INDEX OF SUBMITTED MEASURED DATA

This exhibit contains the measured data for this equipment as follows:

EXHIBIT 6A - RF Power Output (Table)

EXHIBIT 6B - Transmit Audio Response

EXHIBIT 6C - Transmit Audio Post Limiter Lowpass Filter Response

EXHIBIT 6D - Modulation Limiting Characteristics (3 Graphs)
- 6D-1 - Carrier Squelch Mode
- 6D-2 - Tone Private Line (TPL) Mode
- 6D-3 - Digital Private Line (DPL) Mode

EXHIBIT 6E - Occupied Bandwidth (9 Spectrum Analyzer Plots)
- 6E-1 - 2500 Hz Audio Modulation Only
- 6E-2 - 2500 Hz Audio and PL Tone Modulation
- 6E-3 - 2500 Hz Audio and DPL Modulation
- 6E-4 - DTMF Modulation Only
- 6E-5 - DTMF Modulation and PL Tone Modulation
- 6E-6 - DTMF Modulation and DPL Modulation
- 6E-7 - 2000/3000 Hz FSK Data Modulation Only
- 6E-8 - 2000/3000 Hz FSK Data and PL Tone Modulation
- 6E-9 - 2000/3000 Hz FSK Data and DPL Tone Modulation

EXHIBIT 6F - Conducted Spurious Emissions (6 Graphs)
- 6F-1 - 72 Watts, 30.100 MHz
- 6F-2 - 72 Watts, 33.100 MHz
- 6F-3 - 72 Watts, 35.900 MHz
- 6F-4 - 40 Watts, 30.100 MHz
- 6F-5 - 40 Watts, 33.100 MHz
- 6F-6 - 40 Watts, 35.900 MHz

EXHIBIT 6G - Radiated Spurious Emissions – (4 Tables)
- 6G-1 - 72 Watts, 33.000 MHz, Horizontal
- 6G-2 - 72 Watts, 33.000 MHz, Vertical
- 6G-3 - 40 Watts, 33.000 MHz, Horizontal
- 6G-4 - 40 Watts, 33.000 MHz, Vertical

EXHIBIT 6H - Frequency Stability (2 Graph)
- 6H-1 - Frequency Stability vs. Temperature
- 6H-2 - Frequency Stability vs. Voltage

EXHIBIT 6A – RF OUTPUT DATA

HIGH POWER SETTING, FREQUENCY 29.800 MHz

Measured RF Output Power:	72.0 Watts
Measured DC Voltage:	12.97 Volts
Measured DC Input Current:	10.0 Amperes
Measured DC Input Power:	129.7 Watts

LOW POWER SETTING, FREQUENCY 29.800 MHz

Measured RF Output Power:	40.0 Watts
Measured DC Voltage:	13.14 Volts
Measured DC Input Current:	7.20 Amperes
Measured DC Input Power:	94.61 Watts

HIGH POWER SETTING, FREQUENCY 32.900 MHz

Measured RF Output Power:	72.0 Watts
Measured DC Voltage:	12.99 Volts
Measured DC Input Current:	9.60 Amperes
Measured DC Input Power:	124.7 Watts

LOW POWER SETTING, FREQUENCY 32.900 MHz

Measured RF Output Power:	40.0 Watts
Measured DC Voltage:	13.16 Volts
Measured DC Input Current:	6.70 Amperes
Measured DC Input Power:	88.17 Watts

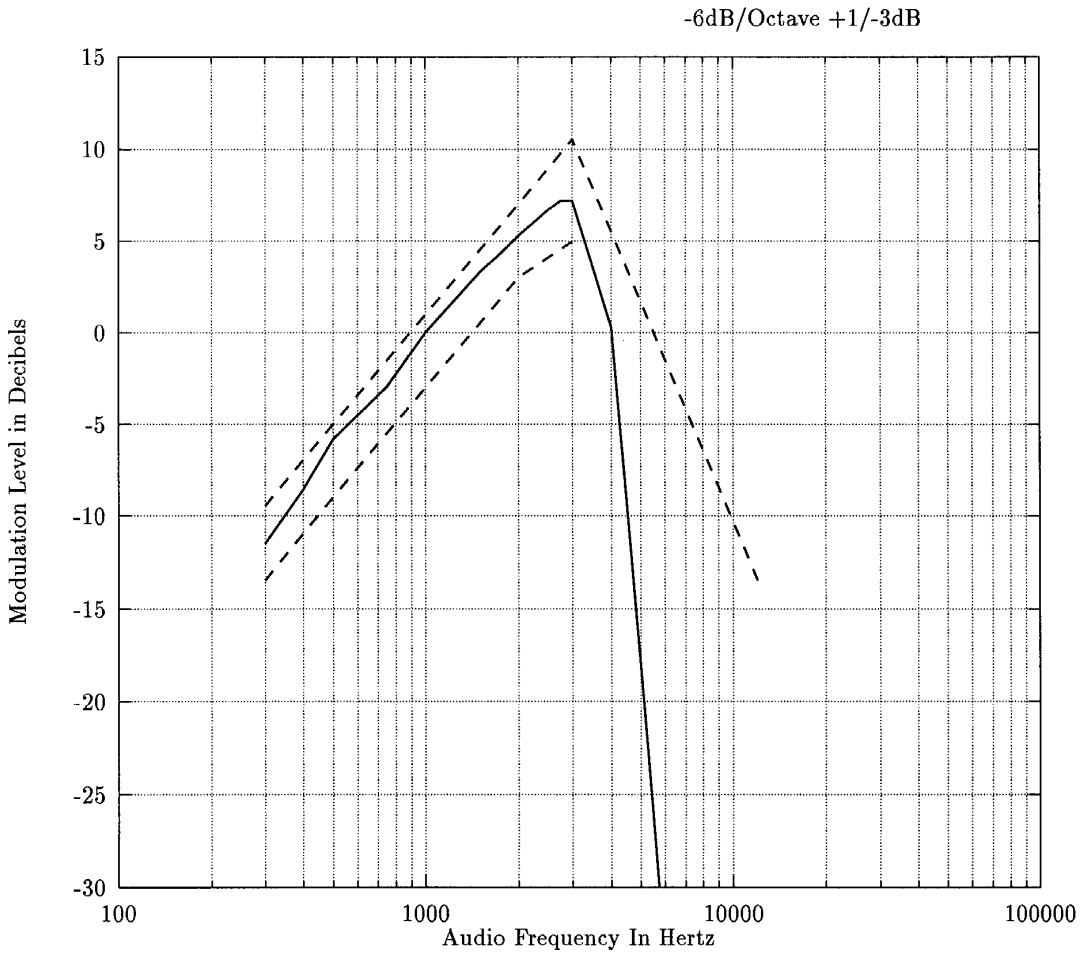
HIGH POWER SETTING, FREQUENCY 35.900 MHz

Measured RF Output Power:	72.0 Watts
Measured DC Voltage:	12.94 Volts
Measured DC Input Current:	10.50 Amperes
Measured DC Input Power:	135.87 Watts

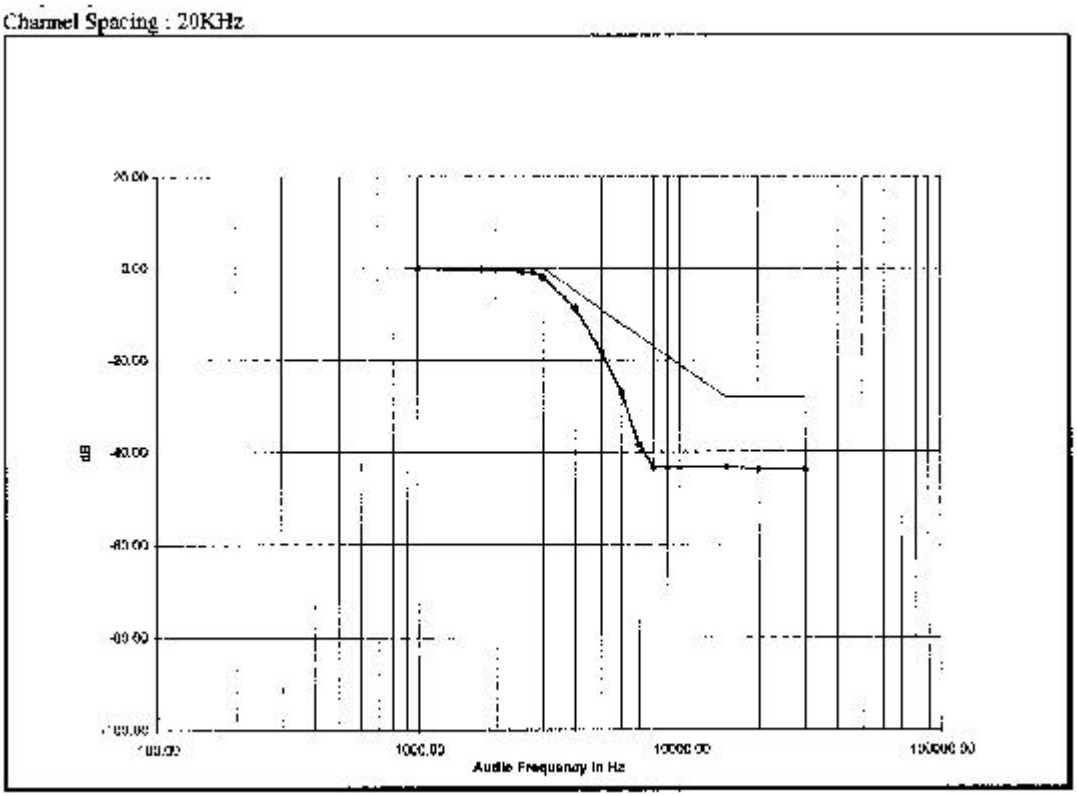
LOW POWER SETTING, FREQUENCY 35.900 MHz

Measured RF Output Power:	40.0 Watts
Measured DC Voltage:	13.12 Volts
Measured DC Input Current:	7.50 Amperes
Measured DC Input Power:	98.40 Watts

