

INDEX OF SUBMITTED MEASURED DATA

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

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7B-1 - 12.5 kHz Channel Spacing

7B-2 - 25 kHz Channel Spacing

EXHIBIT 7C - Transmit Audio Post Limiter Lowpass Filter Response (2 Graphs)

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7E-3 - 12.5 kHz 2500 Hz Audio and DPL Modulation

7E-4 - 12.5 kHz DTMF Modulation Only

7E-5 - 12.5 kHz DTMF Modulation and PL Tone Modulation

7E-6 - 12.5 kHz DTMF Modulation and DPL Modulation

7E-7 - 12.5 kHz 2000/3000 Hz FSK Data Modulation Only

7E-8 - 12.5 kHz 2000/3000 Hz FSK Data and PL Tone Modulation

7E-9 - 12.5 kHz 2000/3000 Hz FSK Data and DPL Tone Modulation

7E-10 - 25 kHz 2500 Hz Audio Modulation Only

7E-11 - 25 kHz 2500 Hz Audio and PL Tone Modulation

7E-12 - 25 kHz 2500 Hz Audio and DPL Modulation

7E-13 - 25 kHz DTMF Modulation Only

7E-14 - 25 kHz DTMF Modulation and PL Tone Modulation

7E-15 - 25 kHz DTMF Modulation and DPL Modulation

7E-16 - 25 kHz 2000/3000 Hz FSK Data Modulation Only

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EXHIBIT 7F - Conducted Spurious Emissions (6 Graphs)

7F-1 - 54 Watts, 136.000 MHz

7F-2 - 54 Watts, 155.000 MHz

7F-3 - 54 Watts, 174.000 MHz

7F-4 - 25 Watts, 136.000 MHz

7F-5 - 25 Watts, 155.000 MHz

7F-6 - 25 Watts, 174.000 MHz

INDEX TO SUBMITTED MEASURED DATA (continued)

EXHIBIT 7G - Radiated Spurious Emissions – (4 Graphs)

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- 7G-3 - 25 Watts, 150.000 MHz, Horizontal
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- 7H-1 - Frequency Stability vs. Temperature
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- 7I-1 - 54 Watts, 12.5 kHz Key-Up Attack Time
- 7I-2 - 54 Watts, 12.5 kHz De-Key Decay Time
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- 7I-7 - 25 Watts, 25 kHz Key-Up Attack Time
- 7I-8 - 25 Watts, 25 kHz De-Key Decay Time

EXHIBIT 7A – RF OUTPUT DATA**HIGH POWER SETTING, FREQUENCY 136.000 MHz**

Measured RF Output Power:	54.0 Watts
Measured DC Voltage:	13.58 Volts
Measured DC Input Current:	6.70 Amperes
Measured DC Input Power:	90.99 Watts

LOW POWER SETTING, FREQUENCY 136.000 MHz

Measured RF Output Power:	25.0 Watts
Measured DC Voltage:	13.58 Volts
Measured DC Input Current:	4.13 Amperes
Measured DC Input Power:	56.09 Watts

HIGH POWER SETTING, FREQUENCY 155.000 MHz

Measured RF Output Power:	54.0 Watts
Measured DC Voltage:	13.58 Volts
Measured DC Input Current:	7.80 Amperes
Measured DC Input Power:	105.92 Watts

LOW POWER SETTING, FREQUENCY 155.000 MHz

Measured RF Output Power:	25.0 Watts
Measured DC Voltage:	13.58 Volts
Measured DC Input Current:	4.70 Amperes
Measured DC Input Power:	63.83Watts

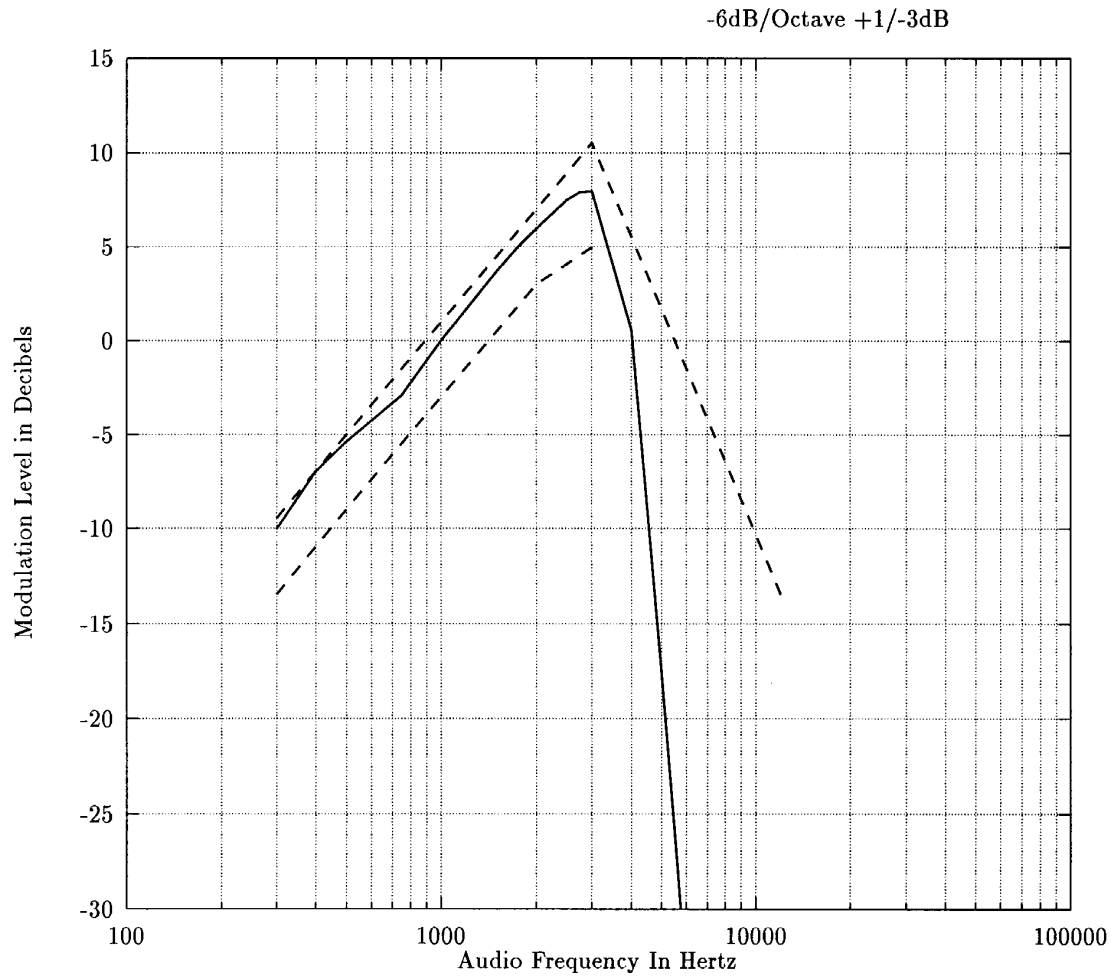
HIGH POWER SETTING, FREQUENCY 174.000 MHz

Measured RF Output Power:	54.0 Watts
Measured DC Voltage:	13.58 Volts
Measured DC Input Current:	6.88 Amperes
Measured DC Input Power:	93.43 Watts

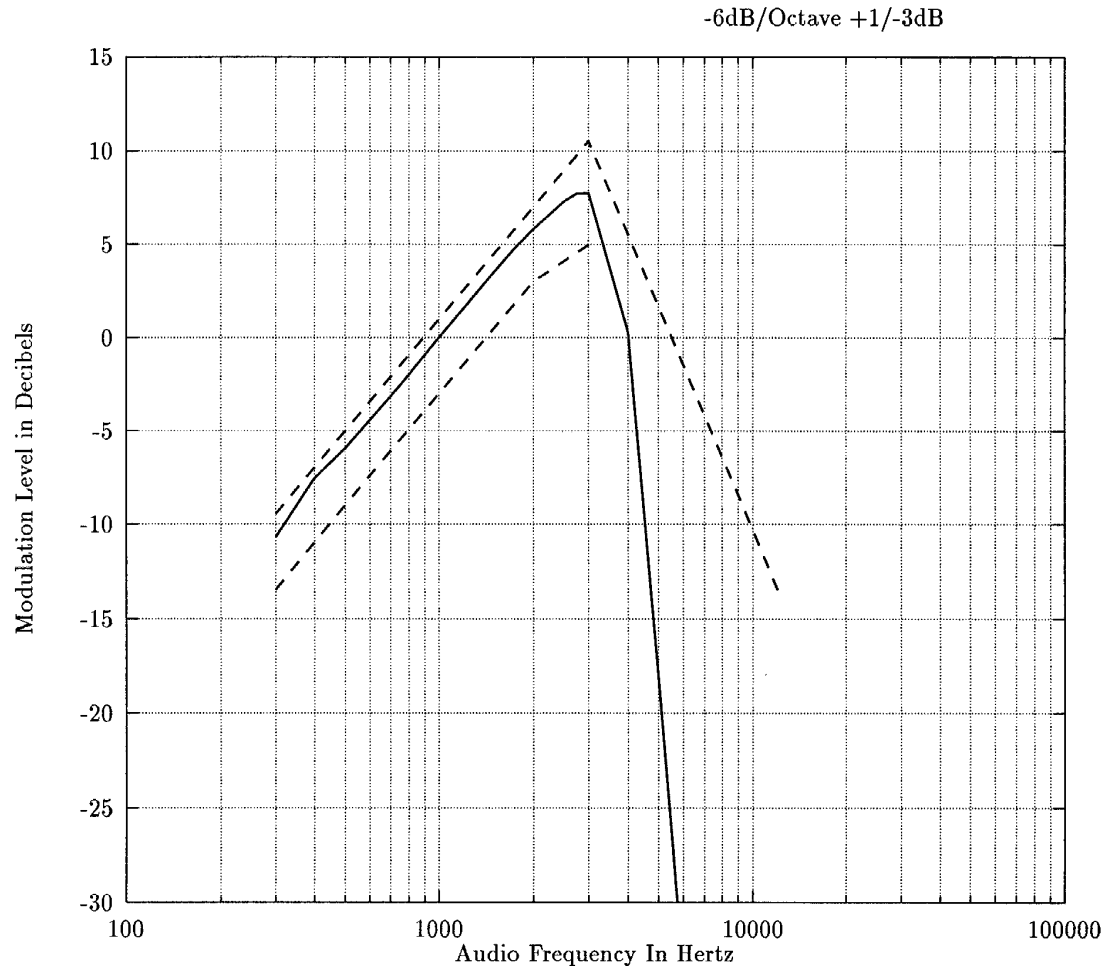
LOW POWER SETTING, FREQUENCY 174.000 MHz

Measured RF Output Power:	25.0 Watts
Measured DC Voltage:	13.58 Volts
Measured DC Input Current:	4.44 Amperes
Measured DC Input Power:	60.30 Watts

