

MEASUREMENT DATA

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MEASUREMENT DATA**RF Power Output Data**

The input supply to the transmitter is set at 3.8 volts. The RF power output was measured with the indicated voltage and current applied into the final RF amplifying device.

Conducted Power

The values measured for RF Output, DC Current and RF Input Power are all average values which reflect a 100% transmit duty cycle in CDMA operation.

The maximum RF output power is restricted to the 24.2 dBm. The RF output power is measured at the mobile station's antenna port.

Measured RF Output Power: 0.263 W (24.2 dBm)

Measured DC Voltage: 3.8 V

Measured DC Current: 635 mA

Measured RF input: 0.63mW (-2 dBm)

Effective Radiated Power:

Since the phone is intended for use with a provided antenna (and non-standard RF connector), ERP is measured. The dipole antenna substitution method was used. The result indicated is the maximum ERP found over the channels and radio orientations tested. The maximum was found in transmitting mode with the antenna in the extended position. The input supply to the transmitter was set at 3.8 Volts

Maximum EIRP is 0.218 W (23.38 dBm) in CDMA mode.

Maximum Effective Radiated Power (Relative to Half-Wavelength Dipole): 0.135 W (21.28 dBm)

Occupied Bandwidth in the CDMA Digital Mode

1. Spurious emission level : Modulate the transmitter with OQPSK modulation, using pseudo random data. Obtain image on spectrum analyzer. (Refer to IS98A, 10.4.2.1)

Deviation of the Carrier with OQPSK Modulation

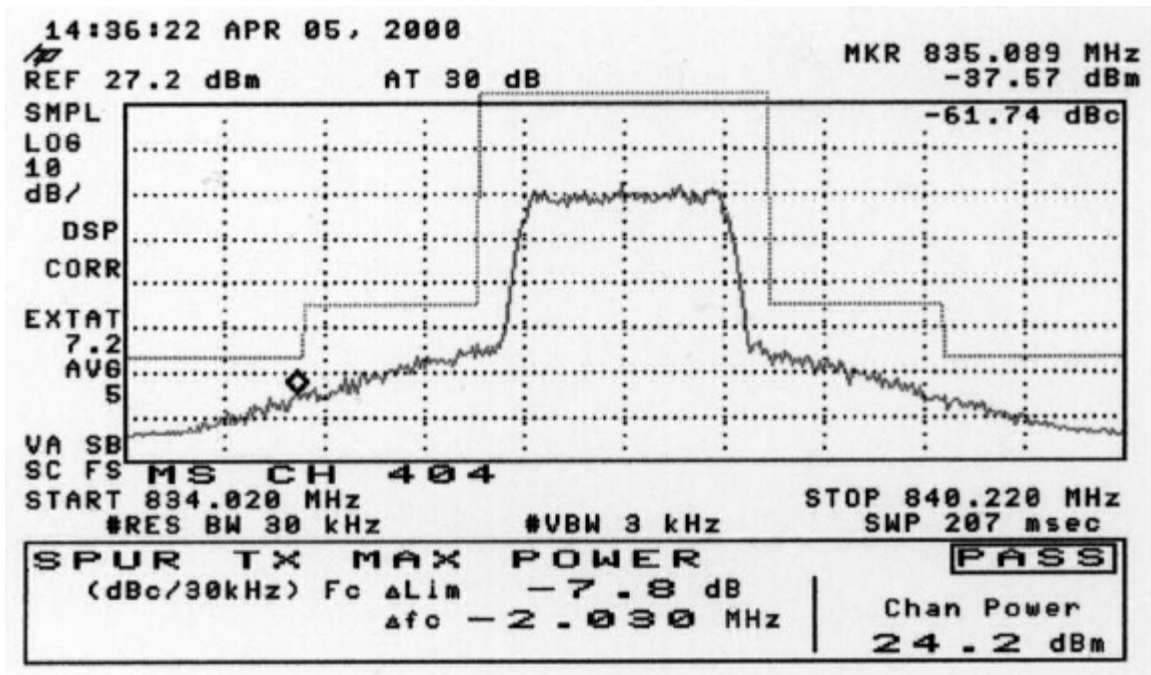
Horizontal Scale = 0.62 MHz/Division

Vertical Scale = 10 dB/Division(Attenuation)

Resolution Bandwidth =30 kHz

Power Level = 0.263 W (24.2 dBm)(Average power in transmitter)

Measured Data:



Comments:

Spurious emission level for frequency offset at greater than 885 kHz shall be at least -42 dBc/30kHz and level for frequency offset at greater than 1.98MHz shall be at least -54 dBc/30kHz.