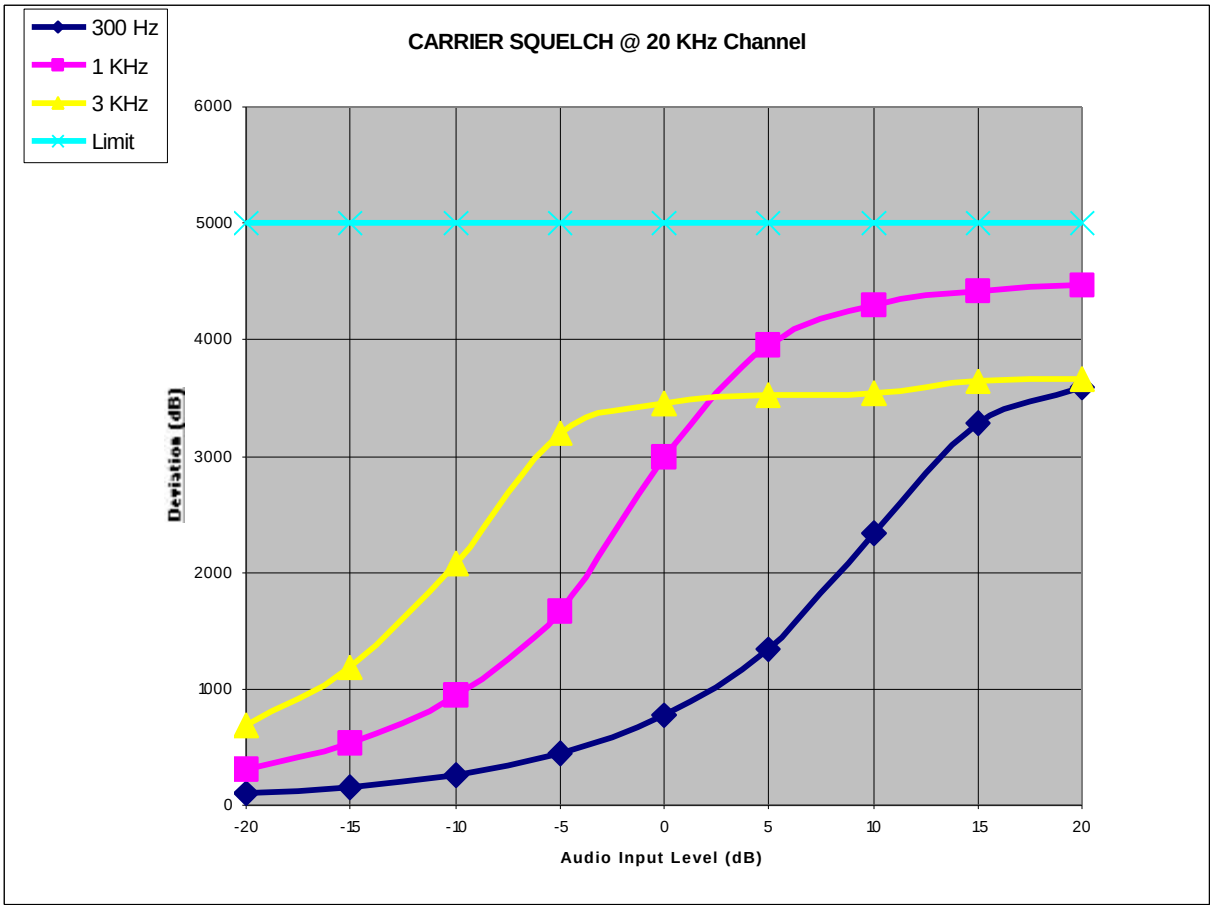
TRANSMIT AUDIO RESPONSE



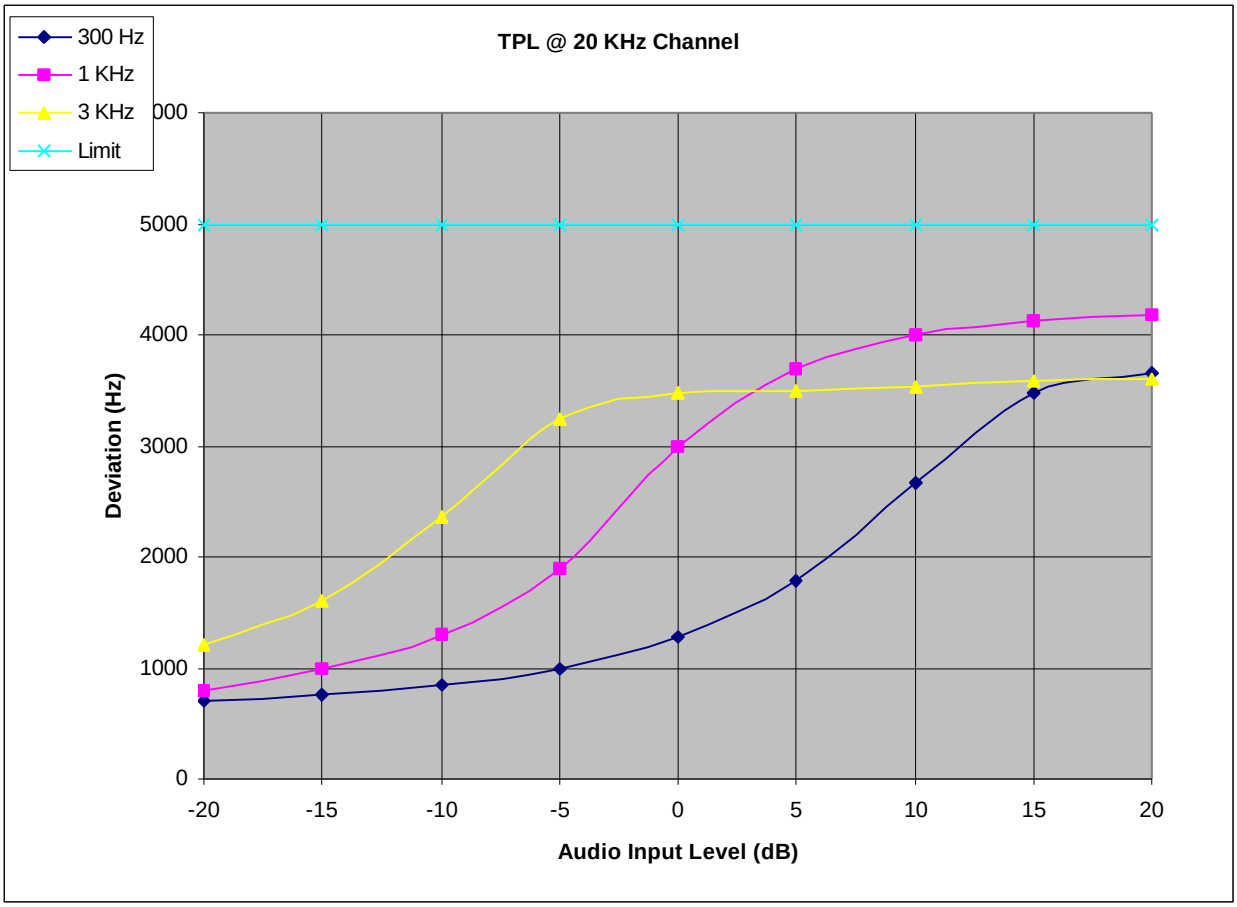
POST-LIMITER LOWPASS FILTER RESPONSE



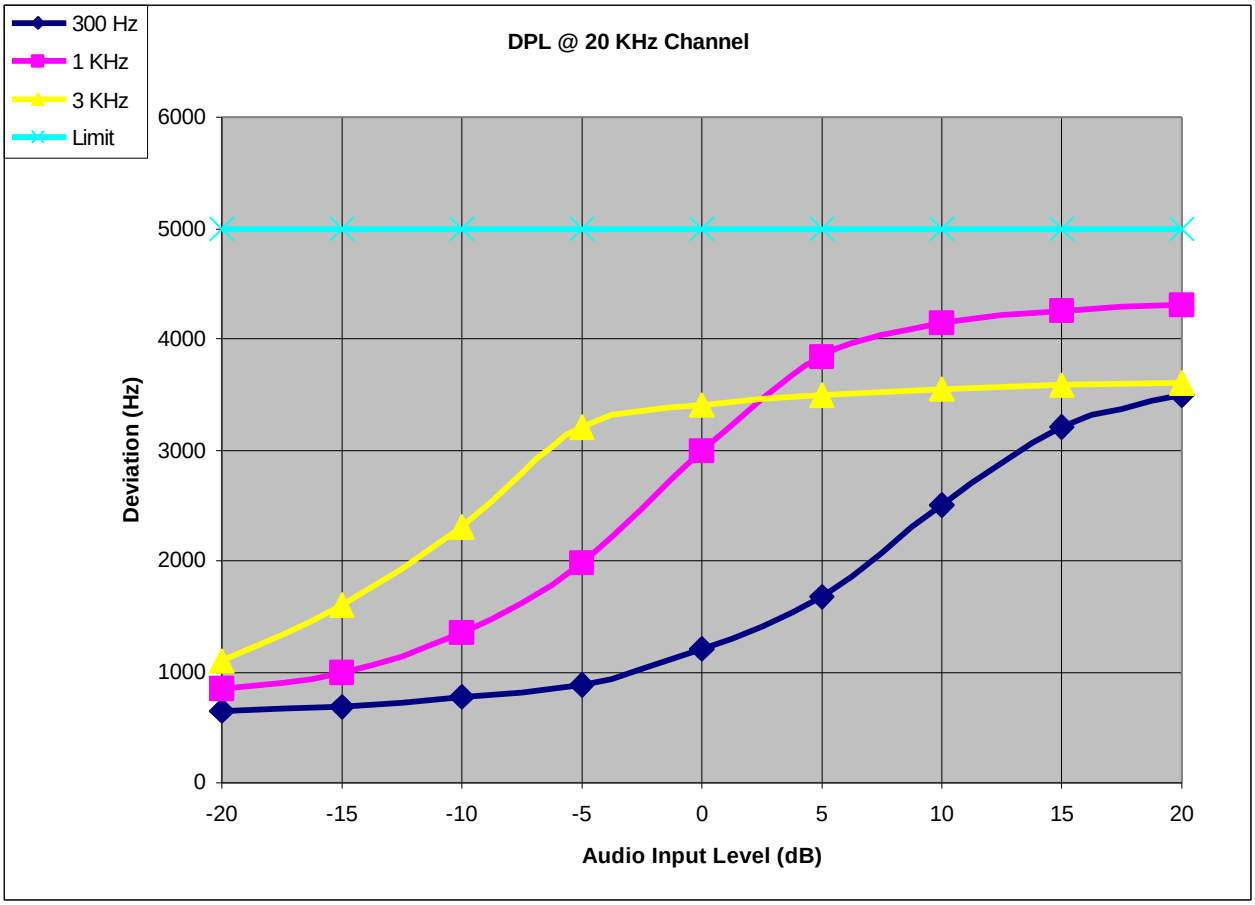
MODULATION LIMITING CHARACTERISTIC
CARRIER SQUELCH MODE



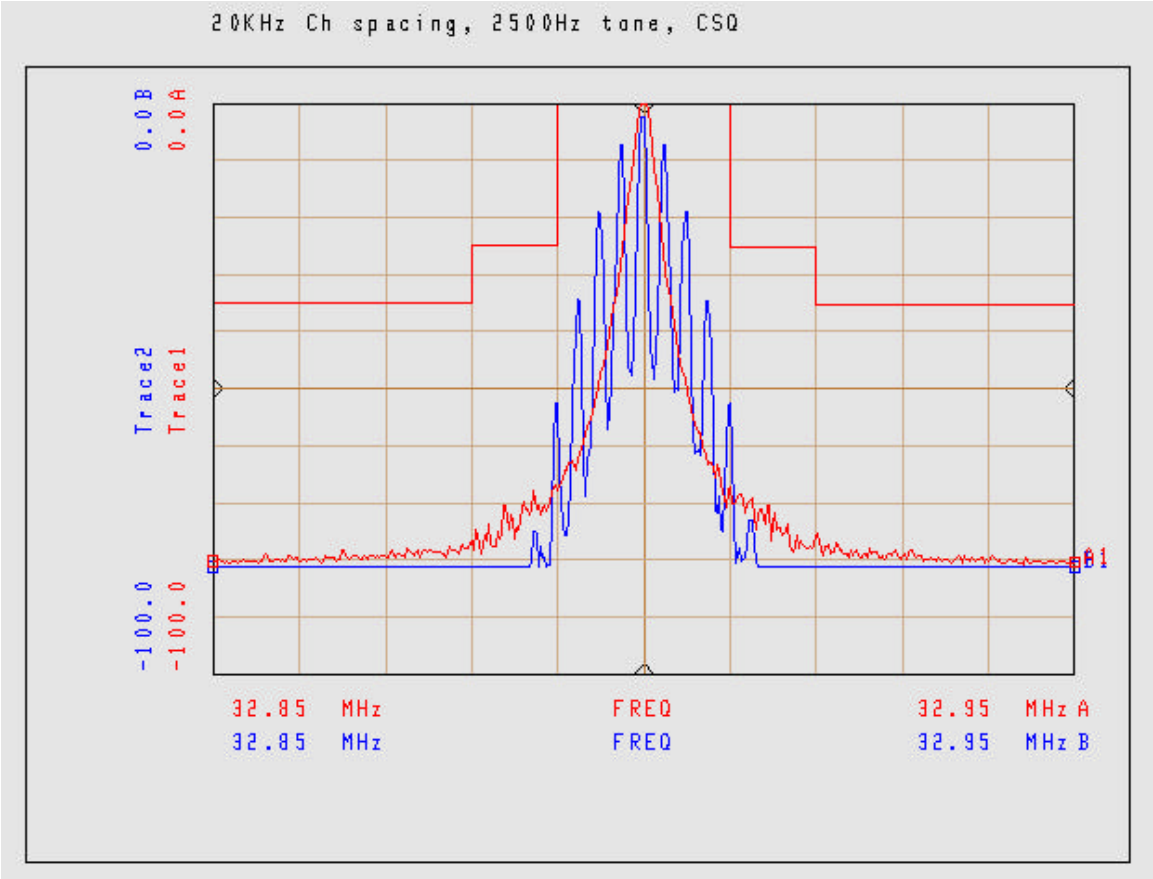
MODULATION LIMITING CHARACTERISTIC
TONE PL MODE



MODULATION LIMITING CHARACTERISTIC