TRANSMIT AUDIO RESPONSE
12.5 kHz CHANNEL SPACING

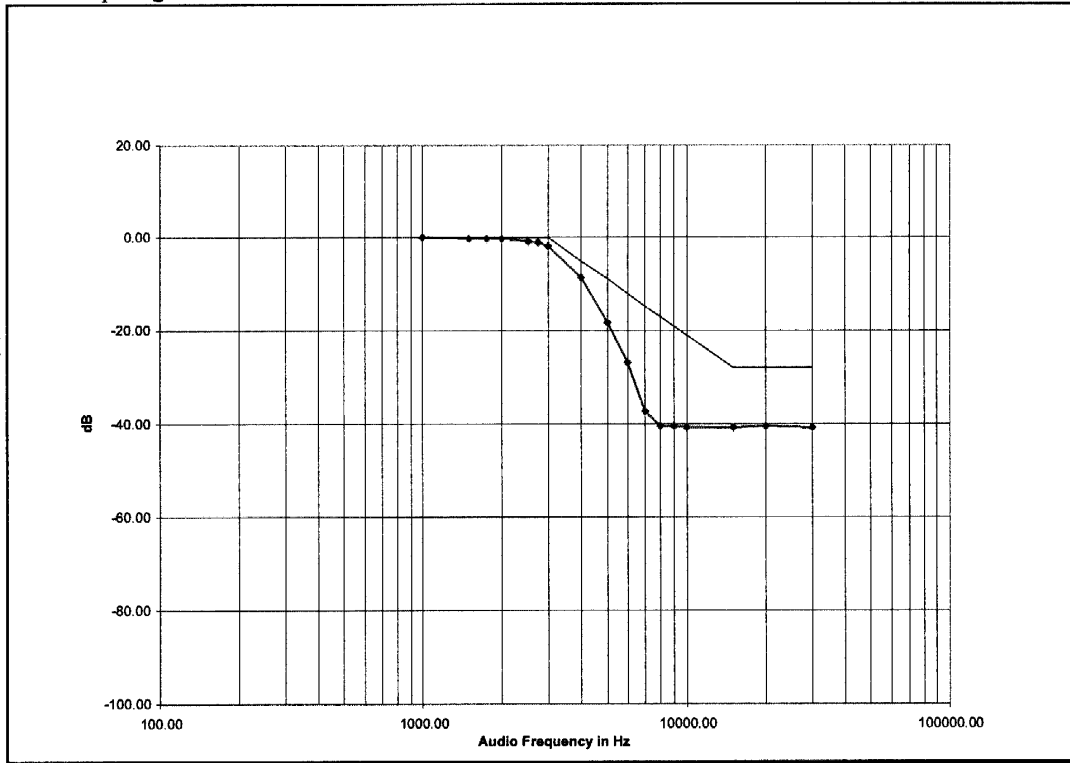


TRANSMIT AUDIO RESPONSE
25 kHz CHANNEL SPACING



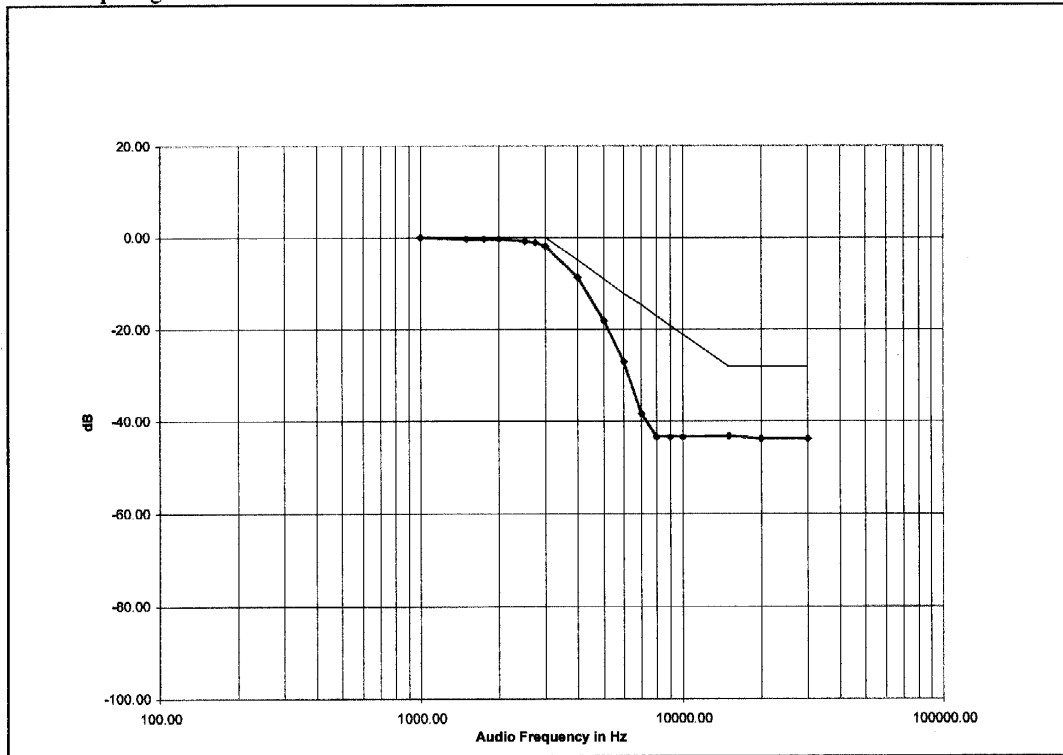
POST-LIMITER LOWPASS FILTER RESPONSE
12.5 kHz CHANNEL SPACING

Channel Spacing : 12.5KHz

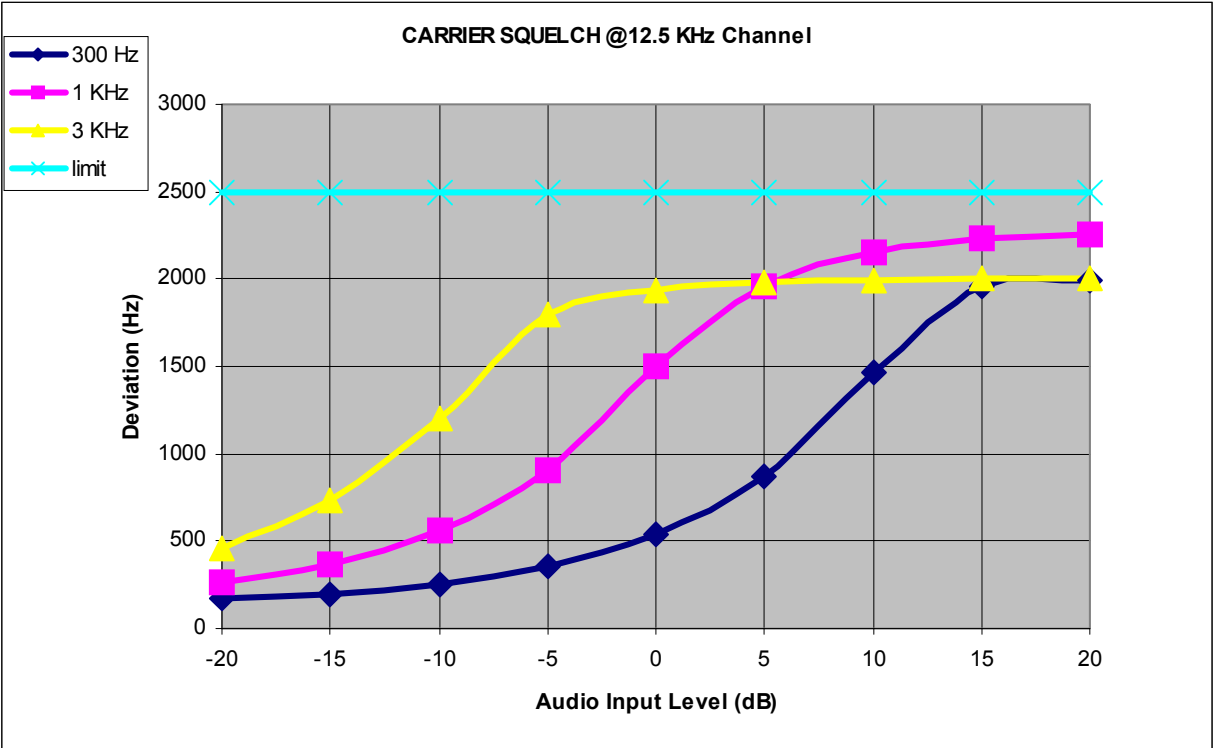


POST-LIMITER LOWPASS FILTER RESPONSE
25 kHz CHANNEL SPACING

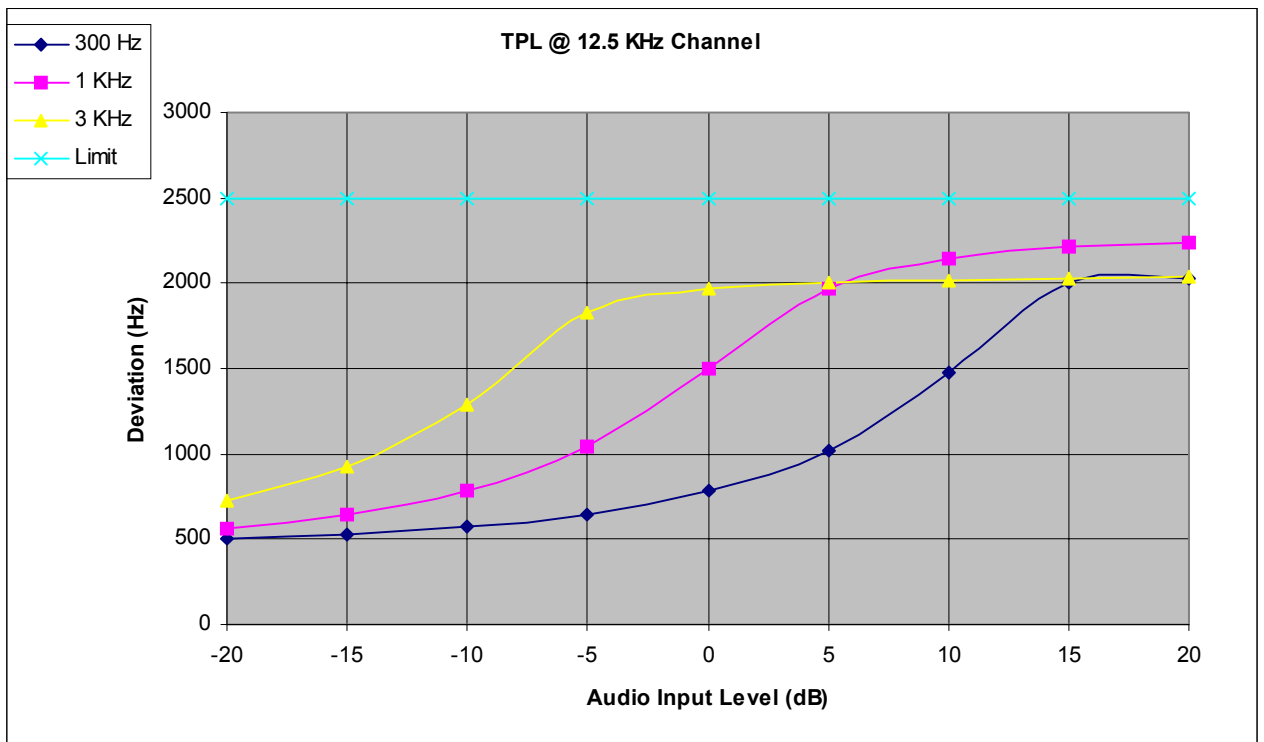
Channel Spacing : 25KHz



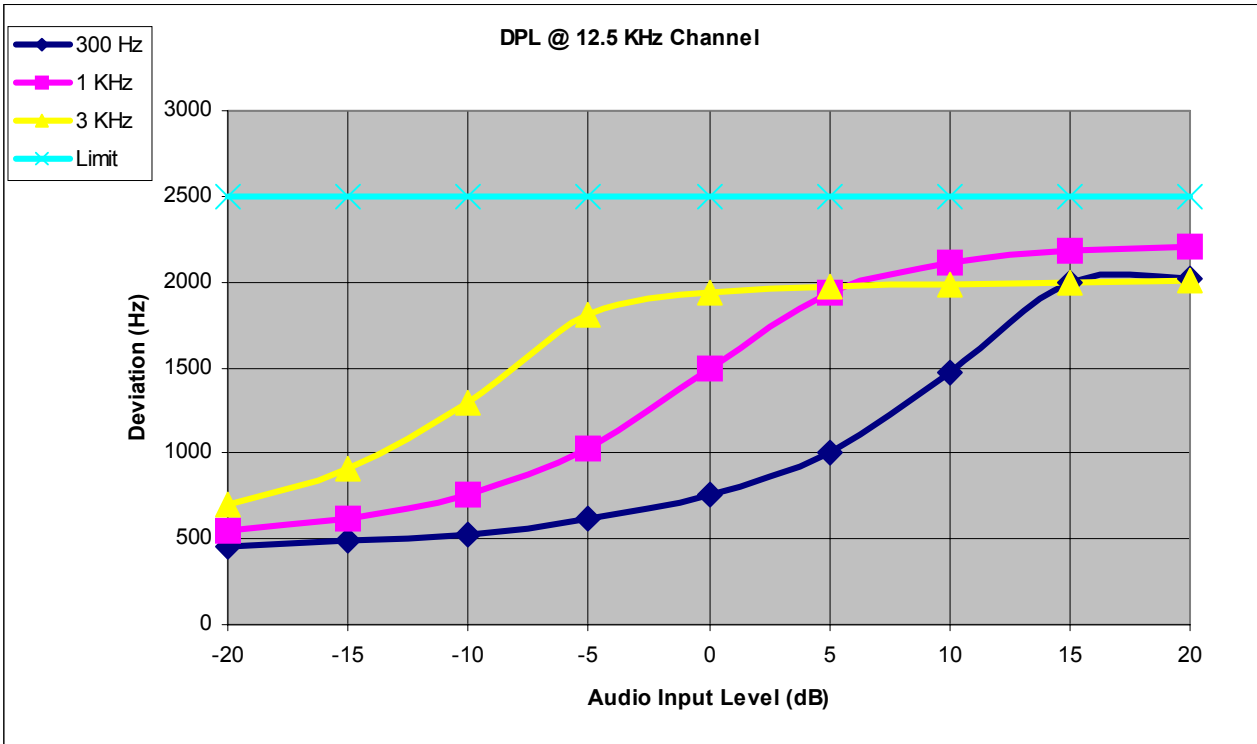
MODULATION LIMITING CHARACTERISTIC
12.5 kHz CHANNEL SPACING, CARRIER SQUELCH MODE



