

INDEX OF SUBMITTED MEASURED DATA

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

EXHIBIT 6A - RF Power Output (5 Tables)

- 6A-1 – Conducted, 746.500, 763.000 and 776.500 MHz
- 6A-2 – Conducted, 793.000 MHz
- 6A-3 – ERP, 746.000 and 762.000 MHz
- 6A-4 – ERP, 776.000 and 793.000 MHz

EXHIBIT 6B - Transmit Audio Response**EXHIBIT 6C - Transmit Audio Post Limiter Lowpass Filter Response****EXHIBIT 6D - Modulation Limiting Characteristics (4 Graphs)**

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- 6D-2 - Tone Private Line (TPL) Mode
- 6D-3 - Digital Private Line (DPL) Mode
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EXHIBIT 6E - Occupied Bandwidth (12 Spectrum Analyzer Plots)

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- 6E-3 - 2500 Hz Audio and DPL Modulation
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- 6E-5 - DTMF Modulation Only
- 6E-6 - DTMF Modulation and TPL Modulation
- 6E-7 - DTMF Modulation and DPL Modulation
- 6E-8 - DTMF Modulation and Low Speed Trunking Modulation
- 6E-9 - 2000/3000 Hz FSK Data Modulation Only
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EXHIBIT 6F - Conducted Spurious Emissions (8 Graphs)

- 6F-1 - 18 Watts, 746.500 MHz
- 6F-2 - 18 Watts, 763.000 MHz
- 6F-3 - 18 Watts, 776.500 MHz
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- 6F-5 - 1 Watt, 746.500 MHz
- 6F-6 - 1 Watt, 763.000 MHz
- 6F-7 - 1 Watt, 776.500 MHz
- 6F-8 - 1 Watt, 793.000 MHz

EXHIBIT 6G – Radiated Spurious Emissions – (4 Graphs)

- 6G-1 – 18 Watts, 746.000 MHz, Horizontal & Vertical
- 6G-2 – 18 Watts, 762.000 MHz, Horizontal & Vertical
- 6G-3 – 18 Watts, 776.000 MHz, Horizontal & Vertical
- 6G-4 – 18 Watts, 793.000 MHz, Horizontal & Vertical
- 6G-1 – 1 Watt, 746.000 MHz, Horizontal & Vertical
- 6G-2 – 1 Watt, 762.000 MHz, Horizontal & Vertical
- 6G-3 – 1 Watt, 776.000 MHz, Horizontal & Vertical
- 6G-4 – 1 Watt, 793.000 MHz, Horizontal & Vertical

INDEX OF SUBMITTED MEASURED DATA (CONTINUED)

EXHIBIT 6H – Frequency Stability (2 Graphs)

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6H-2 – Frequency Stability vs. Voltage

EXHIBIT 6I – GNSS Radiated Spurious Emissions (Table)

EXHIBIT 6J – Adjacent Channel Coupled Power Ratios (2 Tables)

RF OUTPUT DATA - CONDUCTED

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device, pursuant to 47 CFR 2.1033(c)(8) and 2.1046.

HIGH POWER SETTING, FREQUENCY 746.500 MHz

Measured RF Output Power:	18.0 Watts
Measured DC Voltage:	13.6 Volts
Measured DC Input Current:	4.62 Amperes
Measured DC Input Power:	62.818 Watts

LOW POWER SETTING, FREQUENCY 746.500 MHz

Measured RF Output Power:	1.0 Watt
Measured DC Voltage:	13.6 Volts
Measured DC Input Current:	1.46 Amperes
Measured DC Input Power:	19.86 Watts

HIGH POWER SETTING, FREQUENCY 763.000 MHz

Measured RF Output Power:	18.0 Watts
Measured DC Voltage:	13.6 Volts
Measured DC Input Current:	3.99 Amperes
Measured DC Input Power:	54.26 Watts

LOW POWER SETTING, FREQUENCY 763.000 MHz

Measured RF Output Power:	1.0 Watt
Measured DC Voltage:	13.6 Volts
Measured DC Input Current:	1.34 Amperes
Measured DC Input Power:	18.22 Watts

HIGH POWER SETTING, FREQUENCY 776.500 MHz

Measured RF Output Power:	18.0 Watts
Measured DC Voltage:	13.6 Volts
Measured DC Input Current:	3.69 Amperes
Measured DC Input Power:	50.18 Watts

LOW POWER SETTING, FREQUENCY 776.500 MHz

Measured RF Output Power:	1.0 Watt
Measured DC Voltage:	13.6 Volts
Measured DC Input Current:	1.28 Amperes
Measured DC Input Power:	17.41 Watts

RF OUTPUT DATA – CONDUCTED (CONTINUED)

HIGH POWER SETTING, FREQUENCY 793.000 MHz

Measured RF Output Power:	18.0 Watts
Measured DC Voltage:	13.6 Volts
Measured DC Input Current:	3.71 Amperes
Measured DC Input Power:	50.46 Watts

LOW POWER SETTING, FREQUENCY 793.000 MHz

Measured RF Output Power:	1.0 Watt
Measured DC Voltage:	13.6 Volts
Measured DC Input Current:	1.26 Amperes
Measured DC Input Power:	17.14 Watts

RF OUTPUT DATA – EFFECTIVE RADIATED POWER

Pursuant to 47 CFR 27.50(b)(2), mobile stations transmitting in the 747–762 MHz band and the 776–794MHz band are limited to 30 Watts ERP (+44.77 dBm) maximum.

ERP		Horn					
	Frequency	Turn Table Deg.	Path Loss	Ant. Height	Ant. Angle	Radiated Spur Emiss. (dBm)	Po
Horiz.	746	0	40.15			18.89	
Horiz.	746	45	40.15			18.37	
Horiz.	746	90	40.15			27.50	
Horiz.	746	135	40.15			25.76	
Horiz.	746	180	40.15			22.31	
Horiz.	746	225	40.15			20.67	
Horiz.	746	270	40.15			22.01	
Horiz.	746	315	40.15			19.15	
Vert.	746	0	41.57			35.29	
Vert.	746	45	41.57			39.45	
Vert.	746	90	41.57			36.96	
Vert.	746	135	41.57			36.78	
Vert.	746	180	41.57			37.98	
Vert.	746	225	41.57			33.90	
Vert.	746	270	41.57			33.53	
Vert.	746	315	41.57			37.37	

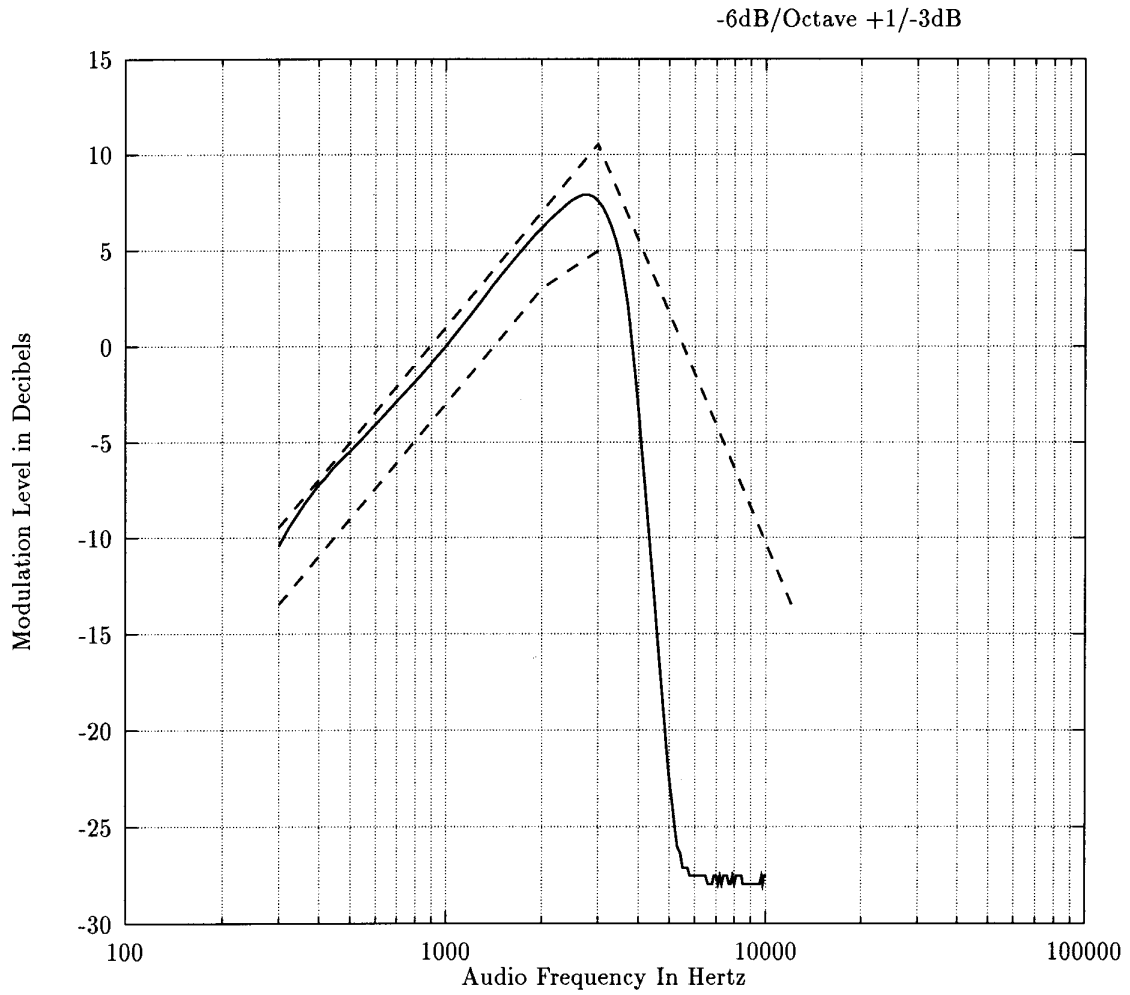
ERP		Horn					
	Frequency	Turn Table Deg.	Path Loss	Ant. Height	Ant. Angle	Radiated Spur Emiss. (dBm)	Po
Horiz.	762	0	39.77			18.40	
Horiz.	762	45	39.77			20.45	
Horiz.	762	90	39.77			27.15	
Horiz.	762	135	39.77			25.28	
Horiz.	762	180	39.77			20.39	
Horiz.	762	225	39.77			24.34	
Horiz.	762	270	39.77			23.01	
Horiz.	762	315	39.77			16.43	
Vert.	762	0	41.08			35.94	
Vert.	762	45	41.08			39.89	
Vert.	762	90	41.08			37.67	
Vert.	762	135	41.08			36.81	
Vert.	762	180	41.08			38.36	
Vert.	762	225	41.08			35.17	
Vert.	762	270	41.08			33.25	
Vert.	762	315	41.08			38.18	

RF OUTPUT DATA – EFFECTIVE RADIATED POWER (CONTINUED)

ERP		Horn					
	Frequency	Turn Table Deg.	Path Loss	Ant. Height	Ant. Angle	Radiated Spur Emiss. (dBm)	Po
Horiz.	776	0	39.46			17.88	
Horiz.	776	45	39.46			18.42	
Horiz.	776	90	39.46			26.85	
Horiz.	776	135	39.46			24.04	
Horiz.	776	180	39.46			19.42	
Horiz.	776	225	39.46			24.28	
Horiz.	776	270	39.46			21.87	
Horiz.	776	315	39.46			16.05	
Vert.	776	0	40.77			37.47	
Vert.	776	45	40.77			39.98	
Vert.	776	90	40.77			38.61	
Vert.	776	135	40.77			37.44	
Vert.	776	180	40.77			39.00	
Vert.	776	225	40.77			35.69	
Vert.	776	270	40.77			33.32	
Vert.	776	315	40.77			38.78	

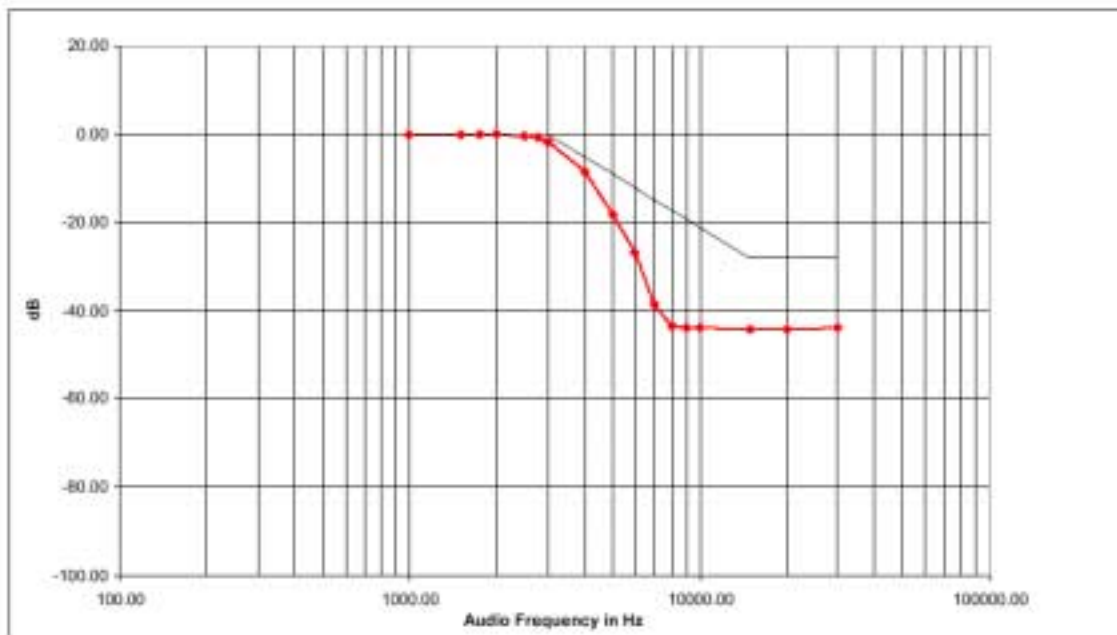
ERP		Horn					
	Frequency	Turn Table Deg.	Path Loss	Ant. Height	Ant. Angle	Radiated Spur Emiss. (dBm)	Po
Horiz.	793	0	39.77			18.75	
Horiz.	793	45	39.77			18.24	
Horiz.	793	90	39.77			25.88	
Horiz.	793	135	39.77			25.56	
Horiz.	793	180	39.77			21.08	
Horiz.	793	225	39.77			24.46	
Horiz.	793	270	39.77			21.33	
Horiz.	793	315	39.77			16.54	
Vert.	793	0	40.72			39.04	
Vert.	793	45	40.72			40.19	
Vert.	793	90	40.72			38.77	
Vert.	793	135	40.72			37.43	
Vert.	793	180	40.72			38.86	
Vert.	793	225	40.72			34.11	
Vert.	793	270	40.72			34.98	
Vert.	793	315	40.72			39.43	

