SUBMITTED MEASURED DATA INDEX

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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).

ANALOG MODE

Measured RF output: 0.470W

Measured DC voltage: 3.6V

Measured DC current: 654mA.

Measured RF input: 4.48mW

DIGITAL MODE

In Digital Mode 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: 0.270W

Measured DC voltage: 3.6V

Measured DC current: 455mA.

Measured RF input: 2.32mW

EFFECTIVE RADIATED POWER

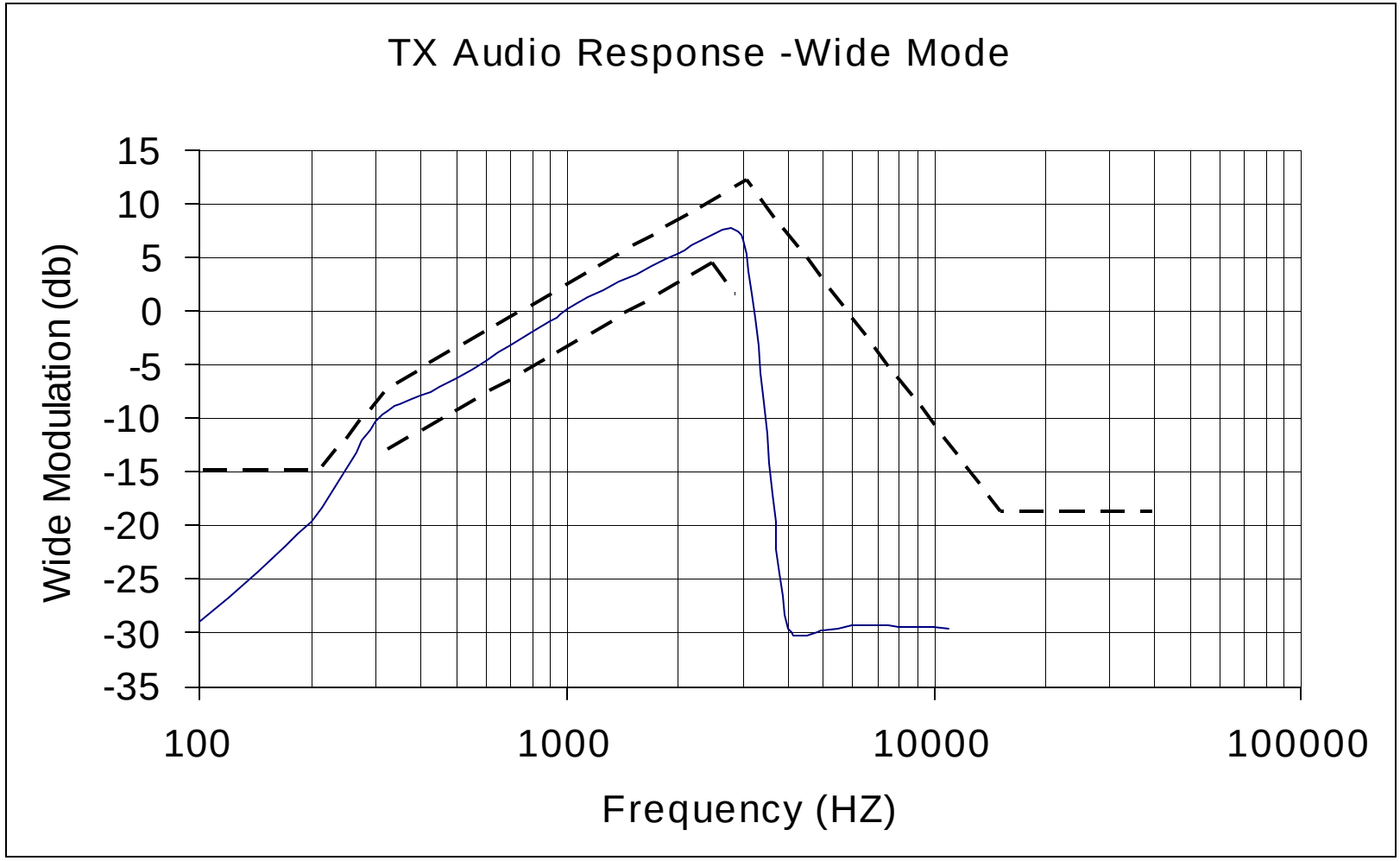
Since the unit is intended for use with a provided antenna (and "non standard" RF connector), ERP is measured. The dipole antenna substitution method was used. The result indicated is the maximum ERP found over the channels and radio orientations tested.

Maximum Effective Radiated Power: Analog Mode : 26.1dBm

AUDIO RESPONSE -GRAPH

Signature:

Date: 9/28/99



APPLICANT: MOTOROLA, INC. TRANSCEIVER TYPE: IHDT5ZS1

POST LIMITER LOW PASS FILTER RESPONSE -GRAPH

Signature:

Date: 9/28/99

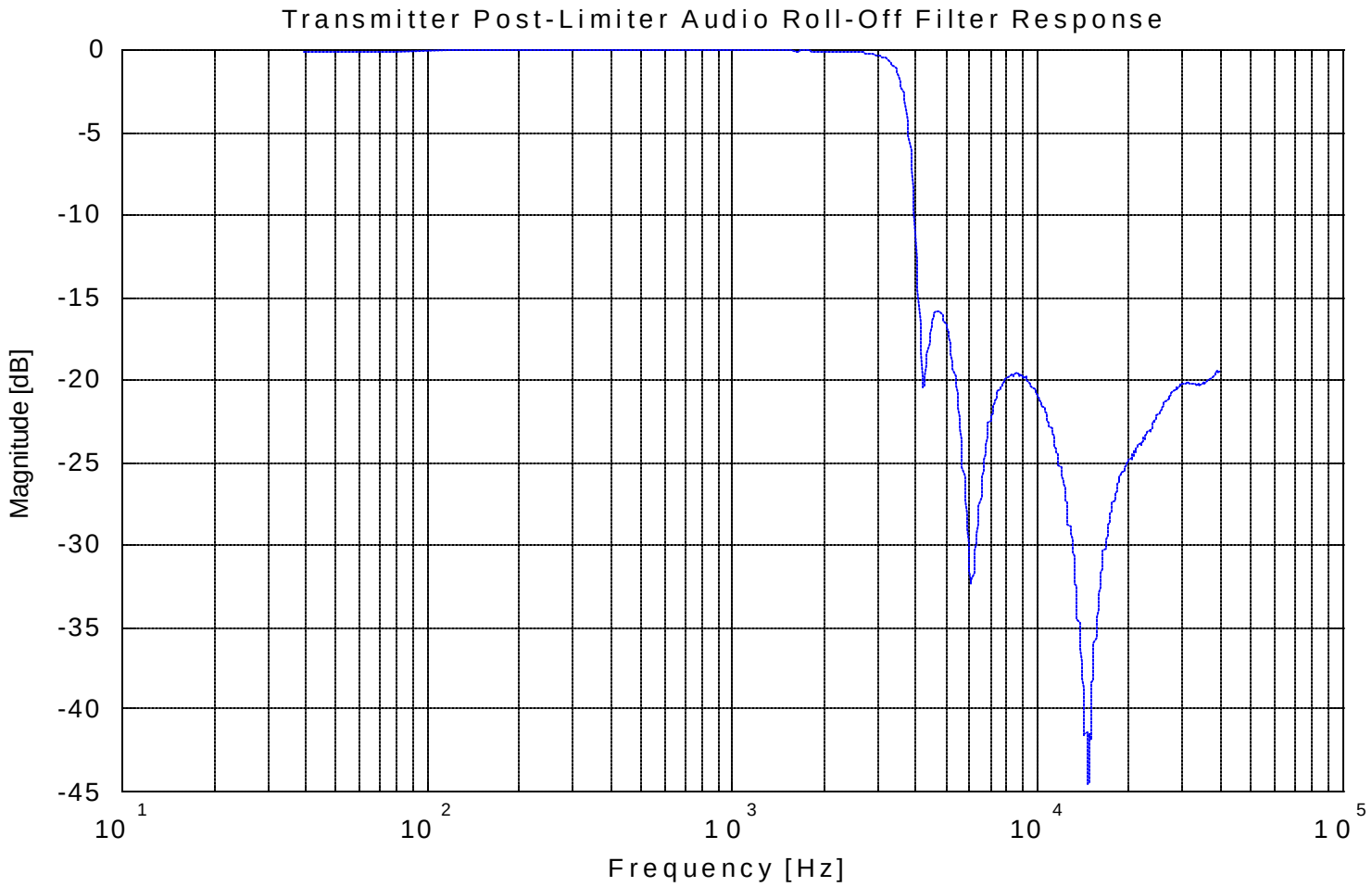


EXHIBIT 6C

APPLICANT: MOTOROLA, INC. TRANSCEIVER TYPE: IHDT5ZS1

SIGNALING CHANNEL AUDIO ROLL-OFF FILTER RESPONSE - GRAPH

Signature:

Date: 9/28/99

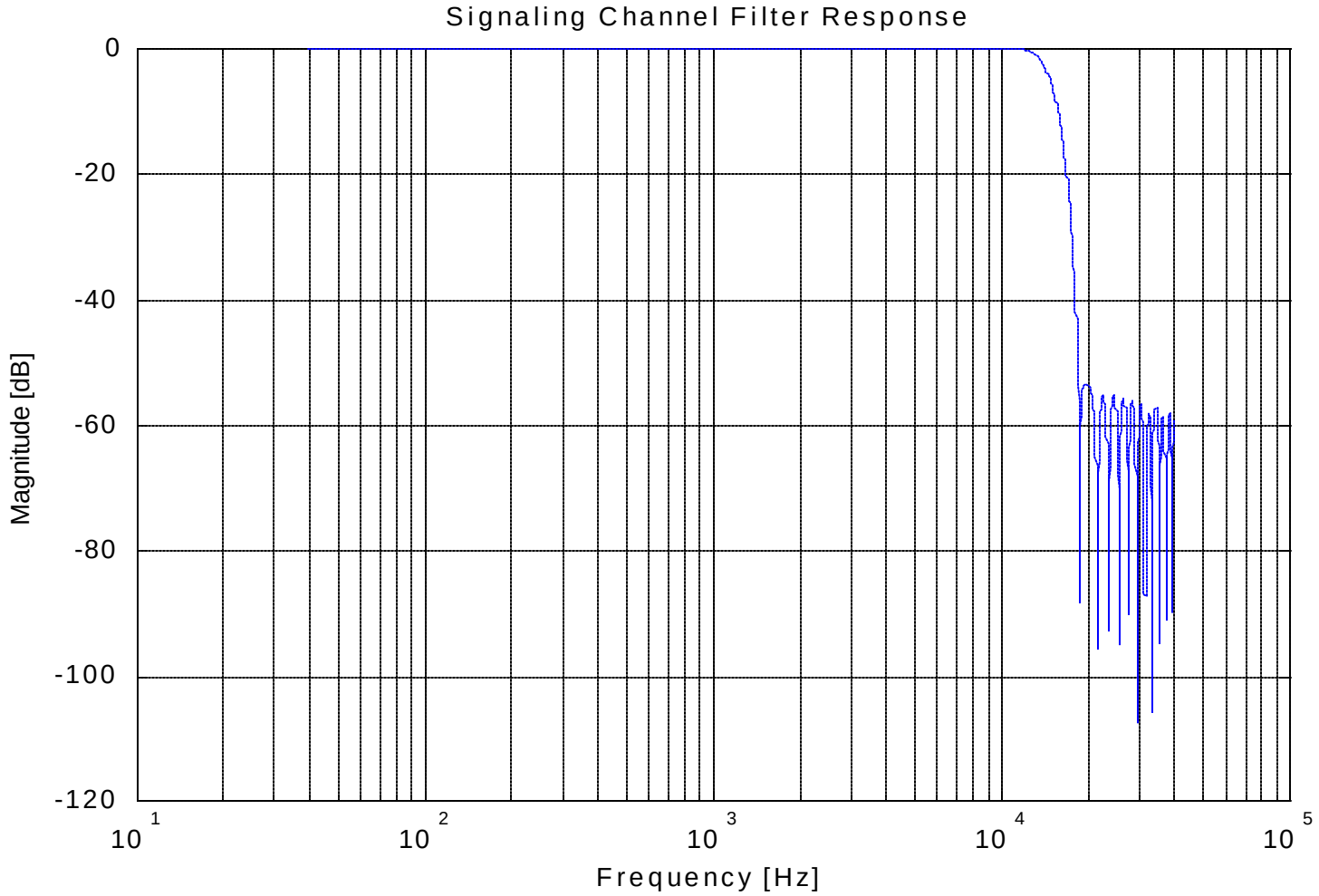


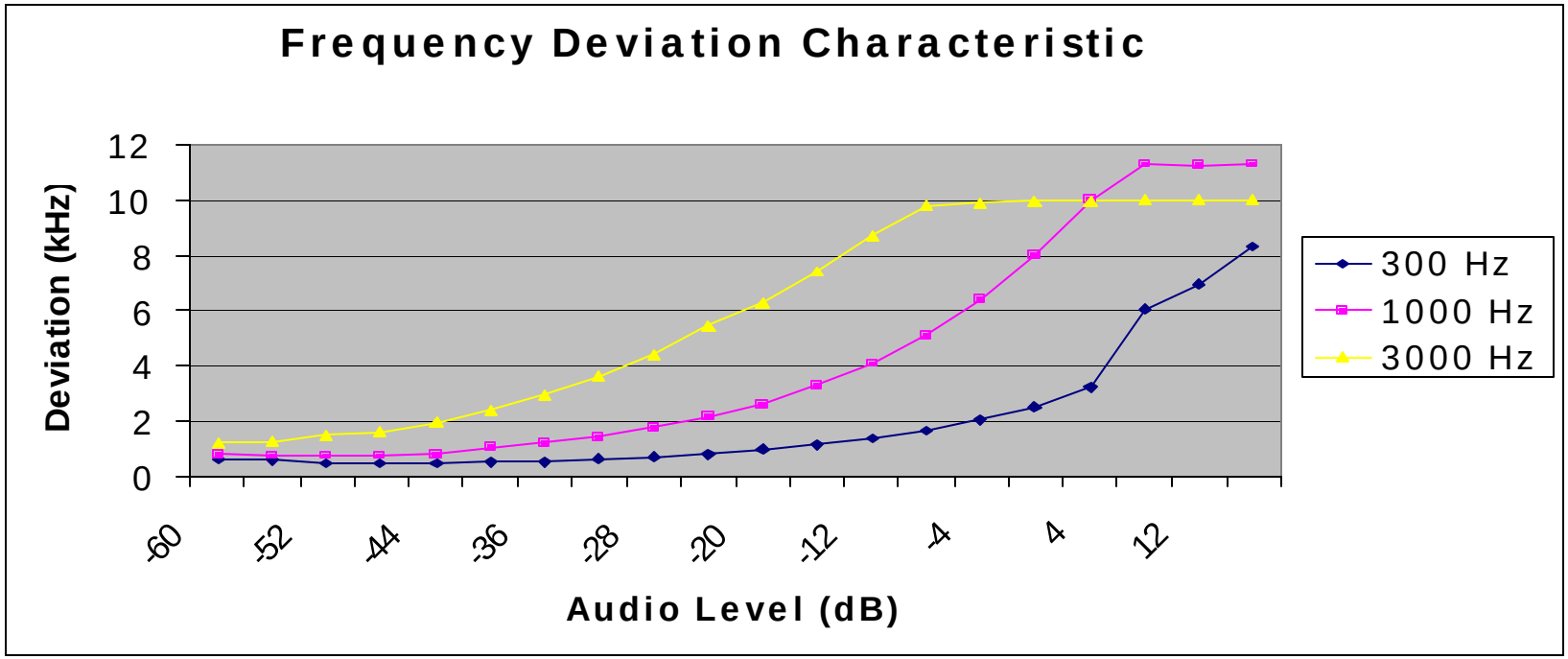
EXHIBIT 6D

MODULATION LIMITING (COMPANDOR IN) -GRAPH

Compander On
Wide Mode **0 dB Reference: 1004 Hz, 860 mV with 8.0 kHz deviation**
Channel 322
Pwr Lvl 2