DPL MODE

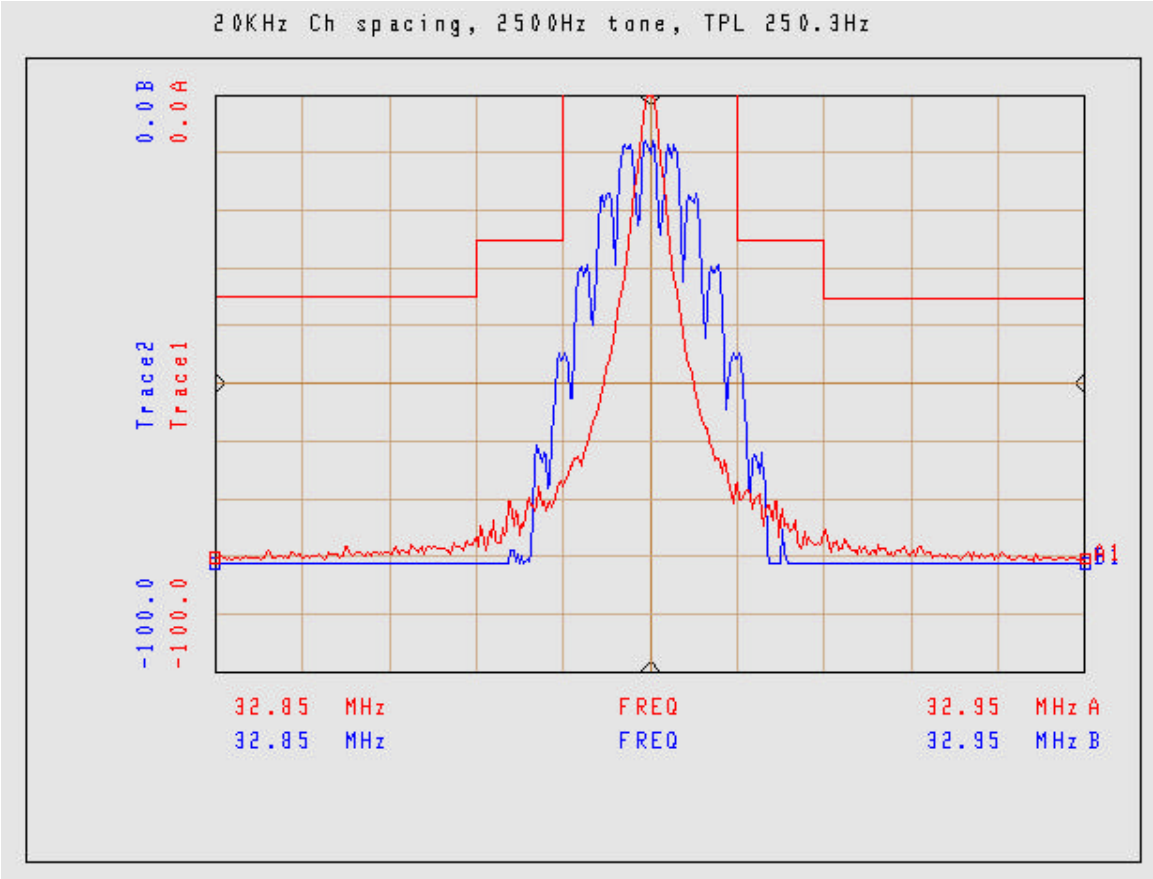


OCCUPIED BANDWIDTH MEASUREMENT FOR
20 kHz CHANNEL SPACING, 2500 Hz TONE, CARRIER SQUELCH
EMISSION MASK: B



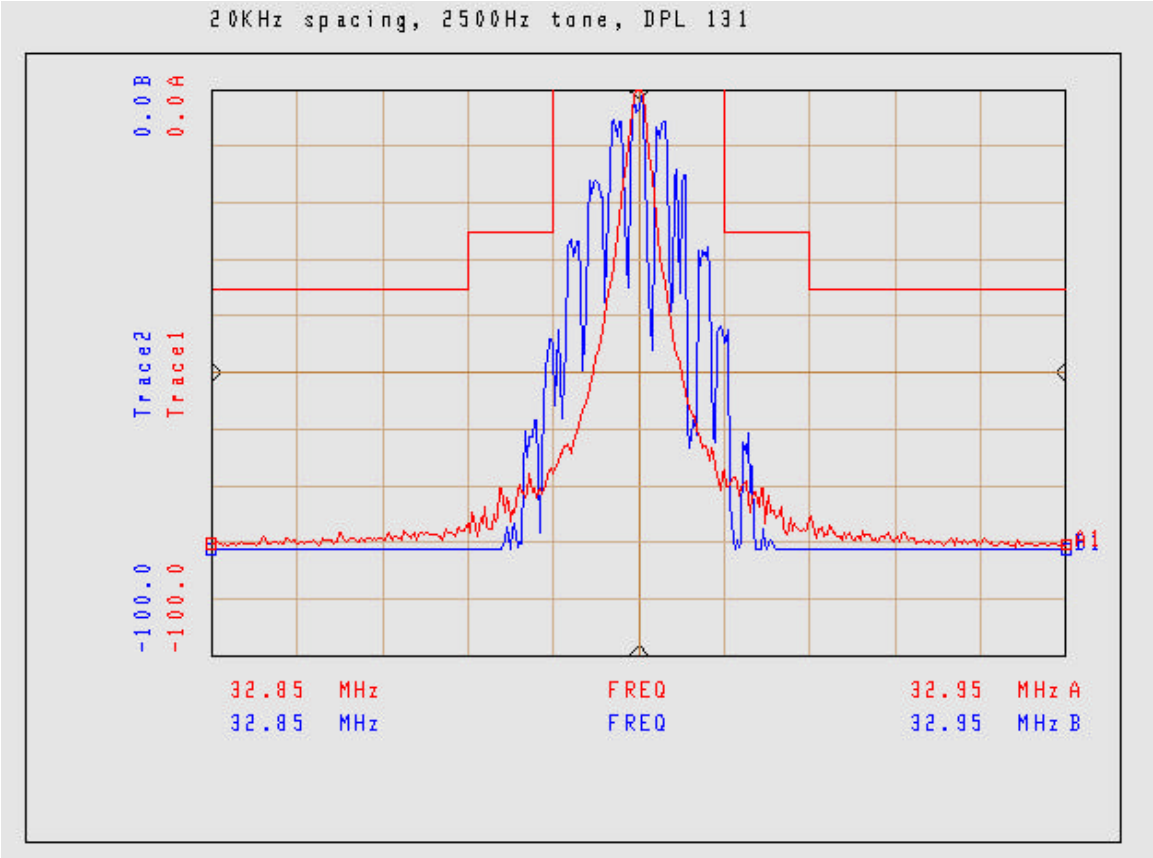
CENTER FREQUENCY:	32.900 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
20 kHz CHANNEL SPACING, 2500 Hz TONE, PL
EMISSION MASK: B