2. Occupied Bandwidth should be less than 1.32 MHz.

Deviation of the Carrier with OQPSK Modulation

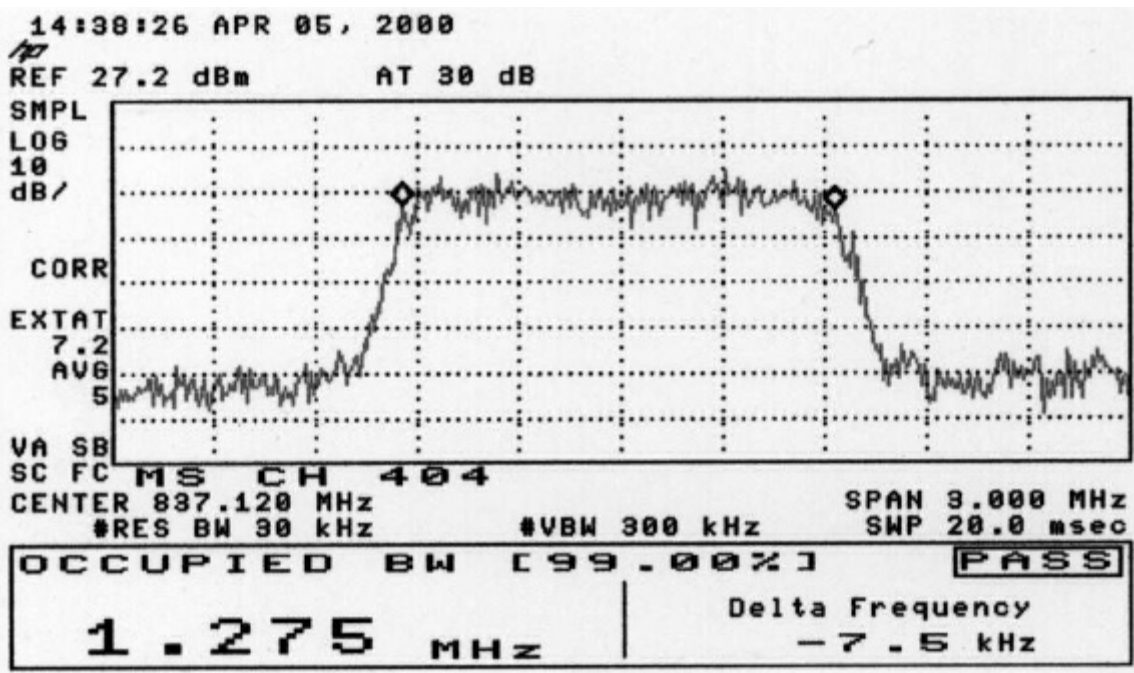
Horizontal Scale = 0.3 MHz/Division

Vertical Scale = 10 dB/Division(Attenuation)

Resolution Bandwidth =30 kHz

Occupied BW [99.00%] = 1.275 MHz

Measured Data:

