCC 2.1055, FCC 22.355, FCC 24.235, FCC 27.54

10.1 Summary of Results

The EUT's Frequency Stability versus temperature meets the requirements of less than 2.5ppm when temperature varies from -30°C to +50°C.

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The contents of this page are subject to the confidentiality information on page one.

10.2 Test Procedure

The EUT was placed inside a temperature chamber. The temperature was set to -30°C and maintained to stabilize. After sufficient soak time, the transmitting frequency error was measured. The temperature was then increased by 10 degrees, maintained to stabilize, and the measurement was repeated. This procedure was repeated until +50°C is reached. Frequency metering included internal averaging of the to stabilize the reading. Reference power supply voltage for these tests is 3.3 volts. Refer to Test Setup 2.

10.3 Test Results

10.3.1 CDMA Frequency Error over Temperature

Temp (°C)	CDMA Mode					
	BC0		BC1		BC1	
	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)
-30	10.7	0.0128	-18.9	-0.0101	27.6	0.0337
-20	-6.2	-0.0074	-3.2	-0.0017	-9.1	-0.0111
-10	-13.3	-0.0159	-2.5	-0.0013	5.5	0.0068
0	1.1	0.0013	15.8	0.0084	19.1	0.0233
10	0.6	0.0007	10.5	0.0056	-7.8	-0.0095
20	18.0	0.0215	1.5	0.0008	-38.6	-0.0471
30	0.8	0.0009	9.0	0.0048	3.4	0.0041
40	-14.9	-0.0178	11.0	0.0058	-9.2	-0.0112
50	-39.1	-0.0467	-8.9	-0.0047	-25.6	-0.0313

11 Frequency Stability versus Voltage

FCC 2.1055, FCC 22.355, FCC 24.235, FCC 27.54

11.1 Summary of Results

The EUT is specified to operate with a supply voltage varying between 3.0 VDC and 4.2 VDC, having a nominal voltage of 3.3 VDC. It meets the frequency stability limit of less than 2.5ppm when supply voltage varies within the specified limits. Operation above or below these voltage limits is prohibited by firmware in order to prevent improper operation.

11.2 Test Procedure

The EUT was connected to a DC Power Supply and a CDMA test set (CMW500) with frequency error measurement capability. The power supply output was adjusted to the test voltage as measured at the input terminals to the device while transmitting. A voltmeter was used to confirm the terminal voltage. The peak frequency error is recorded (worst case). The test voltages are 3.0 volts to 4.2 volts. Refer to Test Setup 2.

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11.3 Test Results

11.3.1 CDMA Frequency Error over Voltage

Voltage (V)	CDMA Mode					
	BC0		BC1		BC10	
	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)	Offset (Hz)	Offset (ppm)
3.0	2.1	0.0025	9.1	0.0048	23.9	0.0291
3.3	-10.0	-0.0119	1.1	0.0006	-33.8	-0.0413
4.2	-7.6	-0.0091	4.8	0.0026	10.5	0.0129

12 Peak to Average Ratio

FCC 27.50(d)

12.1 Summary of Results

The EUT meets the requirement of having a peak to average ratio of less than 13dB.

12.2 Test Procedure

The transmitter output was connected to a Rohde & Schwarz CMW500 through a coaxial RF cable and directional coupler, and configured to operate at maximum power. The peak to average ratio was measured at the required operating frequencies in each band on the Spectrum Analyzer. Refer to Test Setup 1.

12.3 Test Results

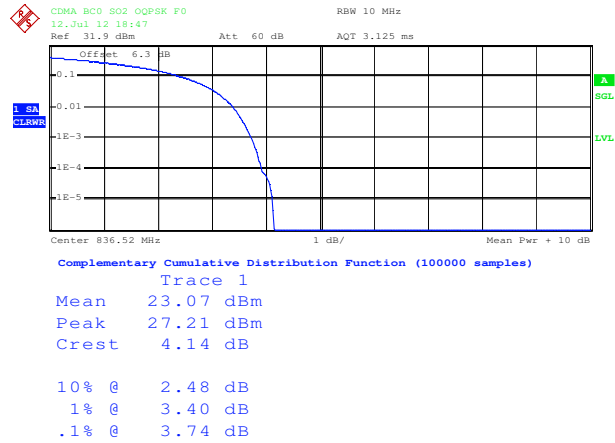
Band	Frequency (MHz)	Channel	Modulation	Plots	Peak to Average Ratio (dB)
BC0	836.52	384	RC1 (OQPSK)	12.3.1.1	3.74
			RC3 (HPSK)	12.3.1.2	3.12
BC1	836.52	600	RC1 (OQPSK)	12.3.1.3	4.46
			RC3 (HPSK)	12.3.1.4	3.86
BC10	836.52	560	RC1 (OQPSK)	12.3.1.5	3.66
			RC3 (HPSK)	12.3.1.6	3.38