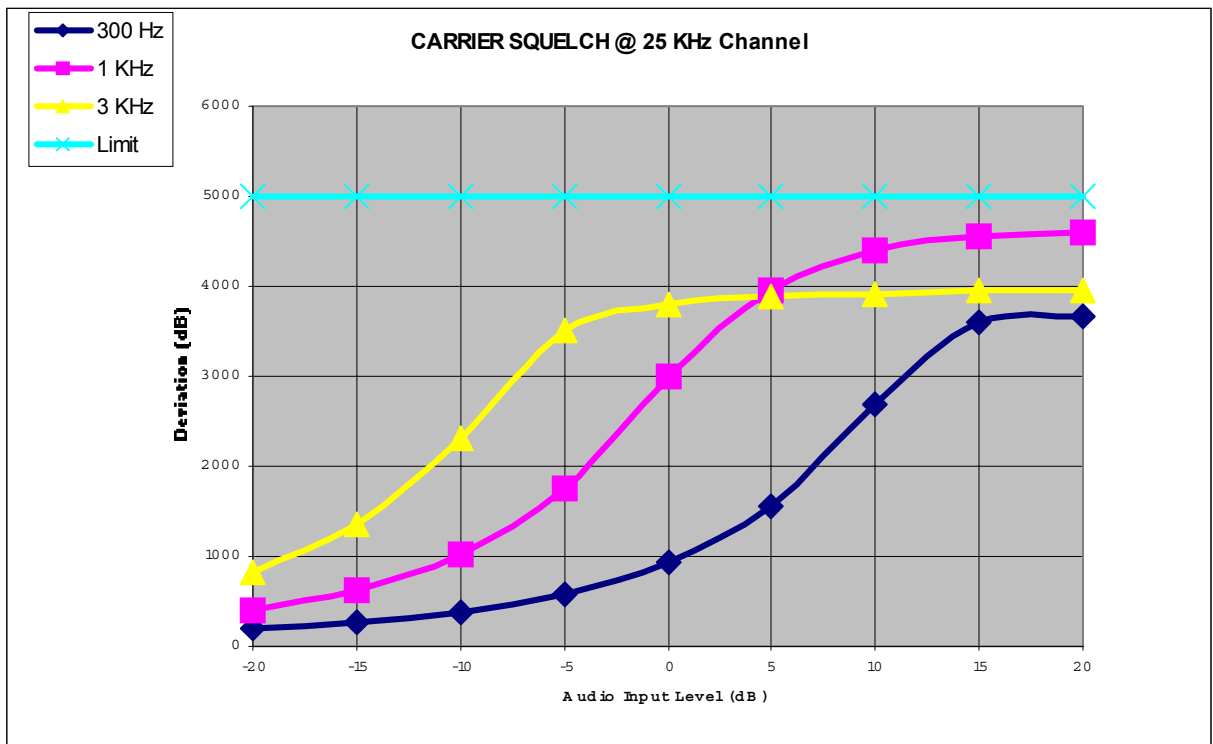
MODULATION LIMITING CHARACTERISTIC
12.5 kHz CHANNEL SPACING, TONE PL MODE



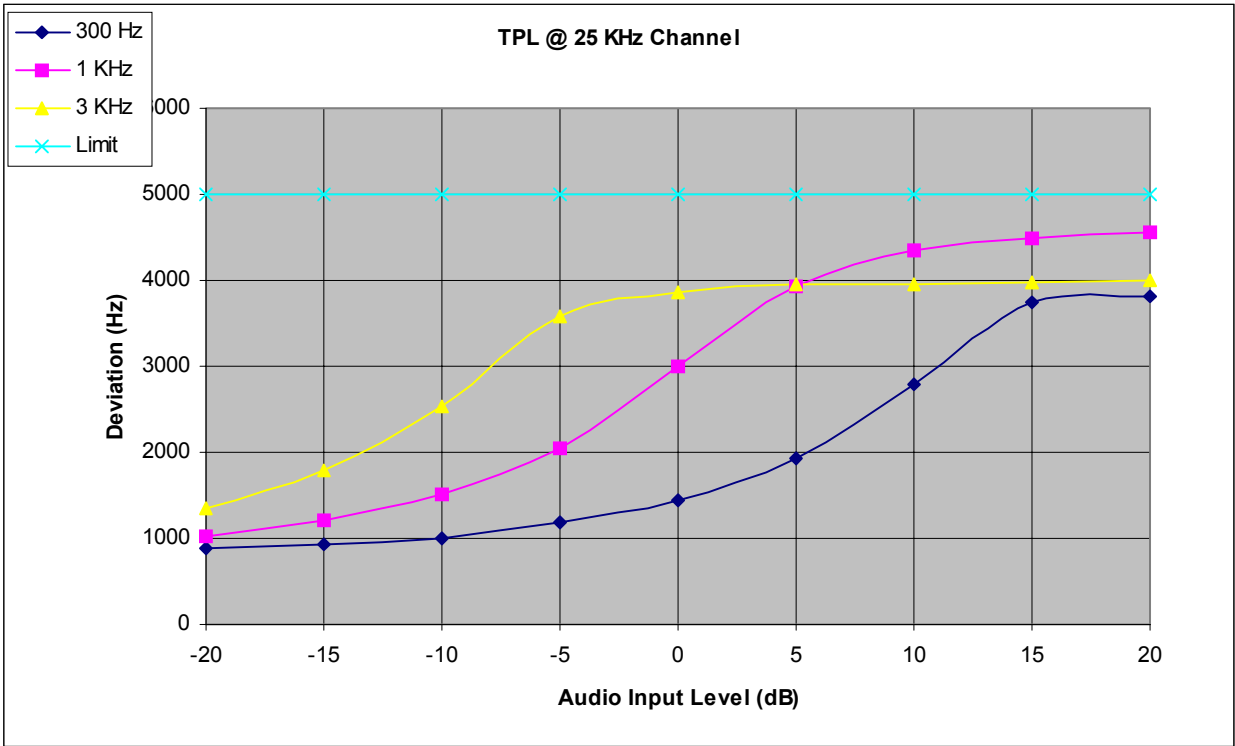
MODULATION LIMITING CHARACTERISTIC
12.5 kHz CHANNEL SPACING, DPL MODE



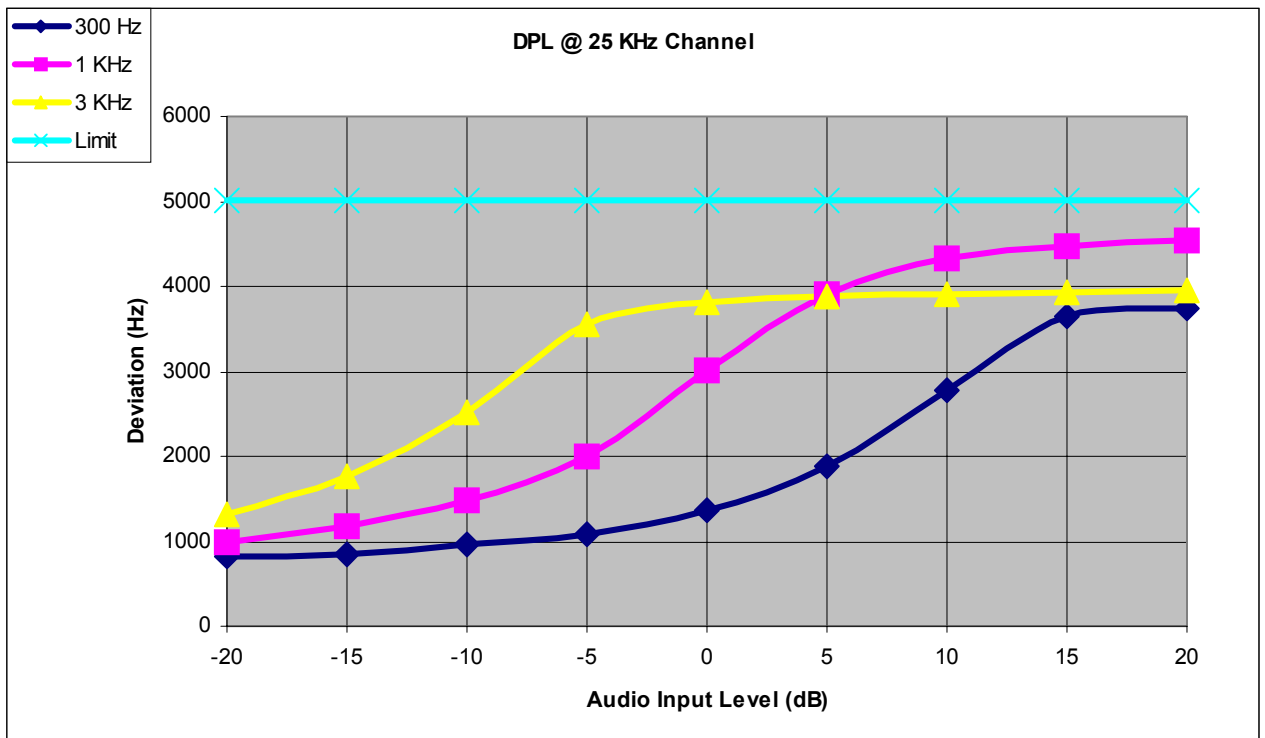
MODULATION LIMITING CHARACTERISTIC
25 kHz CHANNEL SPACING, CARRIER SQUELCH MODE



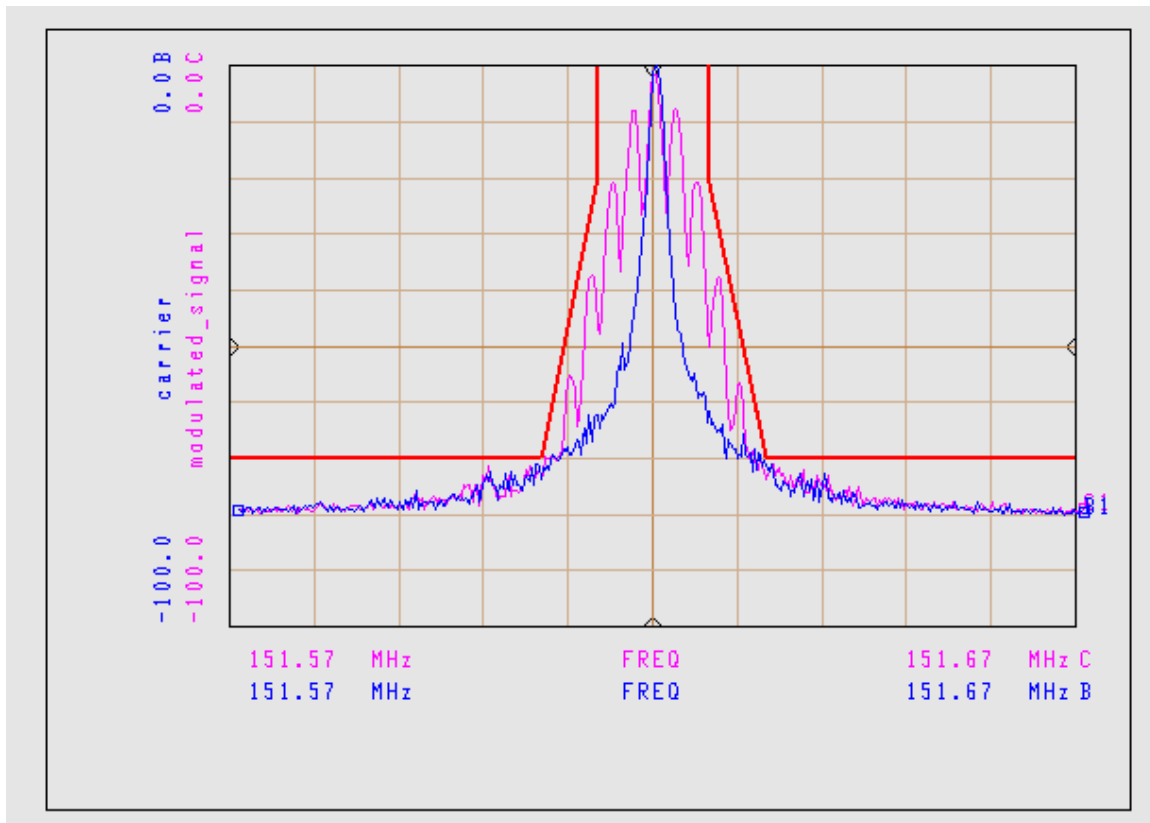
MODULATION LIMITING CHARACTERISTIC
25 kHz CHANNEL SPACING, TONE PL MODE



MODULATION LIMITING CHARACTERISTIC
25 kHz CHANNEL SPACING, DPL MODE

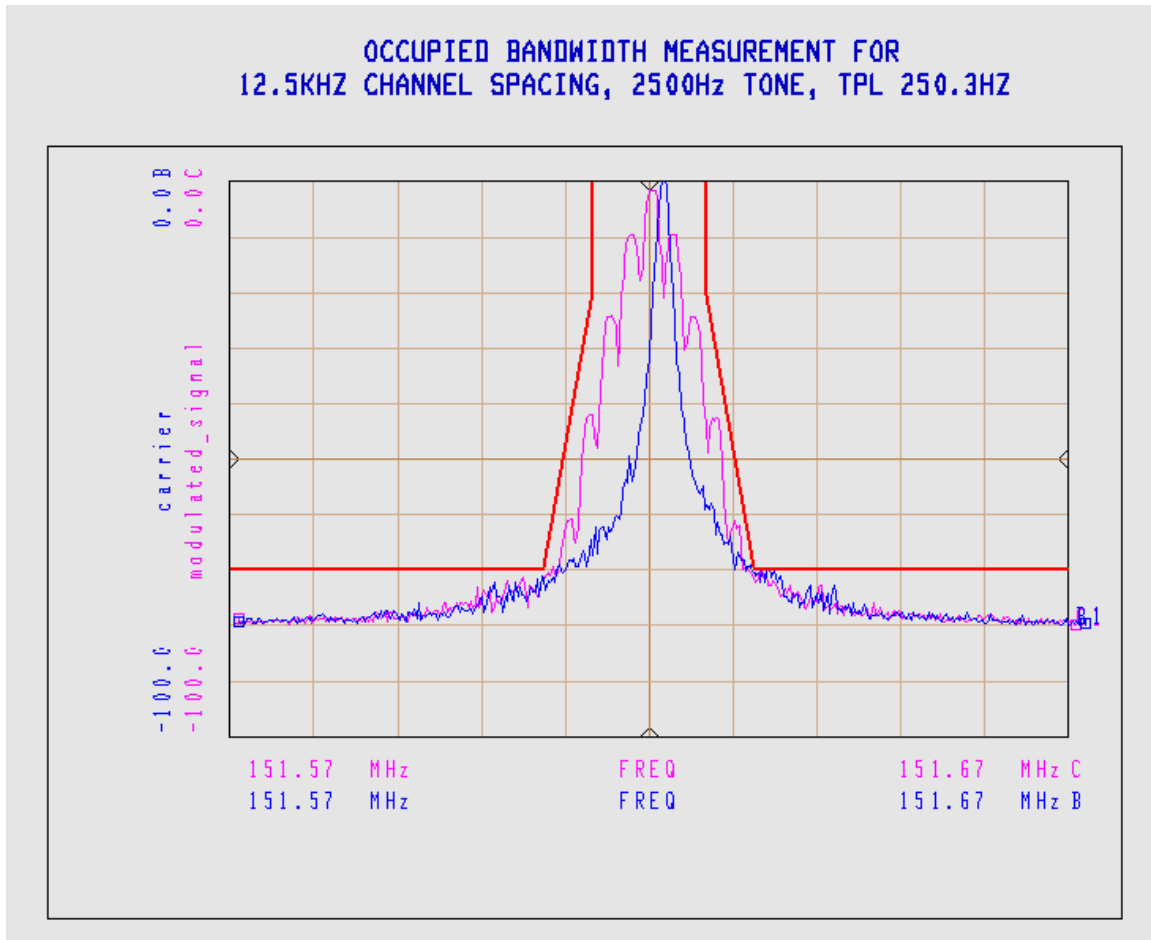


OCCUPIED BANDWIDTH MEASUREMENT FOR
12.5 kHz CHANNEL SPACING, 2500 Hz TONE, CARRIER SQUELCH
EMISSION MASK: D



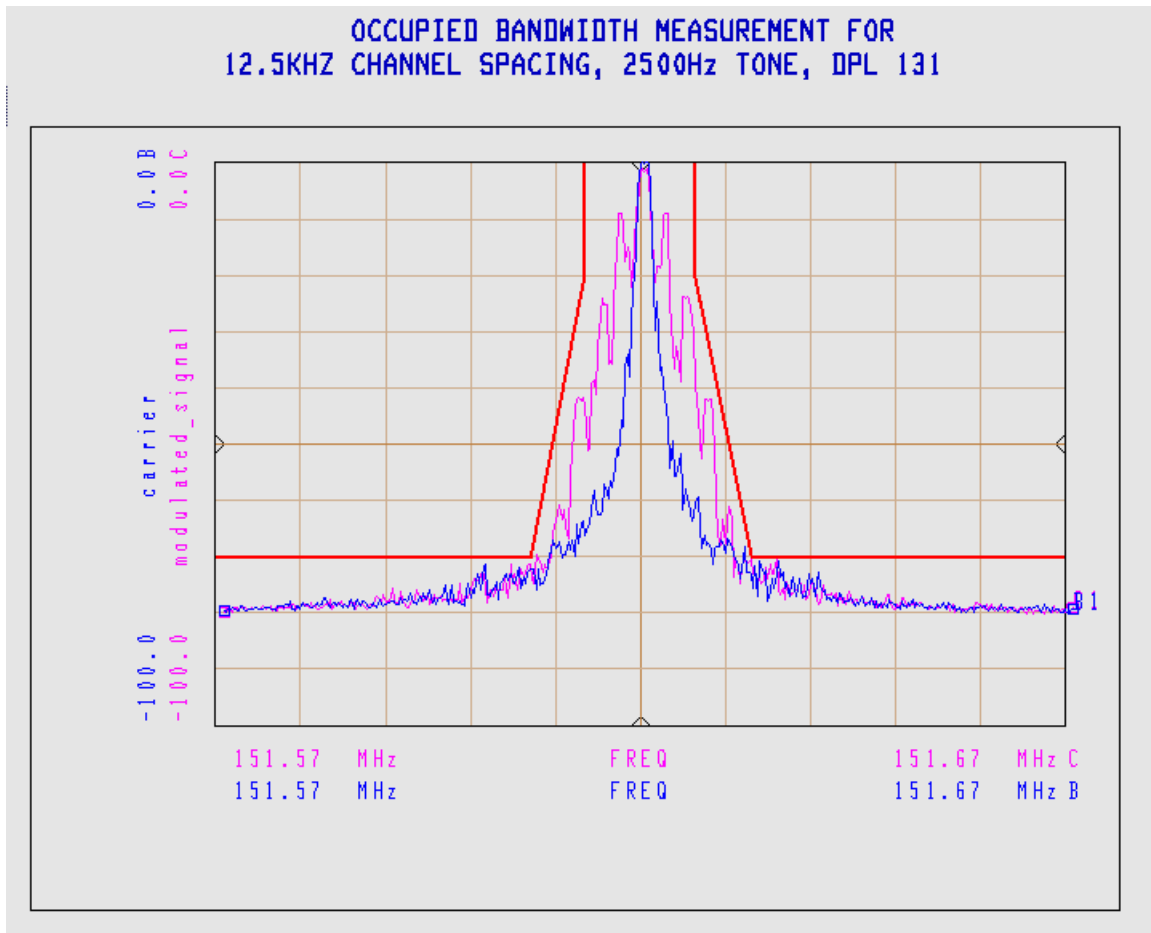
CENTER FREQUENCY:	151.625 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
12.5 kHz CHANNEL SPACING, 2500 Hz TONE, PL
EMISSION MASK: D



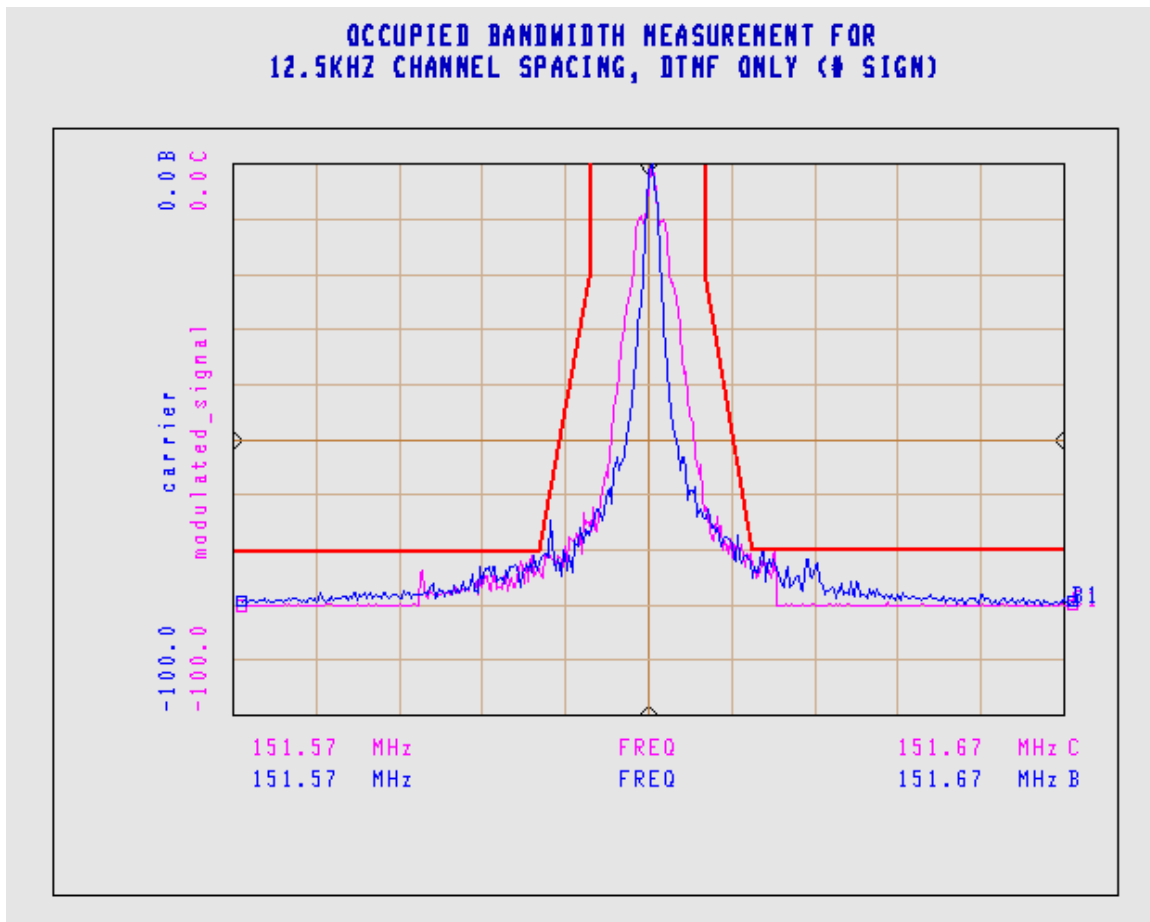
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VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
12.5 kHz CHANNEL SPACING, 2500 Hz TONE, DPL
EMISSION MASK: D



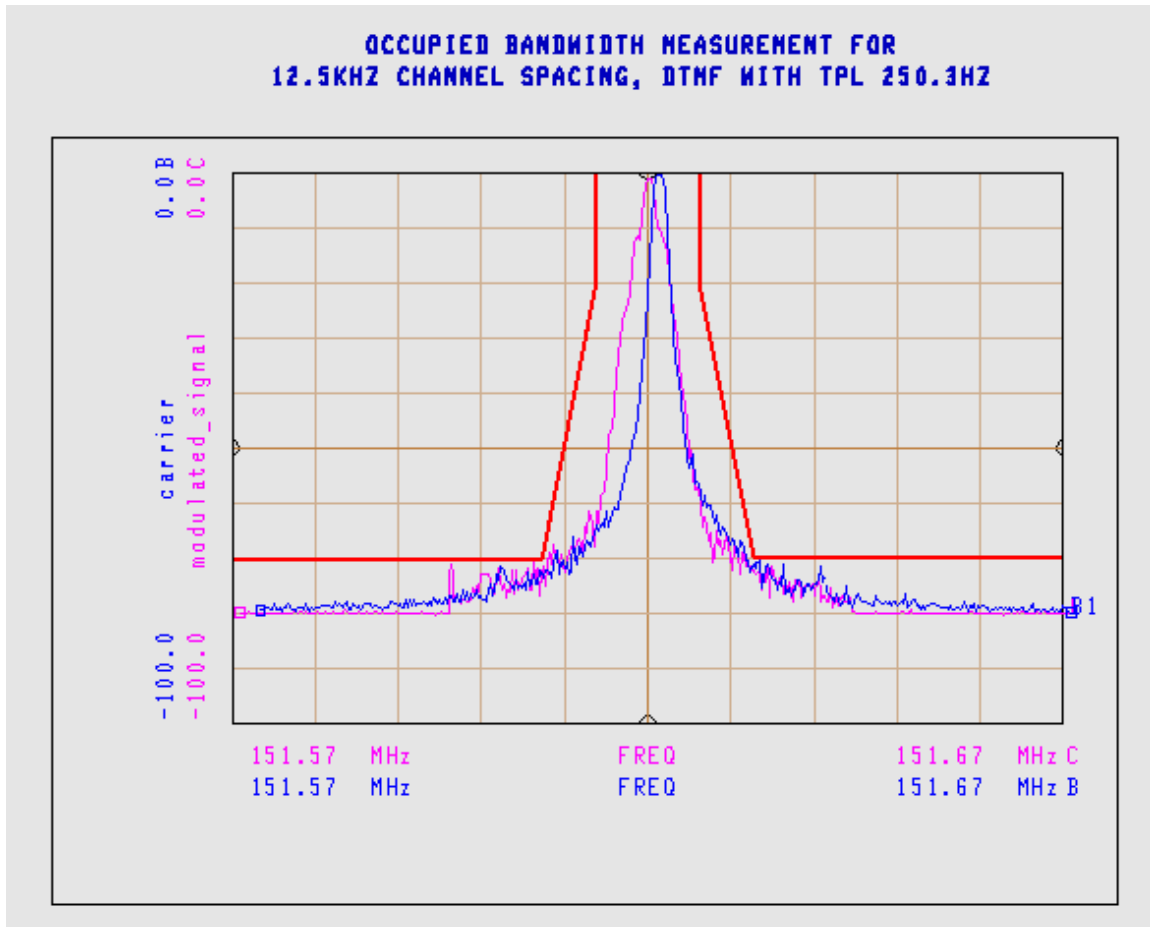
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VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
12.5 kHz CHANNEL SPACING, DTMF MODULATION, CARRIER SQUELCH
EMISSION MASK: D



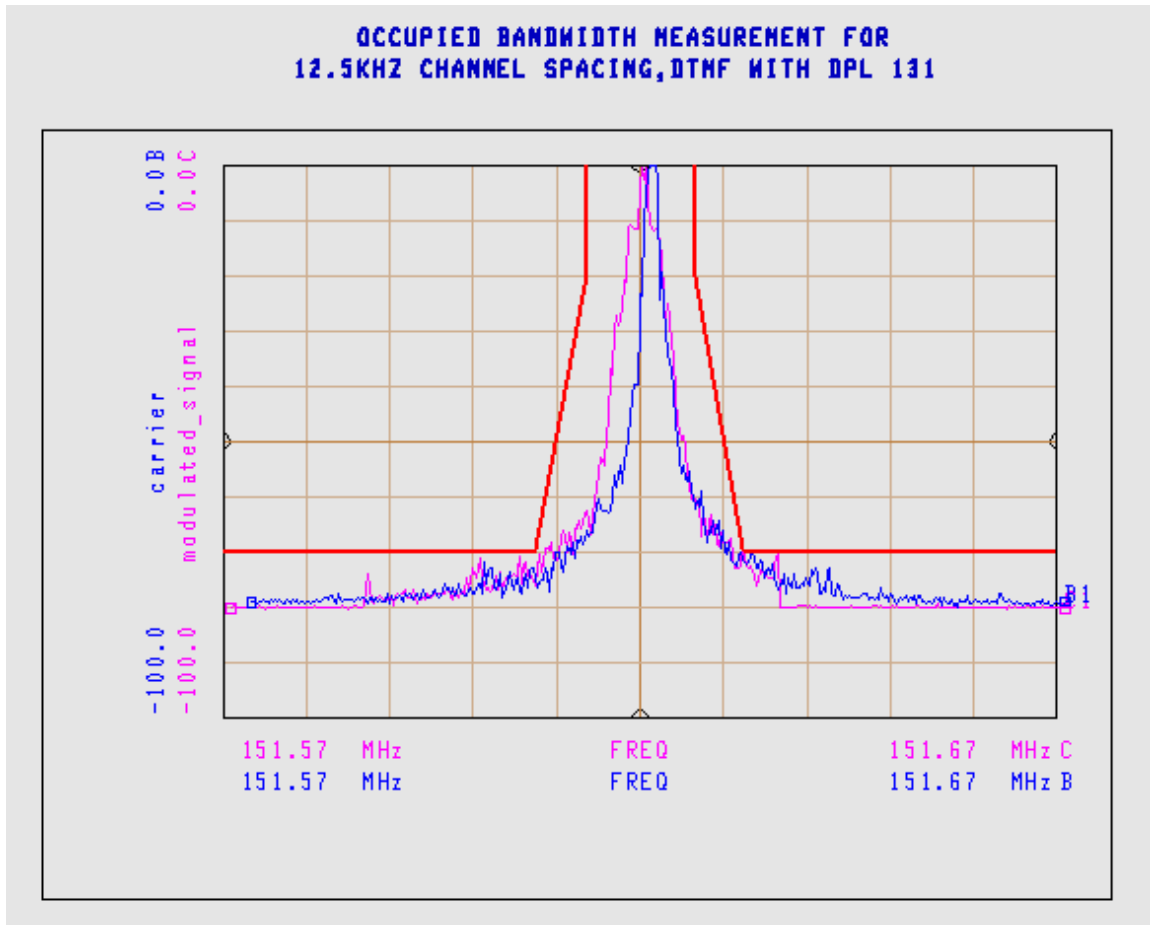
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VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
12.5 KHz CHANNEL SPACING, DTMF MODULATION, PL
EMISSION MASK: D



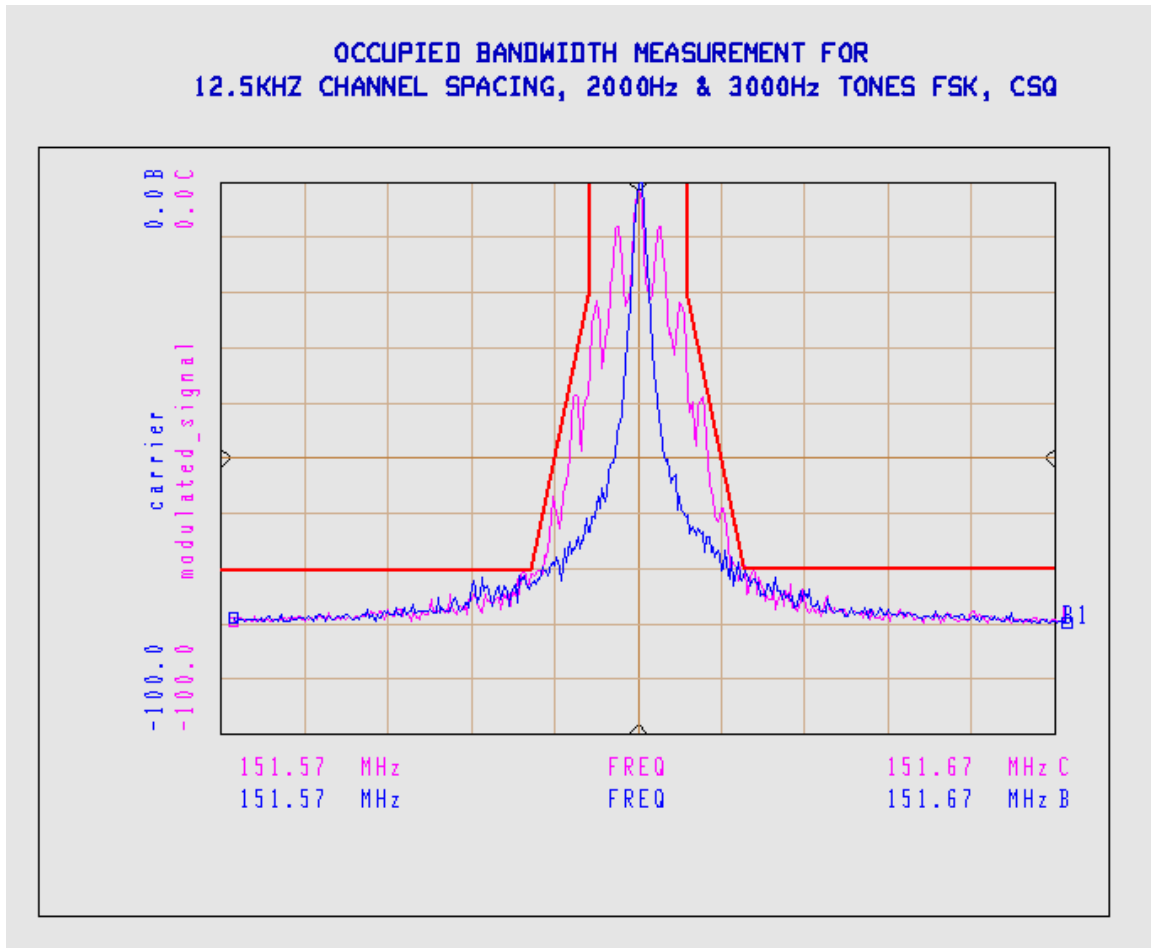
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VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
12.5 kHz CHANNEL SPACING, DTMF MODULATION, DPL
EMISSION MASK: D