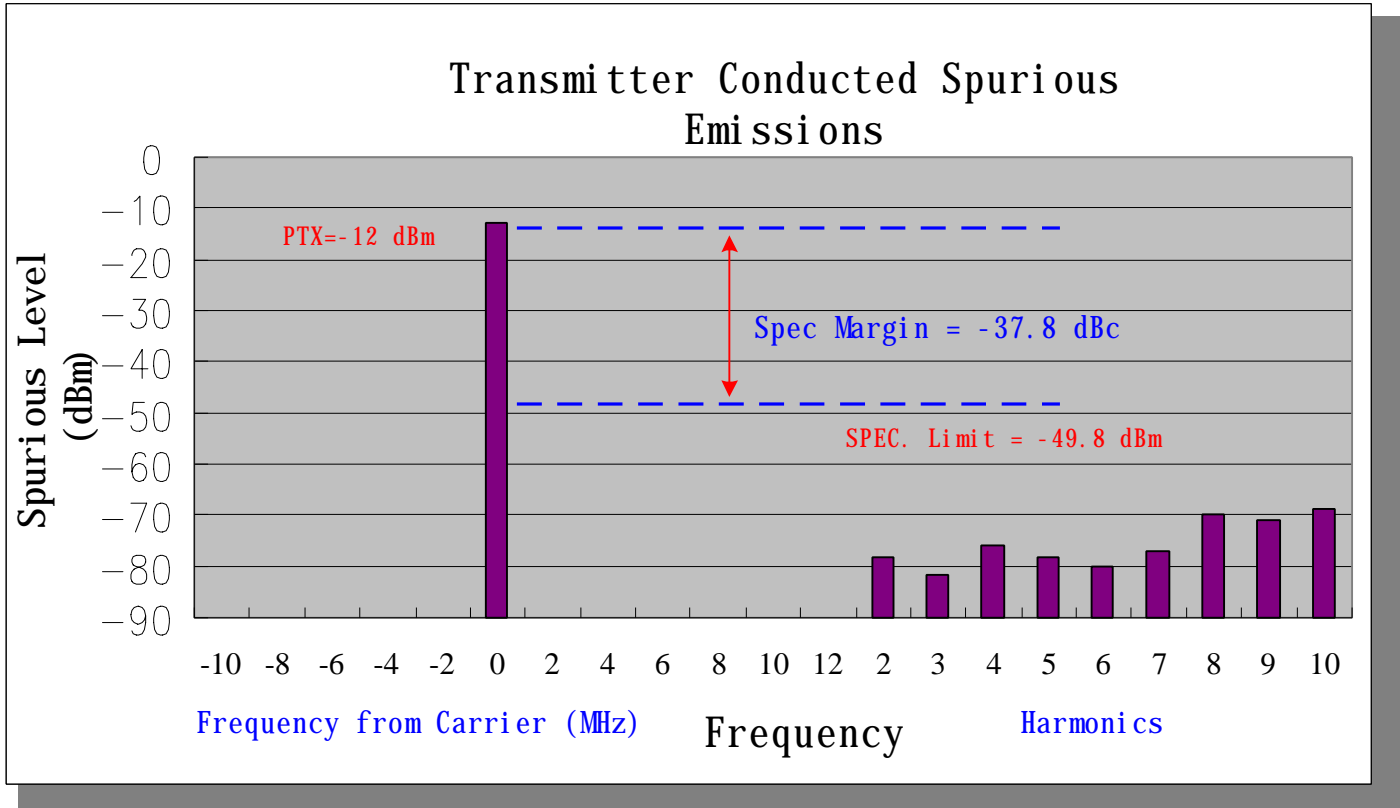


Conducted Spurious and Harmonic Emission

1. Transmitter Conducted Spurious Emission

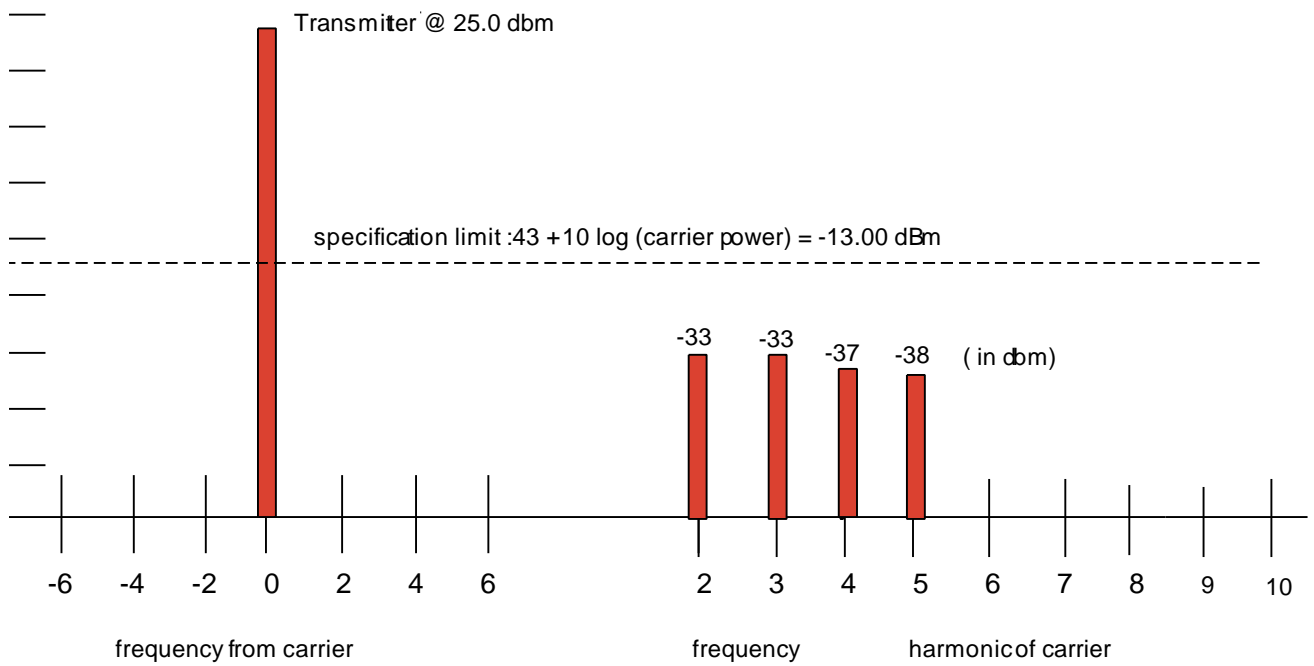
Carrier Power: 0.065 mW (-12 dBm)