TRANSMIT AUDIO RESPONSE

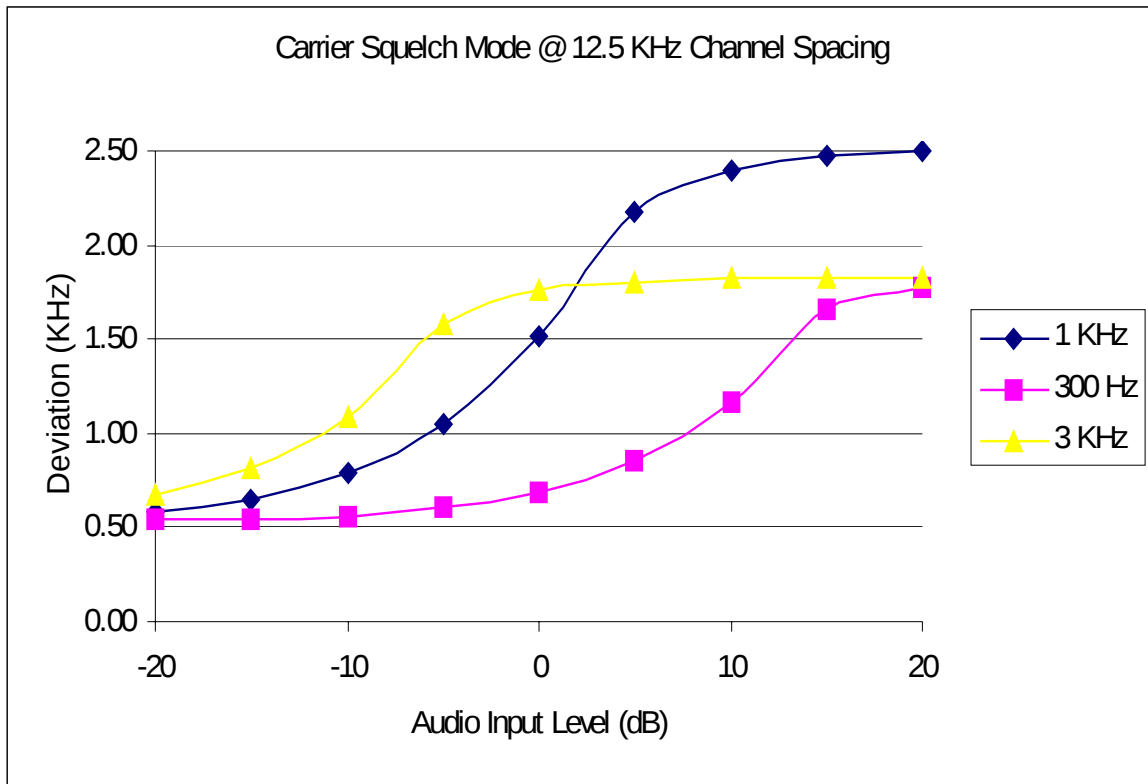


POST-LIMITER LOWPASS FILTER RESPONSE

12.5 kHz Channel Spacing

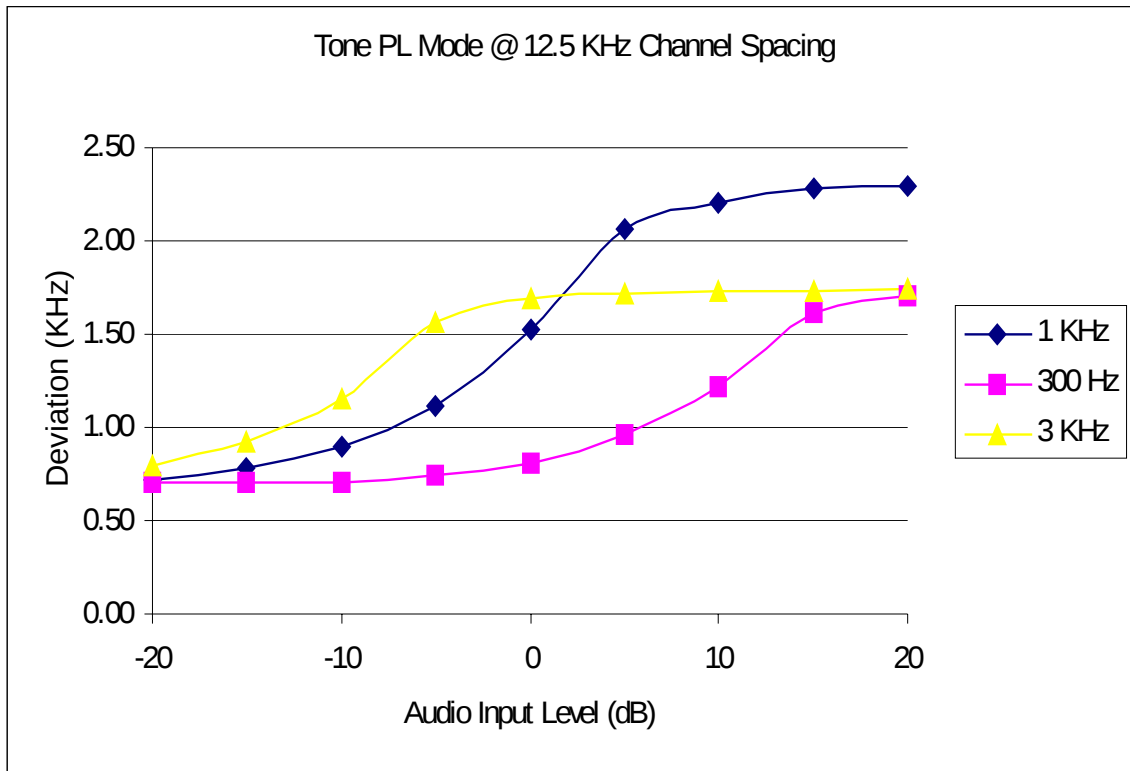


MODULATION LIMITING CHARACTERISTIC
CARRIER SQUELCH MODE



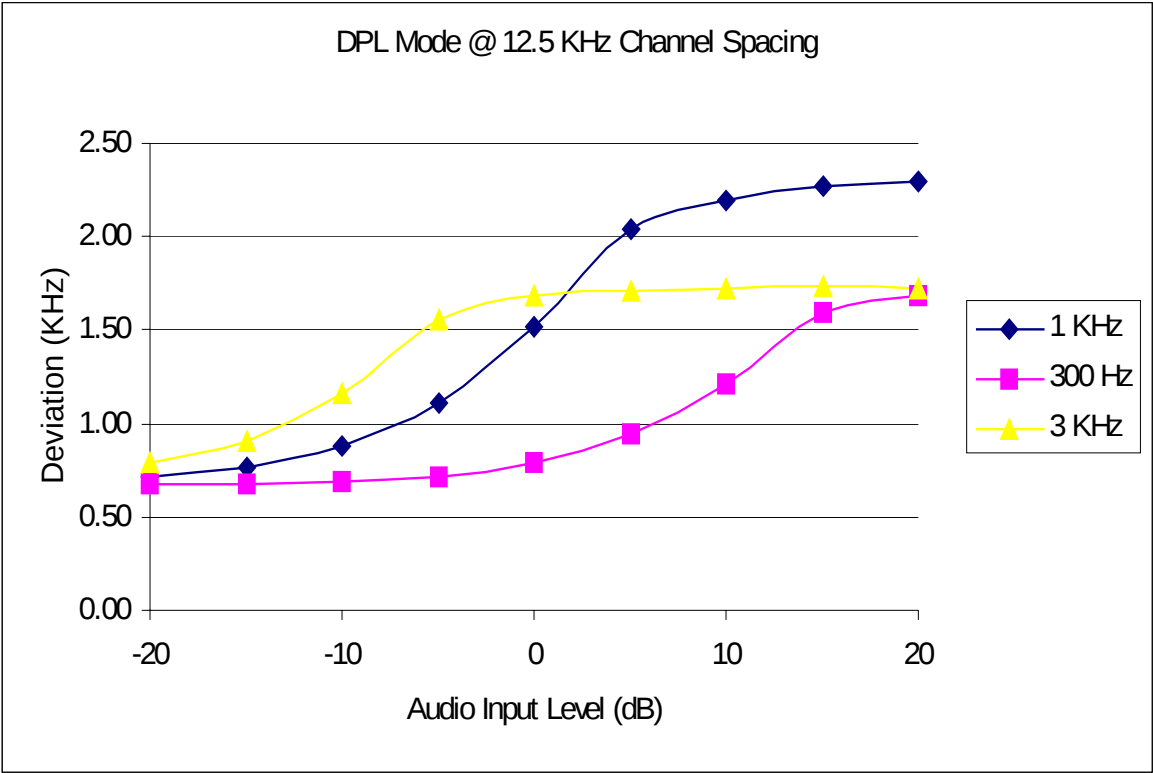
LIMIT: ± 2.5 kHz MAXIMUM

MODULATION LIMITING CHARACTERISTIC
TONE PL MODE



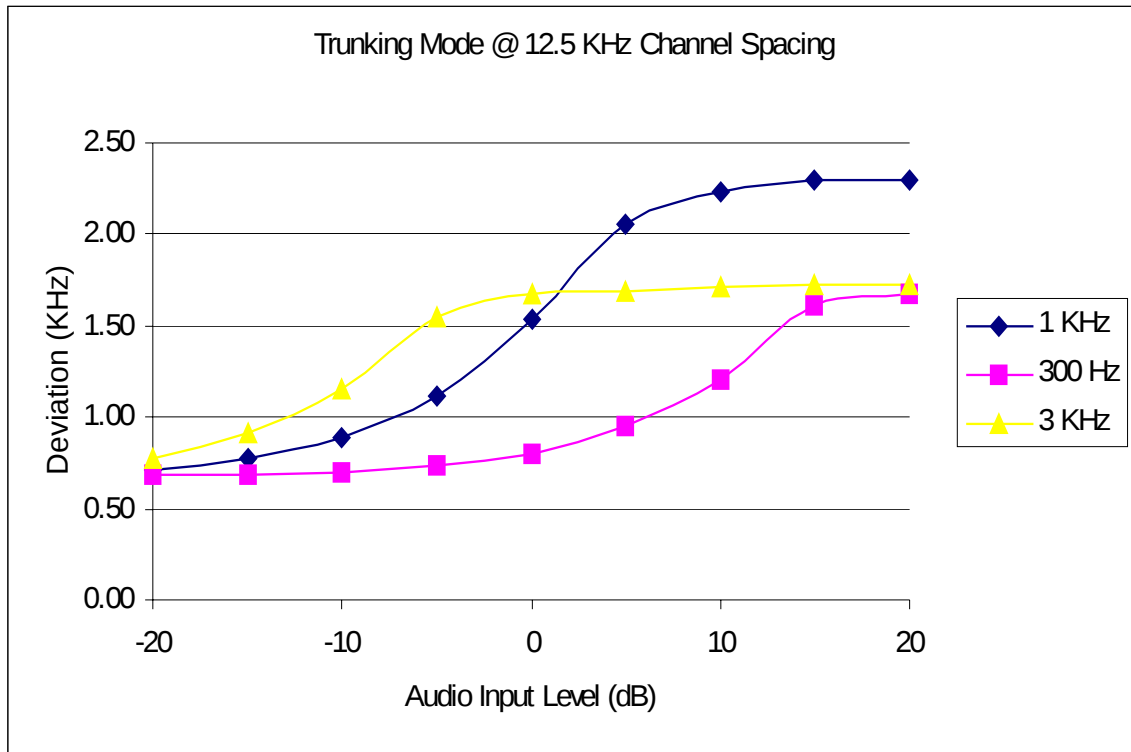
LIMIT: ± 2.5 kHz MAXIMUM

MODULATION LIMITING CHARACTERISTIC
DPL MODE



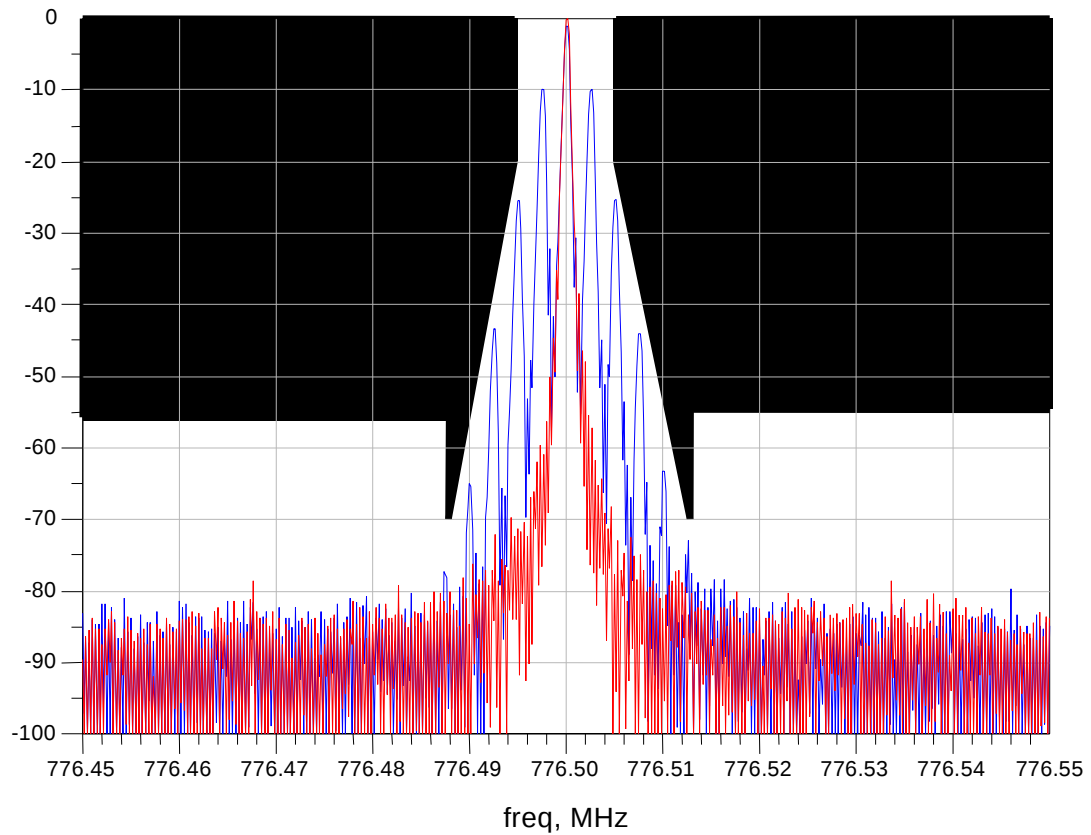
LIMIT: ± 2.5 kHz MAXIMUM

**MODULATION LIMITING CHARACTERISTIC
TRUNKING MODE**



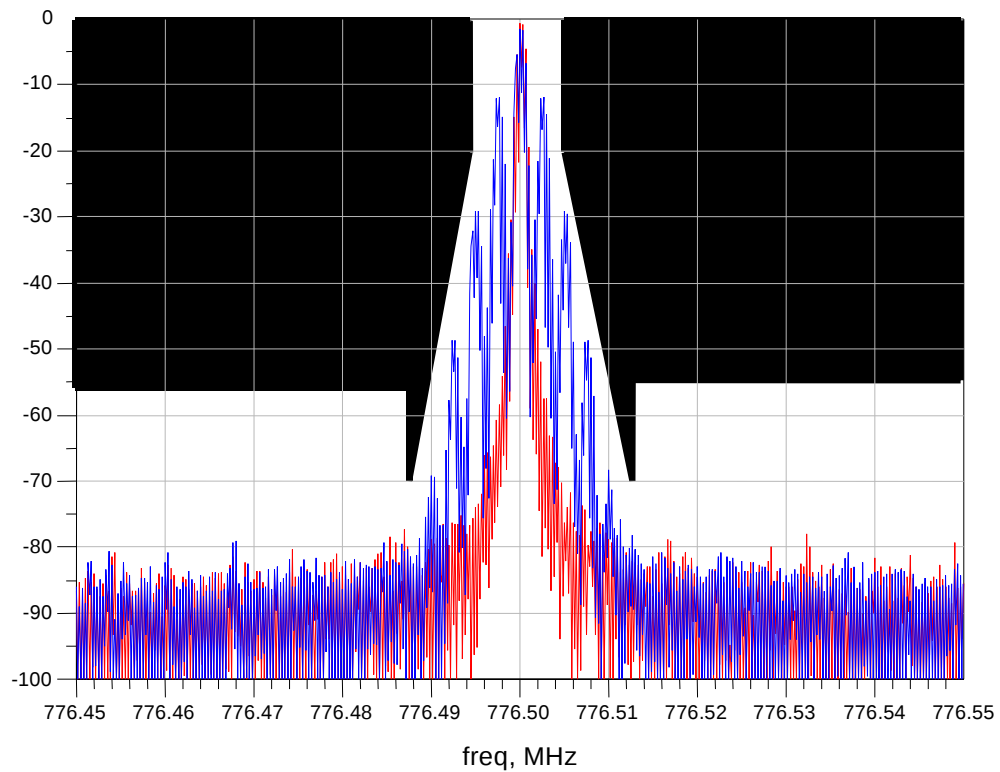
LIMIT: $\pm$ 2.5 kHz MAXIMUM

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



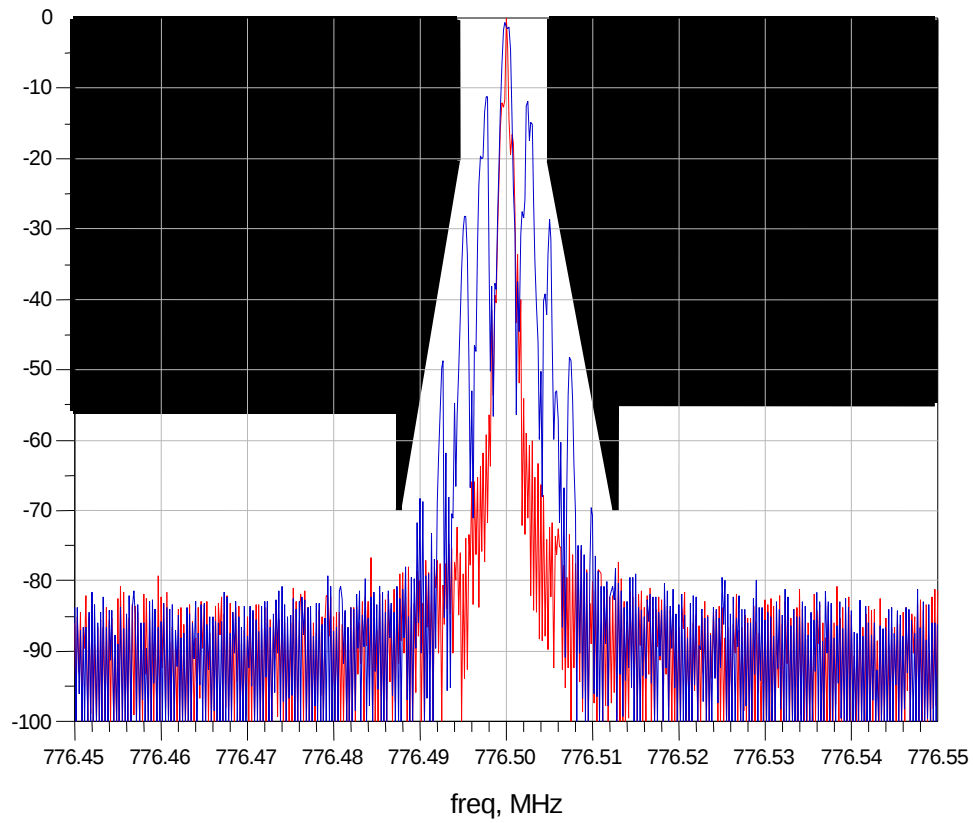