Date: September 22, 1999
Log Pages: 111784-85

Signature:

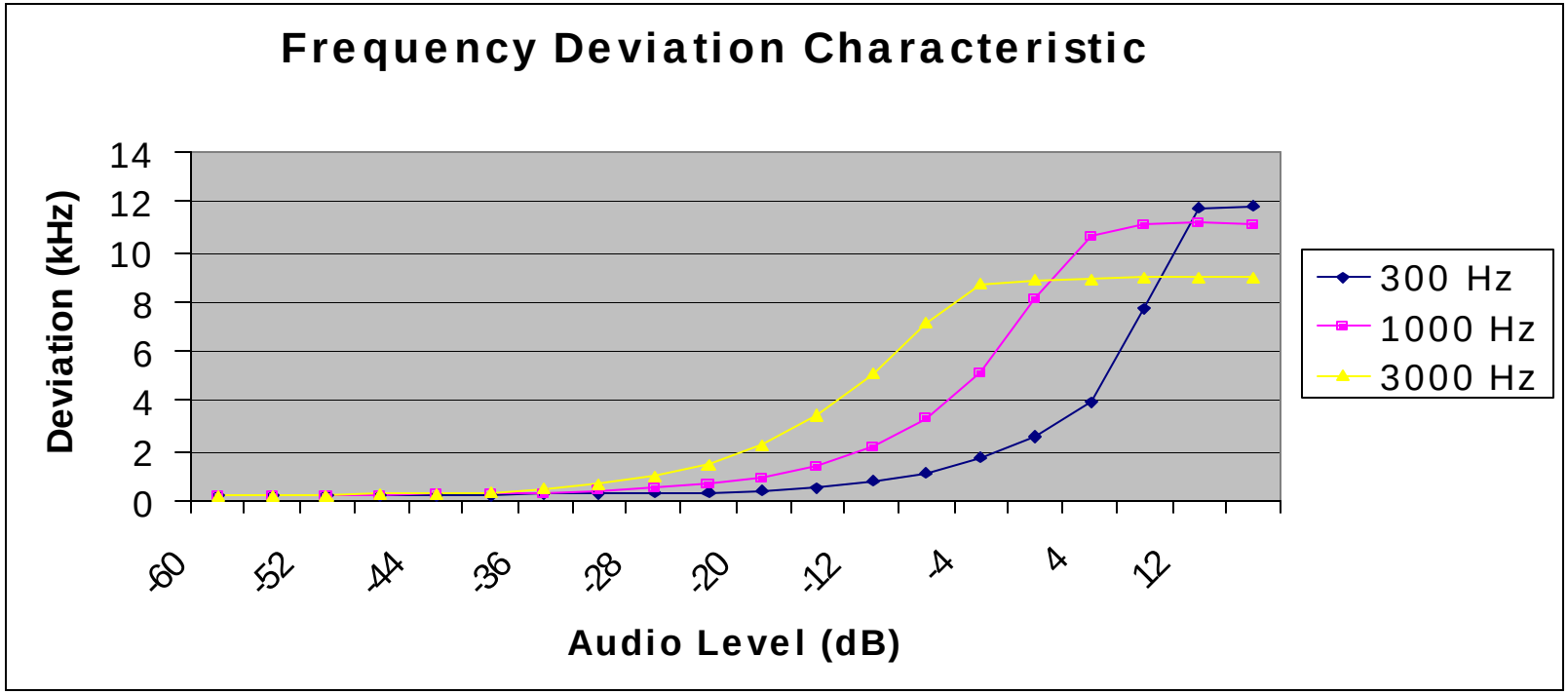


MODULATION LIMITING (COMPANDOR OUT) -GRAPH

Compander Off
Wide Mode **0 dB Reference: 1004 Hz, 300 mV with 8.0 kHz deviation**
Channel 322
Pwr Lvl 2

Date: October 7, 1999
Log Pages: 111784-85

Signature:



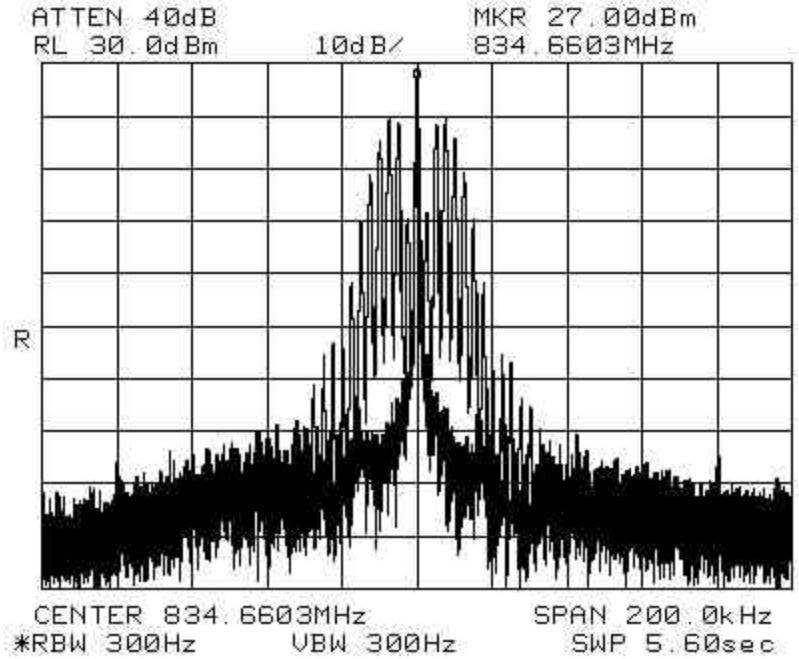
BANDWIDTH MEASUREMENT DATA FOR TRANSMITTER TYPES F8W

DEVIATION OF THE CARRIER WITH 2500 Hz AUDIO MODULATION

HORIZONTAL SCALE = 20 kHz / DIVISION
VERTICAL SCALE = 10 dB / DIVISION (REFERENCE LEVEL = 30 dBm)
RESOLUTION BANDWIDTH = 300 Hz
VIDEO BANDWIDTH = 300 Hz
AUDIO LEVEL = 16 dB GREATER THAN LEVEL REQUIRED TO PRODUCE +/- 6 kHz
POWER LEVEL = .501 W

MEASURED DATA: **Date: September 22, 1999**
Log Pages: 111784-86
Signature:

1. Instantaneous Deviation Control set for a maximum of +/- 12 kHz.
2. Tune and adjust to obtain unmodulated carrier on the spectrum analyzer. Save trace of the unmodulated carrier.
3. Modulate the transmitter with 2500 Hz tone, 16 dB greater than that required to produce +/- 6 kHz modulation. Photograph the sideband display while it is superimposed upon the unmodulated carrier.



Occupied Bandwidth,
Audio (Wide Mode)
Ch. 322

SPEC LIMITS:

a. On any frequency removed from the assigned carrier frequency by more than 20 kHz, up to and including 45 kHz, the sideband is at least 26 dB below the carrier.
b. On any frequency removed from the assigned carrier frequency by more than 45 kHz, up to the first multiple of the carrier frequency, the sideband is at least 60 dB below the carrier or 63 + 10log (mean output power in Watts) dB, whichever is the smaller attenuation.