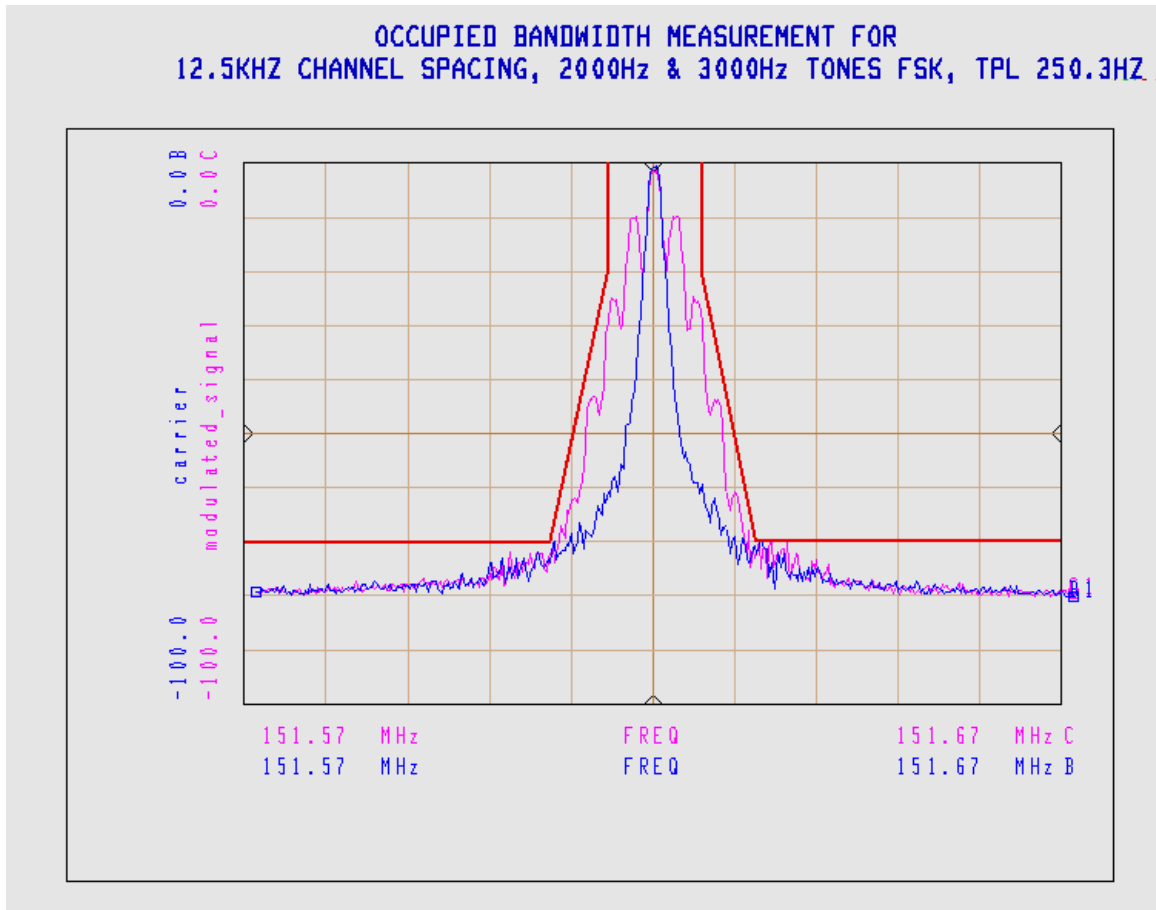
CENTER FREQUENCY:	151.625 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

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



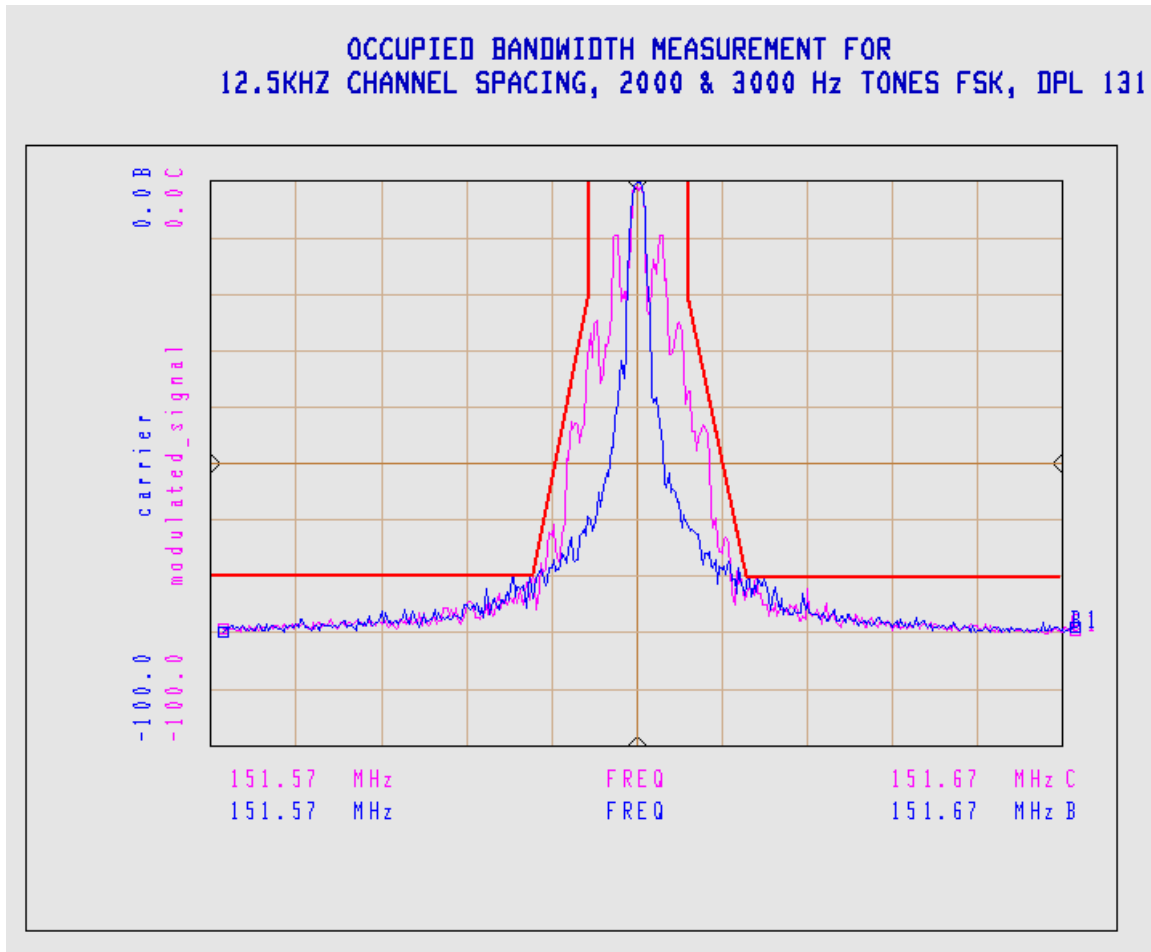
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VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

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



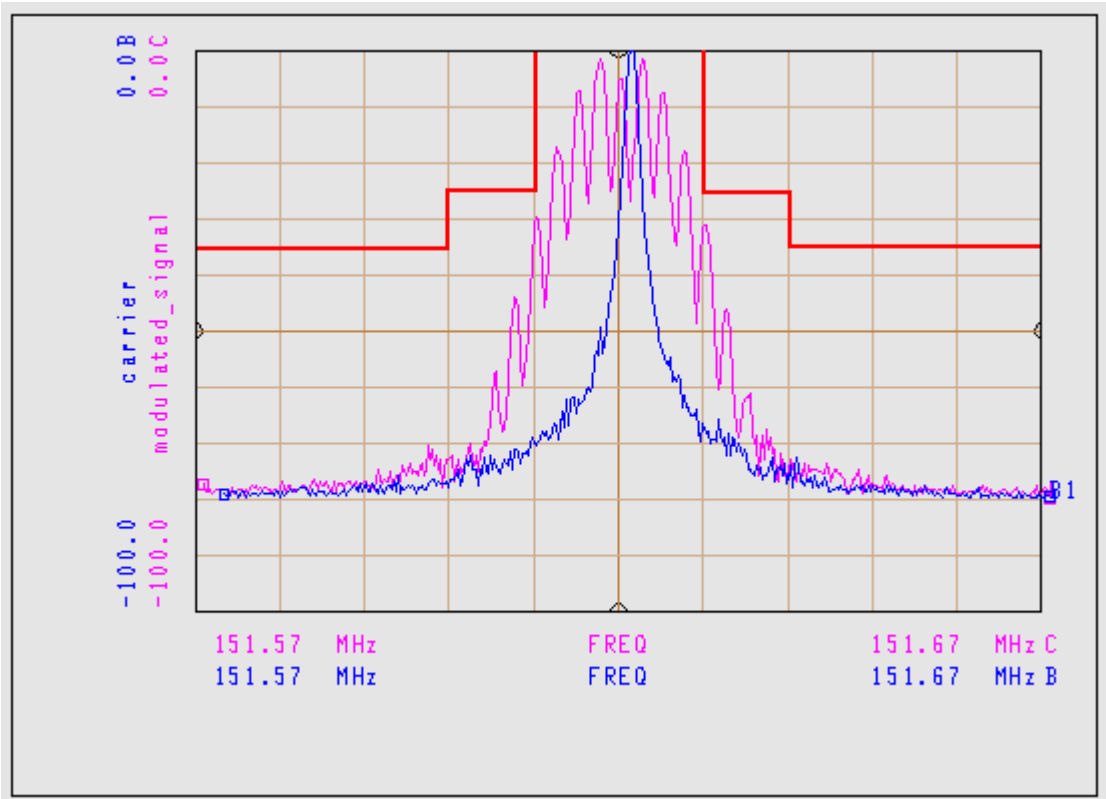
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RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

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



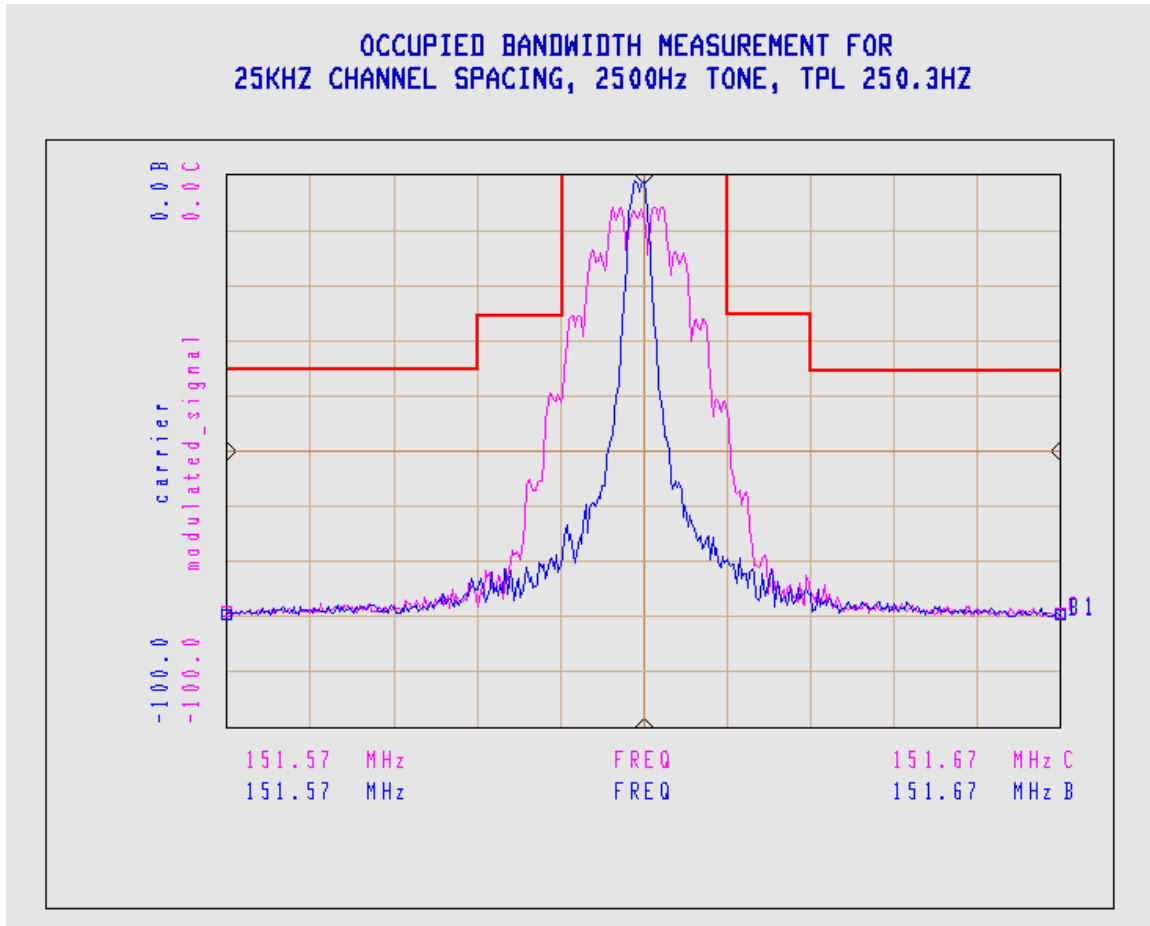
CENTER FREQUENCY:	151.625 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

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



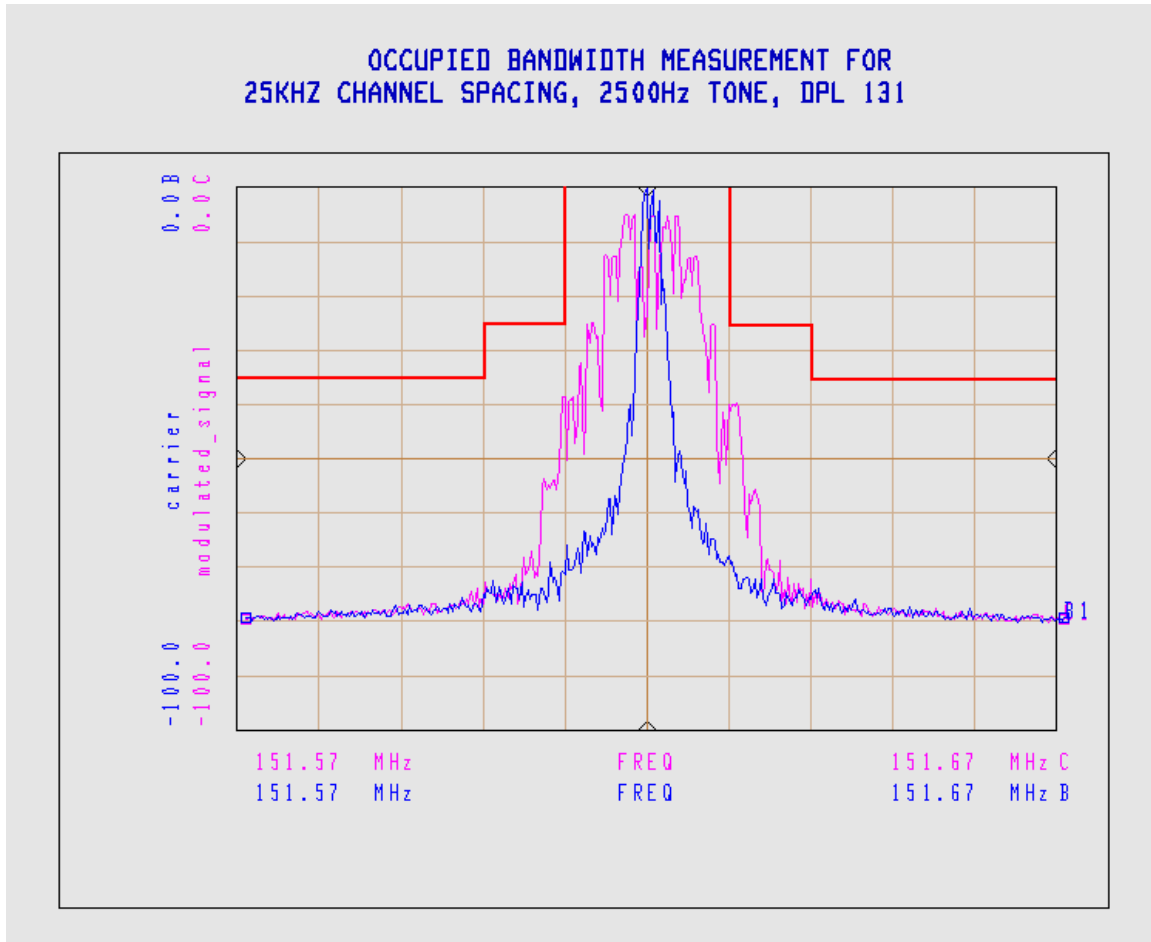
CENTER FREQUENCY:	151.625 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

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



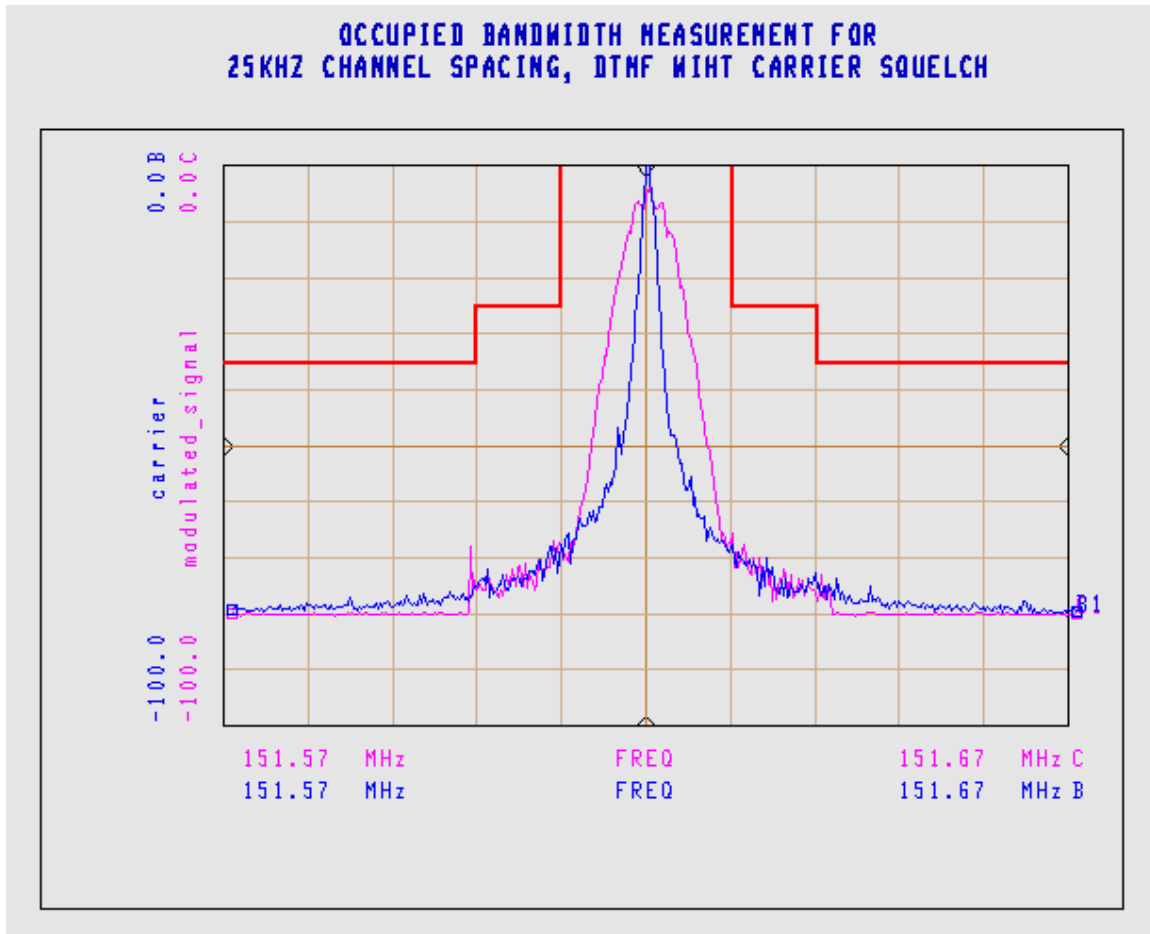
CENTER FREQUENCY:	151.625 MHz
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VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