CENTER FREQUENCY:	776.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	3 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	2 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
12.5 kHz CHANNEL SPACING, 2500 Hz TONE, TPL 250.3 Hz
EMISSION MASK: D



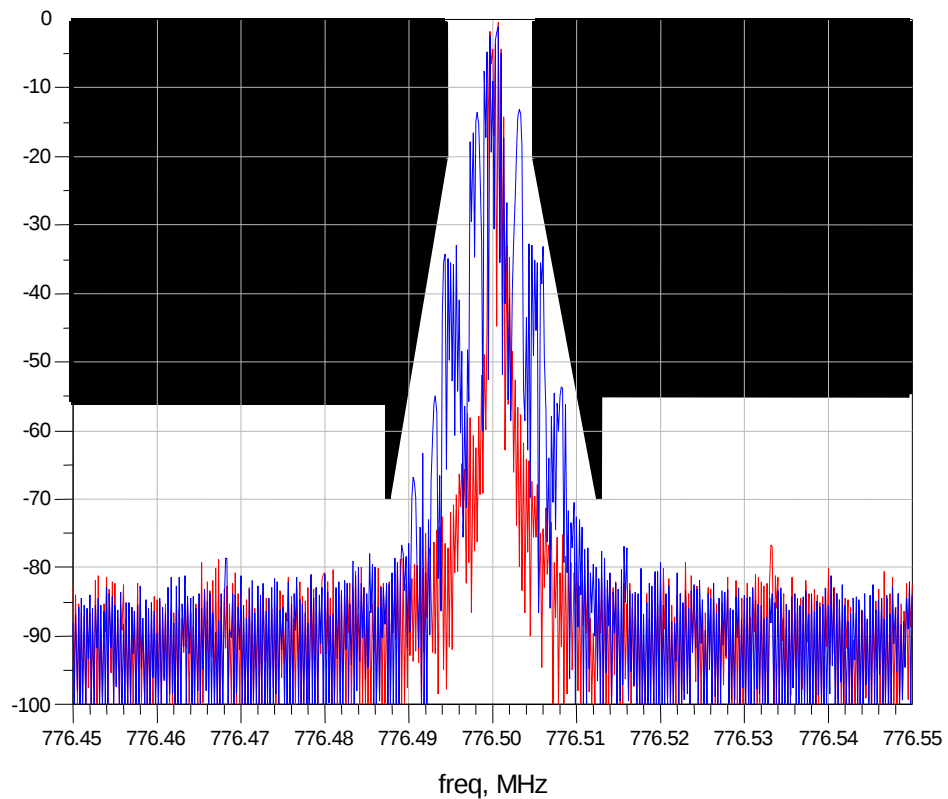
CENTER FREQUENCY:	776.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	3 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	2 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
12.5 kHz CHANNEL SPACING, 2500 Hz TONE, DPL 131
EMISSION MASK: D



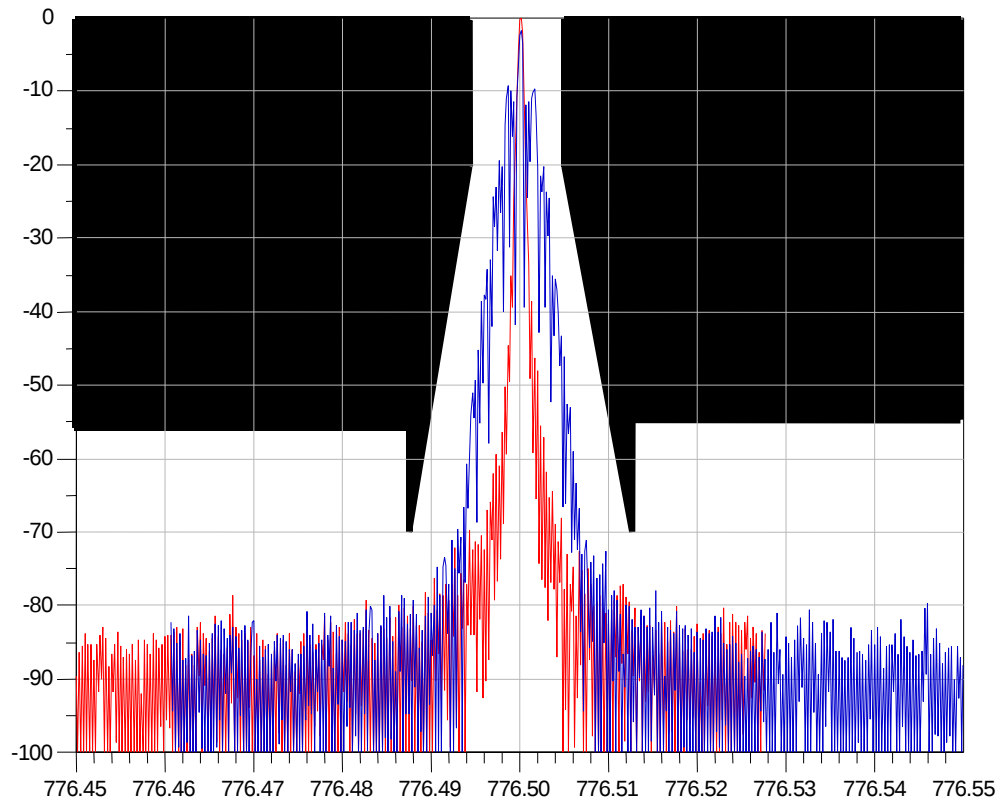
CENTER FREQUENCY:	776.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	3 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	2 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