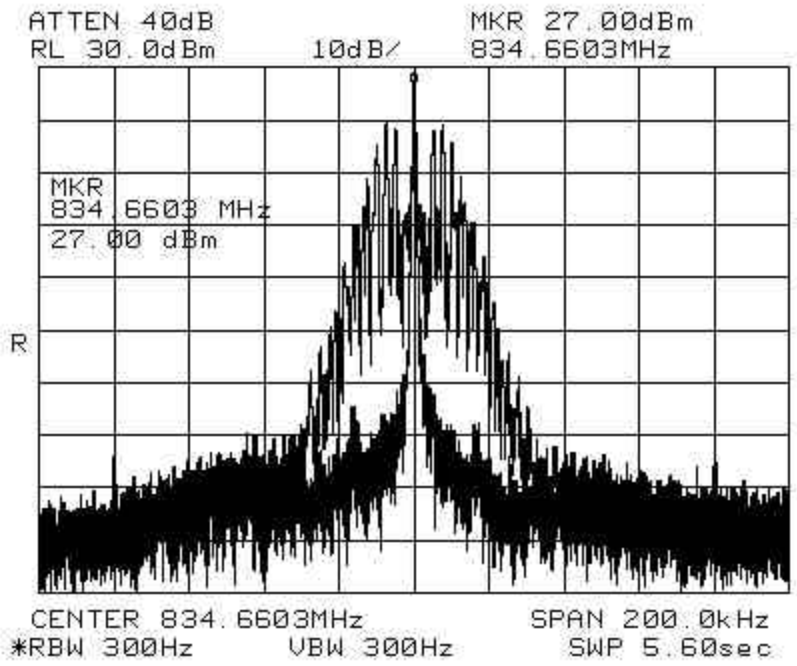
BANDWIDTH MEASUREMENT DATA FOR TRANSMITTER TYPES F8W

DEVIATION OF THE CARRIER WITH 2500 Hz AUDIO MODULATION AND SUPERVISORY AUDIO TONE

HORIZONTAL SCALE = 20 kHz / DIVISION
VERTICAL SCALE = 10 dB / DIVISION (REFERENCE LEVEL = 30 dBm)
RESOLUTION BANDWIDTH = 300 Hz
VIDEO BANDWIDTH = 300 Hz
AUDIO LEVEL = 16 dB GREATER THAN LEVEL REQUIRED TO PRODUCE +/- 6 kHz
POWER LEVEL = .501 W

MEASURED DATA: **Date: September 22, 1999**
Log Pages: 111784-86
Signature:

1. Instantaneous Deviation Control set for a maximum of +/- 12 kHz.
2. Tune and adjust to obtain unmodulated carrier on the spectrum analyzer. Save trace of the unmodulated carrier.
3. Modulate the transmitter with 2500 Hz tone, 16 dB greater than that required to produce +/- 6 kHz modulation and add SAT with +/- 2 kHz of deviation. Photograph the sideband display while it is superimposed upon the unmodulated carrier.



Occupied Bandwidth, Audio and SAT Ch.322

SPEC LIMITS:

a. On any frequency removed from the assigned carrier frequency by more than 20 kHz, up to and including 45 kHz, the sideband is at least 26 dB below the carrier.
b. On any frequency removed from the assigned carrier frequency by more than 45 kHz, up to the first multiple of the carrier frequency, the sideband is at least 60 dB below the carrier or 63 + 10log (mean output power in Watts) dB, whichever is the smaller attenuation.

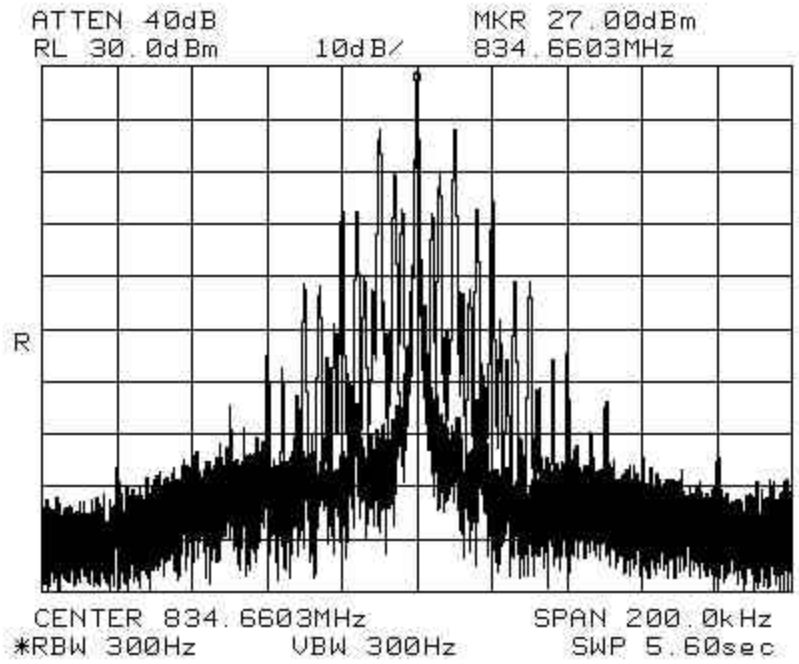
BANDWIDTH MEASUREMENT DATA FOR TRANSMITTER TYPES F1D

DEVIATION OF THE CARRIER WITH 10 kHz SIGNALING TONE AND SUPERVISORY AUDIO TONE

HORIZONTAL SCALE = 20 kHz / DIVISION
VERTICAL SCALE = 10 dB / DIVISION (REFERENCE LEVEL = 30 dBm)
RESOLUTION BANDWIDTH = 300 Hz
VIDEO BANDWIDTH = 300 Hz
POWER LEVEL = .501 W

MEASURED DATA: **Date: September 22, 1999**
Log Pages: 111784-86
Signature:

1. Instantaneous Deviation Control set for a maximum of +/- 12 kHz.
2. Tune and adjust to obtain unmodulated carrier on the spectrum analyzer. Save trace of the unmodulated carrier.
3. Modulate the transmitter with signaling tone with +/- 8 kHz deviation and add SAT with +/- 2 kHz of deviation. Photograph the sideband display while it is superimposed upon the unmodulated carrier.



Occupied Bandwidth, Signaling Tone and SAT Ch. 322

SPEC LIMITS:

a. On any frequency removed from the assigned carrier frequency by more than 20 kHz, up to and including 45 kHz, the sideband is at least 26 dB below the carrier.
b. On any frequency removed from the assigned carrier frequency by more than 45 kHz, up to and including 90 kHz, the sideband is at least 45 dB below the carrier.
c. On any frequency removed from the assigned carrier frequency by more than 90 kHz, up to the first multiple of the carrier frequency, the sideband is at least 60 dB below the carrier or 63 + 10log (mean output power in Watts) dB, whichever is the smaller attenuation.

BANDWIDTH MEASUREMENT DATA FOR TRANSMITTER TYPES F1D

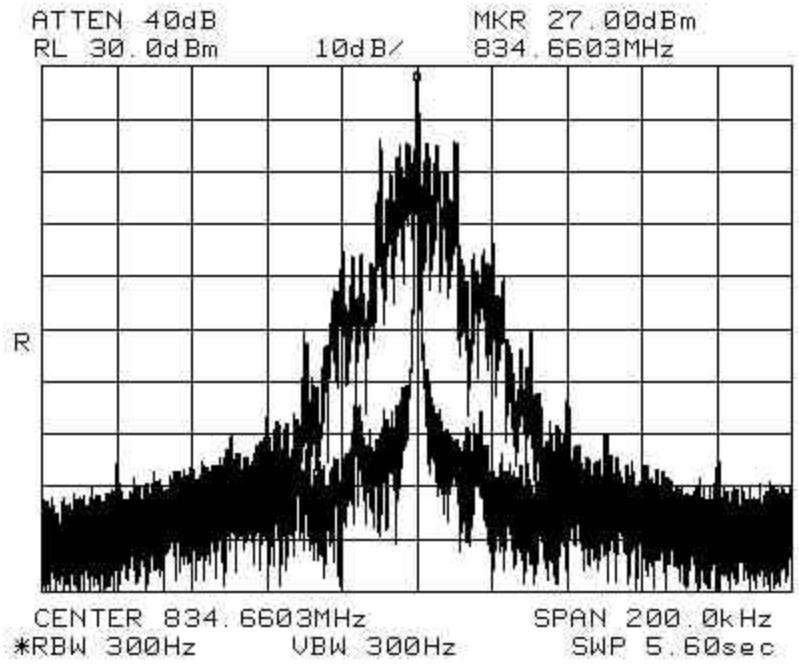
DEVIATION OF THE CARRIER WITH WIDE BAND DATA

HORIZONTAL SCALE = 20 kHz / DIVISION
VERTICAL SCALE = 10 dB / DIVISION (REFERENCE LEVEL = 30 dBm)
RESOLUTION BANDWIDTH = 300 Hz
VIDEO BANDWIDTH = 300 Hz
POWER LEVEL = .501 W

MEASURED DATA:

Date: September 22, 1999
Log Pages: 111784-86
Signature:

1. Instantaneous Deviation Control set for a maximum of +/- 12 kHz.
2. Tune and adjust to obtain unmodulated carrier on the spectrum analyzer. Save trace of the unmodulated carrier.
3. Modulate the transmitter with wide band data with +/- 8 kHz of deviation. Photograph the sideband display while it is superimposed upon the unmodulated carrier.