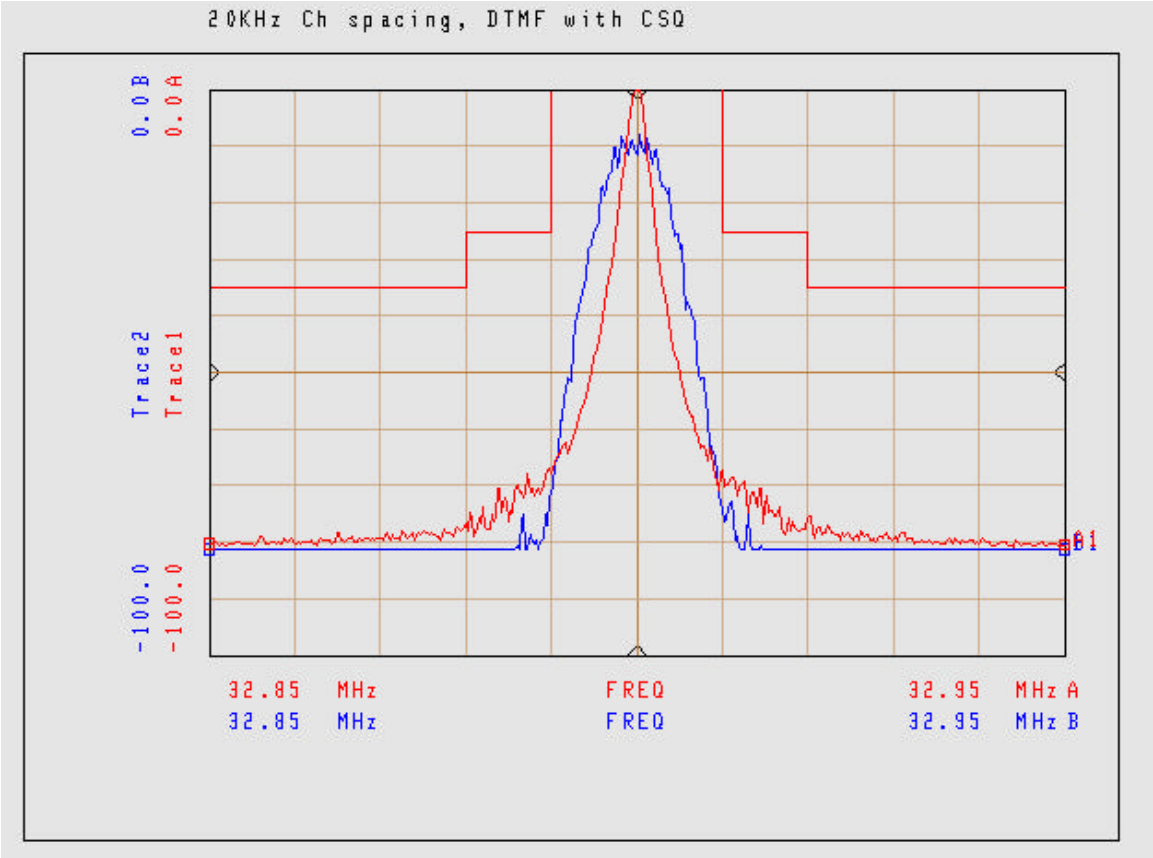
CENTER FREQUENCY:	32.900 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
20 kHz CHANNEL SPACING, 2500 Hz TONE, DPL
EMISSION MASK: B



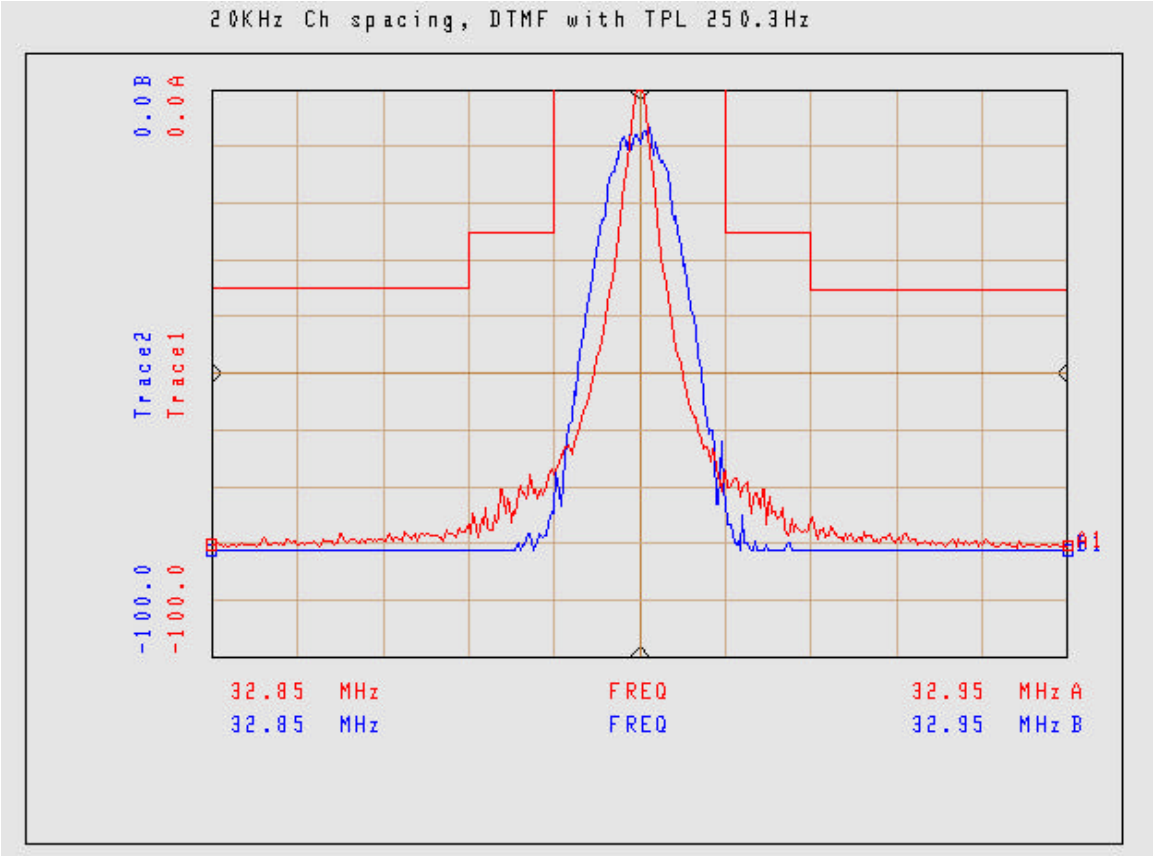
CENTER FREQUENCY:	32.900 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
20 kHz CHANNEL SPACING, DTMF MODULATION, CARRIER SQUELCH
EMISSION MASK: B



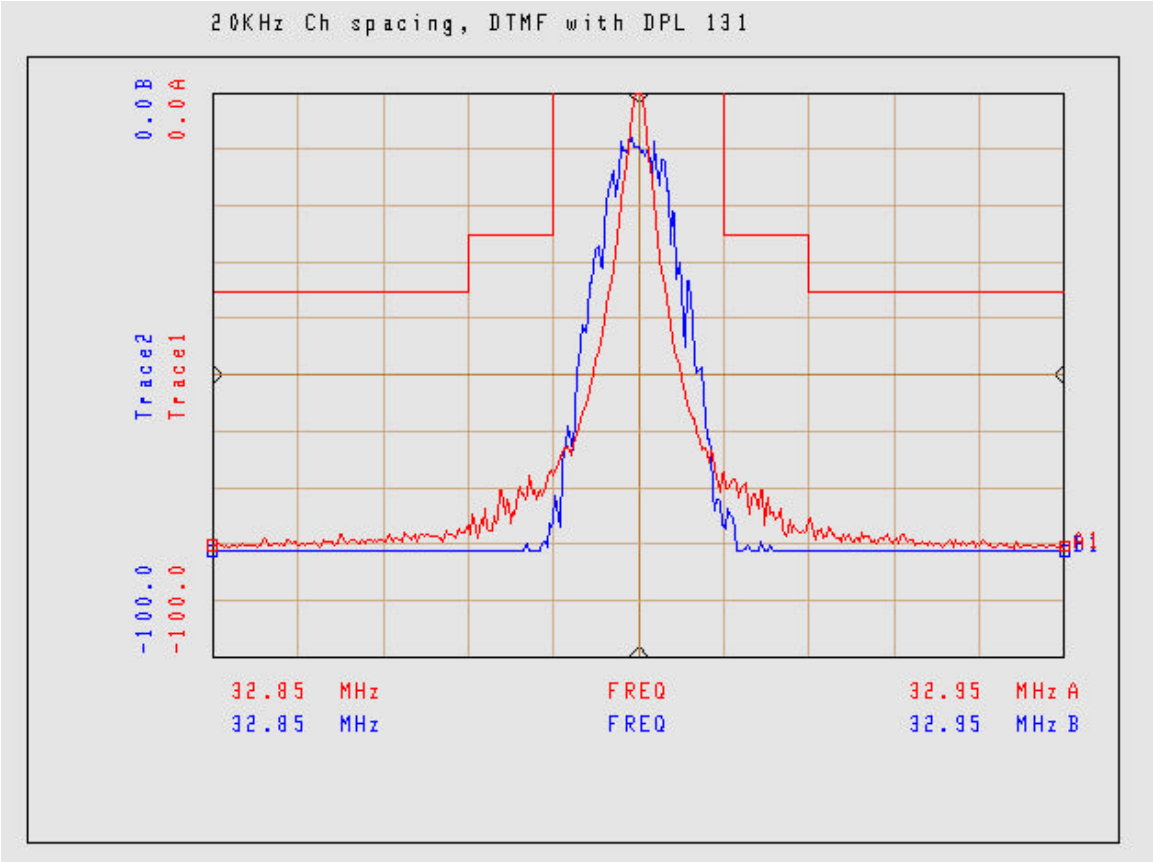
CENTER FREQUENCY:	32.900 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
20 kHz CHANNEL SPACING, DTMF MODULATION, PL
EMISSION MASK: B