Carrier Frequency: low(ch#=1011), mid(ch#=363), high(ch#=779) in 824.04 to 848.97 MHz

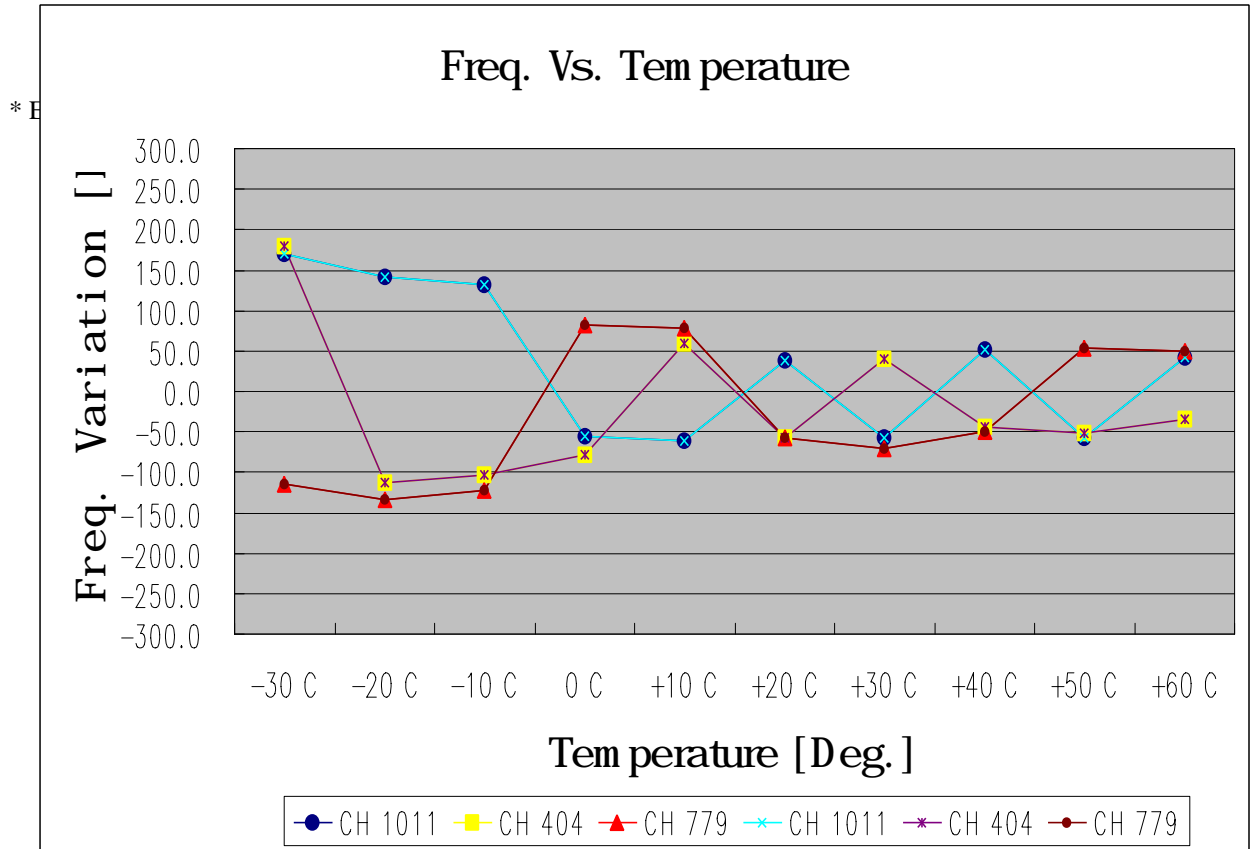


Radiated Spurious and Harmonic Emission

Transmitterconducted spurious emissions



Frequency Change vs. Temperature



Frequency Change vs. Voltage