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



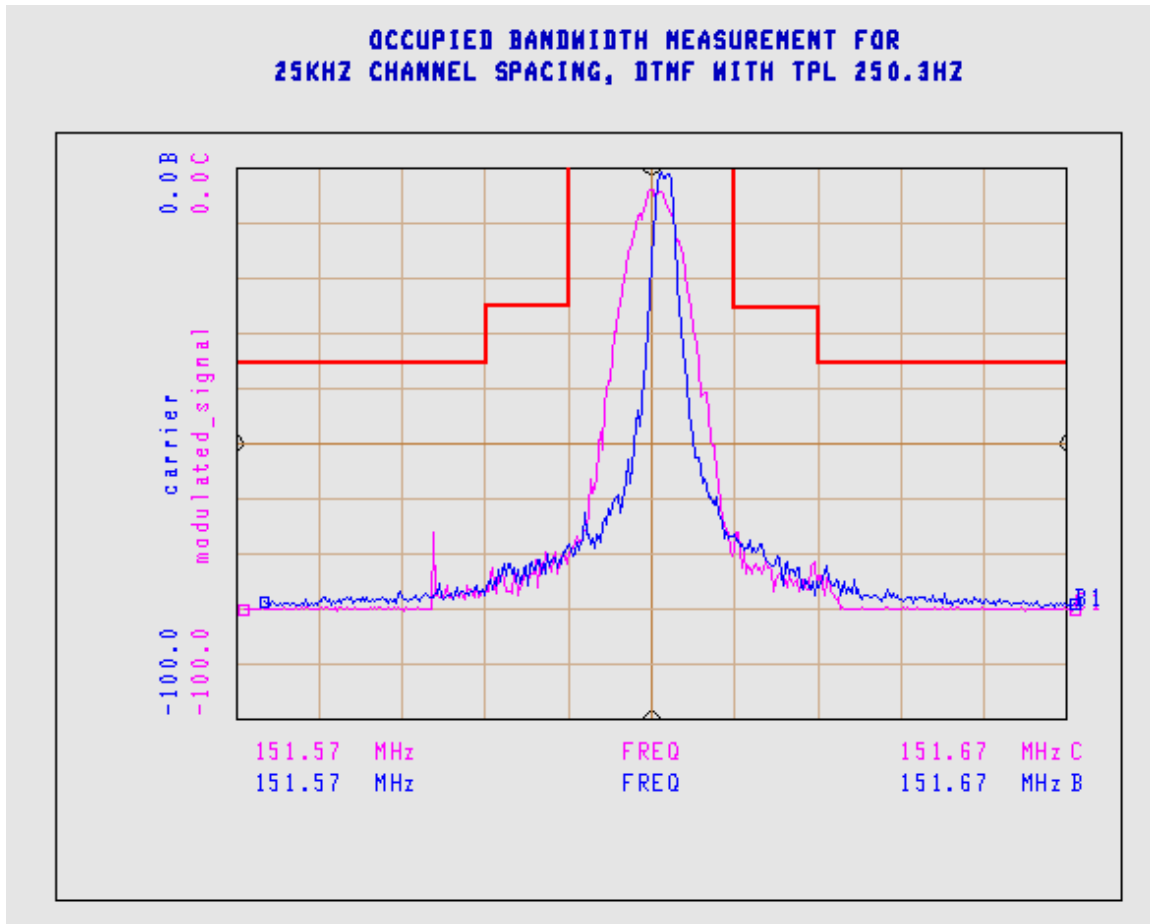
CENTER FREQUENCY:	151.625 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

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



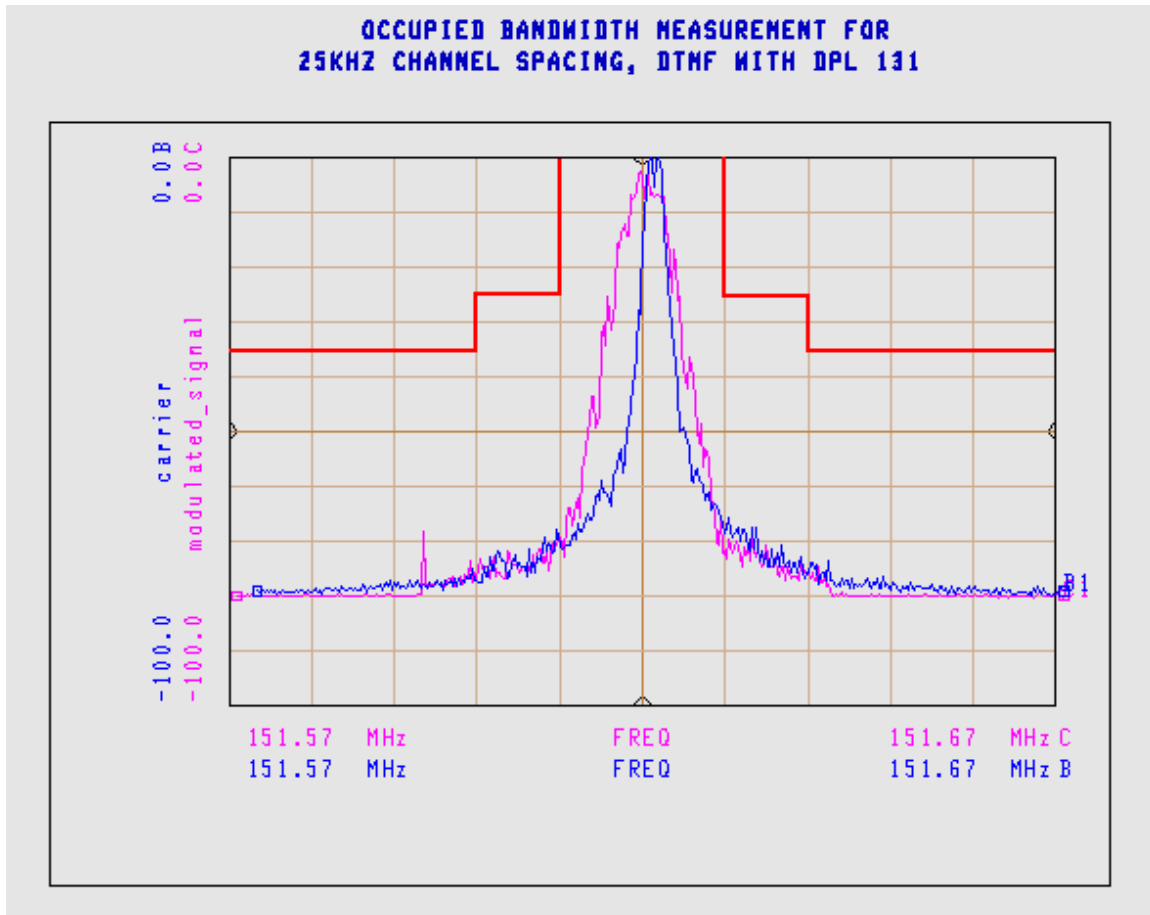
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VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
25 KHz CHANNEL SPACING, DTMF MODULATION, PL
EMISSION MASK: B



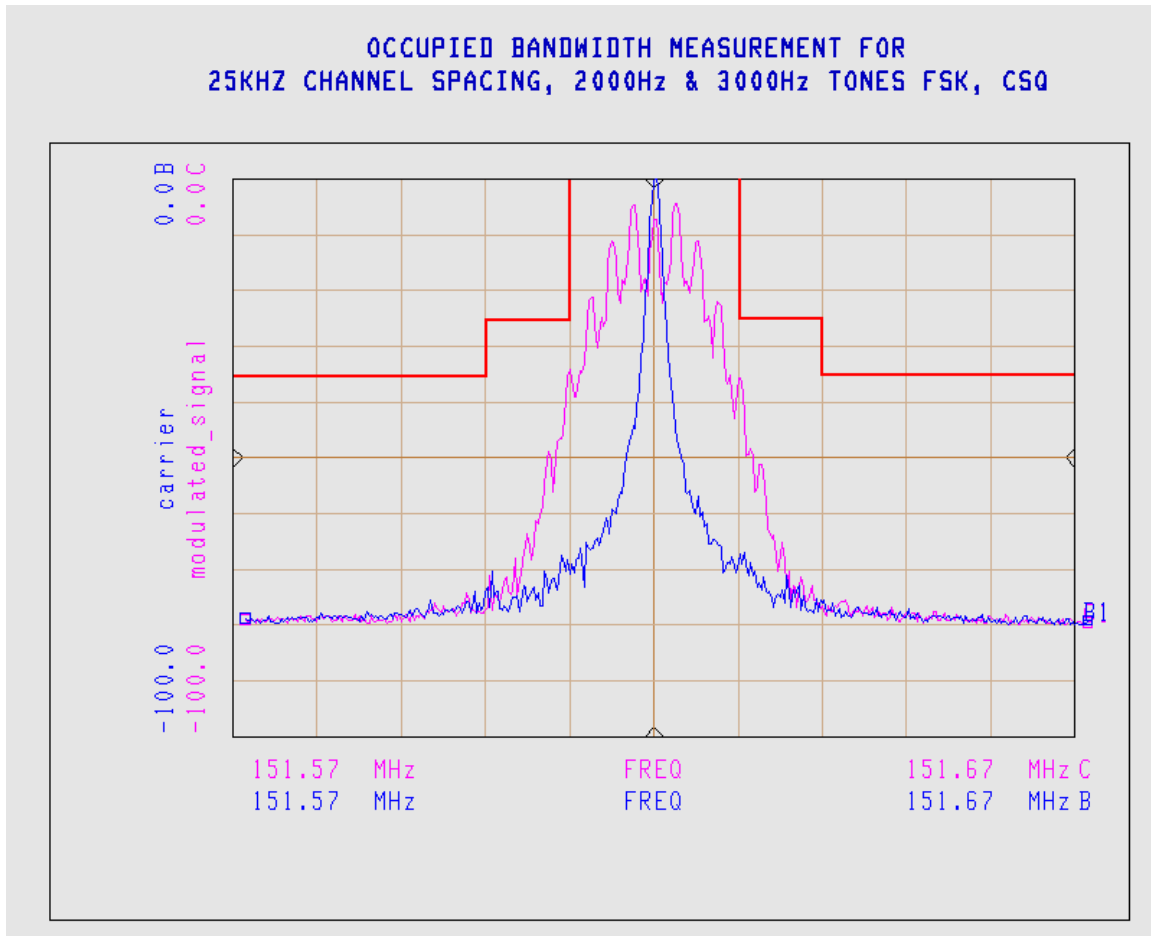
CENTER FREQUENCY:	151.625 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
25 KHz CHANNEL SPACING, DTMF MODULATION, DPL
EMISSION MASK: B



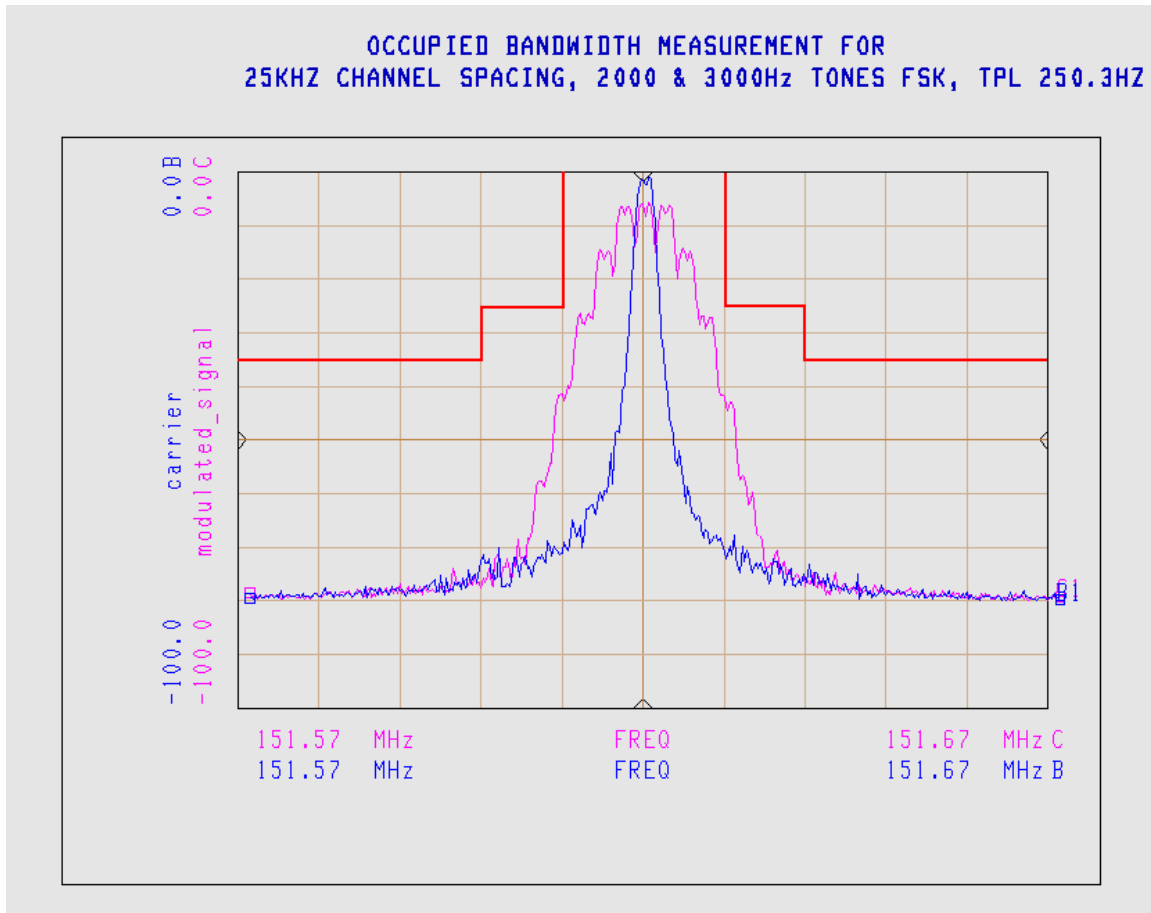
CENTER FREQUENCY:	151.625 MHz
RESOLUTION BANDWIDTH:	300 kHz
VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

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



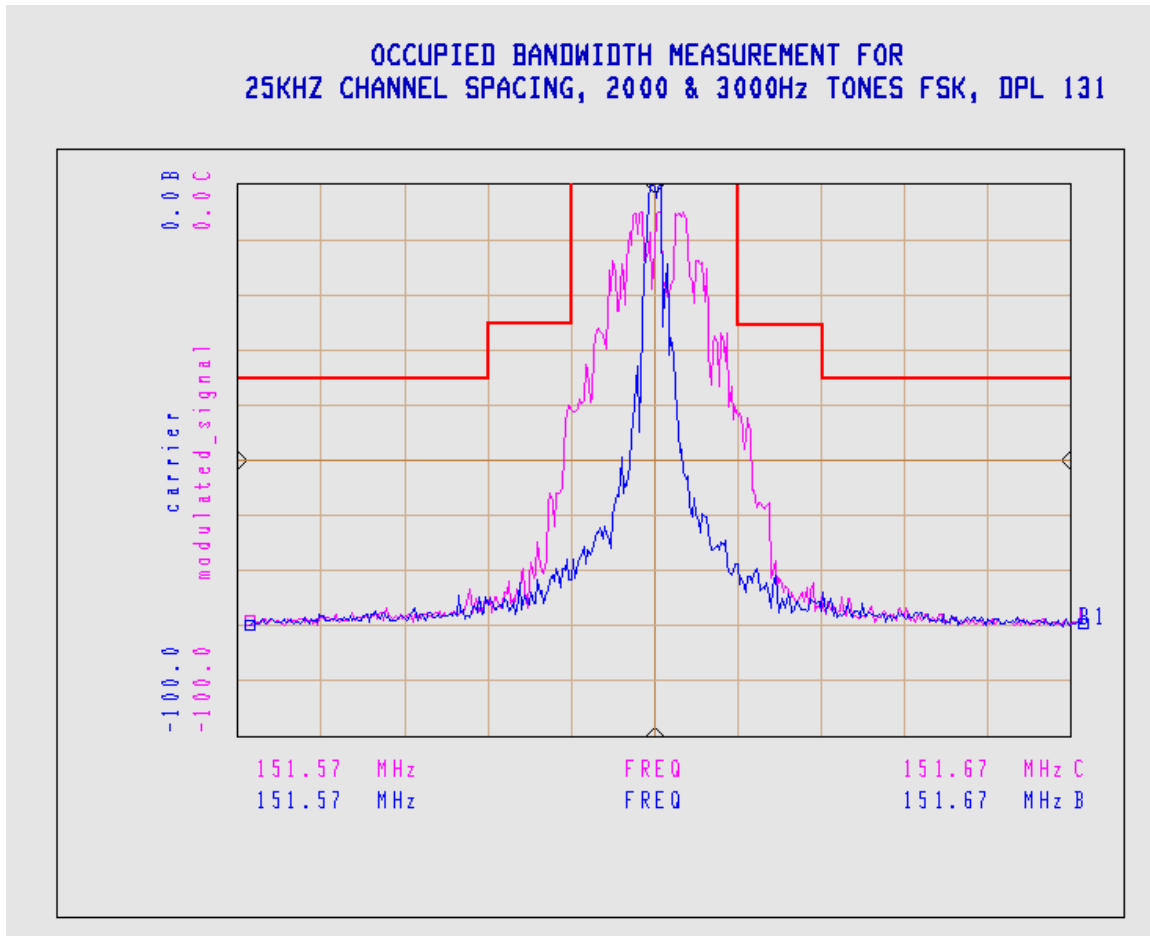
CENTER FREQUENCY:	151.625 MHz
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VIDEO BANDWIDTH:	300 kHz
SPAN:	100 kHz
SWEEP TIME:	3 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