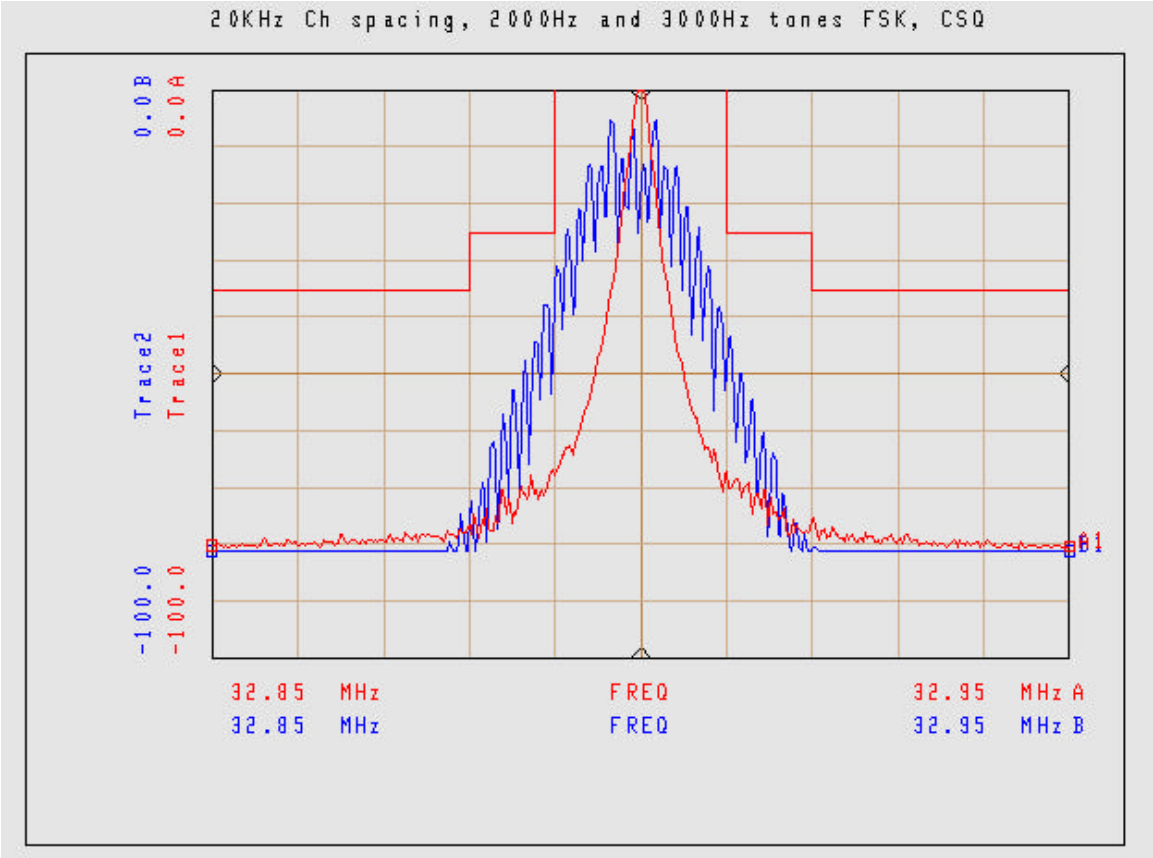
CENTER FREQUENCY:	32.900 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
20 kHz CHANNEL SPACING, DTMF MODULATION, DPL
EMISSION MASK: B



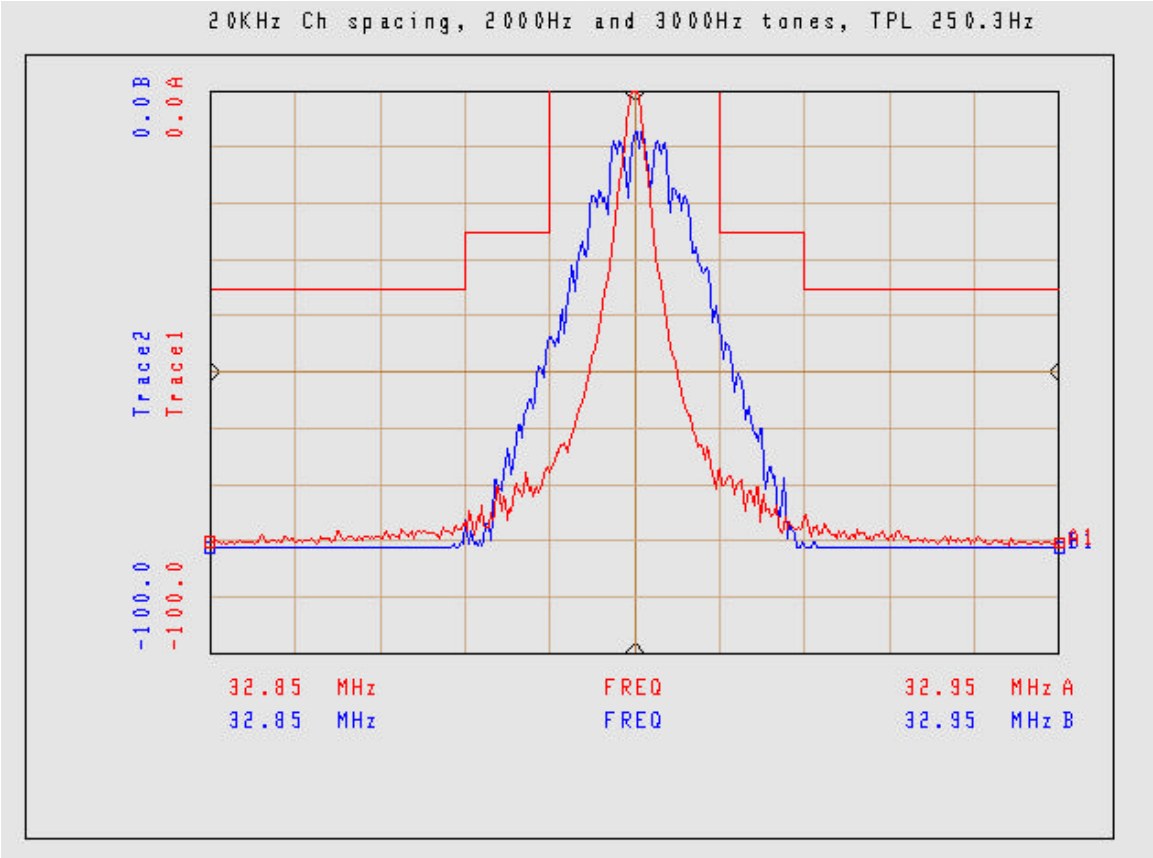
CENTER FREQUENCY:	32.900 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
20 kHz CHANNEL SPACING, 2000/3000 Hz FSK, CARRIER SQUELCH
EMISSION MASK: B



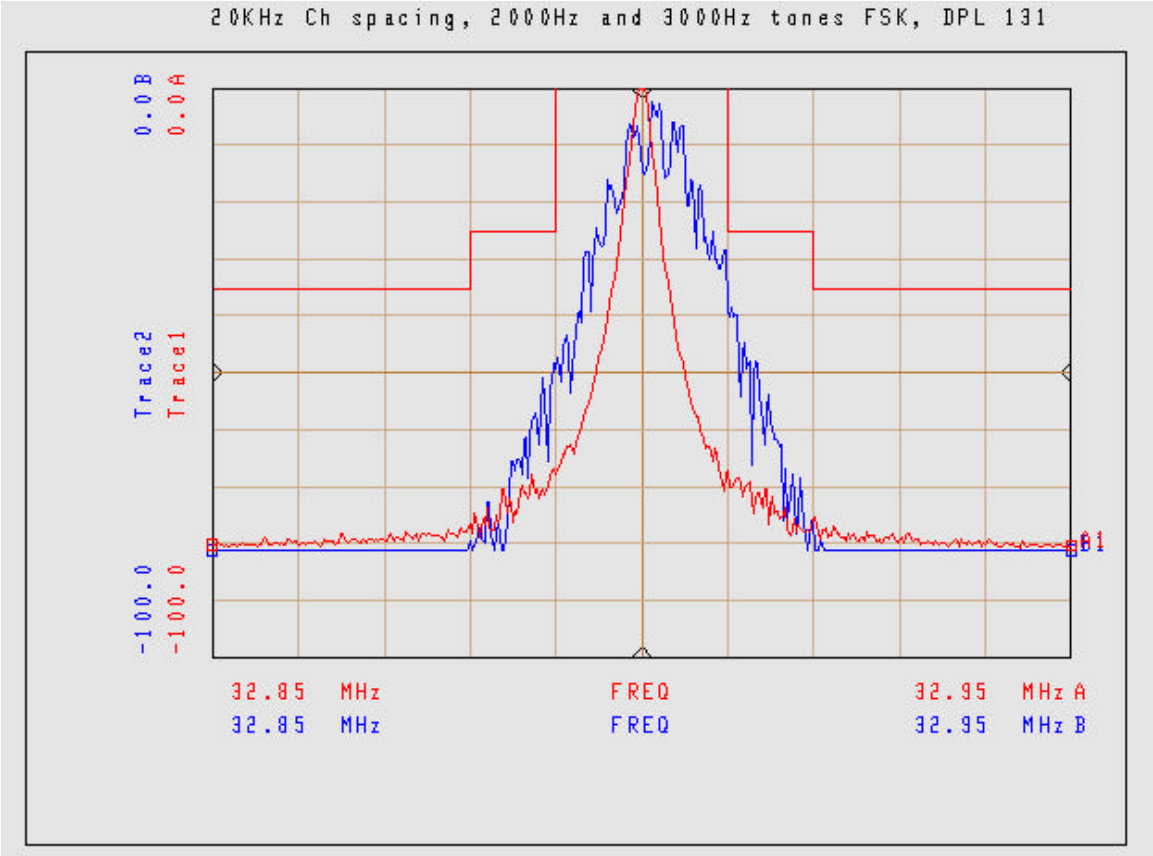
CENTER FREQUENCY:	32.900 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
20 kHz CHANNEL SPACING, 2000/3000 Hz FSK, PL
EMISSION MASK: B



