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RF POWER OUTPUT DATA

The input supply to the transmitter was set at 3.6 Volts. The RF power output was measured with the indicated voltage and current applied into the final RF amplifying device(s).

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.

Measured RF output: 0.251 W

Measured DC voltage: 3.6 V

Measured DC current: 641 mA

Measured RF input: 0.55 mW

EFFECTIVE ISOTROPIC RADIATED POWER

Since the unit is intended for use with a provided antenna (and “non standard” RF connector), EIRP is measured. The dipole antenna substitution method was used. The result indicated is the maximum EIRP found over the channels and radio orientations tested.

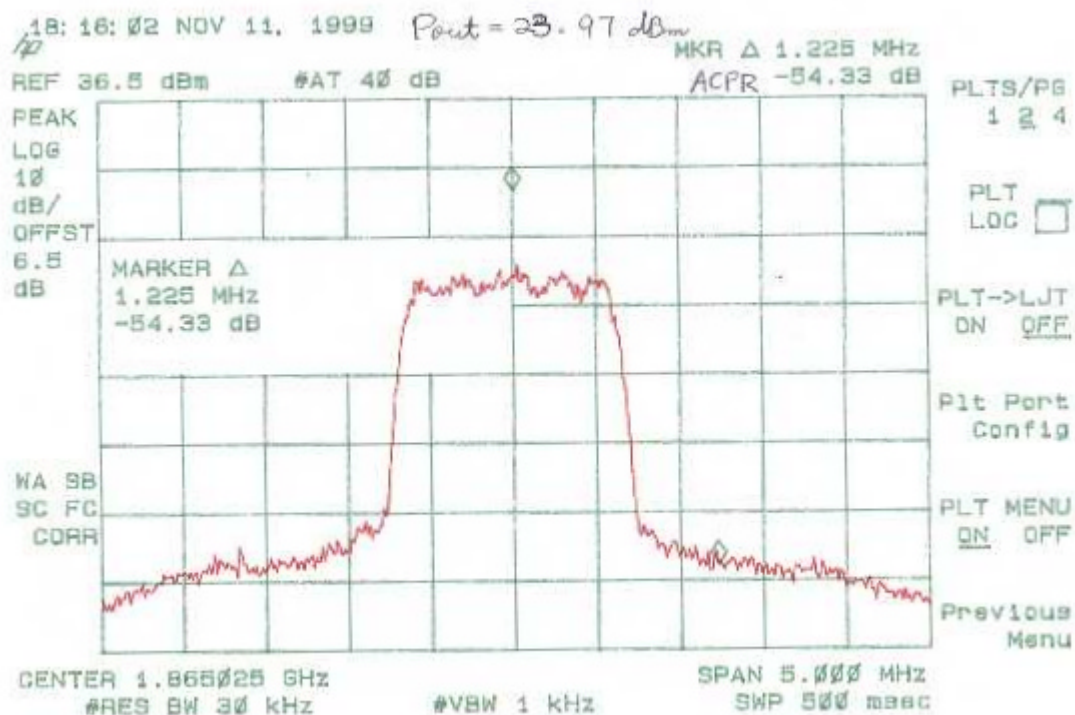
Maximum Effective Isotropic Radiated Power: 24.5 dBm (0.282 W)

BANDWIDTH MEASUREMENT DATA FOR TRANSMITTER TYPES F9W

DEVIATION OF THE CARRIER WITH OQPSK MODULATION

HORIZONTAL SCALE = 0.5 MHz / DIVISION
 VERTICAL SCALE = 10 dB / DIVISION (ATTENUATION)
 RESOLUTION BANDWIDTH = 30 kHz
 VIDEO BANDWIDTH = 1 kHz
 POWER LEVEL = 0.250W (Average Power in transmitter)