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



CENTER FREQUENCY:	151.625 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

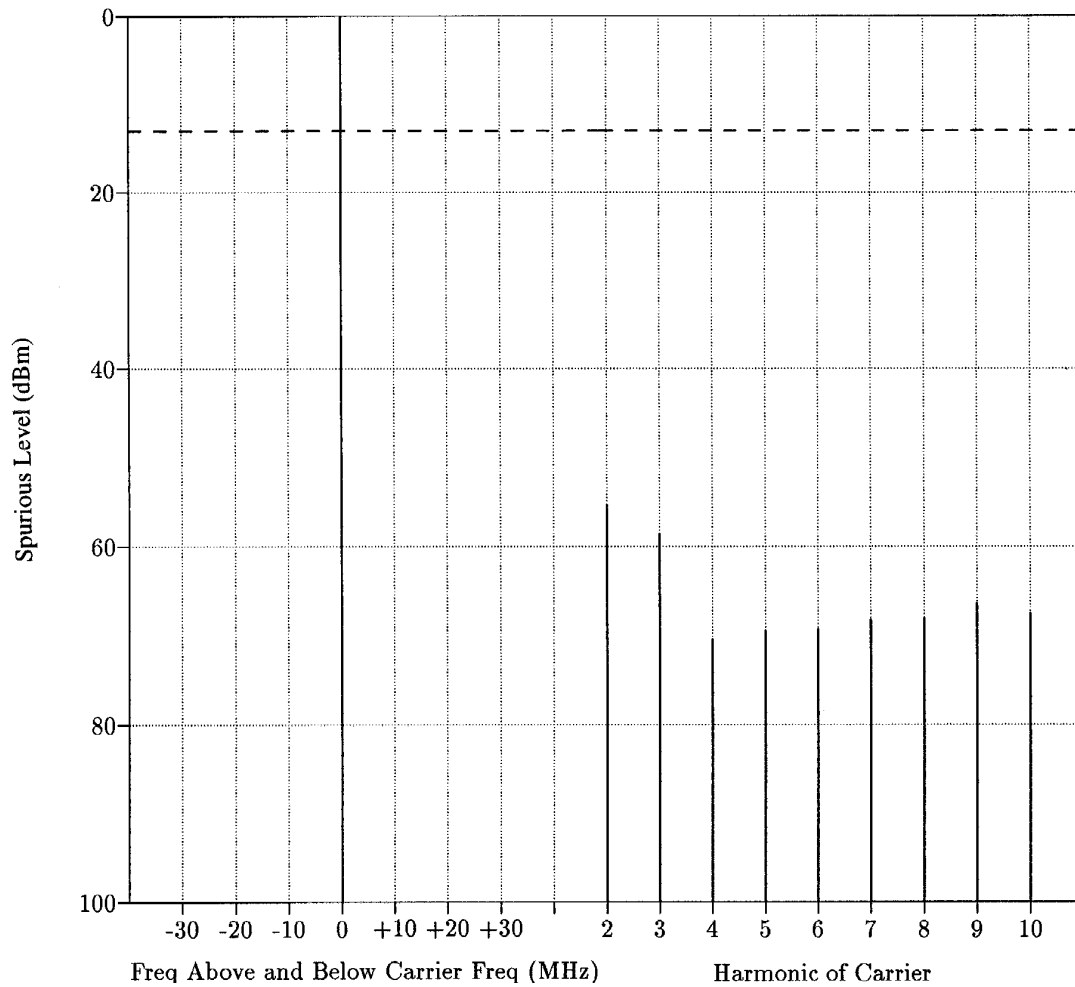
OCCUPIED BANDWIDTH MEASUREMENT FOR
25 kHz CHANNEL SPACING, 2000/3000 Hz FSK, DPL
EMISSION MASK: B



CENTER FREQUENCY:	151.625 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

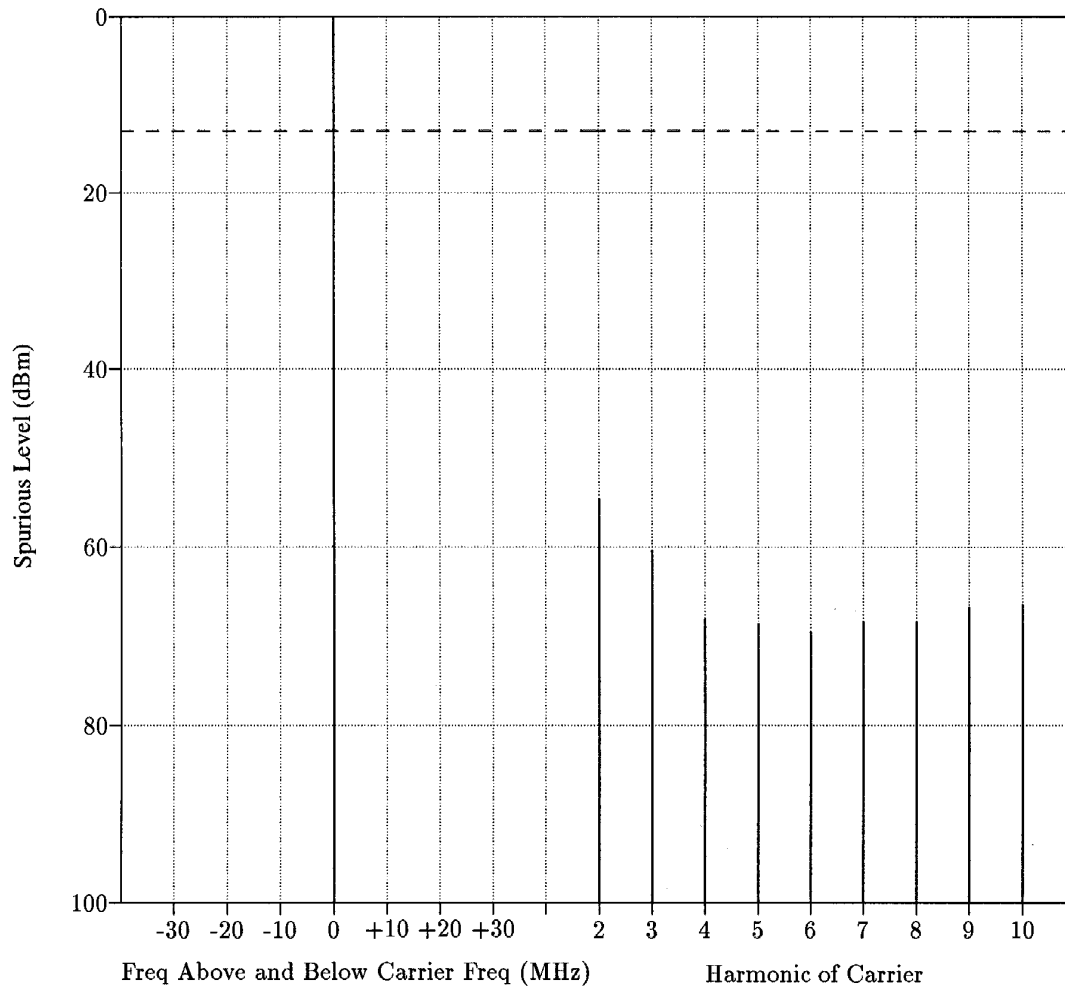
**CONDUCTED SPURIOUS EMISSIONS
HIGH POWER, 136.000 MHz**

Transmitter Type: See Above
Power Output: 54.00W at 136.000MHz



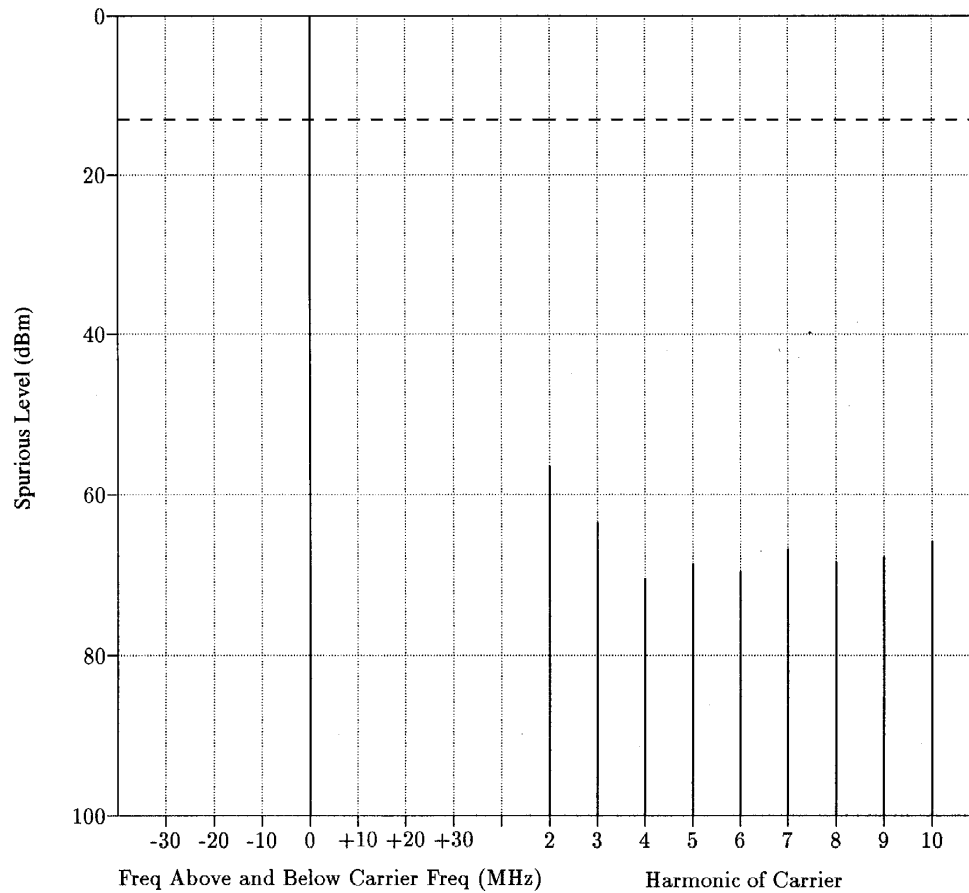
**CONDUCTED SPURIOUS EMISSIONS
HIGH POWER, 155.000 MHz**

Transmitter Type: See Above
Power Output: 54.00W at 155.0000MHz



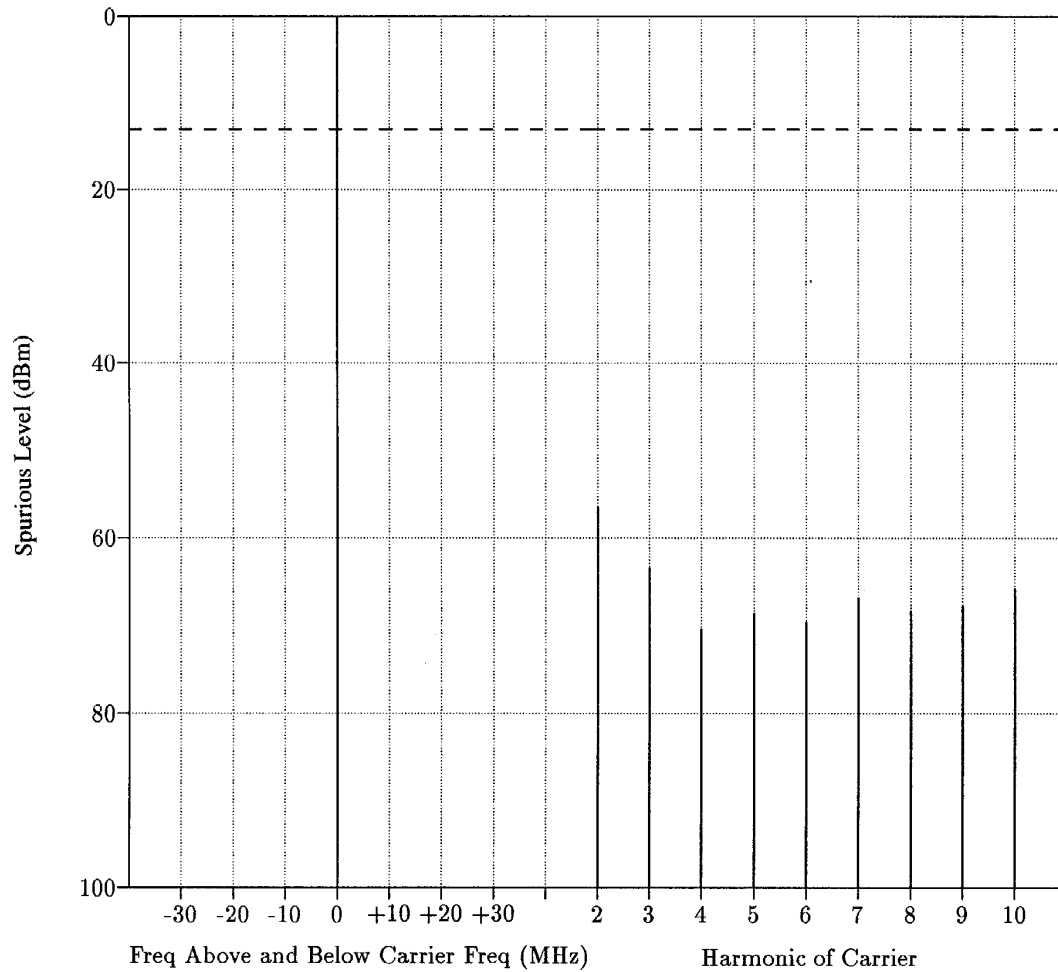
**CONDUCTED SPURIOUS EMISSIONS
HIGH POWER, 174.000 MHz**

Transmitter Type: See Above
Power Output: 54.00W at 174.000MHz



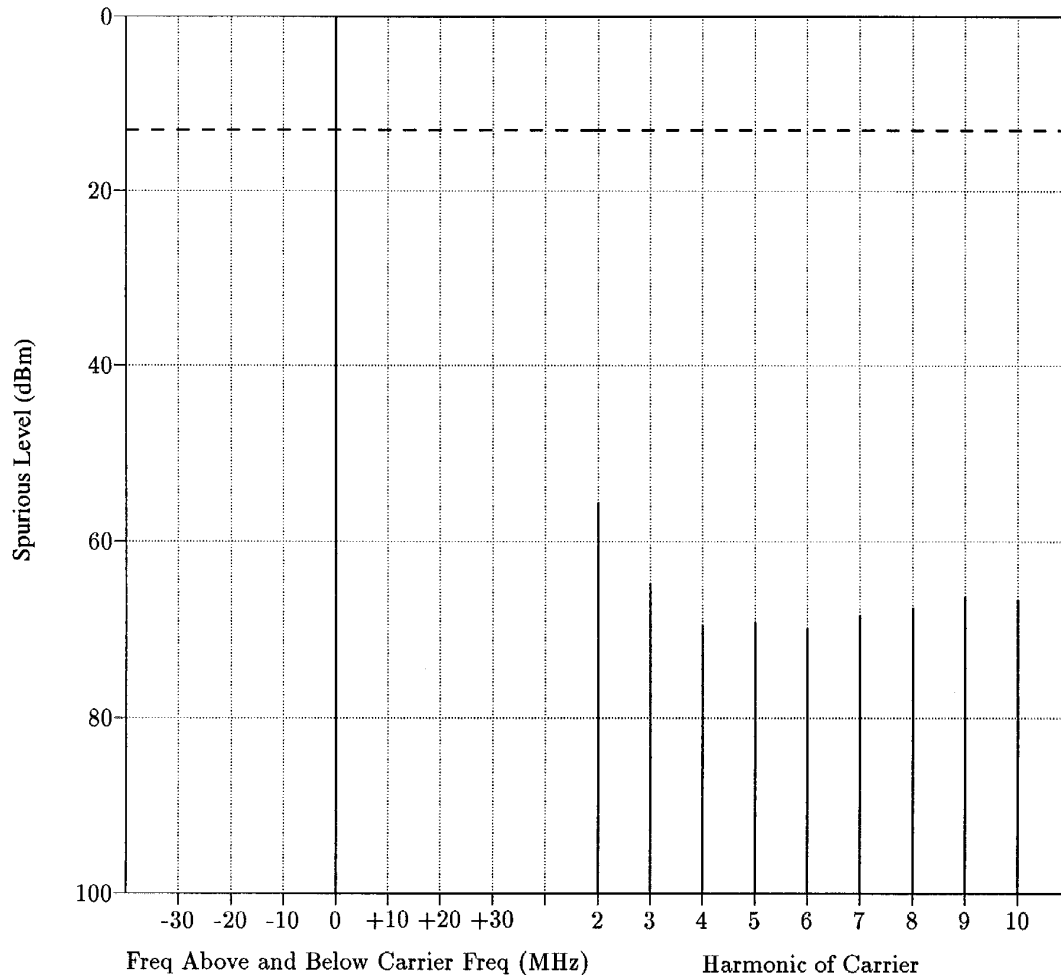
CONDUCTED SPURIOUS EMISSIONS
LOW POWER, 136.000 MHz

Transmitter Type: See Above
Power Output: 25.00W at 136.000MHz



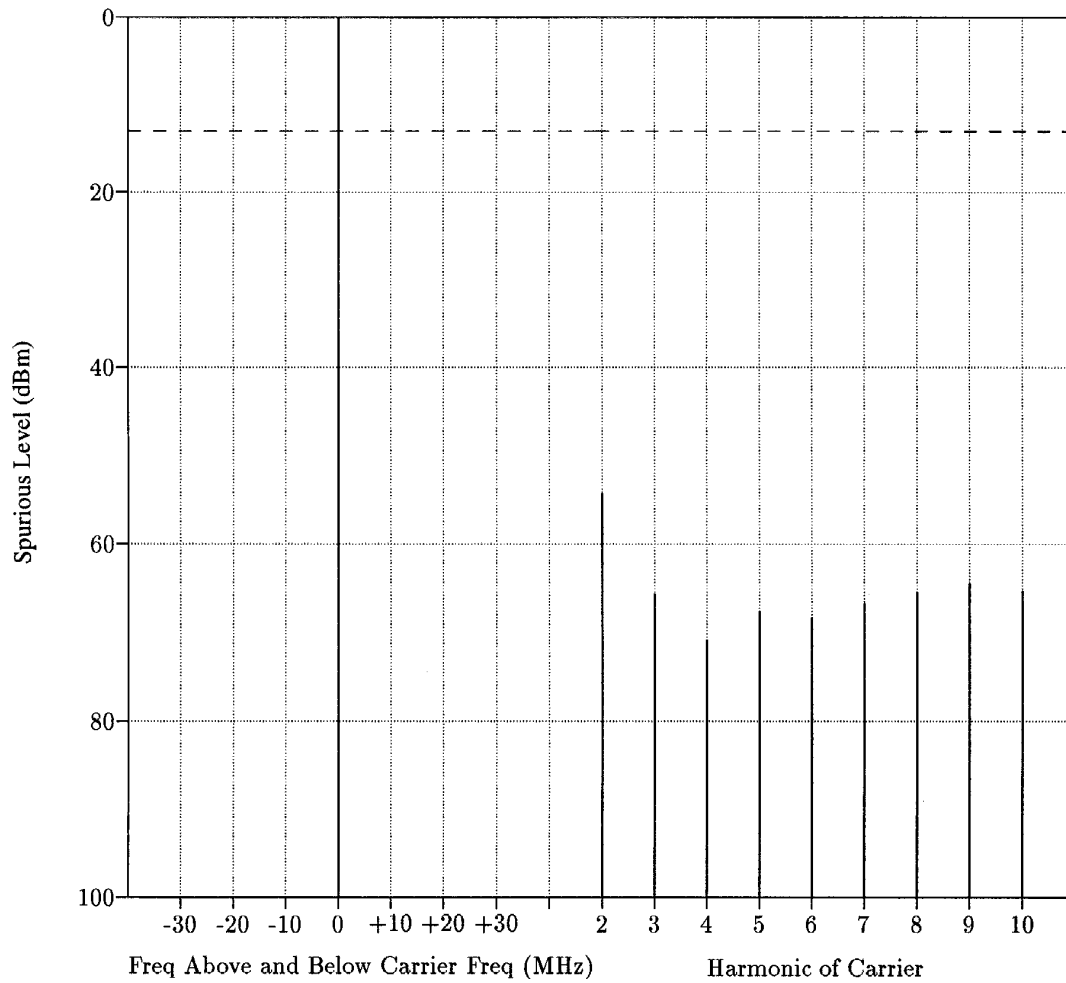
CONDUCTED SPURIOUS EMISSIONS
LOW POWER, 155.000 MHz