CENTER FREQUENCY:	32.900 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

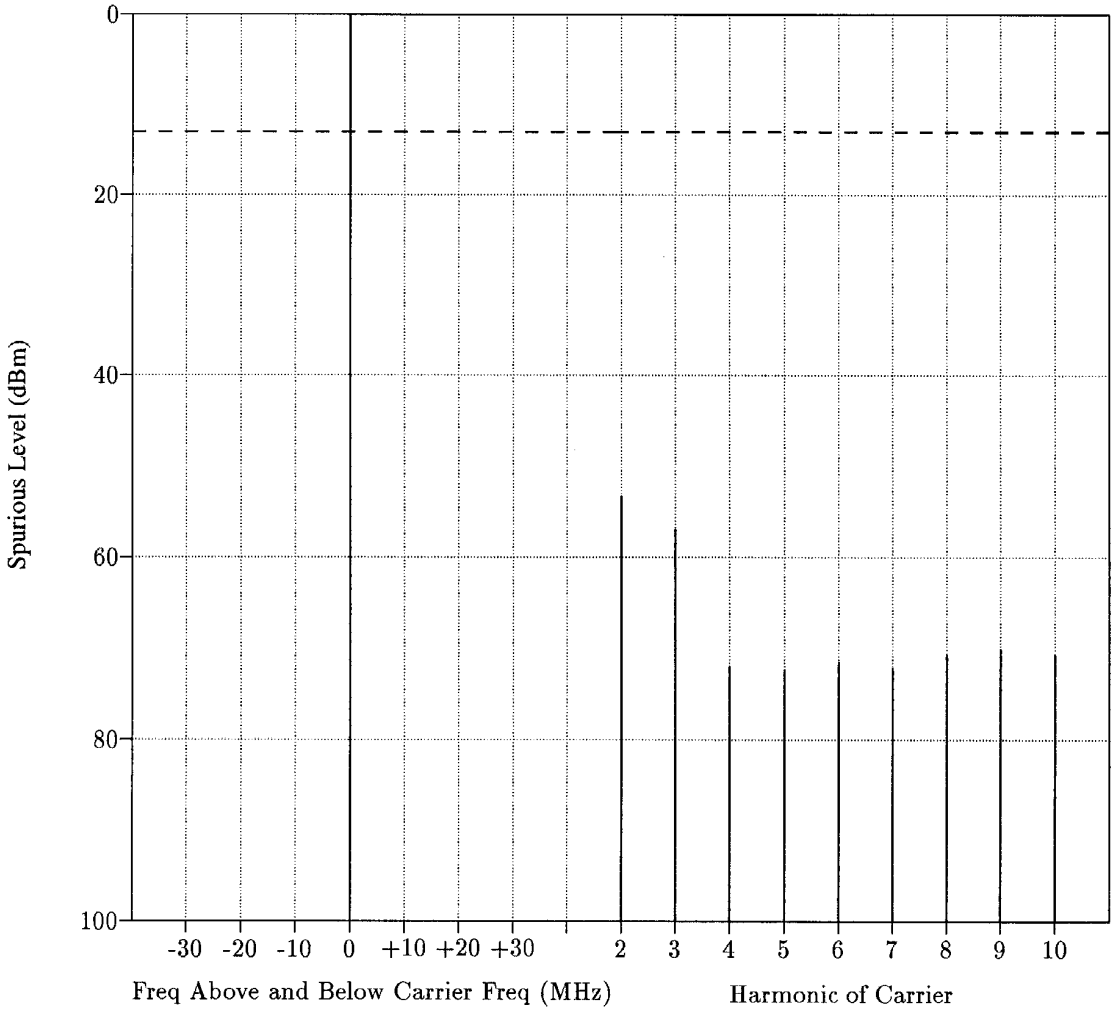
OCCUPIED BANDWIDTH MEASUREMENT FOR
20 kHz CHANNEL SPACING, 2000/3000 Hz FSK, DPL
EMISSION MASK: B



CENTER FREQUENCY:	32.900 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

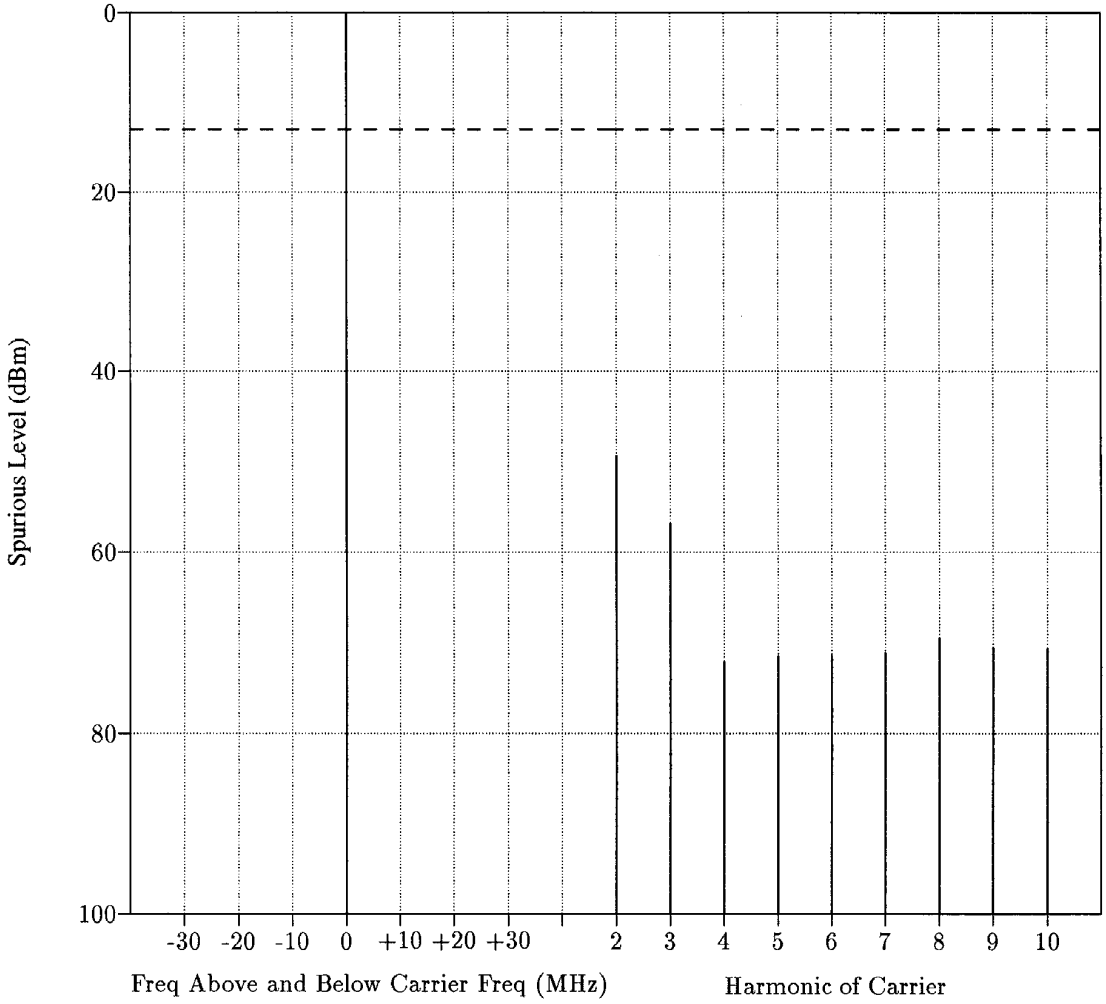
CONDUCTED SPURIOUS EMISSIONS
HIGH POWER, 30.100 MHz

Transmitter Type: See Above
Power Output: 72.00W at 30.1000MHz



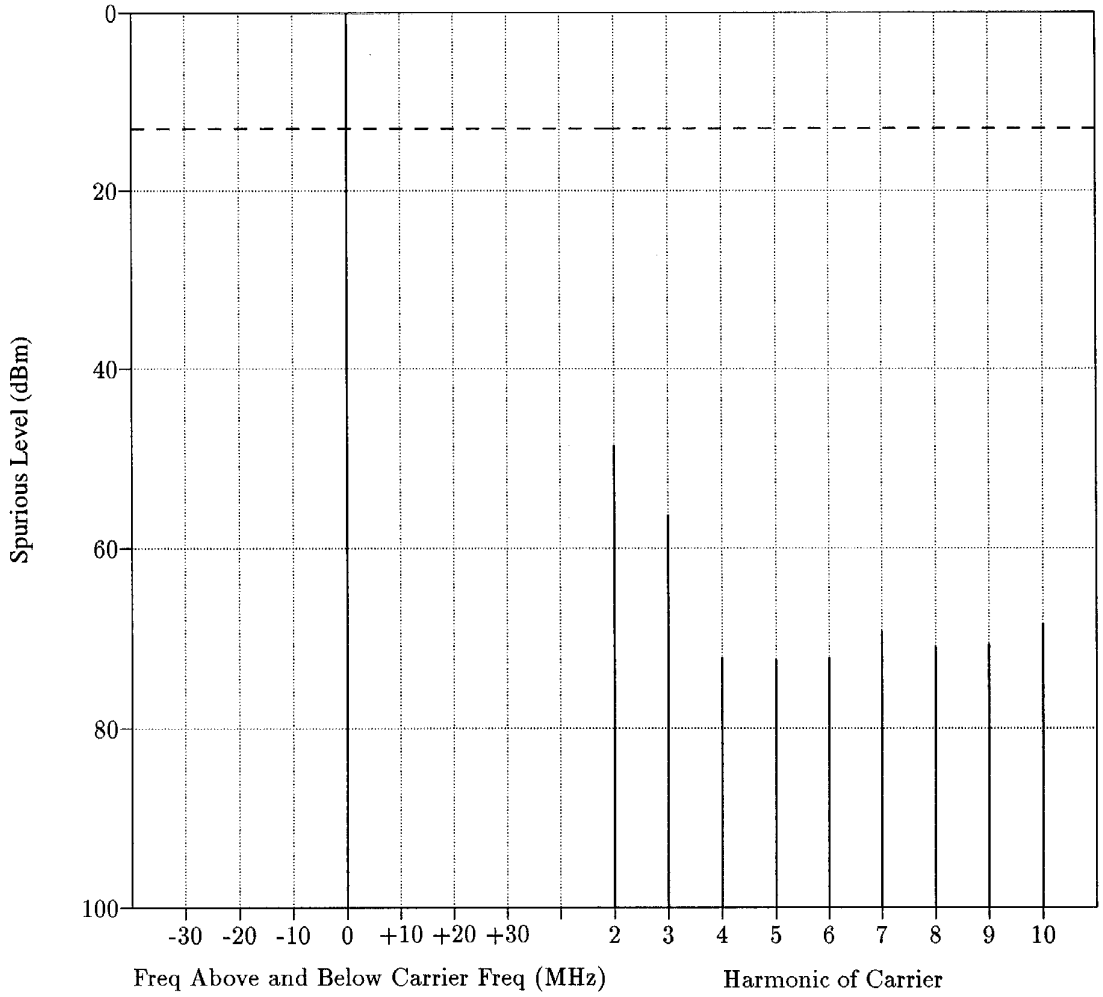
CONDUCTED SPURIOUS EMISSIONS
HIGH POWER, 33.100 MHz