Occupied Bandwidth,
Wideband Data
Ch. 322

SPEC LIMITS:

a. On any frequency removed from the assigned carrier frequency by more than 20 kHz, up to and including 45 kHz, the sideband is at least 26 dB below the carrier.
b. On any frequency removed from the assigned carrier frequency by more than 45 kHz, up to and including 90 kHz, the sideband is at least 45 dB below the carrier
c. On any frequency removed from the assigned carrier frequency by more than 90 kHz, up to the first multiple of the carrier frequency, the sideband is at least 60 dB below the carrier or 63 + 10log (mean output power in Watts) dB, whichever is the smaller attenuation

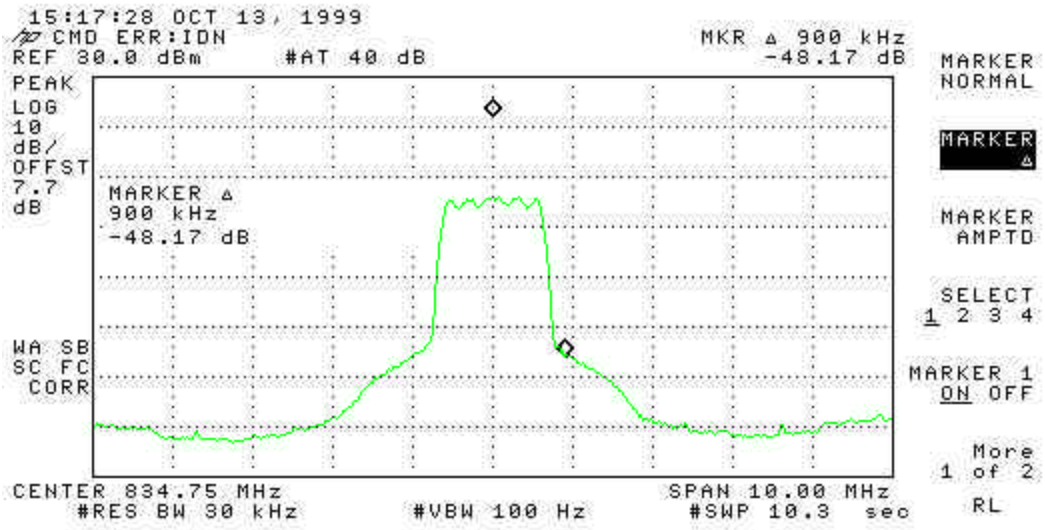
BANDWIDTH MEASUREMENT DATA FOR TRANSMITTER TYPES F9W

DEVIATION OF THE CARRIER WITH OQPSK MODULATION

HORIZONTAL SCALE = 1MHz / DIVISION
VERTICAL SCALE = 10 dB / DIVISION (ATTENUATION)
RESOLUTION BANDWIDTH = 30 kHz
VIDEO BANDWIDTH = 100 Hz
POWER LEVEL = 0.316W (Average Power in transmitter)

MEASURED DATA: Date: October 13, 1999
Log Book Page: 018827
Signature:

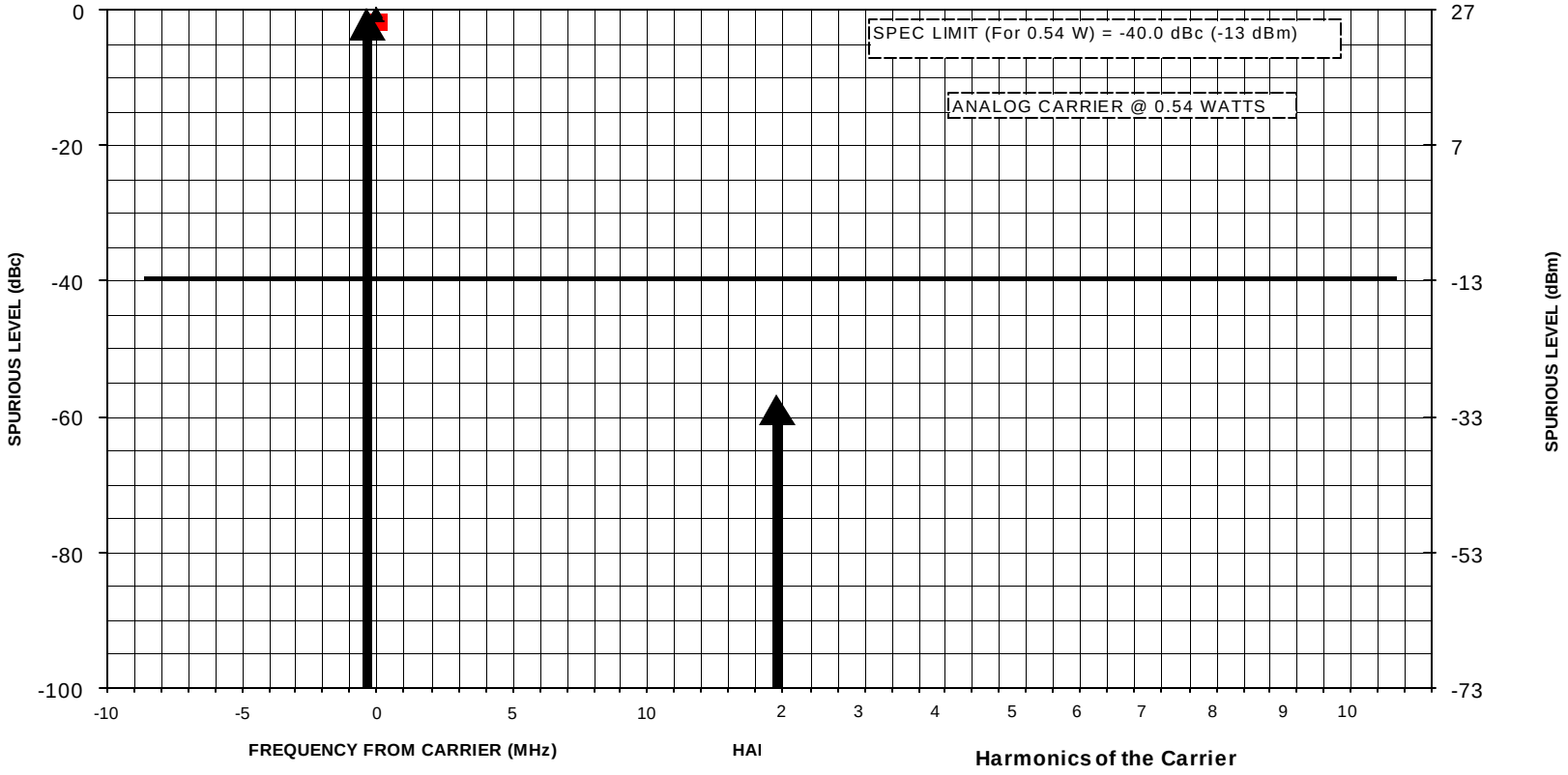
1. Modulate the transmitter with OQPSK modulation, using pseudo random data. Obtain image on spectrum analyzer.



COMMENTS:

Modulation products in a bandwidth of 30 kHz ,centered +/- 1.25 MHz from the channel center frequency should be at least 45 dB and should be at least 42 dB below the mean output power level.