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



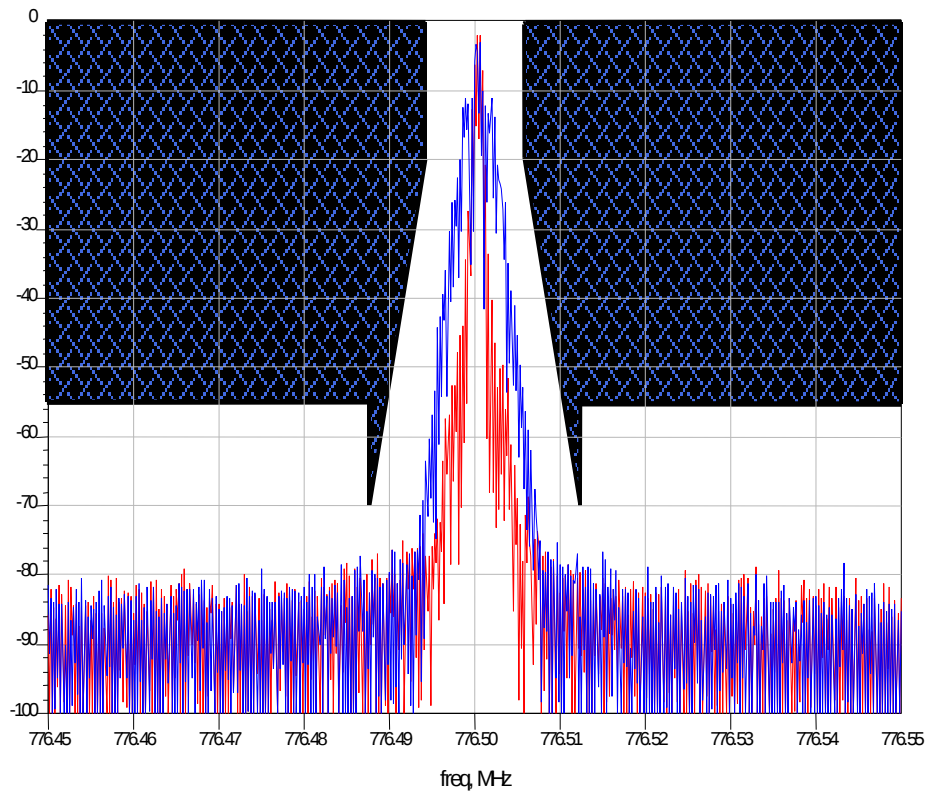
CENTER FREQUENCY:	776.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	3 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	2 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

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



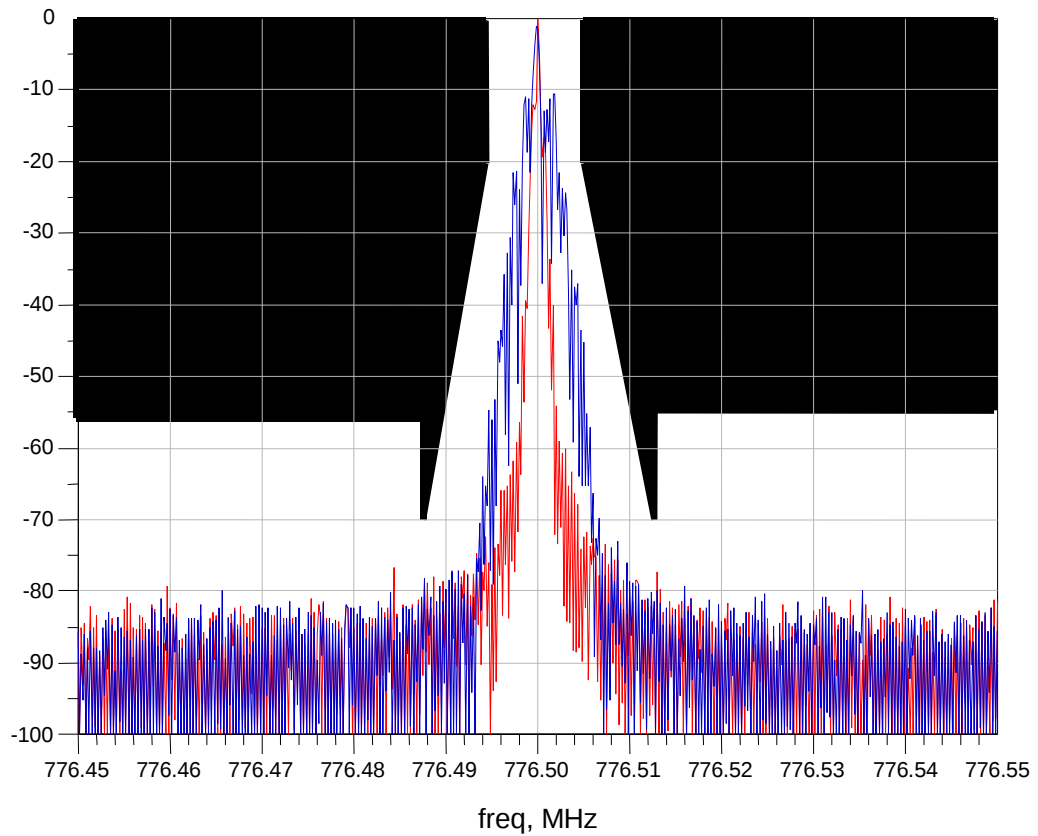
CENTER FREQUENCY:	776.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	3 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	2 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
12.5 kHz CHANNEL SPACING, DTMF MODULATION, TPL 250.3 Hz
EMISSION MASK: D



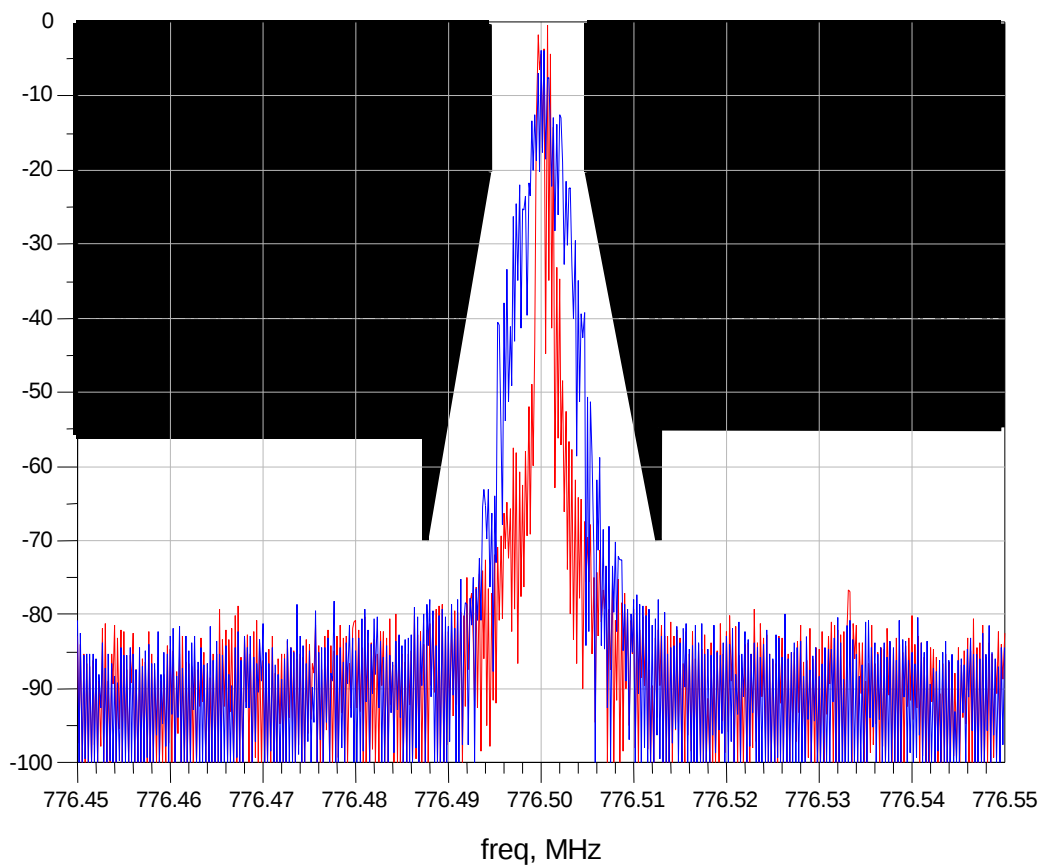
CENTER FREQUENCY:	776.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	3 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	2 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
12.5 kHz CHANNEL SPACING, DTMF MODULATION, DPL 131
EMISSION MASK: D



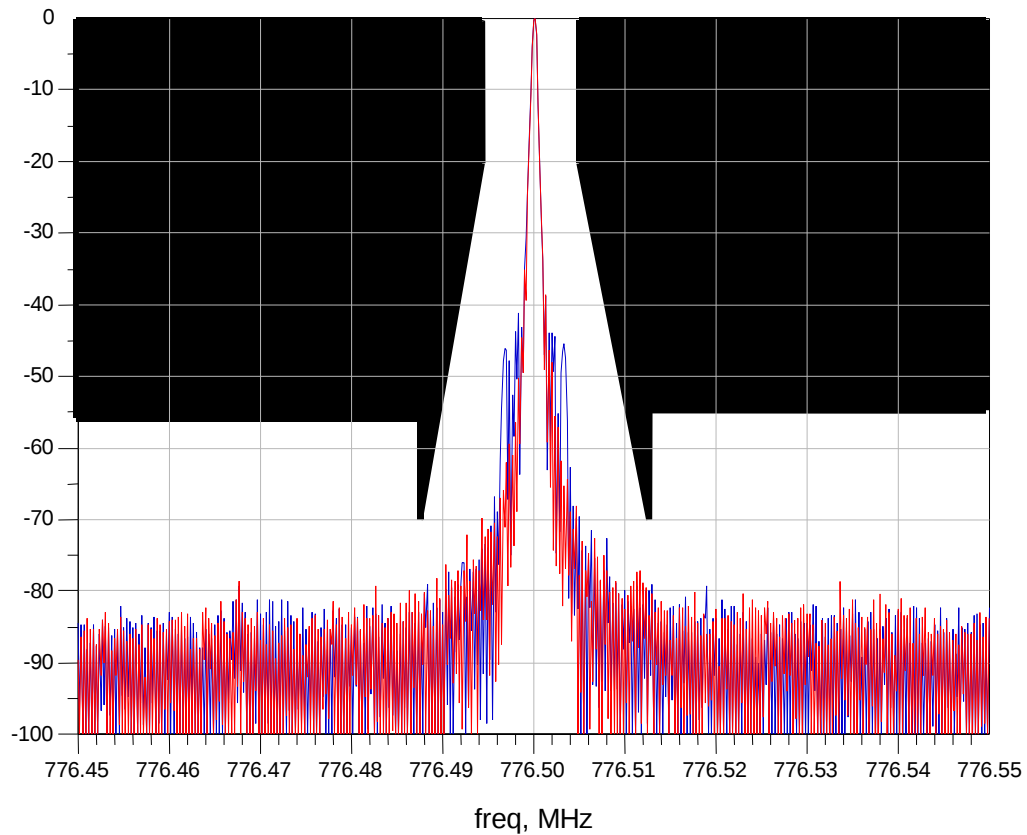
CENTER FREQUENCY:	776.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	3 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	2 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
12.5 kHz CHANNEL SPACING, DTMF MODULATION, LOW SPEED TRUNKING
EMISSION MASK: D
EMISSION MASK: D



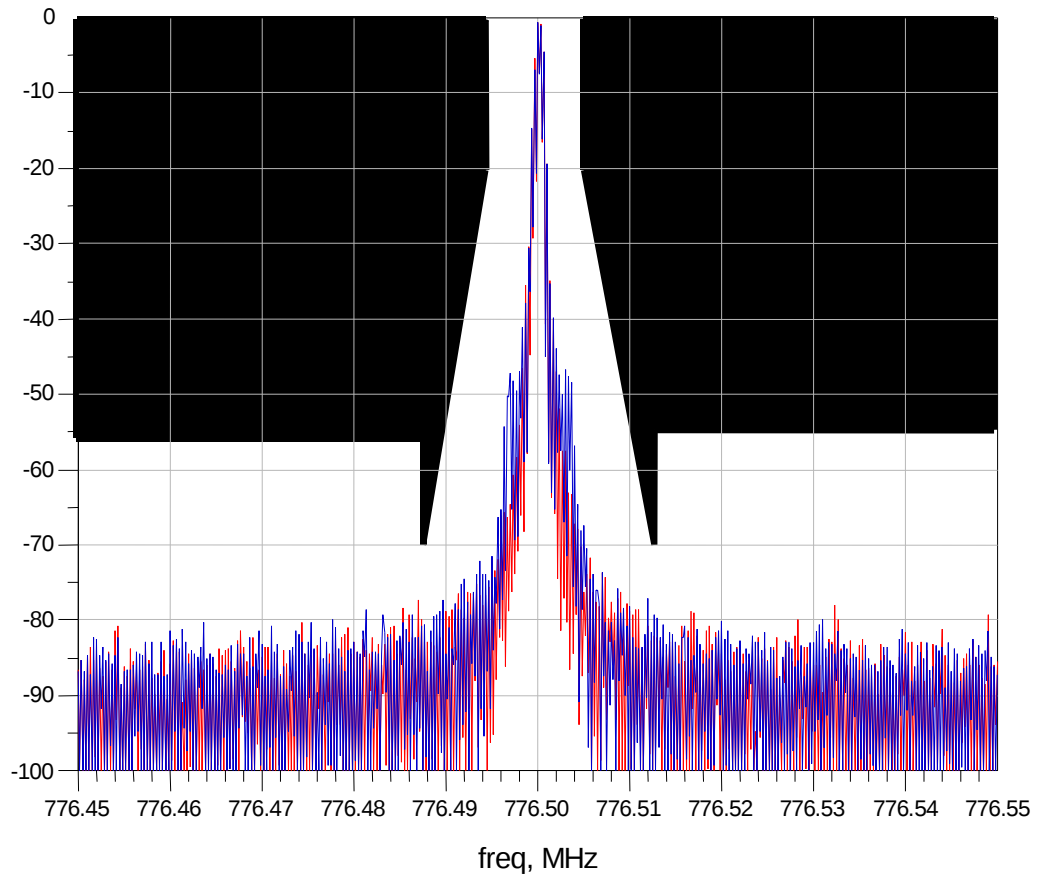
CENTER FREQUENCY:	776.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	3 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	2 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