Transmitter Type: See Above
Power Output: 72.00W at 33.1000MHz



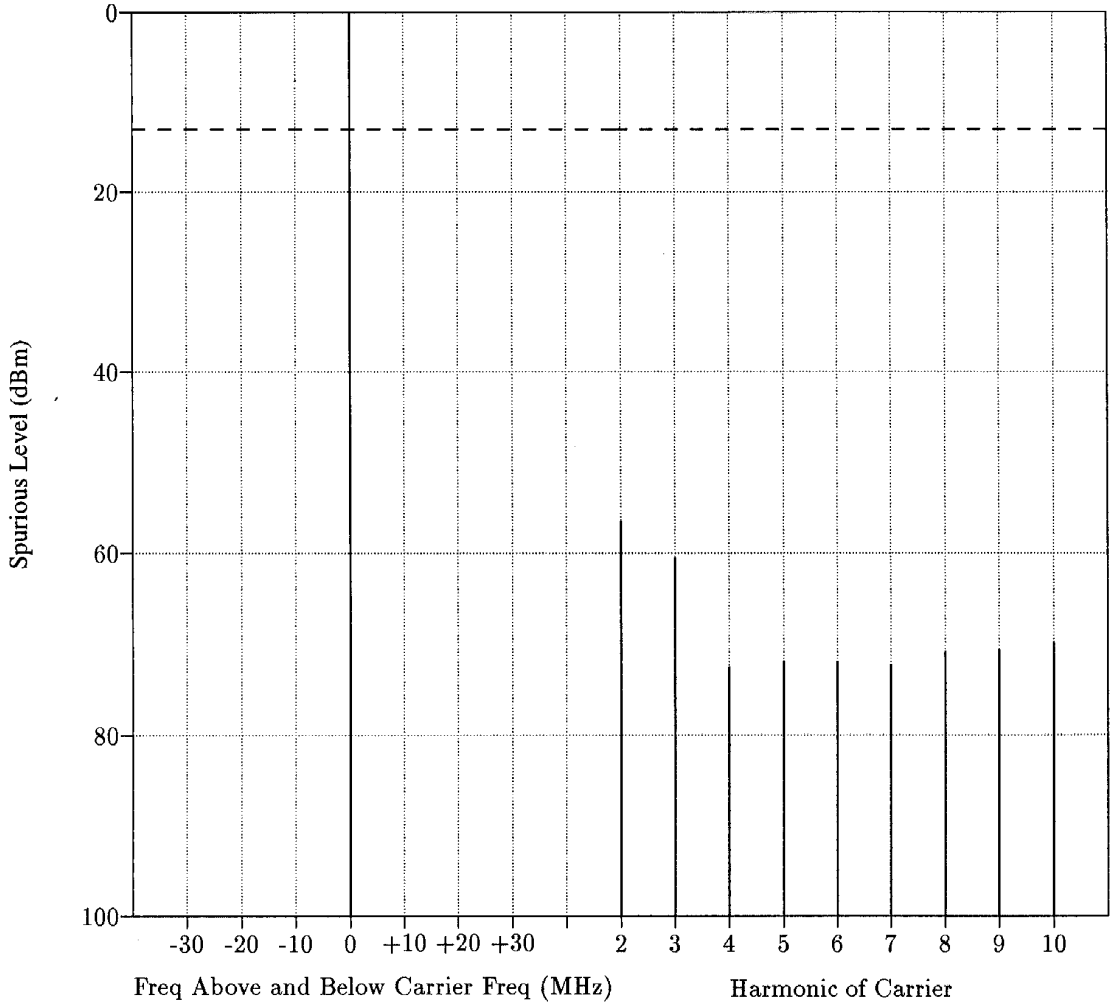
CONDUCTED SPURIOUS EMISSIONS
HIGH POWER, 35.900 MHz

Transmitter Type: See Above
Power Output: 72.00W at 35.9000MHz



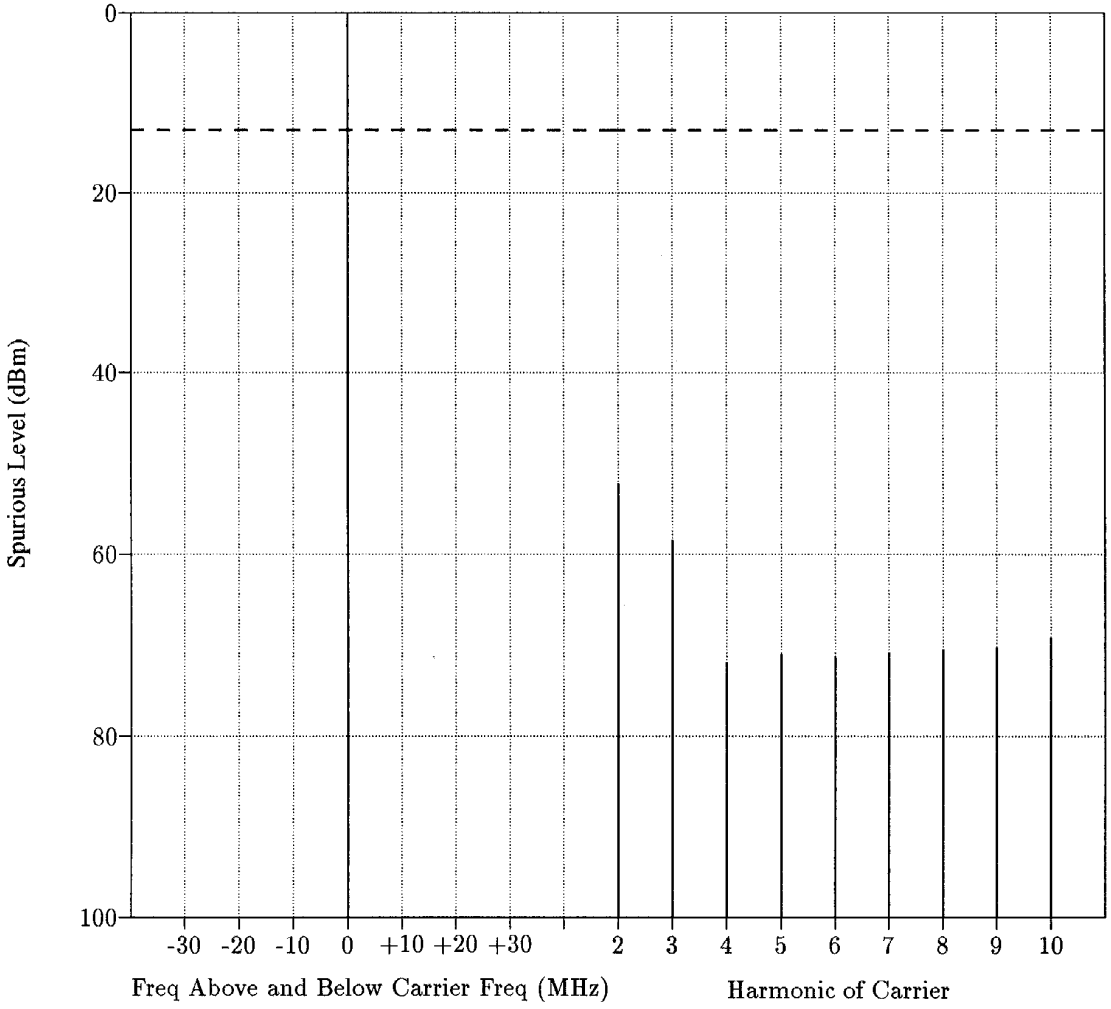
CONDUCTED SPURIOUS EMISSIONS
LOW POWER, 30.100 MHz