ANALOG CONDUCTED SPURIOUS AND HARMONIC EMISSIONS – GRAPH

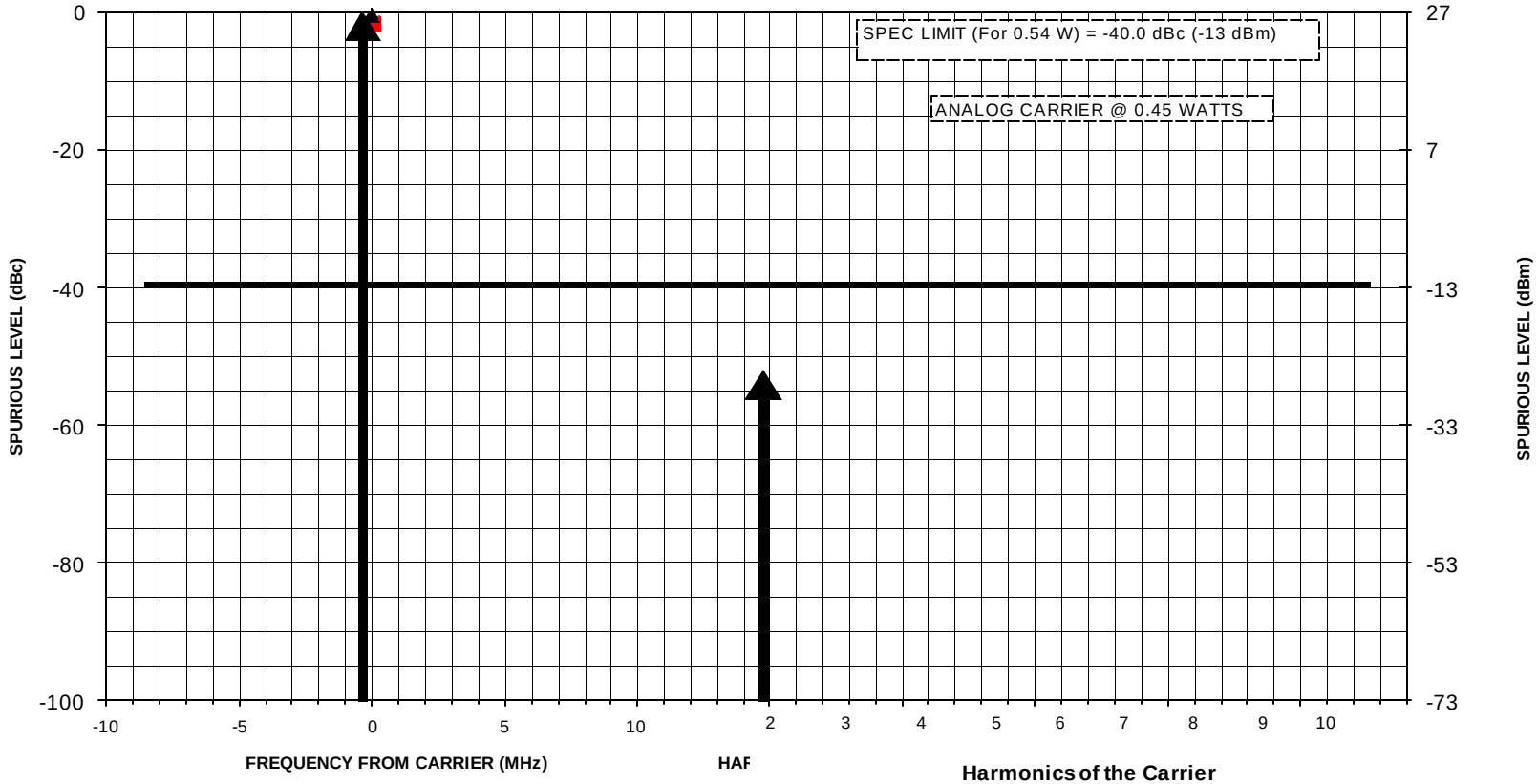


Log Pages: 018829
Date: 10/14/1999

Transmitter Radiated Spurious Emissions

Carrier Power: 0.54 W to 4.8 mW in 4 dB steps.
Carrier Frequency: 824.04 to 848.97 MHz in 30 kHz 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 869 to 894 MHz band
* Spectrum was searched from 30 kHz to the 10th Harmonic of the transmitter

DIGITAL CONDUCTED SPURIOUS AND HARMONIC EMISSIONS – GRAPH

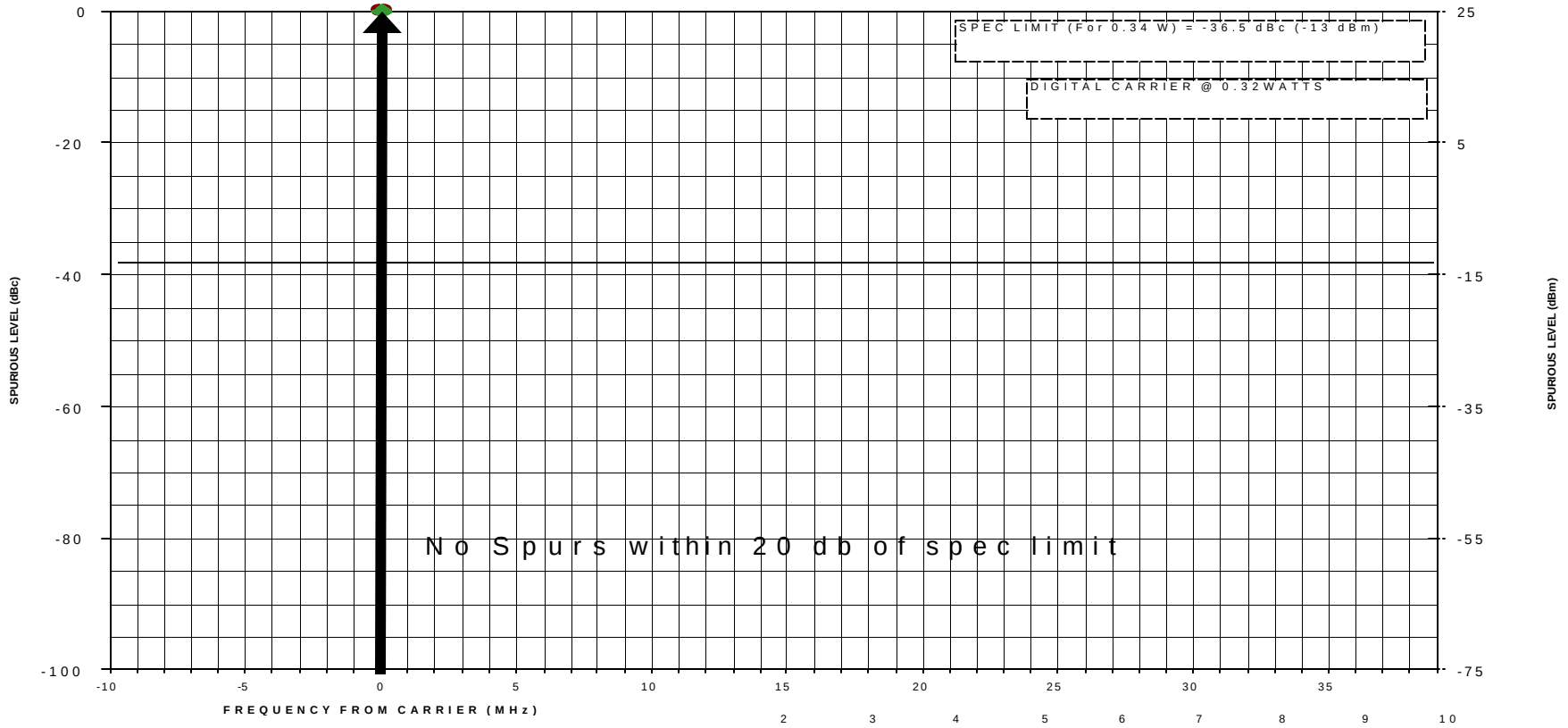


Log Pages: 149015 to 149022
Date: 10/11/1999

Transmitter Radiated Spurious Emissions

Carrier Power: 0.54 W to 4.8 mW in 4 dB steps.
Carrier Frequency: 824.04 to 848.97 MHz in 30 kHz 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 869 to 894 MHz band
* Spectrum was searched from 30 kHz to the 10th Harmonic of the transmitter