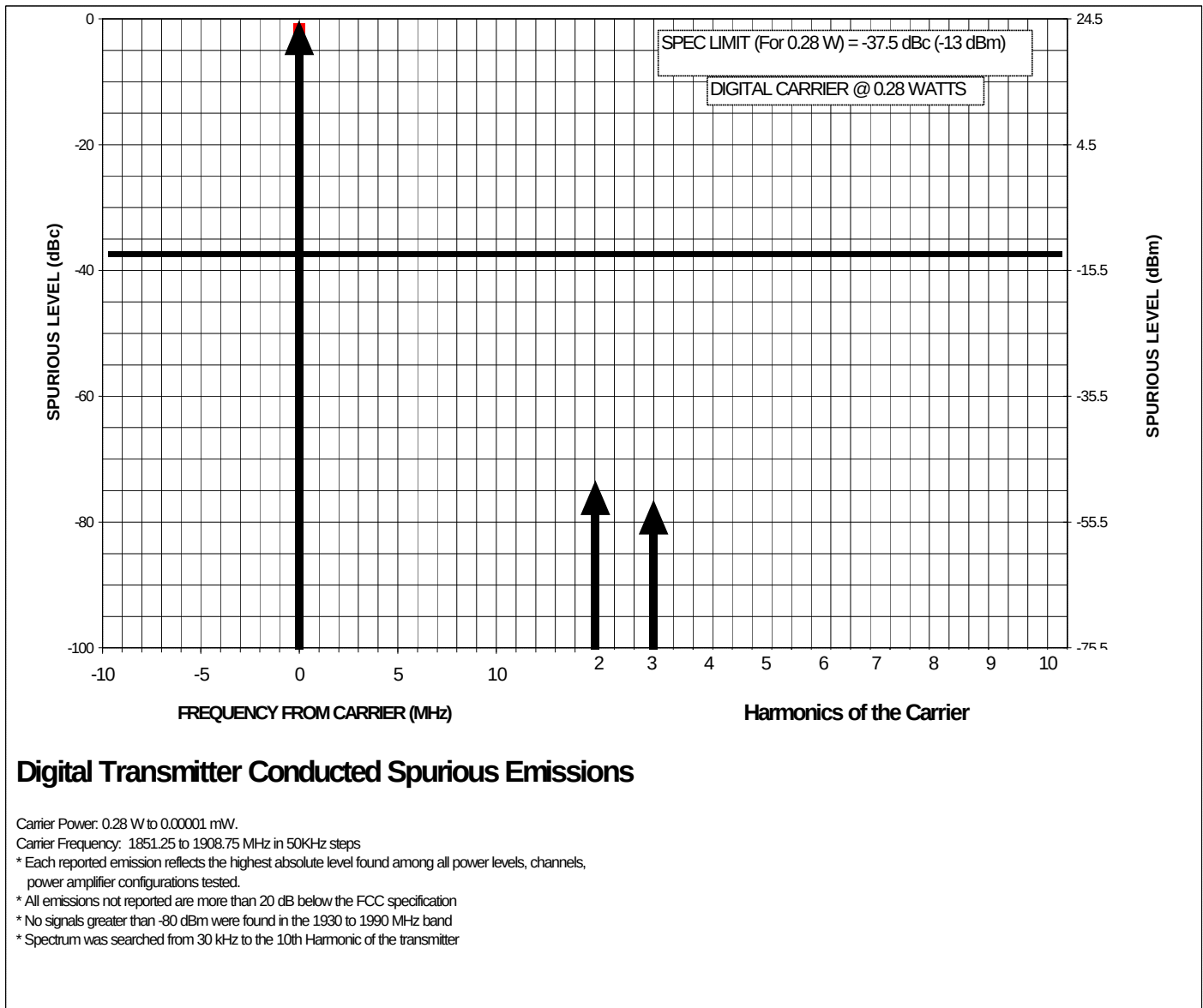
1. Modulate the transmitter with OQPSK modulation, using pseudo random data. Obtain image on spectrum analyzer.