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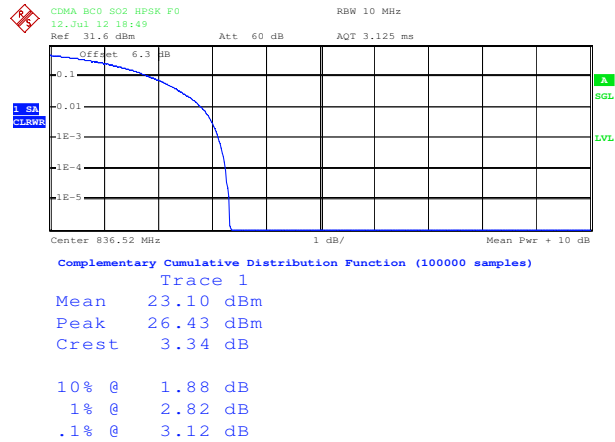
12.3.1 Test Plots

12.3.1.1 CDMA BC0, peak to average ratio, RC1, Mid channel, 836.52 MHz



Date: 12.JUL.2012 18:47:02

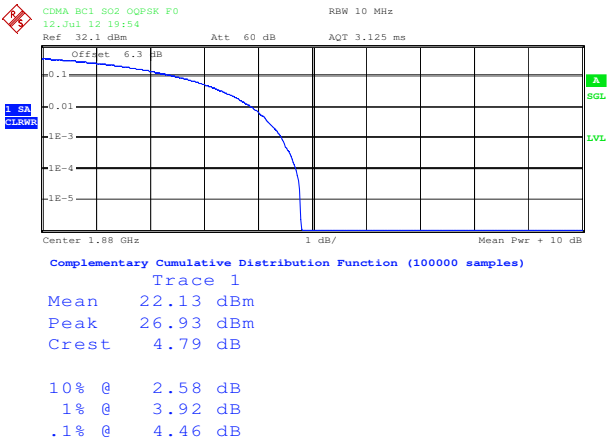
12.3.1.2 CDMA BC0, peak to average ratio, RC3, Mid channel, 836.52 MHz



Date: 12.JUL.2012 18:49:55

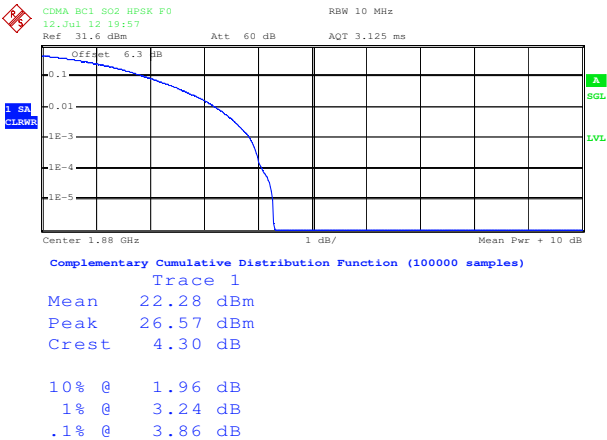
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12.3.1.3 CDMA BC1, peak to average ratio, RC1, Mid channel, 1880.0MHz



Date: 12.JUL.2012 19:54:33

12.3.1.4 CDMA BC1, peak to average ratio, RC3, Mid channel, 1880.0 MHz

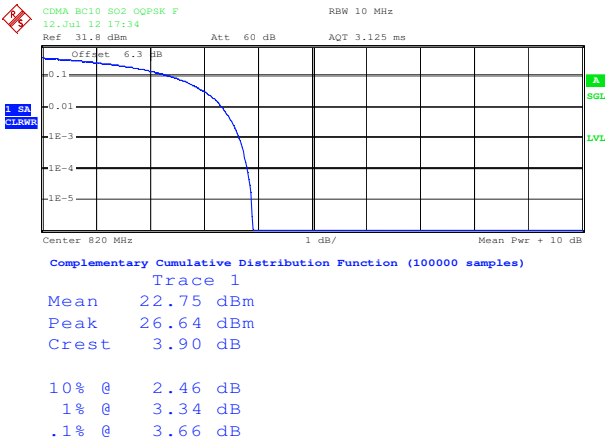


Date: 12.JUL.2012 19:57:22

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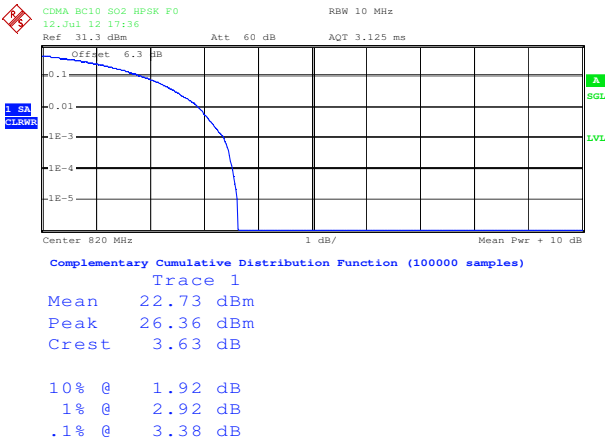
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12.3.1.5 CDMA BC10, peak to average ratio, RC1, Mid channel, 820.0 MHz



Date: 12.JUL.2012 17:34:04

12.3.1.6 CDMA BC10, peak to average ratio, RC3, Mid channel, 820.0 MHz



Date: 12.JUL.2012 17:36:54