ANALOG RADIATED SPURIOUS AND HARMONIC EMISSIONS - GRAPH

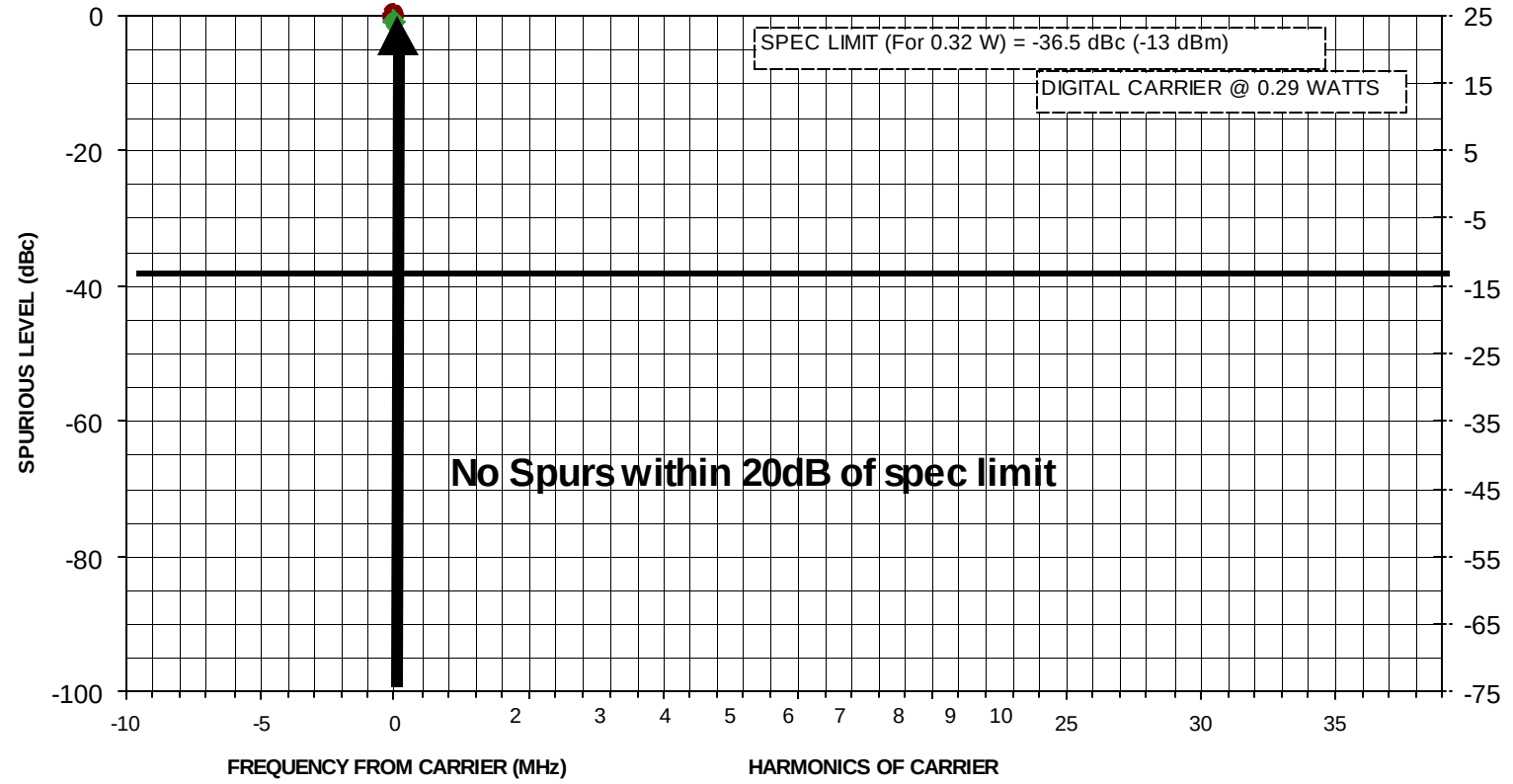


Digital Transmitter Conducted Spurious Emissions

Carrier Power: 0.34 W to 0.00001 mW.
Carrier Frequency: 824.7 to 848.31 MHz in 1.25MHz 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 869 to 894 MHz band
* Spectrum was searched from 30 kHz to the 10th Harmonic of the transmitter