Transmitter Type: See Above
Power Output: 25.00W at 155.000MHz



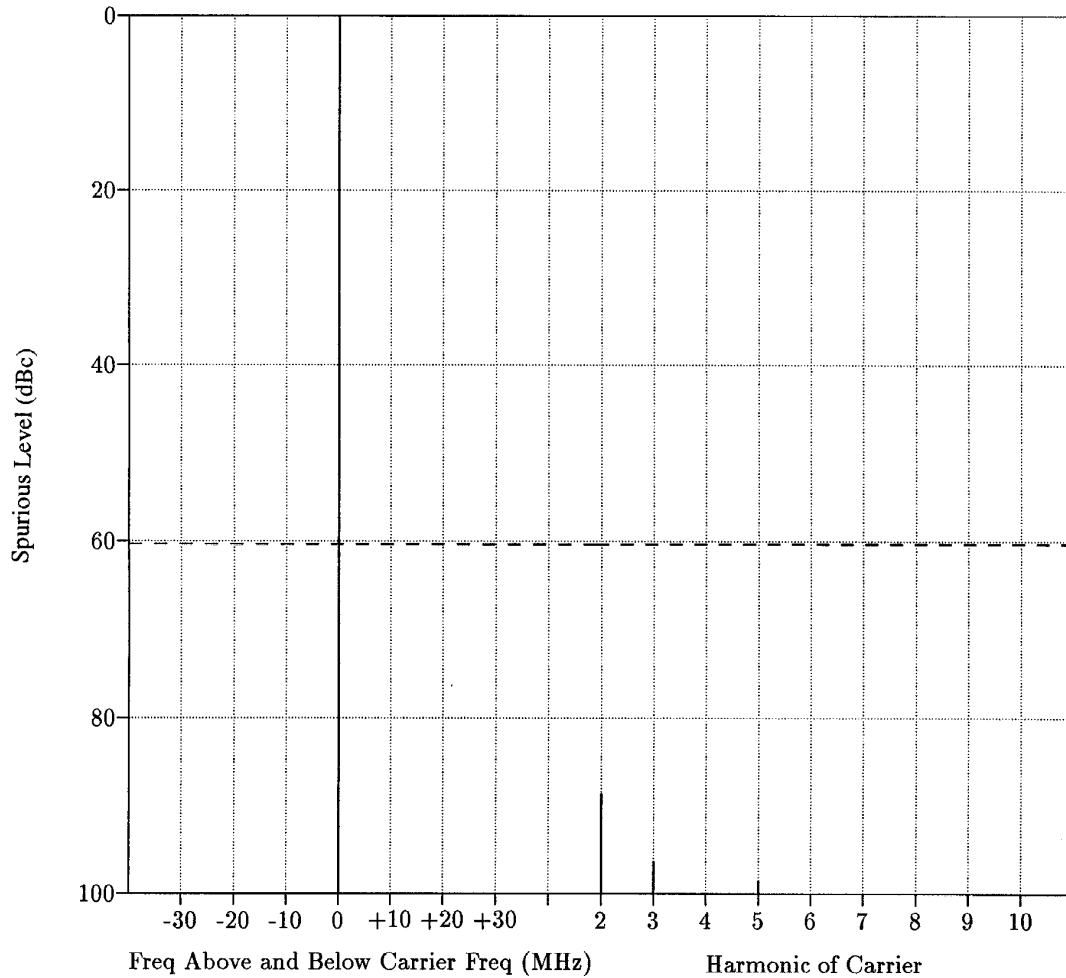
CONDUCTED SPURIOUS EMISSIONS
LOW POWER, 174.000 MHz

Transmitter Type: See Above
Power Output: 25.00W at 174.000MHz



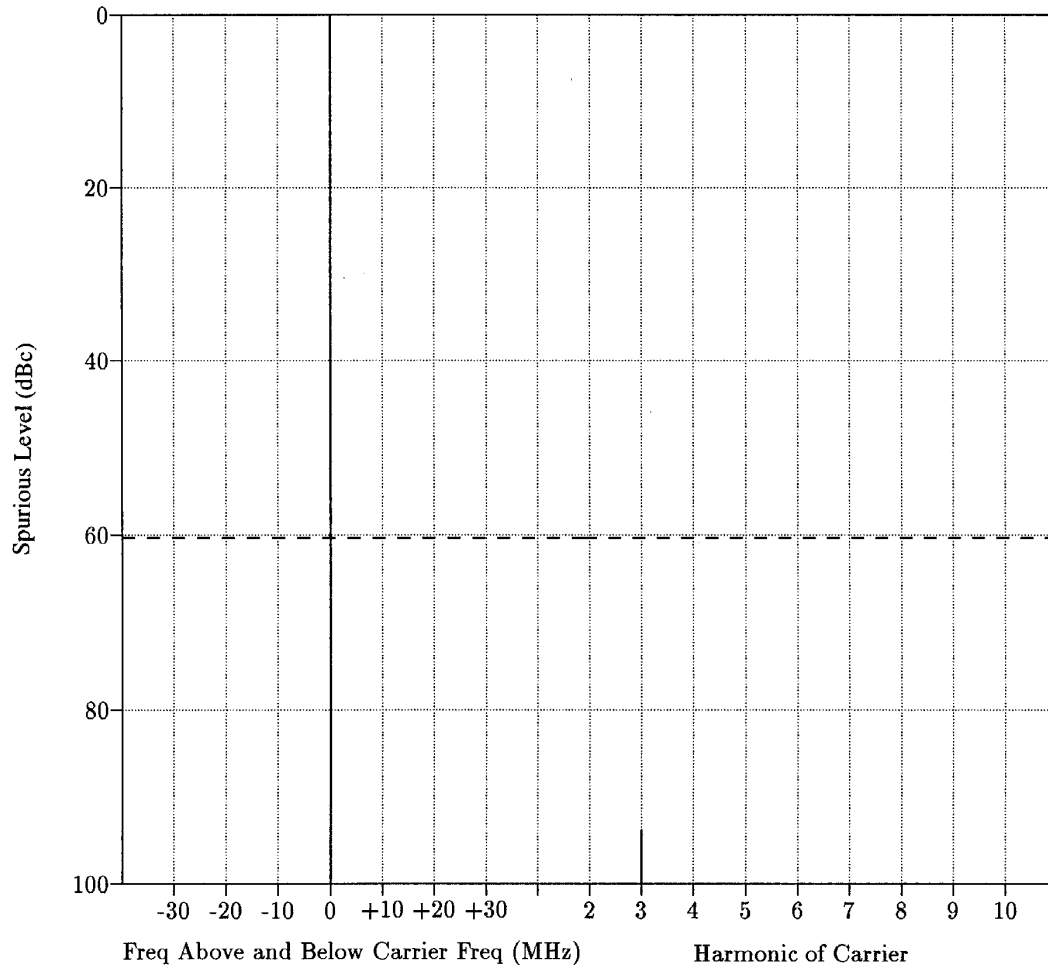
RADIATED SPURIOUS EMISSIONS
HIGH POWER, 150.000 MHz, HORIZONTAL POLARIZATION

Antenna Polarization: HORIZONTAL
Power Output: 54.00W at 150.0000MHz



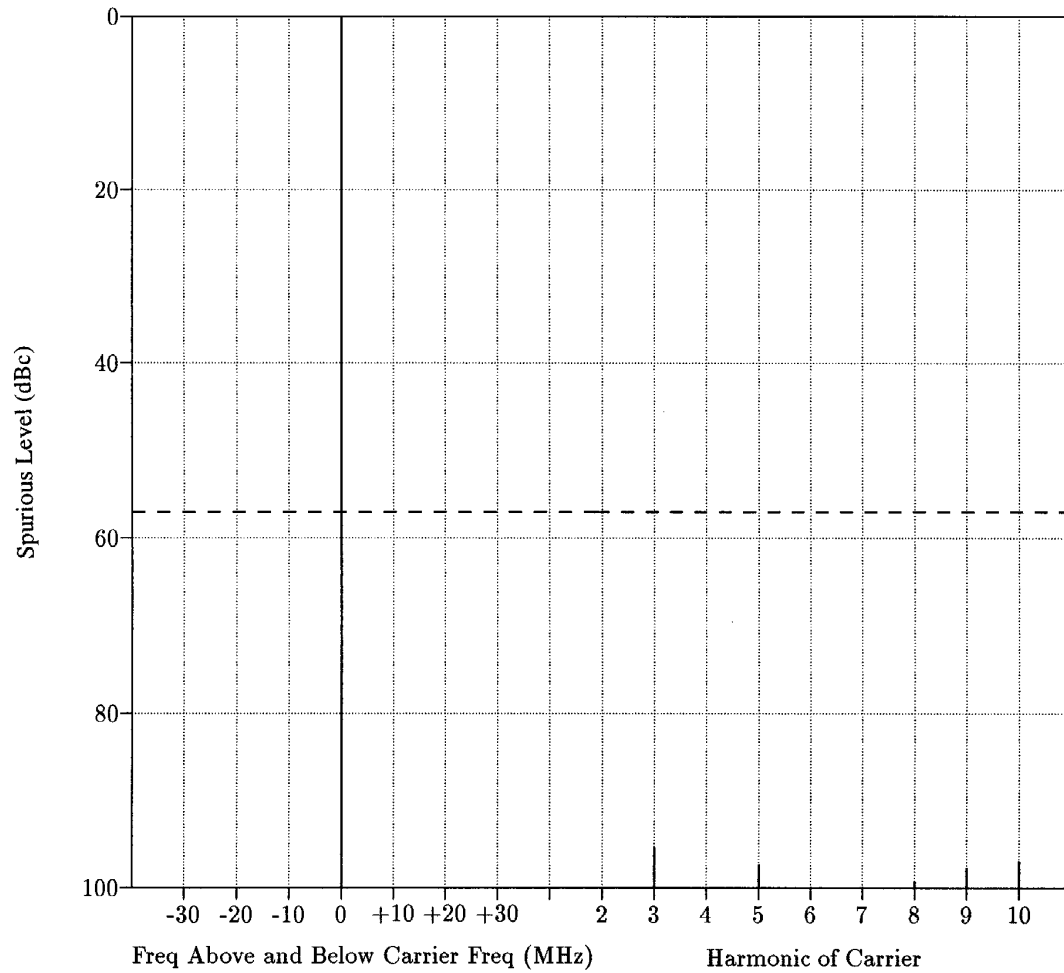
RADIATED SPURIOUS EMISSIONS
HIGH POWER, 150.000 MHz, VERTICAL POLARIZATION

Antenna Polarization: VERTICAL
Power Output: 54.00W at 150.000MHz



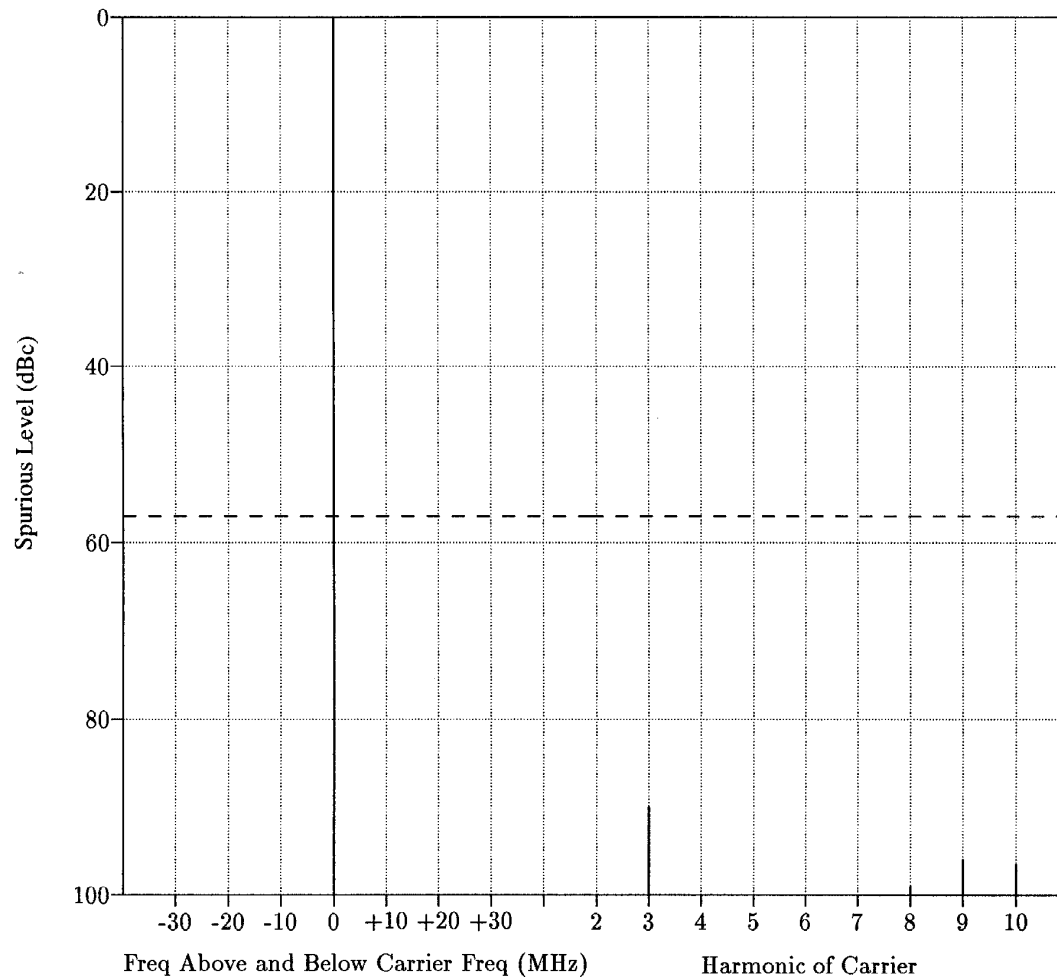
RADIATED SPURIOUS EMISSIONS
LOW POWER, 150.000 MHz, HORIZONTAL POLARIZATION

Antenna Polarization: HORIZONTAL
Power Output: 25.00W at 150.0000MHz

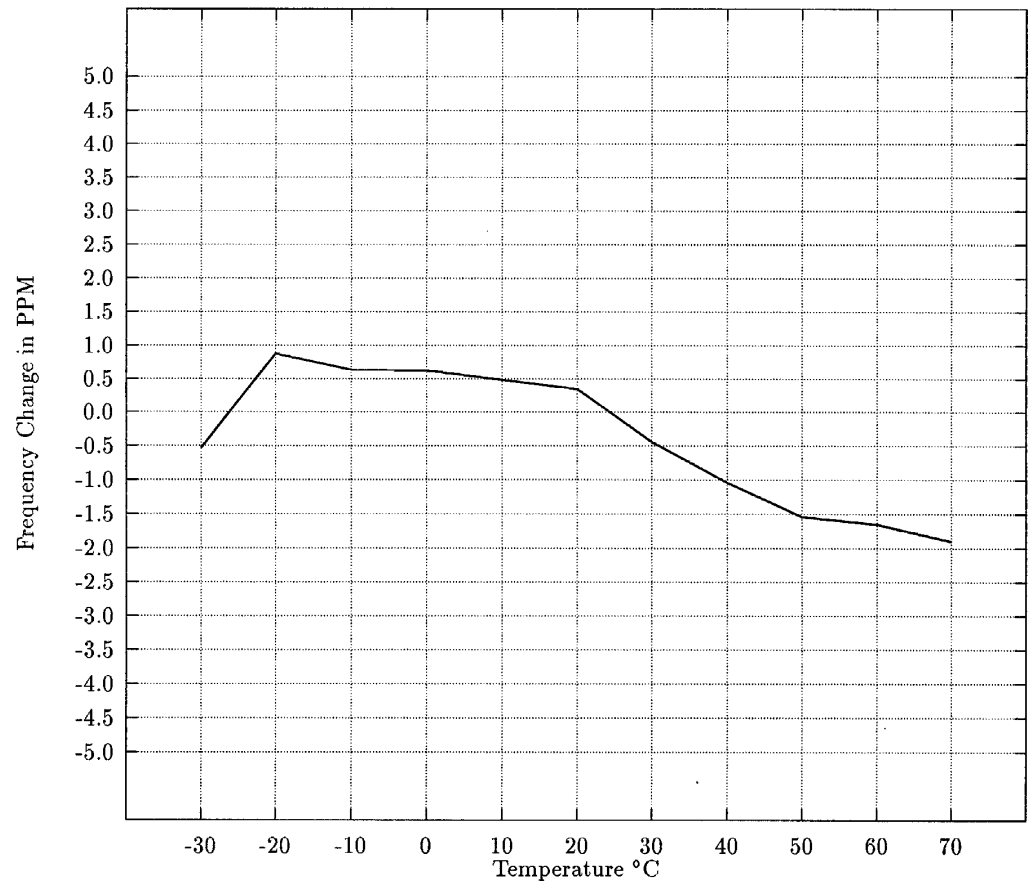


RADIATED SPURIOUS EMISSIONS
LOW POWER, 150.000 MHz, VERTICAL POLARIZATION

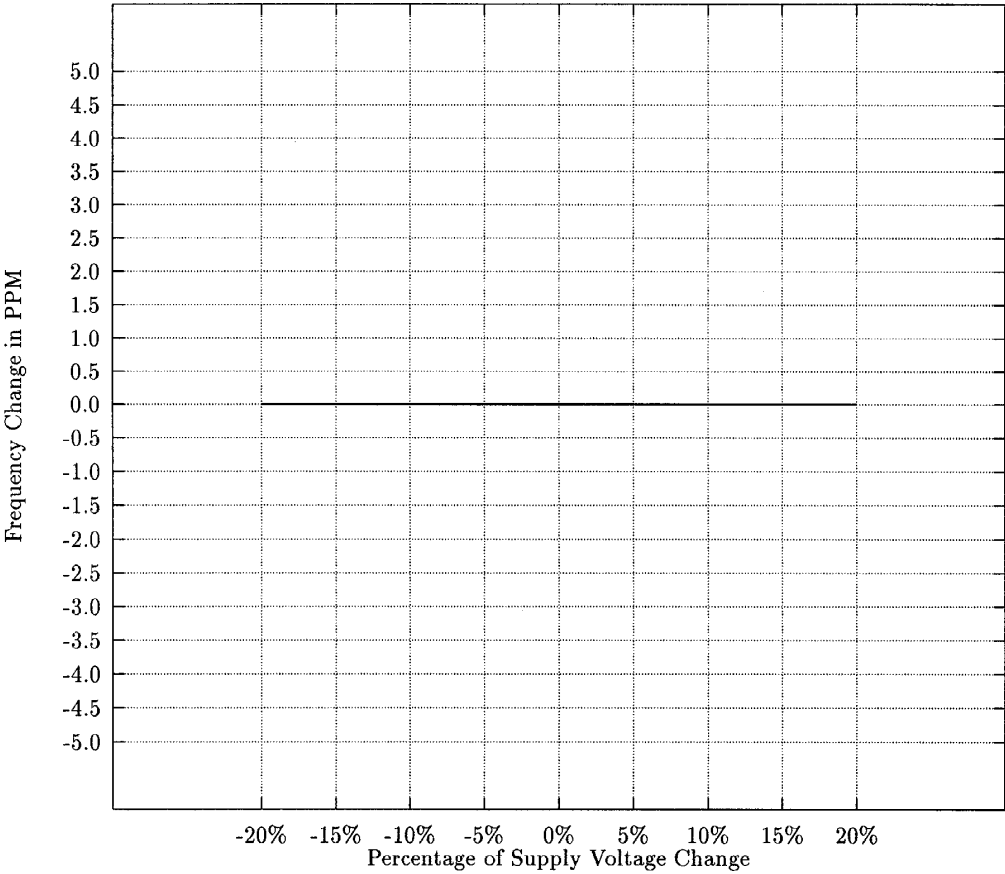
Antenna Polarization: VERTICAL
Power Output: 25.00W at 150.0000MHz