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



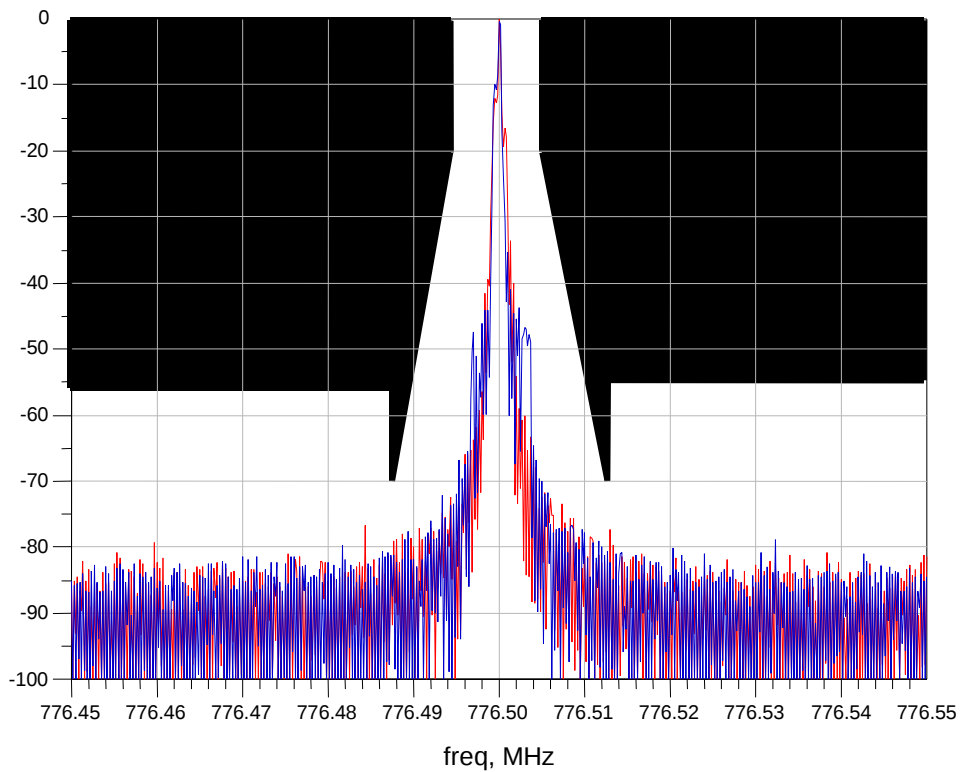
CENTER FREQUENCY:	776.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	3 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	2 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
12.5 kHz CHANNEL SPACING, 2000/3000 Hz FSK, TPL 250.3 Hz
EMISSION MASK: D



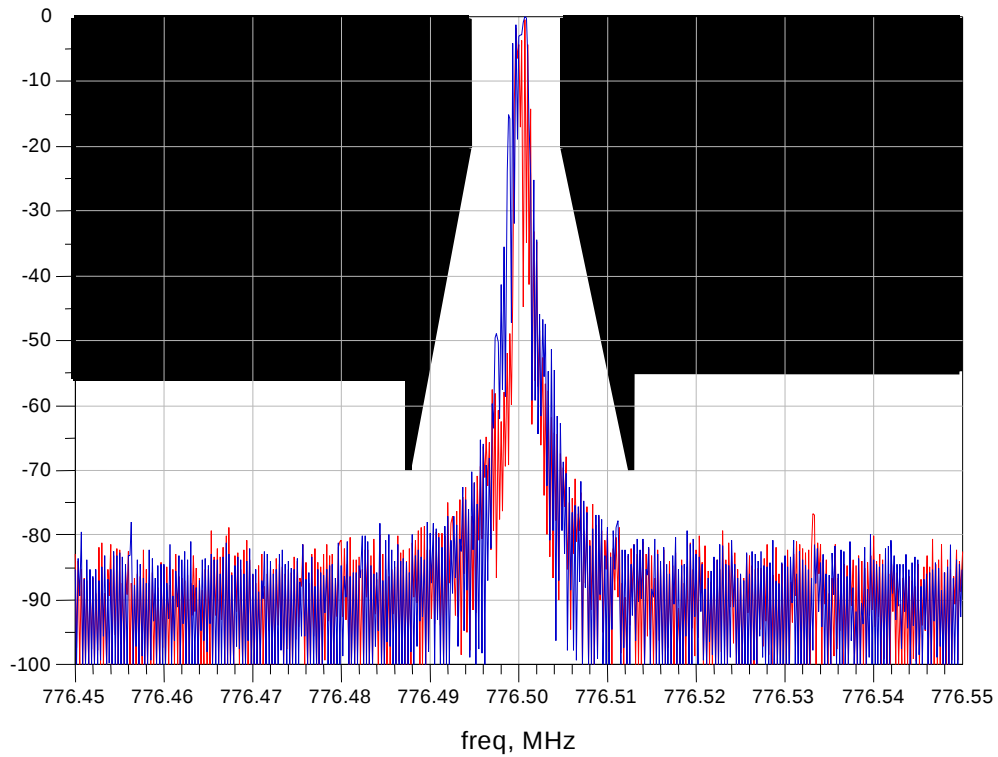
CENTER FREQUENCY:	776.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	3 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	2 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

OCCUPIED BANDWIDTH MEASUREMENT FOR
12.5 kHz CHANNEL SPACING, 2000/3000 Hz FSK, DPL 131
EMISSION MASK: D



CENTER FREQUENCY:	776.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	3 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	2 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

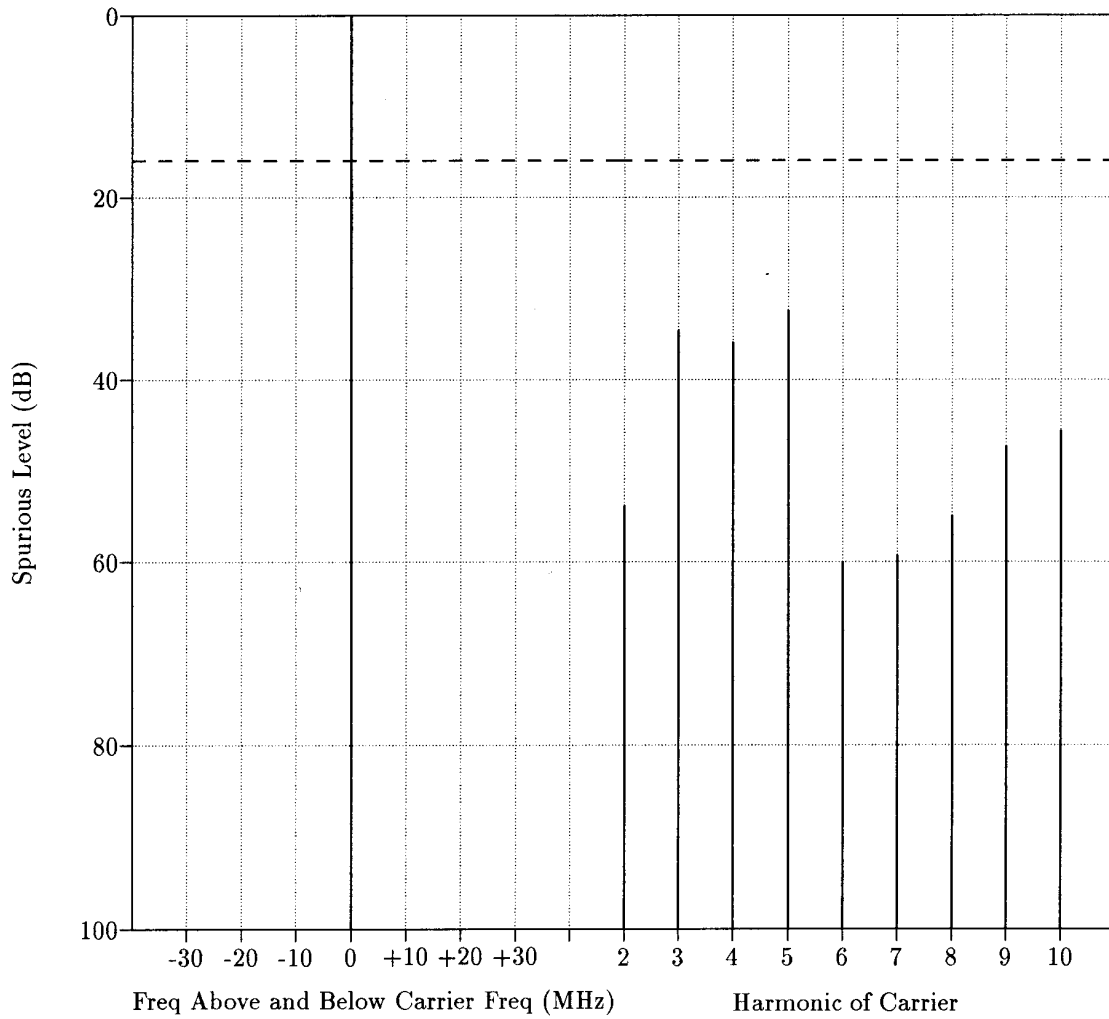
OCCUPIED BANDWIDTH MEASUREMENT FOR
12.5 kHz CHANNEL SPACING, 2000/3000 Hz FSK, LOW SPEED TRUNKING
EMISSION MASK: D



CENTER FREQUENCY:	776.500 MHz
RESOLUTION BANDWIDTH:	300 Hz
VIDEO BANDWIDTH:	3 kHz
SPAN:	100 kHz
HORIZONTAL SCALE:	10 kHz/div
SWEEP TIME:	2 Sec.
VERTICAL SCALE:	10 dB/div
REFERENCE LEVEL:	0 dBm
ATTENUATION:	30 dB

**CONDUCTED SPURIOUS EMISSIONS
HIGH POWER, 746.500 MHz**

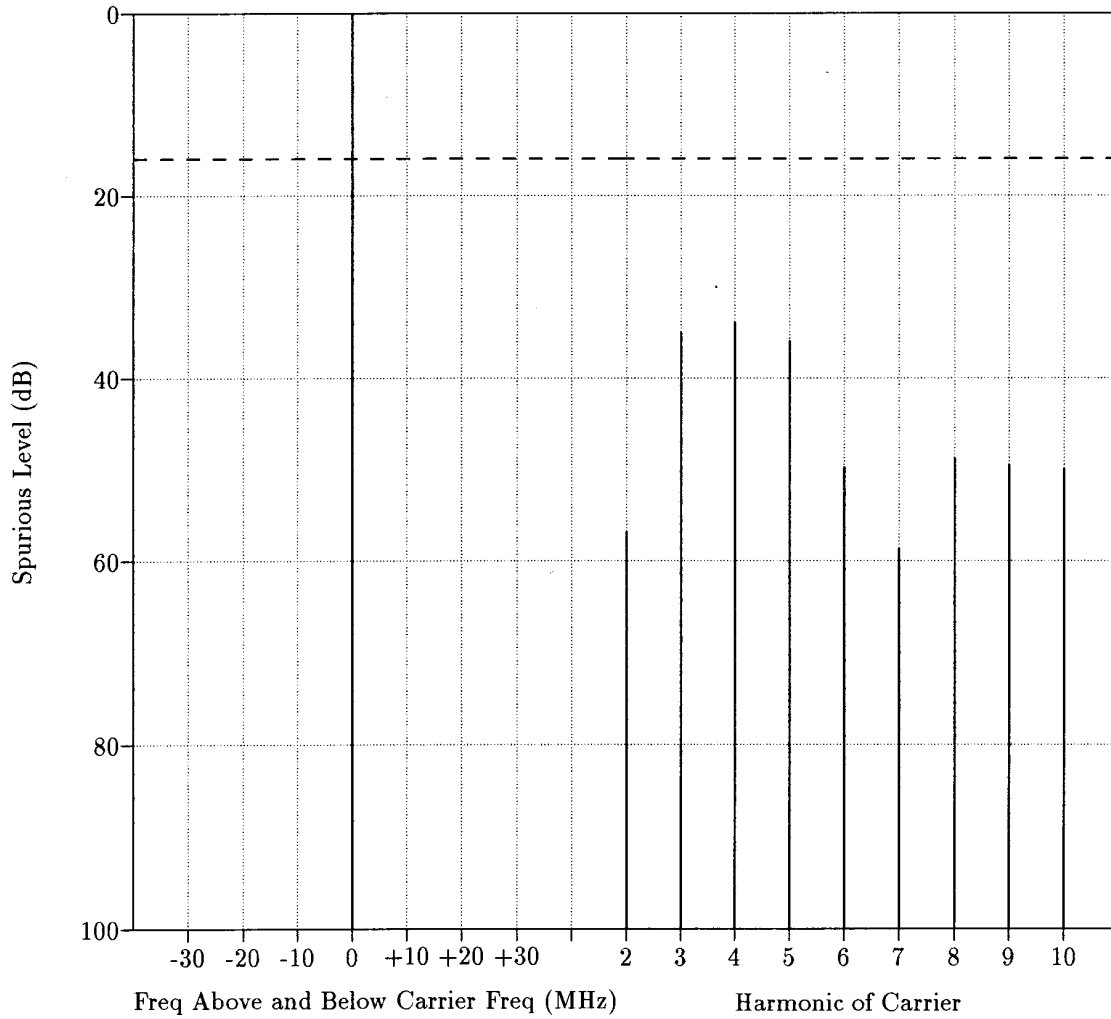
Transmitter Type: See Above
Power Output: 18.00W at 746.500MHz



The conducted spurious level is plotted in dBm on the vertical axis.
The specification for conducted spurious emissions is -16 dBm.