Log Page:018829
Date: 10/14/1999

DIGITAL RADIATED SPURIOUS AND HARMONIC EMISSIONS –GRAPH

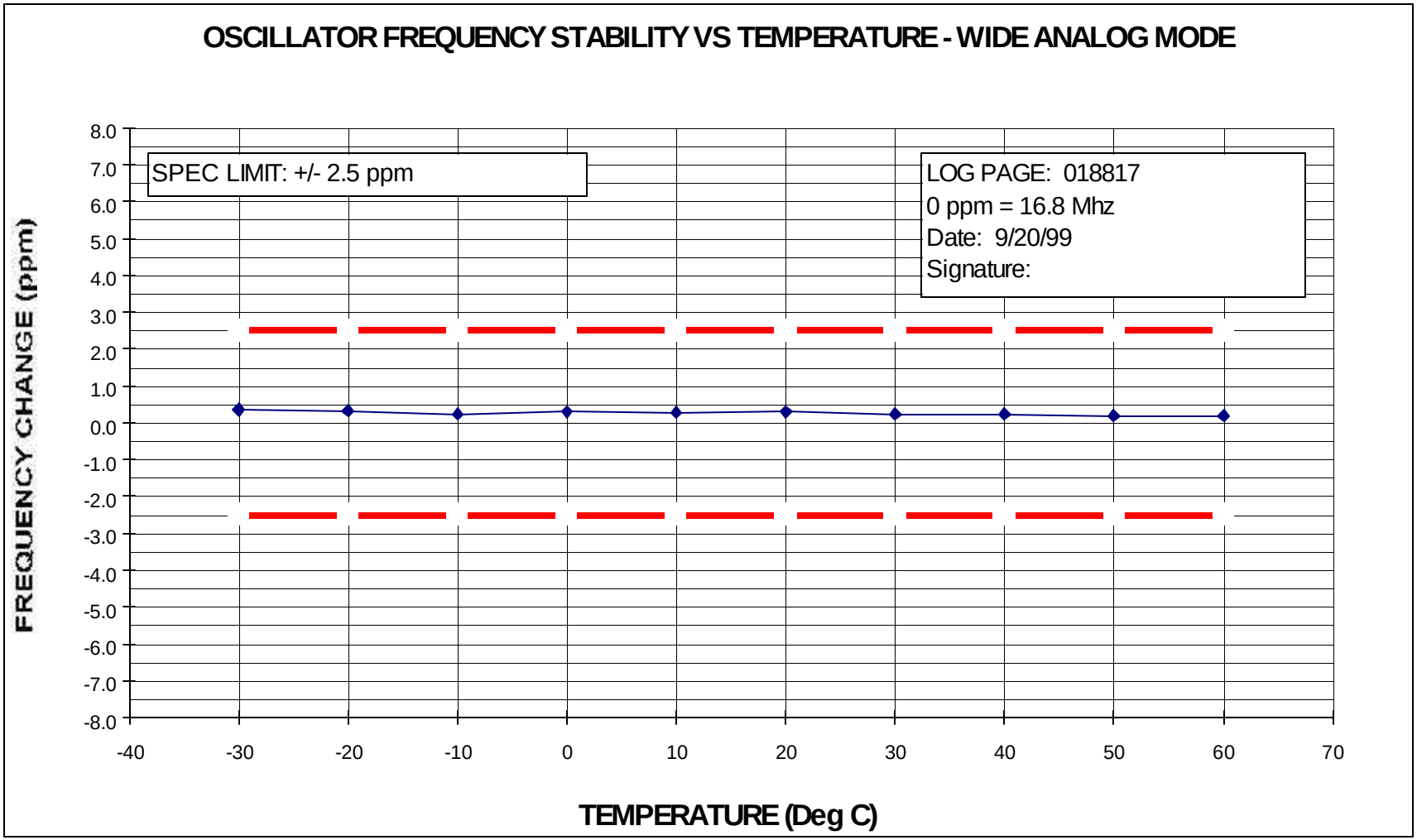


Log Pages:149031 to 149045
Date: 10/12/99

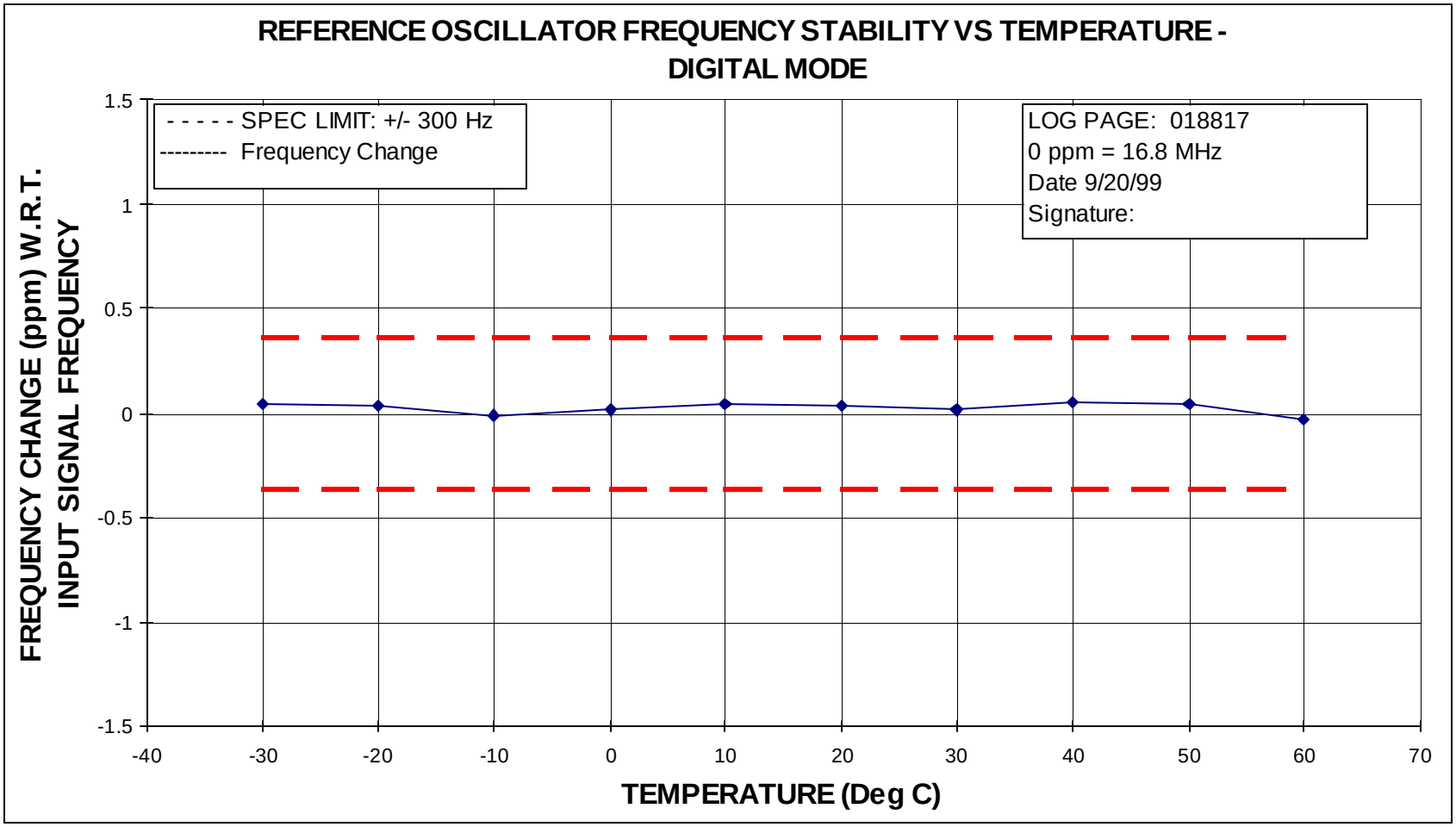
Transmitter Radiated Spurious Emissions

Carrier Power: 0.29 W to 0.00001 mW.
Carrier Frequency: 824.7 to 848.31 MHz in 1.25MHz 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 869 to 894 MHz band
* Spectrum was searched from 30 kHz to the 10th Harmonic of the transmitter

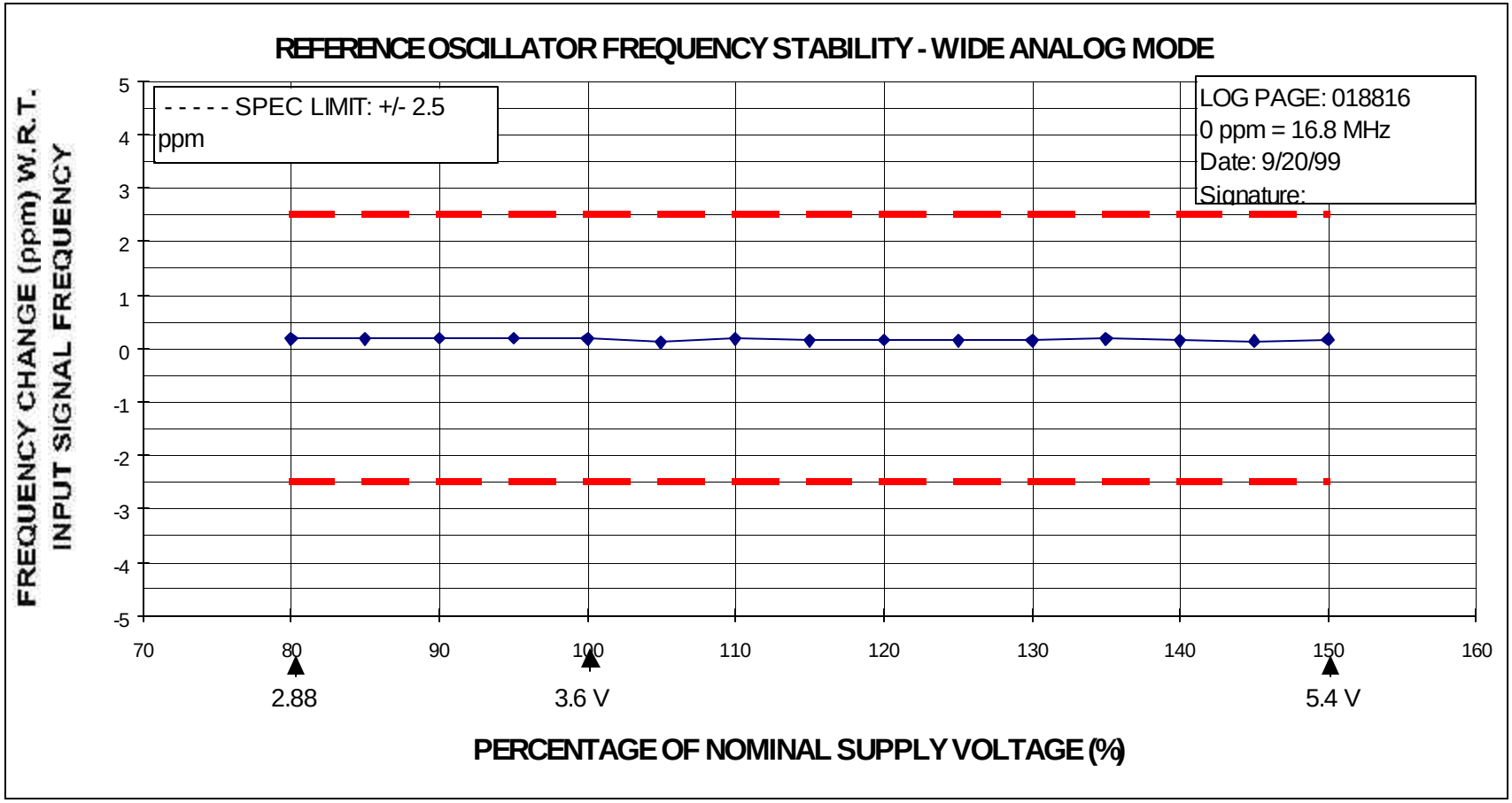
Frequency Change vs. Temperature (Wide Mode)-Graph



Frequency Change vs. Temperature (Digital Mode)-Graph



Frequency Change vs. Supply Voltage (Wide Mode)-Graph



Frequency Change vs. Supply Voltage (Digital Mode)-Graph