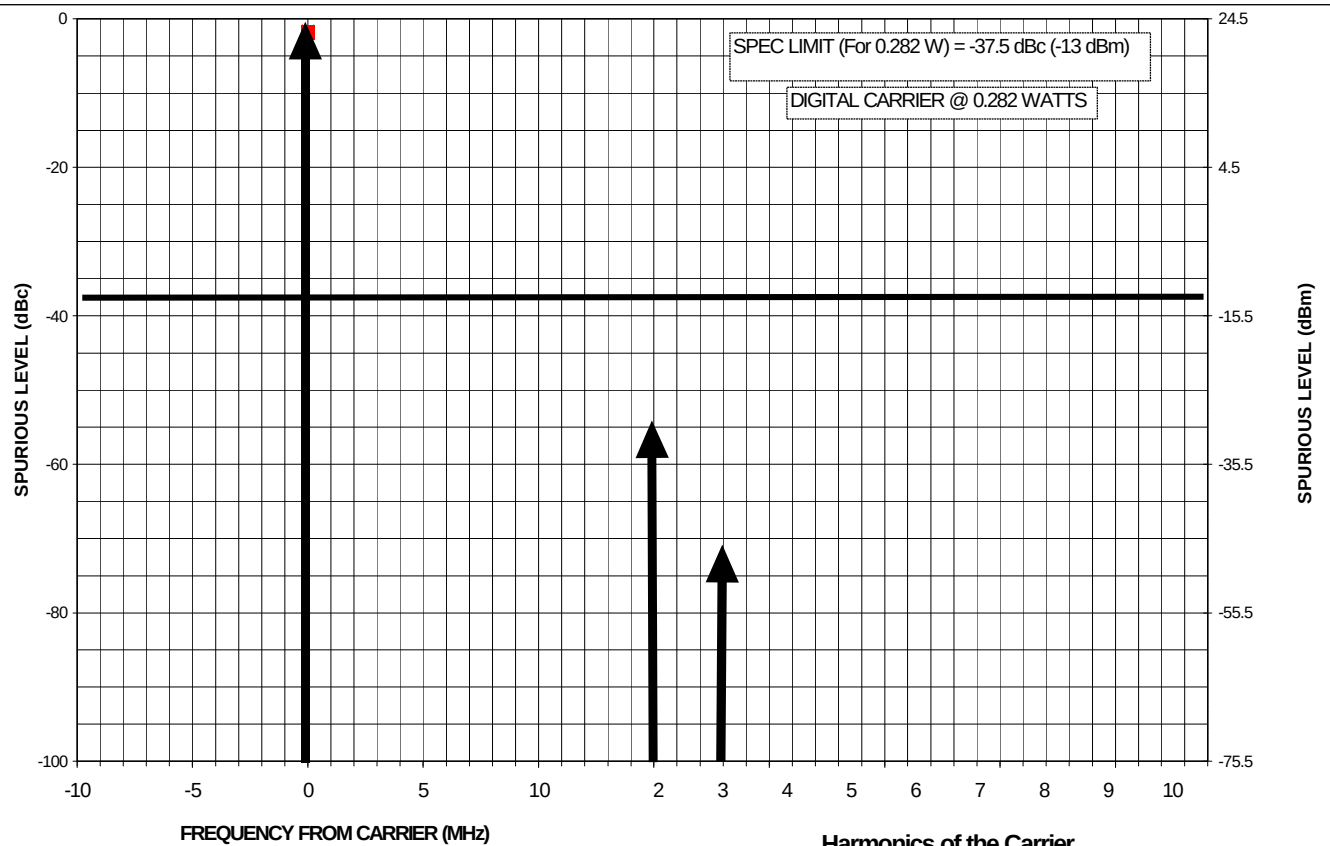


COMMENTS:

Modulation products in a bandwidth of 30 kHz, centered +/- 1.25 MHz from the channel center frequency, should be at least 42 dB below the mean output power level.

CONDUCTED SPURIOUS AND HARMONIC EMISSIONS – GRAPH



RADIATED SPURIOUS AND HARMONIC EMISSIONS –GRAPH**Digital Transmitter Radiated Spurious Emissions**

Carrier Power: 0.282 W to 0.00001 mW.

Carrier Frequency: 1851.25 to 1908.75 MHz in 50KHz steps

* Each reported emission reflects the highest absolute level found among all power levels, channels, power amplifier configurations tested.