**CONDUCTED SPURIOUS EMISSIONS
HIGH POWER, 763.000 MHz**

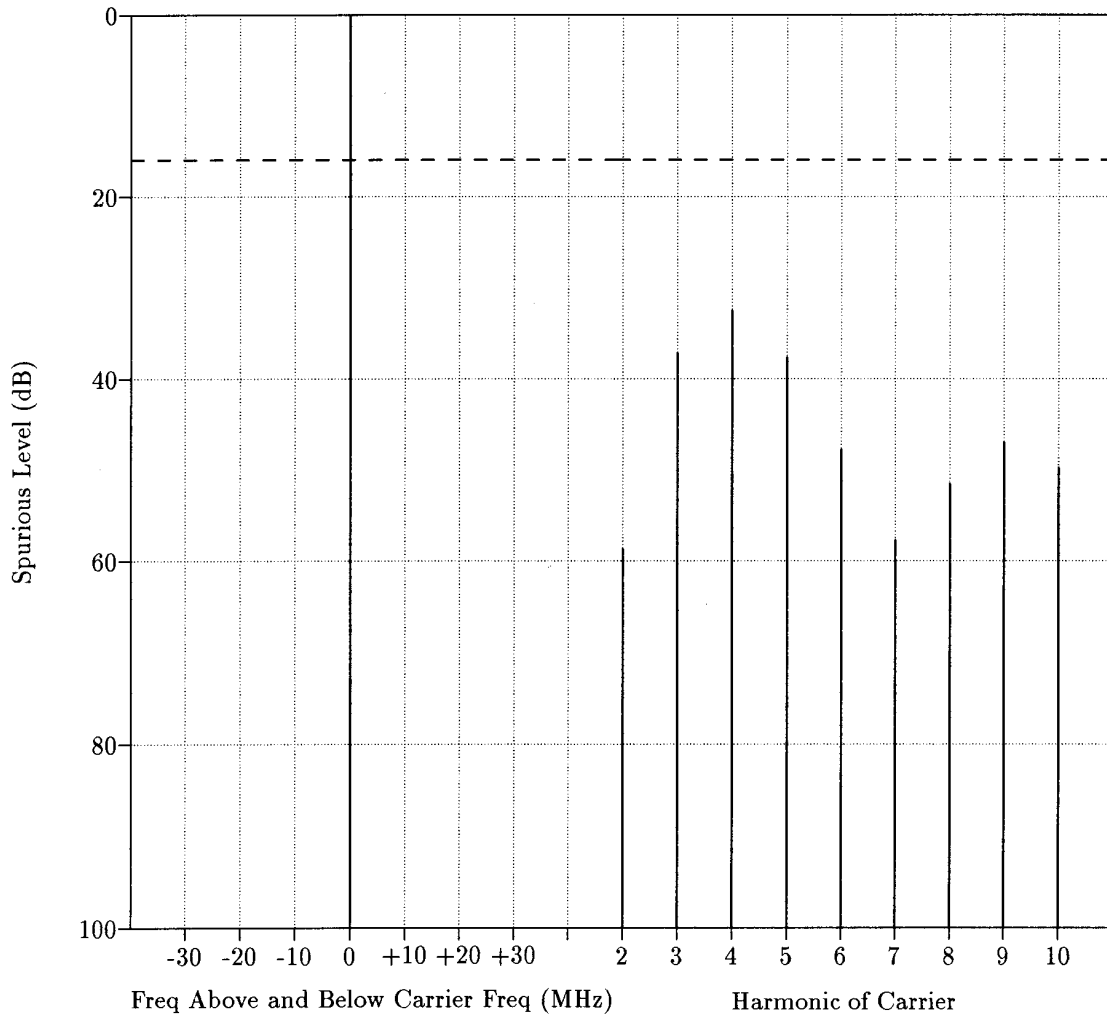
Transmitter Type: See Above
Power Output: 18.00W at 763.0000MHz



The conducted spurious level is plotted in dBm on the vertical axis.
The specification for conducted spurious emissions is -16 dBm.

**CONDUCTED SPURIOUS EMISSIONS
HIGH POWER, 776.500 MHz**

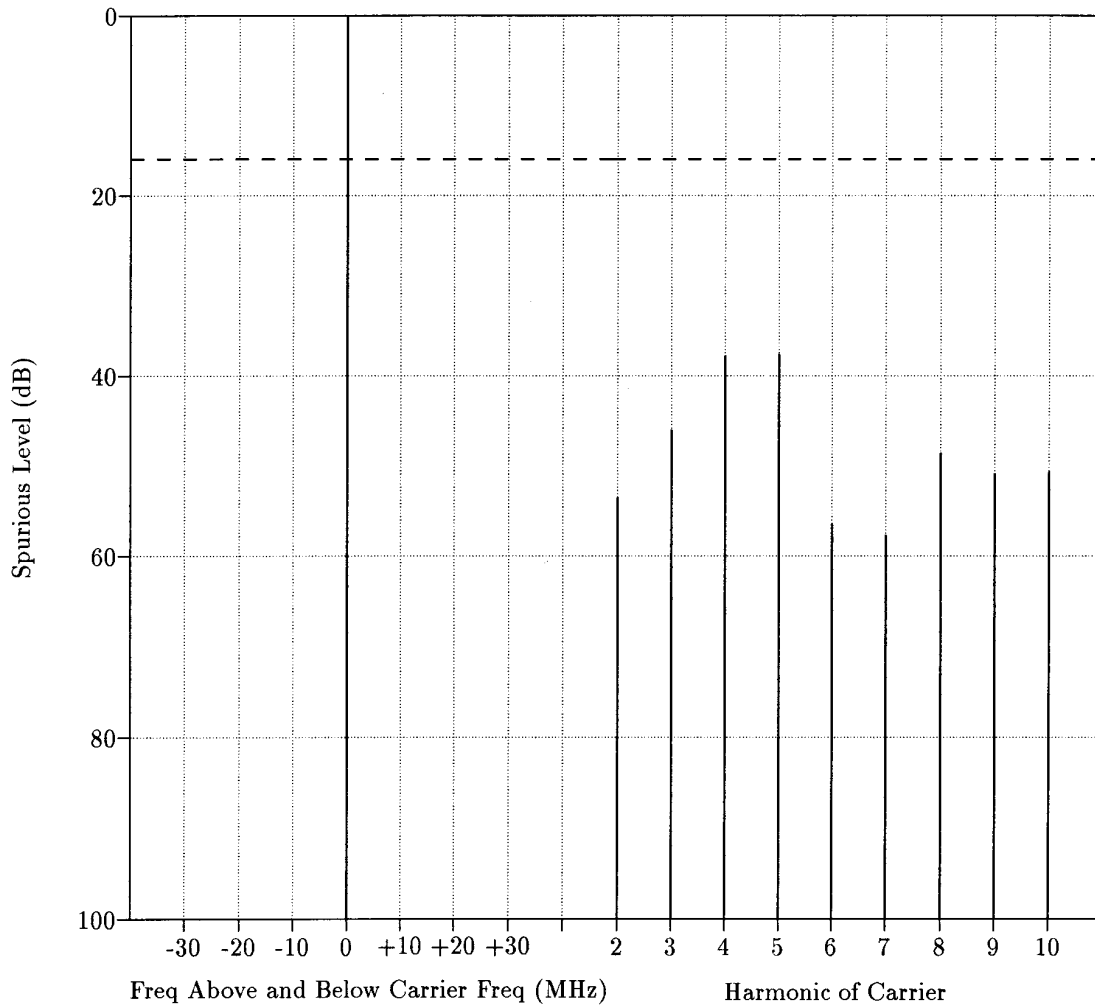
Transmitter Type: See Above
Power Output: 18.00W at 776.500MHz



The conducted spurious level is plotted in dBm on the vertical axis.
The specification for conducted spurious emissions is -16 dBm.

**CONDUCTED SPURIOUS EMISSIONS
HIGH POWER, 793.000MHz**

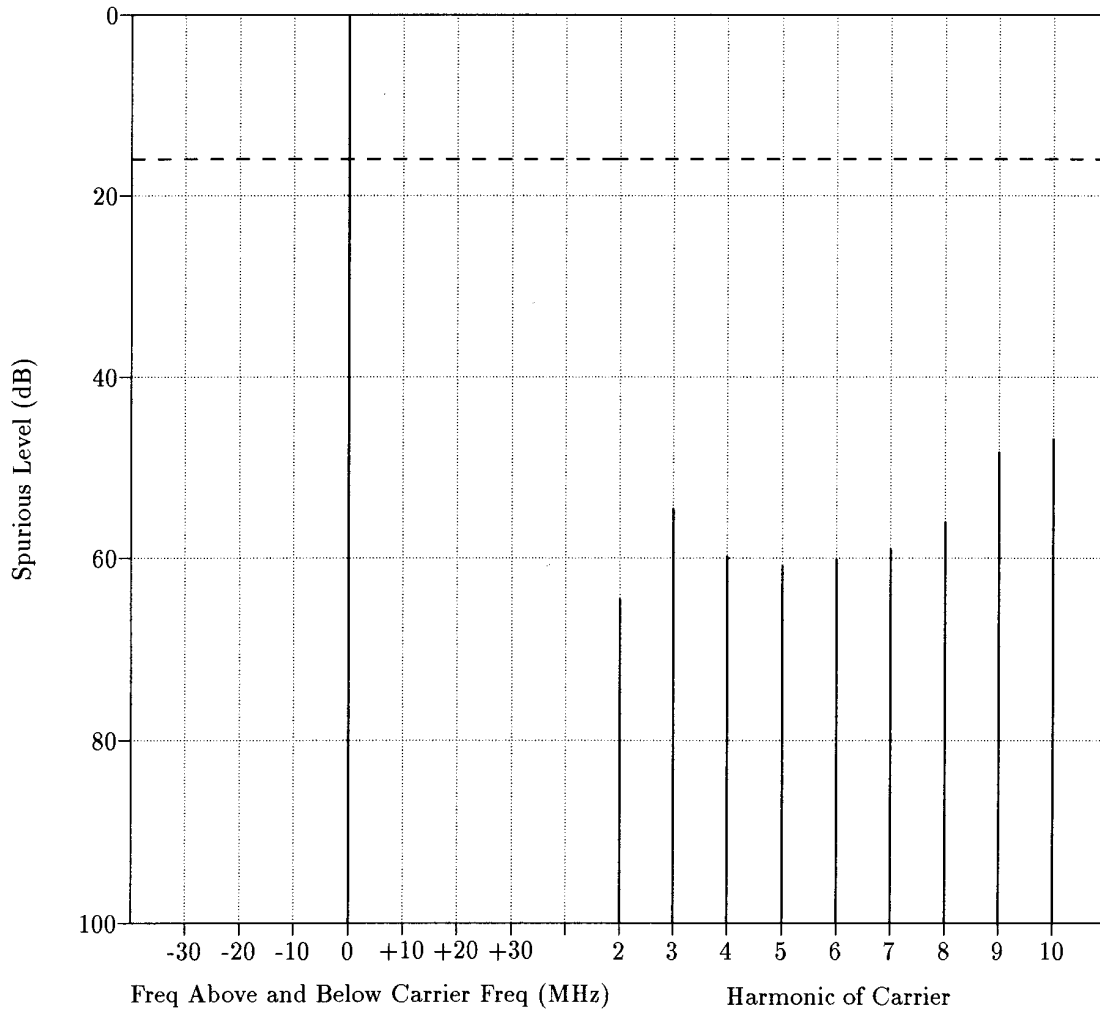
Transmitter Type: See Above
Power Output: 18.00W at 793.0000MHz