Transmitter Type: See Above
Power Output: 40.00W at 30.1000MHz



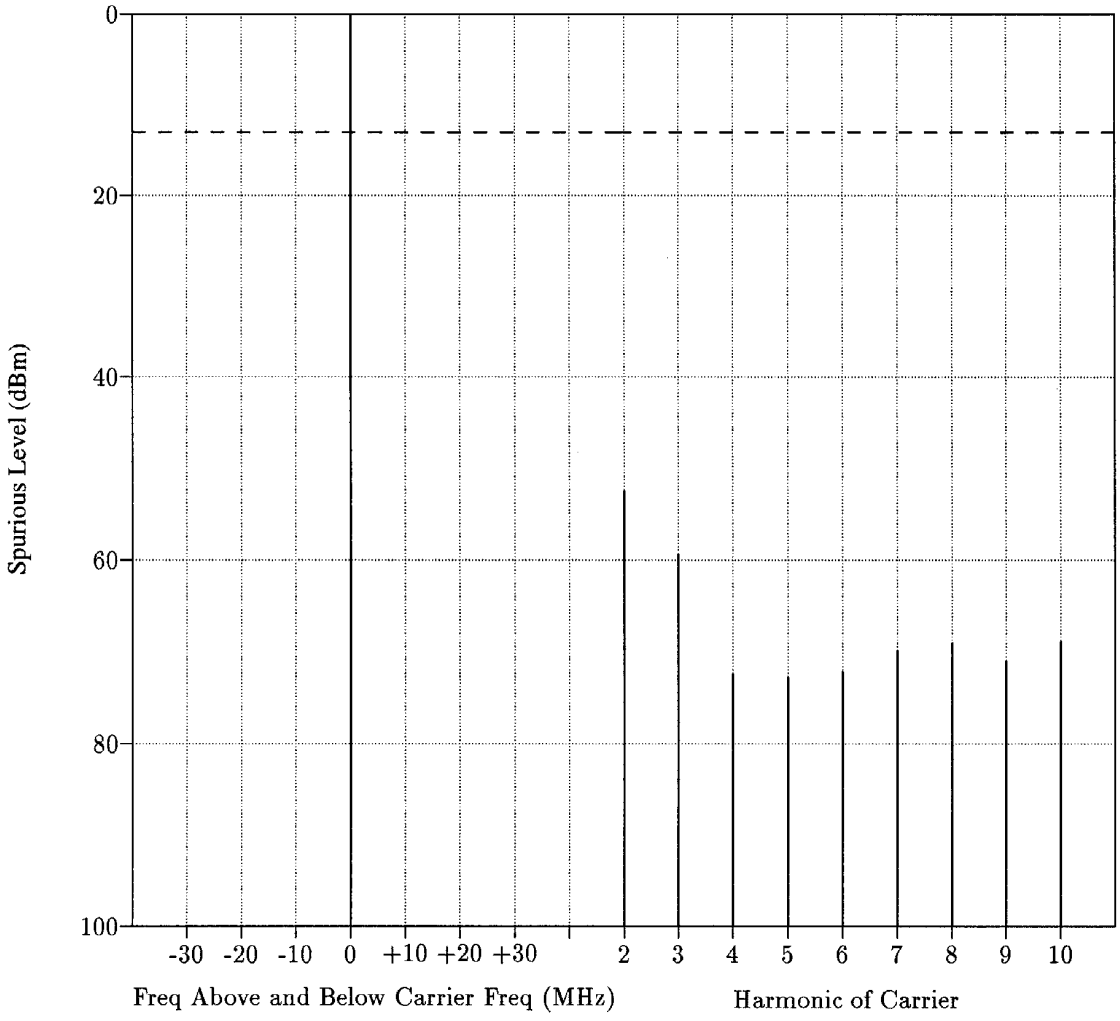
CONDUCTED SPURIOUS EMISSIONS
LOW POWER, 33.100 MHz

Transmitter Type: See Above
Power Output: 40.00W at 33.1000MHz



CONDUCTED SPURIOUS EMISSIONS
LOW POWER, 35.900 MHz

Transmitter Type: See Above
Power Output: 40.00W at 35.9000MHz



RADIATED SPURIOUS EMISSIONS
HIGH POWER, 33.000 MHz, HORIZONTAL POLARIZATION
OUTPUT POWER = 72.0 WATTS

All of the measured radiated emissions were found to be greater than –100 dBc (more than 100 dB below the carrier level), which is the lower limit of the normally supplied graph. Therefore, this data is presented in tabular format:

Harmonic	Frequency	Level (dBm)	Limit (dBm)	Level (dBc)	Limit (dBc)
2nd	66.0 MHz	-76.5	-13.0	-125.1	-61.6
3rd	99.0 MHz	-72.9	-13.0	-121.5	-61.6
4th	132.0 MHz	-60.0	-13.0	-108.6	-61.6
5th	165.0 MHz	-62.9	-13.0	-111.5	-61.6
6th	198.0 MHz	-57.4	-13.0	-106.0	-61.6
7th	231.0 MHz	-62.4	-13.0	-111.0	-61.6
8th	264.0 MHz	-56.0	-13.0	-104.6	-61.6
9th	297.0 MHz	-54.3	-13.0	-102.9	-61.6
10th	330.0 MHz	-57.0	-13.0	-105.6	-61.6

RADIATED SPURIOUS EMISSIONS
HIGH POWER, 33.000 MHz, VERTICAL POLARIZATION
OUTPUT POWER = 72.0 WATTS

All of the measured radiated emissions were found to be greater than –100 dBc (more than 100 dB below the carrier level), which is the lower limit of the normally supplied graph. Therefore, this data is presented in tabular format:

Harmonic	Frequency	Level (dBm)	Limit (dBm)	Level (dBc)	Limit (dBc)
2nd	66.0 MHz	-71.5	-13.0	-120.1	-61.6
3rd	99.0 MHz	-72.1	-13.0	-120.7	-61.6
4th	132.0 MHz	-64.8	-13.0	-113.4	-61.6
5th	165.0 MHz	-64.9	-13.0	-113.5	-61.6
6th	198.0 MHz	-64.2	-13.0	-112.8	-61.6
7th	231.0 MHz	-65.3	-13.0	-113.9	-61.6
8th	264.0 MHz	-61.1	-13.0	-109.7	-61.6
9th	297.0 MHz	-58.2	-13.0	-106.8	-61.6
10th	330.0 MHz	-62.5	-13.0	-111.1	-61.6

RADIATED SPURIOUS EMISSIONS
LOW POWER, 33.000 MHz, HORIZONTAL POLARIZATION
OUTPUT POWER = 40.0 WATTS

All of the measured radiated emissions were found to be greater than –100 dBc (more than 100 dB below the carrier level), which is the lower limit of the normally supplied graph. Therefore, this data is presented in tabular format:

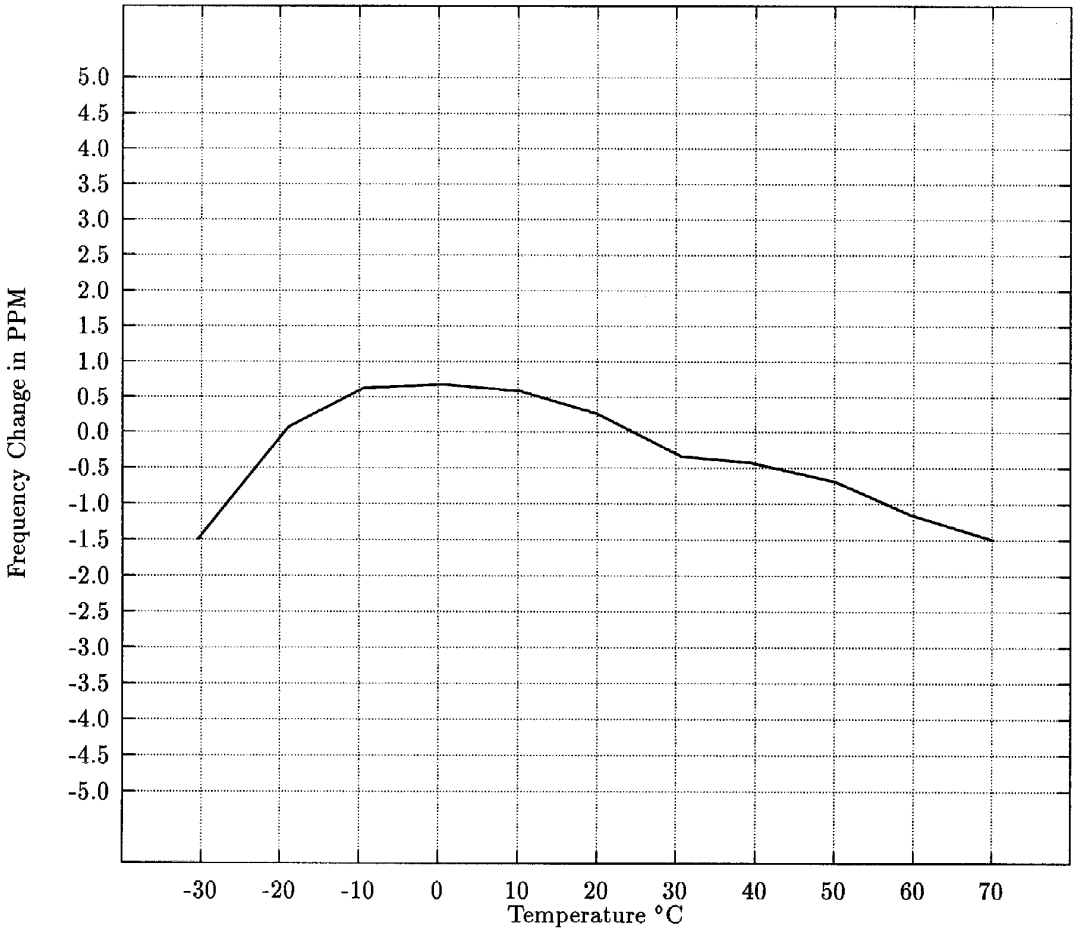
Harmonic	Frequency	Level (dBm)	Limit (dBm)	Level (dBc)	Limit (dBc)
2nd	66.0 MHz	-75.3	-13.0	-121.3	-59.0
3rd	99.0 MHz	-76.4	-13.0	-122.4	-59.0
4th	132.0 MHz	-64.8	-13.0	-110.8	-59.0
5th	165.0 MHz	-73.7	-13.0	-119.7	-59.0
6th	198.0 MHz	-65.6	-13.0	-111.6	-59.0
7th	231.0 MHz	-66.3	-13.0	-112.3	-59.0
8th	264.0 MHz	-62.9	-13.0	-108.9	-59.0
9th	297.0 MHz	-66.9	-13.0	-112.9	-59.0
10th	330.0 MHz	-68.8	-13.0	-114.8	-59.0

RADIATED SPURIOUS EMISSIONS
LOW POWER, 33.000 MHz, VERTICAL POLARIZATION
OUTPUT POWER = 40.0 WATTS

All of the measured radiated emissions were found to be greater than –100 dBc (more than 100 dB below the carrier level), which is the lower limit of the normally supplied graph. Therefore, this data is presented in tabular format:

Harmonic	Frequency	Level (dBm)	Limit (dBm)	Level (dBc)	Limit (dBc)
2nd	66.0 MHz	-70.8	-13.0	-116.8	-59.0
3rd	99.0 MHz	-69.5	-13.0	-115.5	-59.0
4th	132.0 MHz	-67.2	-13.0	-113.2	-59.0
5th	165.0 MHz	-74.5	-13.0	-120.5	-59.0
6th	198.0 MHz	-66.0	-13.0	-112.0	-59.0
7th	231.0 MHz	-69.8	-13.0	-115.8	-59.0
8th	264.0 MHz	-61.5	-13.0	-107.5	-59.0
9th	297.0 MHz	-71.1	-13.0	-117.1	-59.0
10th	330.0 MHz	-70.6	-13.0	-116.6	-59.0

FREQUENCY STABILITY VS. TEMPERATURE
SPECIFIED LIMITS: ±5 PPM (-30 TO +60 DEGREES C)



FREQUENCY STABILITY VS. SUPPLY VOLTAGE
REFERENCE 0% = 13.6 VOLTS DC