* All emissions not reported are more than 20 dB below the FCC specification

* No signals greater than -80 dBm were found in the 1930 to 1990 MHz band

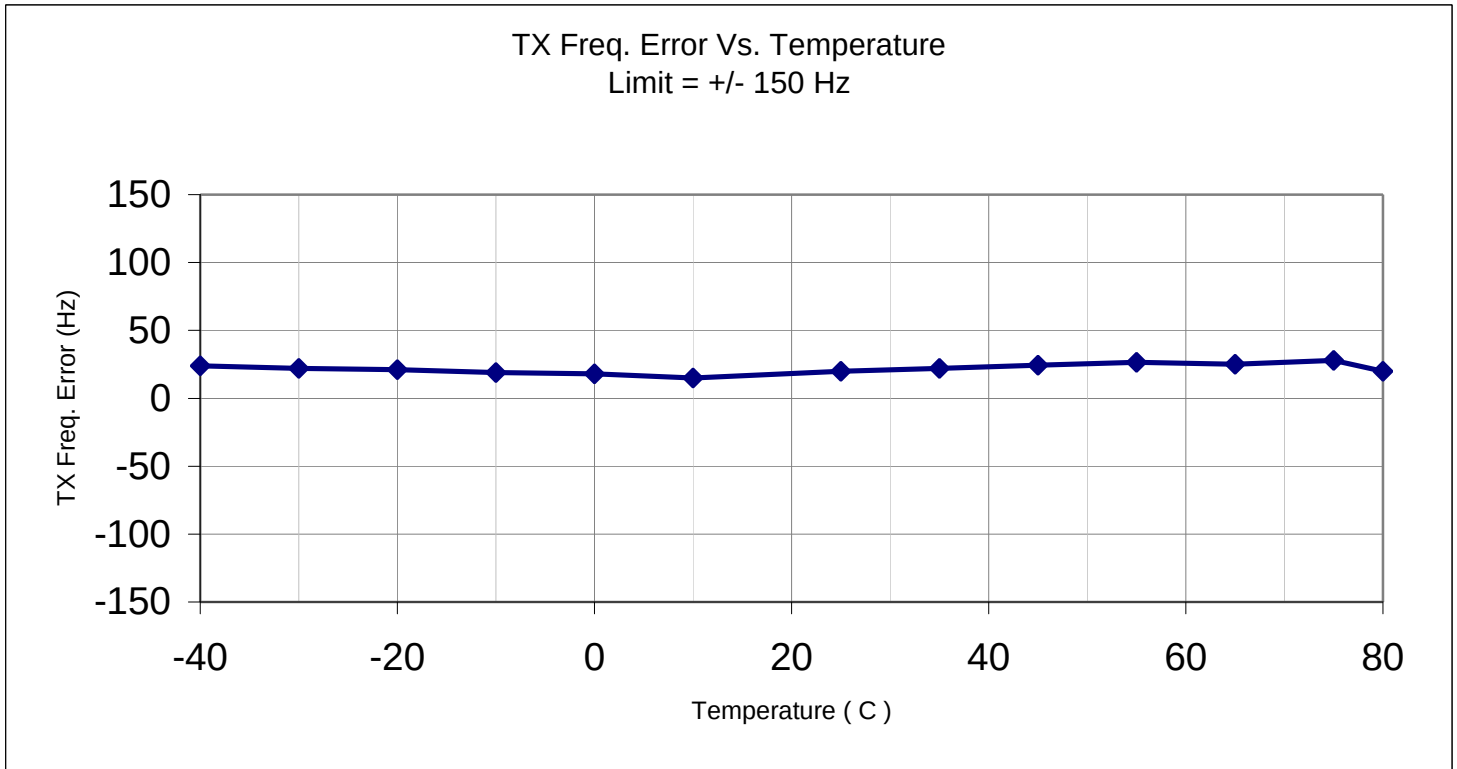
* Spectrum was searched from 30 kHz to the 10th Harmonic of the transmitter

Harmonics of the Carrier

Log Pages: 149023-149030

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Frequency Change vs. Temperature – Graph



Frequency Change vs. Supply Voltage - Graph