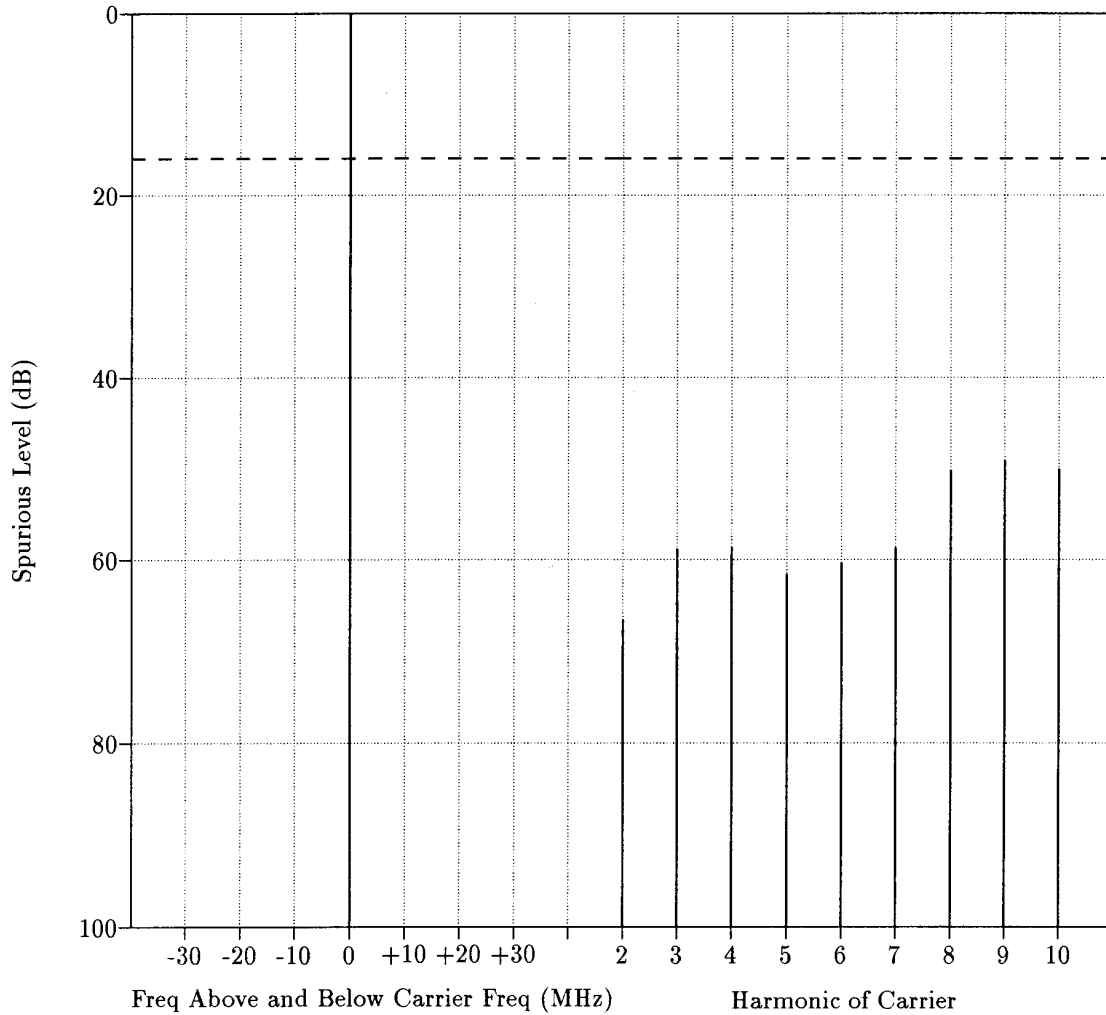
The conducted spurious level is plotted in dBm on the vertical axis.
The specification for conducted spurious emissions is -16 dBm.

**CONDUCTED SPURIOUS EMISSIONS
LOW POWER, 746.500 MHz**

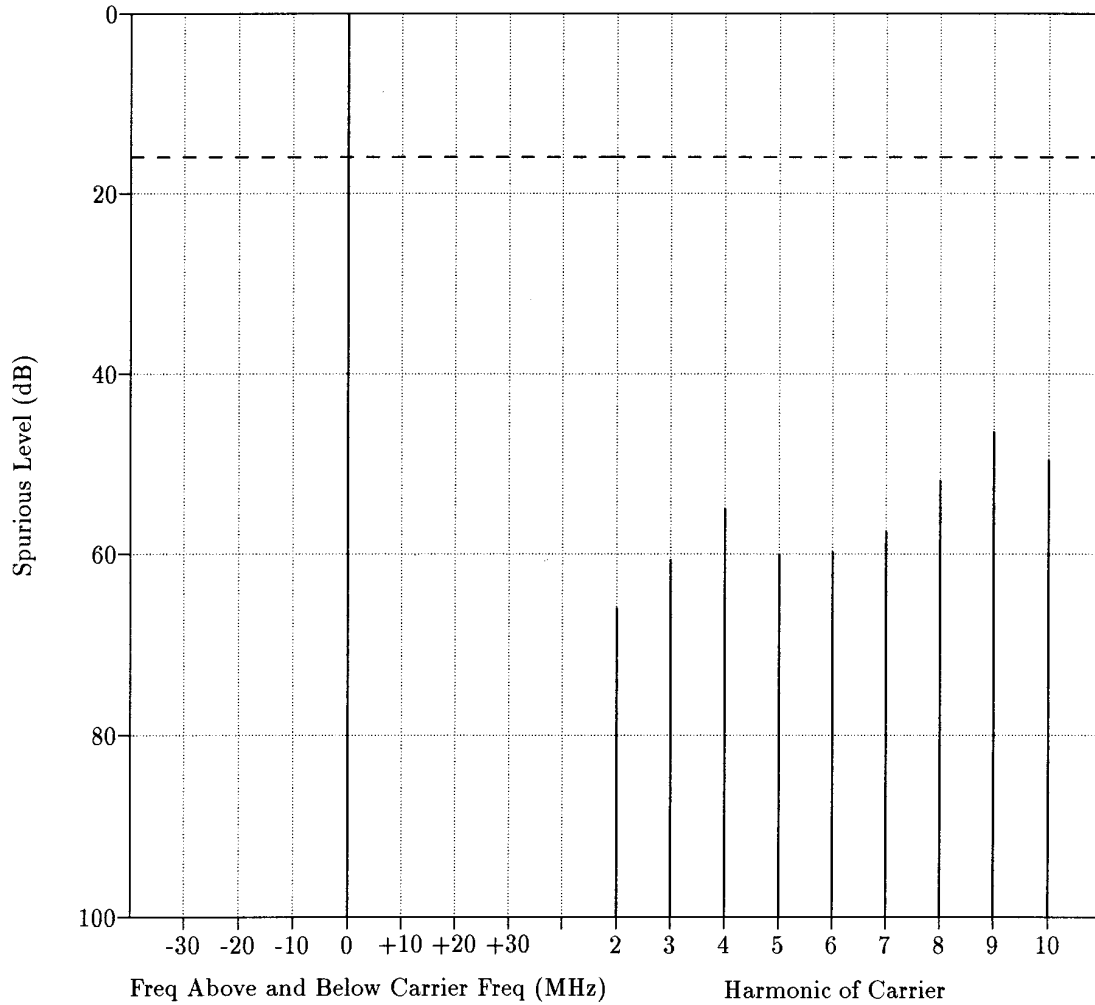
Transmitter Type: See Above
Power Output: 1.00W at 746.500MHz



The conducted spurious level is plotted in dBm on the vertical axis.
The specification for conducted spurious emissions is -16 dBm.

**CONDUCTED SPURIOUS EMISSIONS
LOW POWER, 763.000 MHz****Transmitter Type: See Above****Power Output: 1.00W at 763.0000MHz**

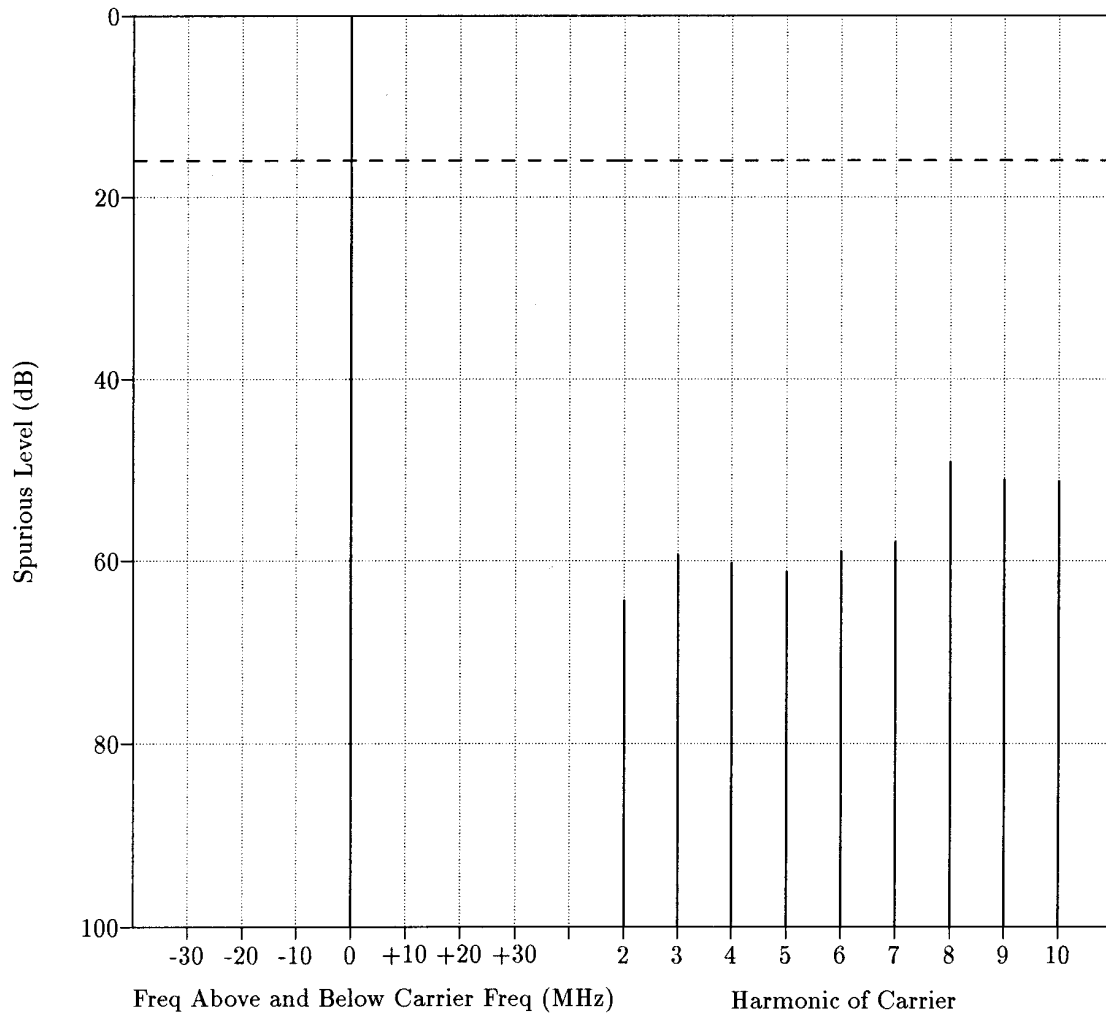
The conducted spurious level is plotted in dBm on the vertical axis.
The specification for conducted spurious emissions is -16 dBm.

**CONDUCTED SPURIOUS EMISSIONS
LOW POWER, 776.500 MHz****Transmitter Type: See Above****Power Output: 1.00W at 776.500MHz**

The conducted spurious level is plotted in dBm on the vertical axis.
The specification for conducted spurious emissions is -16 dBm.

CONDUCTED SPURIOUS EMISSIONS
LOW POWER, 793.000 MHz

Transmitter Type: See Above
Power Output: 1.00W at 793.0000MHz



The conducted spurious level is plotted in dBm on the vertical axis.
The specification for conducted spurious emissions is -16 dBm.