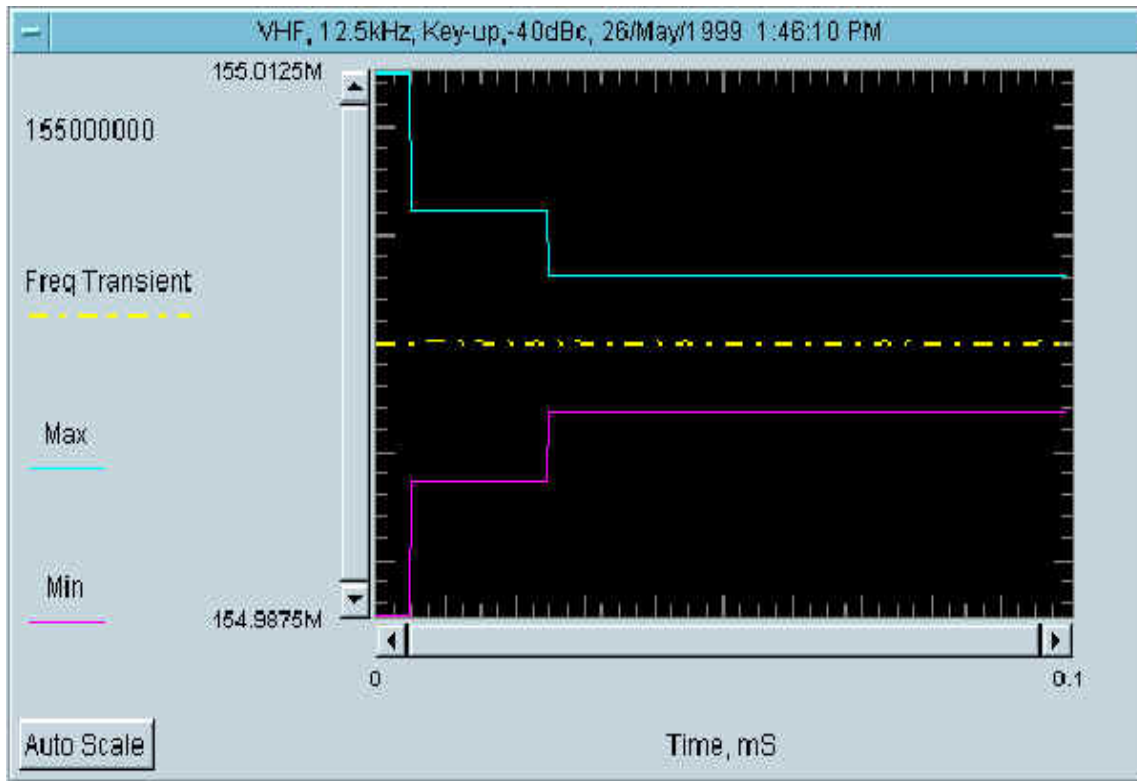
FREQUENCY STABILITY VS. TEMPERATURE
SPECIFIED LIMITS: ± 2.5 PPM (-30 TO +60 DEGREES C)



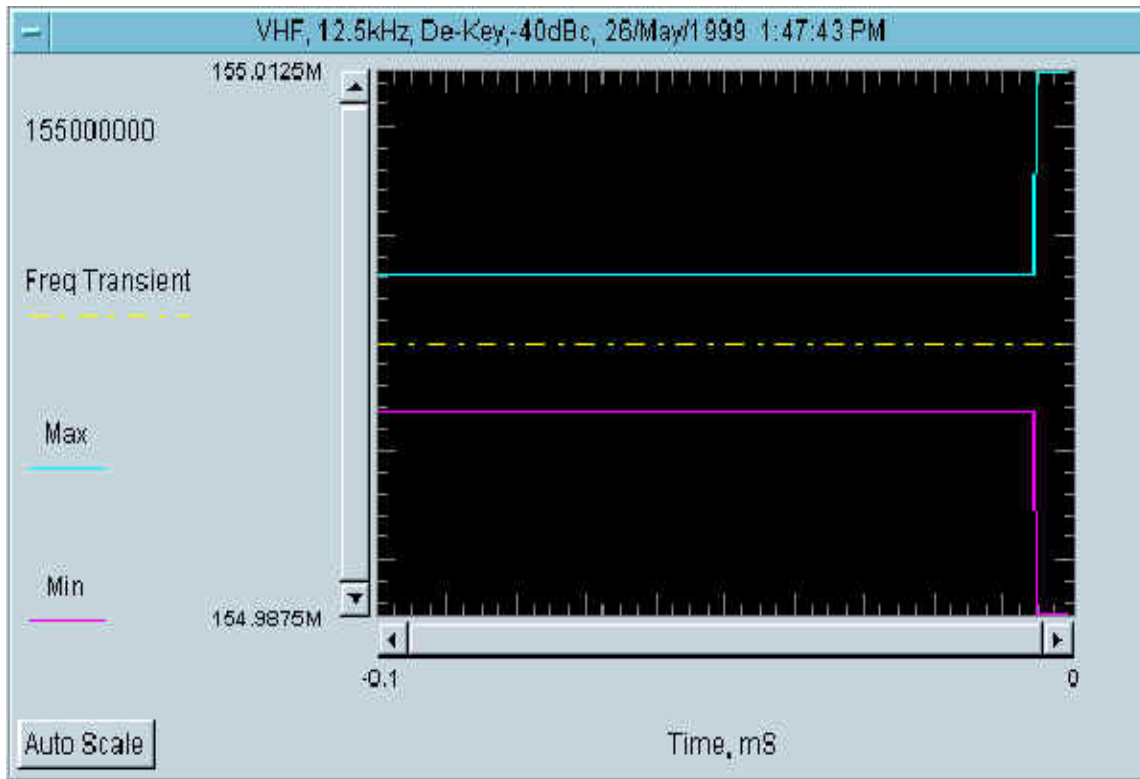
FREQUENCY STABILITY VS. SUPPLY VOLTAGE
REFERENCE 0% = 13.6 VOLTS DC



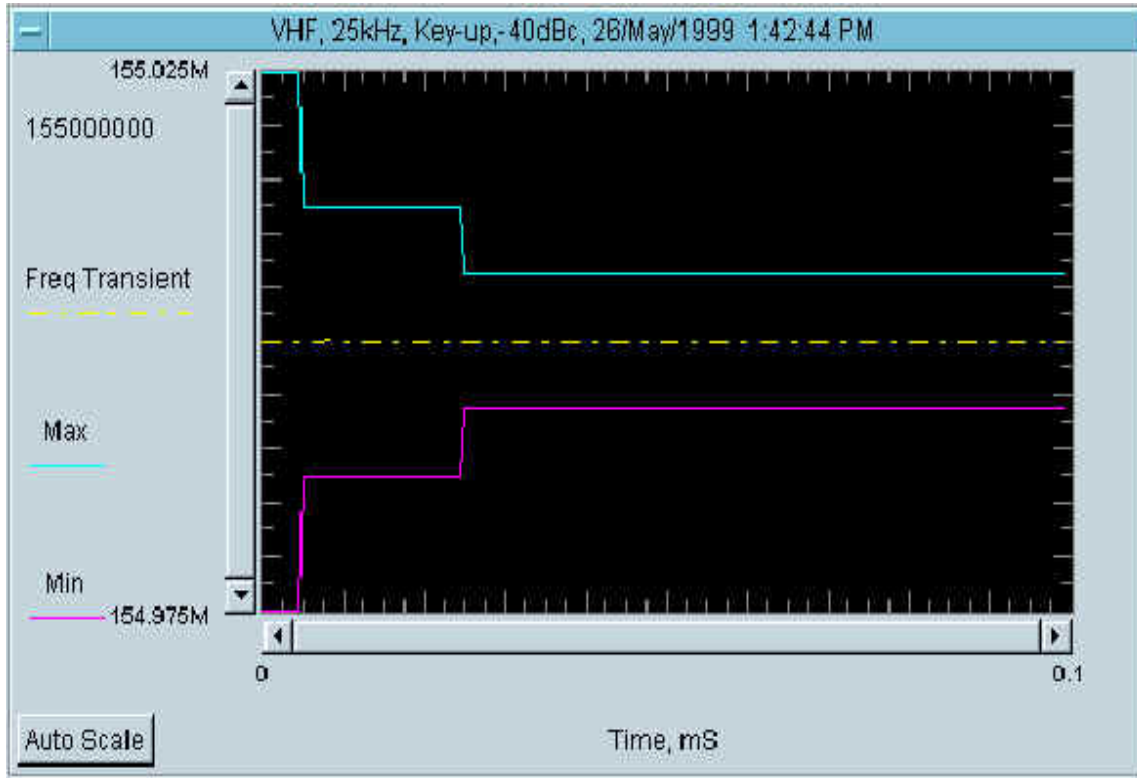
TRANSIENT FREQUENCY BEHAVIOR
54 WATTS, 155 MHz, 12.5 kHz, KEY-UP



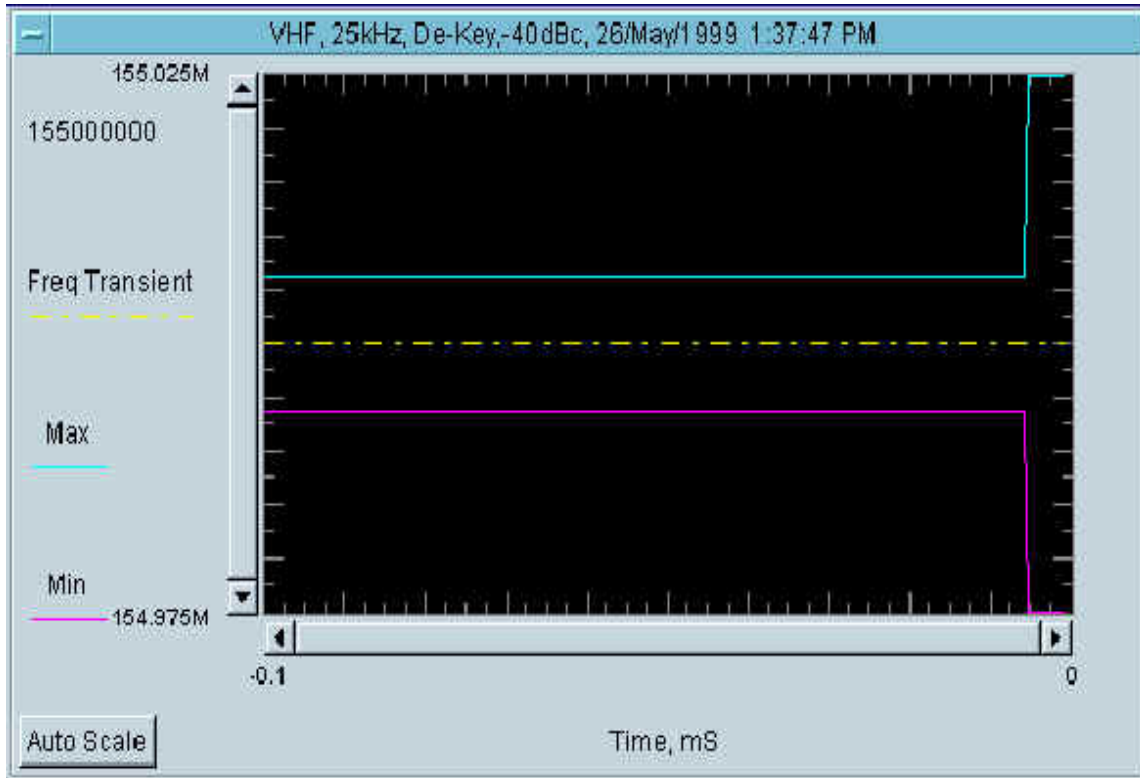
TRANSIENT FREQUENCY BEHAVIOR
54 WATTS, 155 MHz, 12.5 kHz, DE-KEY



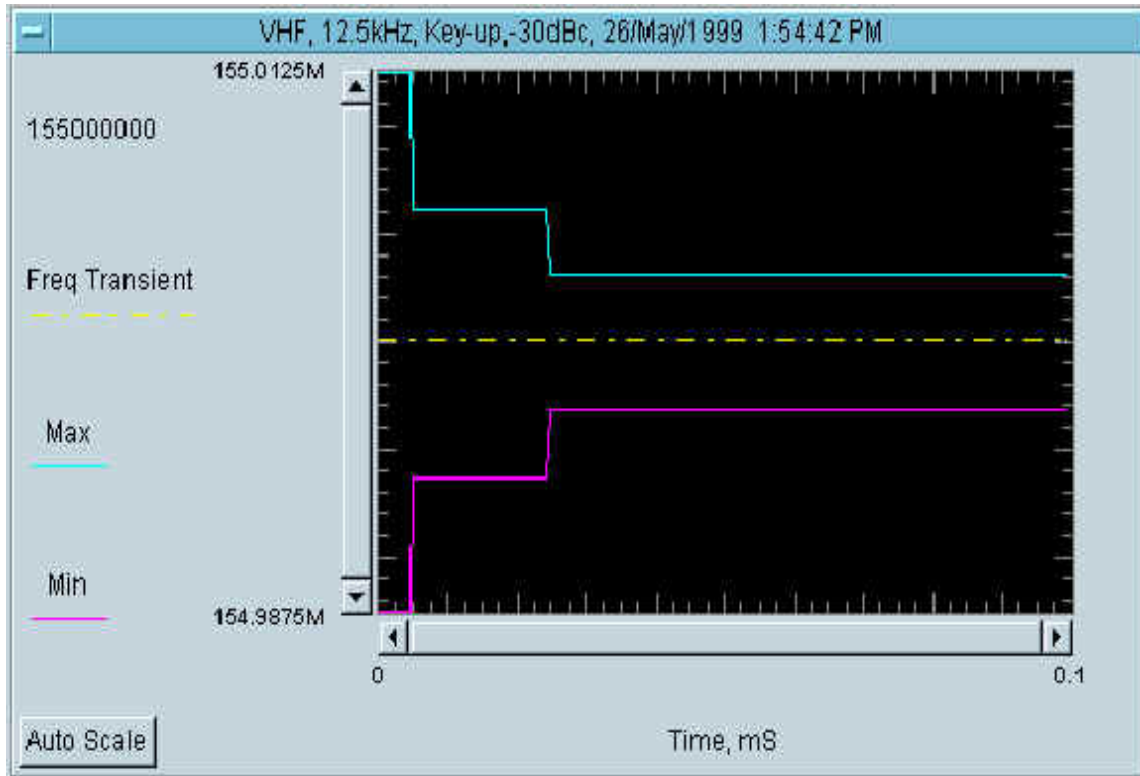
TRANSIENT FREQUENCY BEHAVIOR
54 WATTS, 155 MHz, 25 kHz, KEY-UP



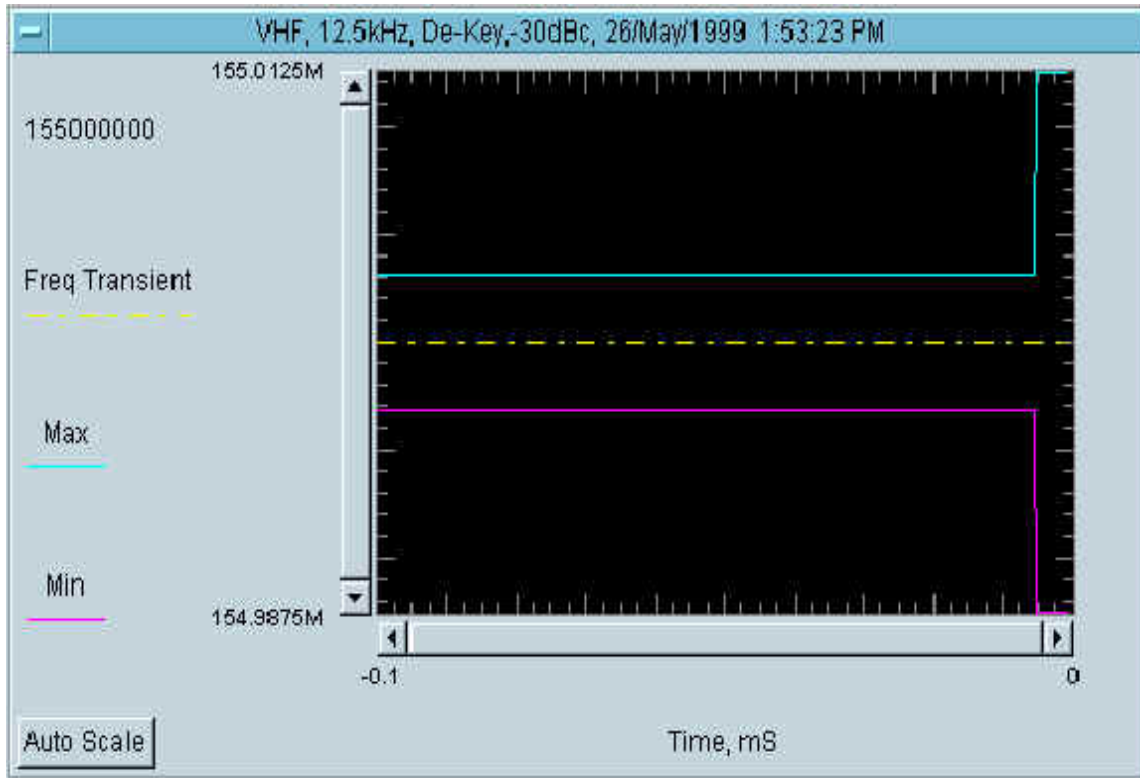
TRANSIENT FREQUENCY BEHAVIOR
54 WATTS, 155 MHz, 25 kHz, DE-KEY



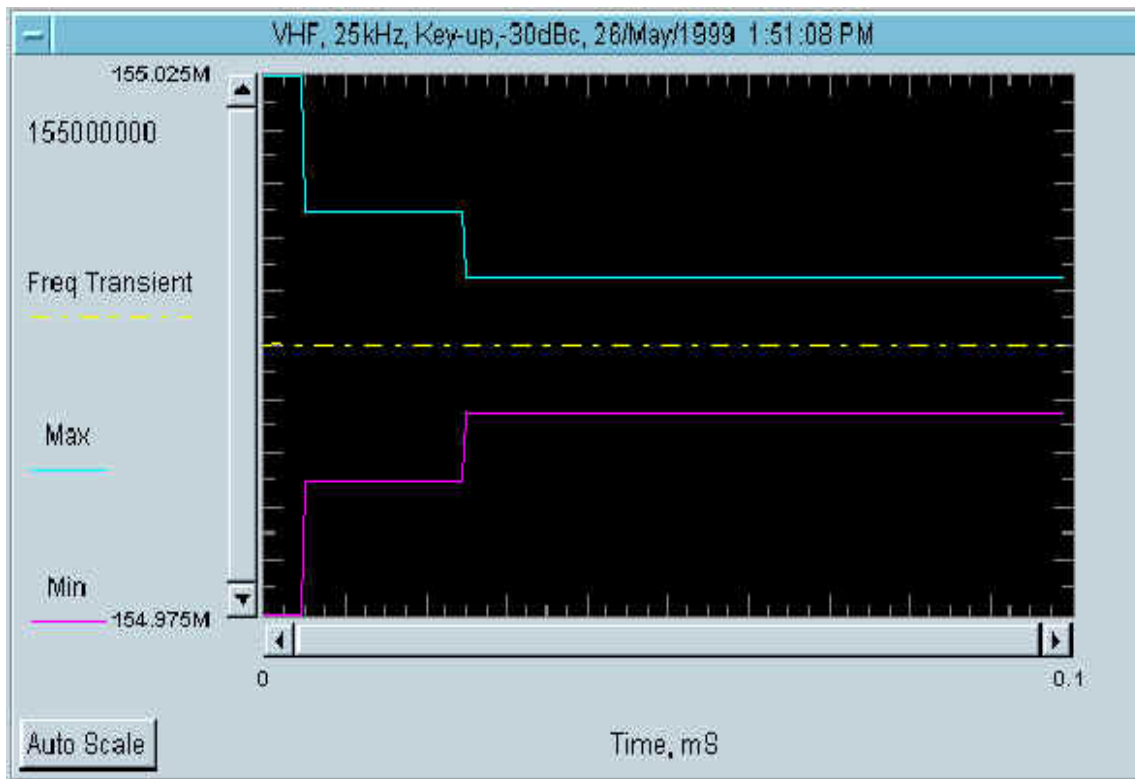
TRANSIENT FREQUENCY BEHAVIOR
25 WATTS, 155 MHz, 12.5 kHz, KEY-UP



TRANSIENT FREQUENCY BEHAVIOR
25 WATTS, 155 MHz, 12.5 kHz, DE-KEY



TRANSIENT FREQUENCY BEHAVIOR
25 WATTS, 155 MHz, 25 kHz, KEY-UP



TRANSIENT FREQUENCY BEHAVIOR
25 WATTS, 155 MHz, 25 kHz, DE-KEY