RADIATED SPURIOUS EMISSIONS
746.000 MHz, HORIZONTAL & VERTICAL POLARIZATION
OUTPUT POWER = 18.0 WATTS

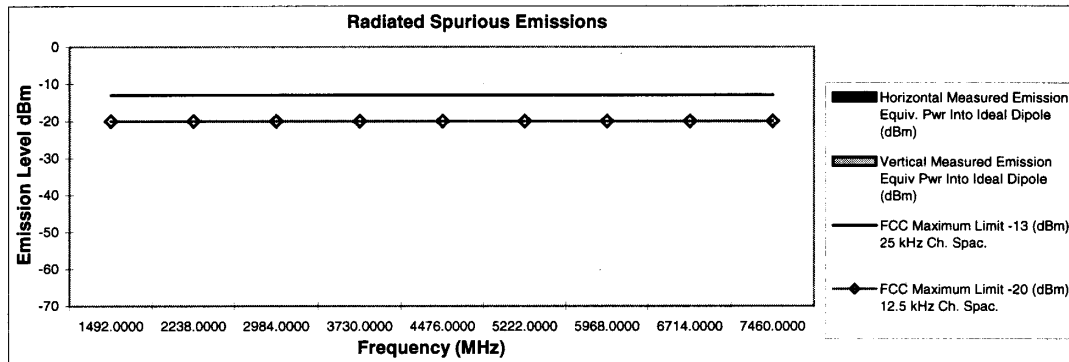
Transmitter Radiated Spurious Emissions: 700 MHz WARIS Mobile

746 MHz

18 Watts

Channel Spacing 12.5kHz | S/N XD8WE00G

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1492.0000	-13	-20	*	*
2238.0000	-13	-20	*	*
2984.0000	-13	-20	*	*
3730.0000	-13	-20	*	*
4476.0000	-13	-20	*	*
5222.0000	-13	-20	*	*
5968.0000	-13	-20	*	*
6714.0000	-13	-20	*	*
7460.0000	-13	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

RADIATED SPURIOUS EMISSIONS
762.000 MHz, HORIZONTAL & VERTICAL POLARIZATION
OUTPUT POWER = 18.0 WATTS

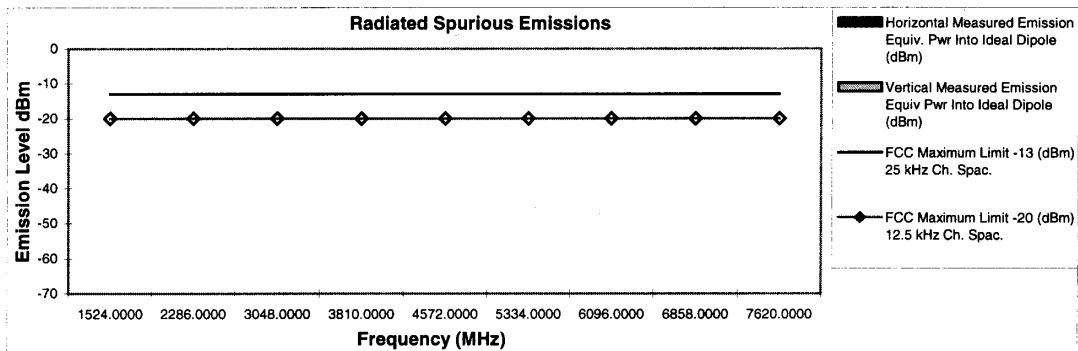
Transmitter Radiated Spurious Emissions: 700 MHz WARIS Mobile

762 MHz

18 Watts

Channel Spacing 12.5kHz | S/N XD8WE00G

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1524.0000	-13	-20	*	*
2286.0000	-13	-20	*	*
3048.0000	-13	-20	*	*
3810.0000	-13	-20	*	*
4572.0000	-13	-20	*	*
5334.0000	-13	-20	*	*
6096.0000	-13	-20	*	*
6858.0000	-13	-20	*	*
7620.0000	-13	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

RADIATED SPURIOUS EMISSIONS
776.000 MHz, HORIZONTAL & VERTICAL POLARIZATION
OUTPUT POWER = 18.0 WATTS

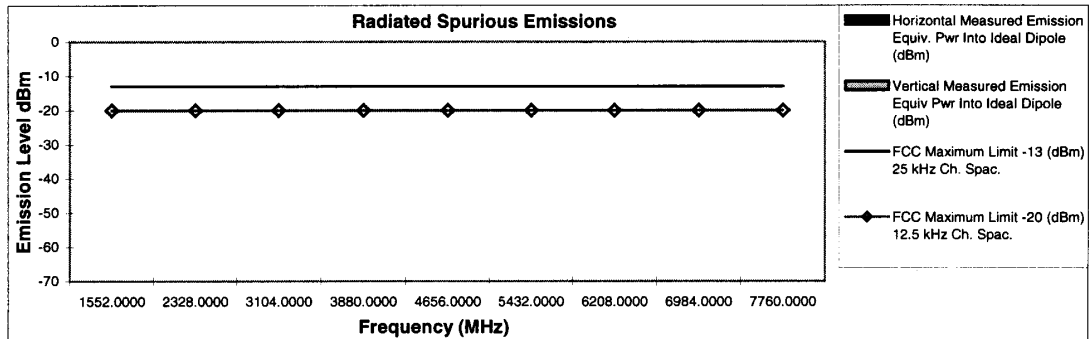
Transmitter Radiated Spurious Emissions: 700 MHz WARIS Mobile

776 MHz

18 Watts

Channel Spacing 12.5kHz | S/N XD8WE00G

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1552.0000	-13	-20	*	*
2328.0000	-13	-20	*	*
3104.0000	-13	-20	*	*
3880.0000	-13	-20	*	*
4656.0000	-13	-20	*	*
5432.0000	-13	-20	*	*
6208.0000	-13	-20	*	*
6984.0000	-13	-20	*	*
7760.0000	-13	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

RADIATED SPURIOUS EMISSIONS
793.000 MHz, HORIZONTAL & VERTICAL POLARIZATION
OUTPUT POWER = 18.0 WATTS

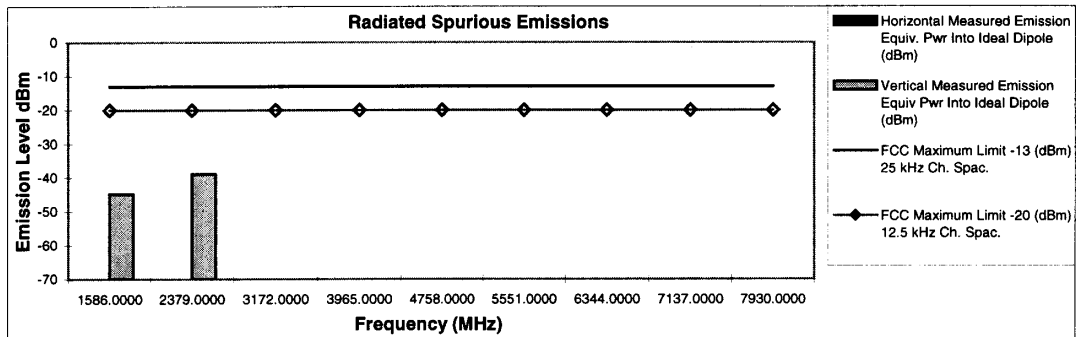
Transmitter Radiated Spurious Emissions: 700 MHz WARIS Mobile

793 MHz

18 Watts

Channel Spacing 12.5kHz | S/N XD8WE00G

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1586.0000	-13	-20	*	-44.74
2379.0000	-13	-20	*	-38.83
3172.0000	-13	-20	*	*
3965.0000	-13	-20	*	*
4758.0000	-13	-20	*	*
5551.0000	-13	-20	*	*
6344.0000	-13	-20	*	*
7137.0000	-13	-20	*	*
7930.0000	-13	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

RADIATED SPURIOUS EMISSIONS
746.000 MHz, HORIZONTAL & VERTICAL POLARIZATION
OUTPUT POWER = 1.0 WATT

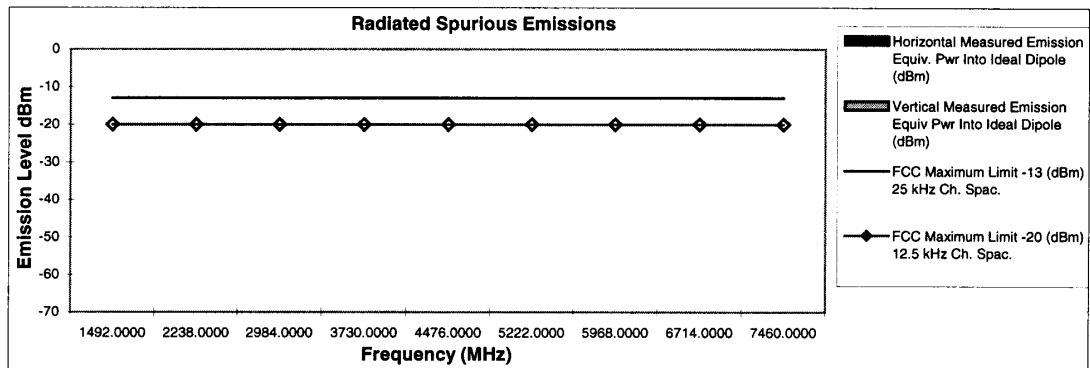
Transmitter Radiated Spurious Emissions: 700 MHz WARIS Mobile

746 MHz

1 Watts

Channel Spacing 12.5kHz | S/N XD8WE00G

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1492.0000	-13	-20	*	*
2238.0000	-13	-20	*	*
2984.0000	-13	-20	*	*
3730.0000	-13	-20	*	*
4476.0000	-13	-20	*	*
5222.0000	-13	-20	*	*
5968.0000	-13	-20	*	*
6714.0000	-13	-20	*	*
7460.0000	-13	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

RADIATED SPURIOUS EMISSIONS
762.000 MHz, HORIZONTAL & VERTICAL POLARIZATION
OUTPUT POWER = 1.0 WATT

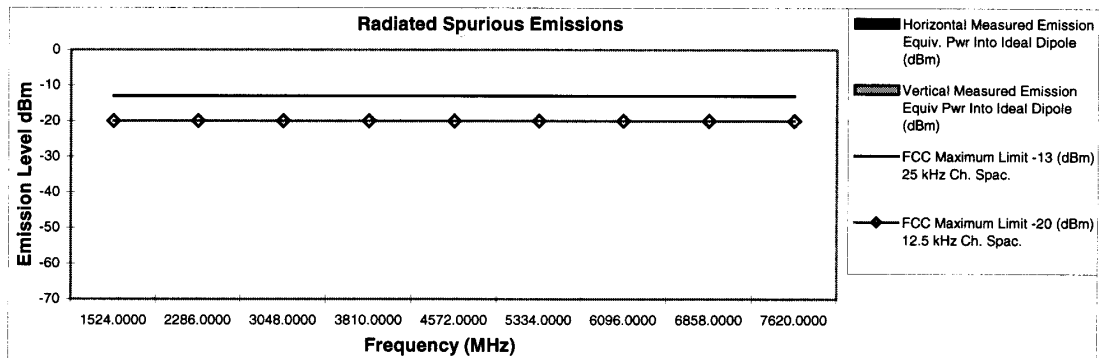
Transmitter Radiated Spurious Emissions: 700 MHz WARIS Mobile

762 MHz

1 Watts

Channel Spacing 12.5kHz | S/N XD8WE00G

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1524.0000	-13	-20	*	*
2286.0000	-13	-20	*	*
3048.0000	-13	-20	*	*
3810.0000	-13	-20	*	*
4572.0000	-13	-20	*	*
5334.0000	-13	-20	*	*
6096.0000	-13	-20	*	*
6858.0000	-13	-20	*	*
7620.0000	-13	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

RADIATED SPURIOUS EMISSIONS
776.000 MHz, HORIZONTAL & VERTICAL POLARIZATION
OUTPUT POWER = 1.0 WATT

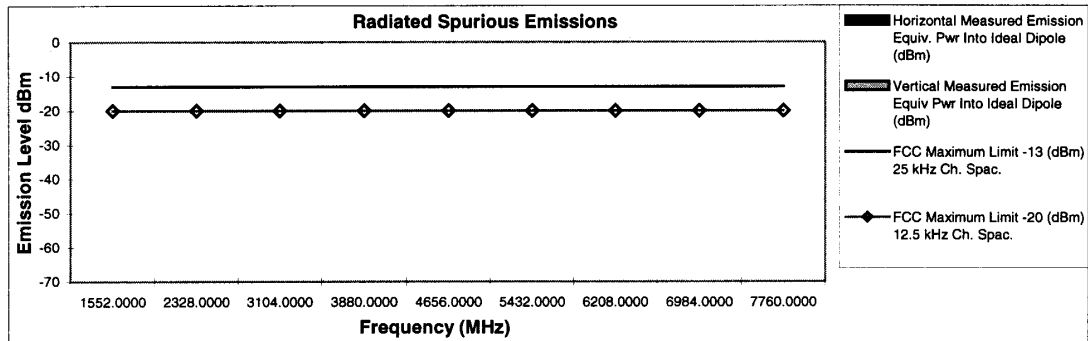
Transmitter Radiated Spurious Emissions: 700 MHz WARIS Mobile

776 MHz

1 Watts

Channel Spacing 12.5kHz | S/N XD8WE00G

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1552.0000	-13	-20	*	*
2328.0000	-13	-20	*	*
3104.0000	-13	-20	*	*
3880.0000	-13	-20	*	*
4656.0000	-13	-20	*	*
5432.0000	-13	-20	*	*
6208.0000	-13	-20	*	*
6984.0000	-13	-20	*	*
7760.0000	-13	-20	*	*



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

RADIATED SPURIOUS EMISSIONS
793.000 MHz, HORIZONTAL & VERTICAL POLARIZATION
OUTPUT POWER = 1.0 WATT

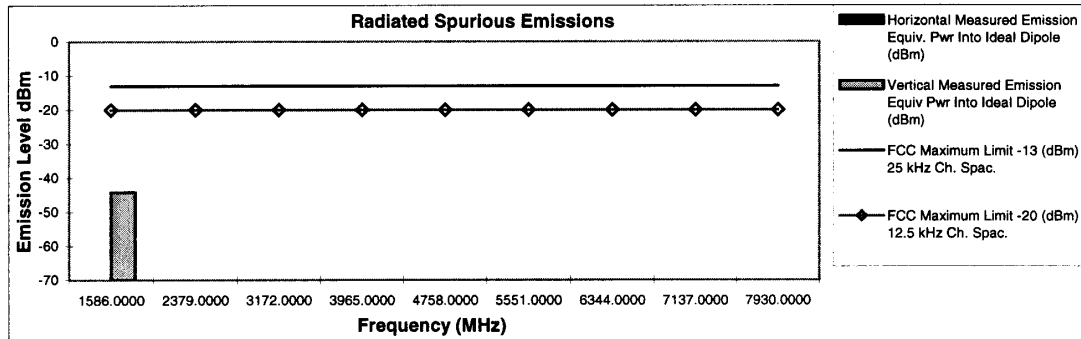
Transmitter Radiated Spurious Emissions: 700 MHz WARIS Mobile

793 MHz

1 Watts

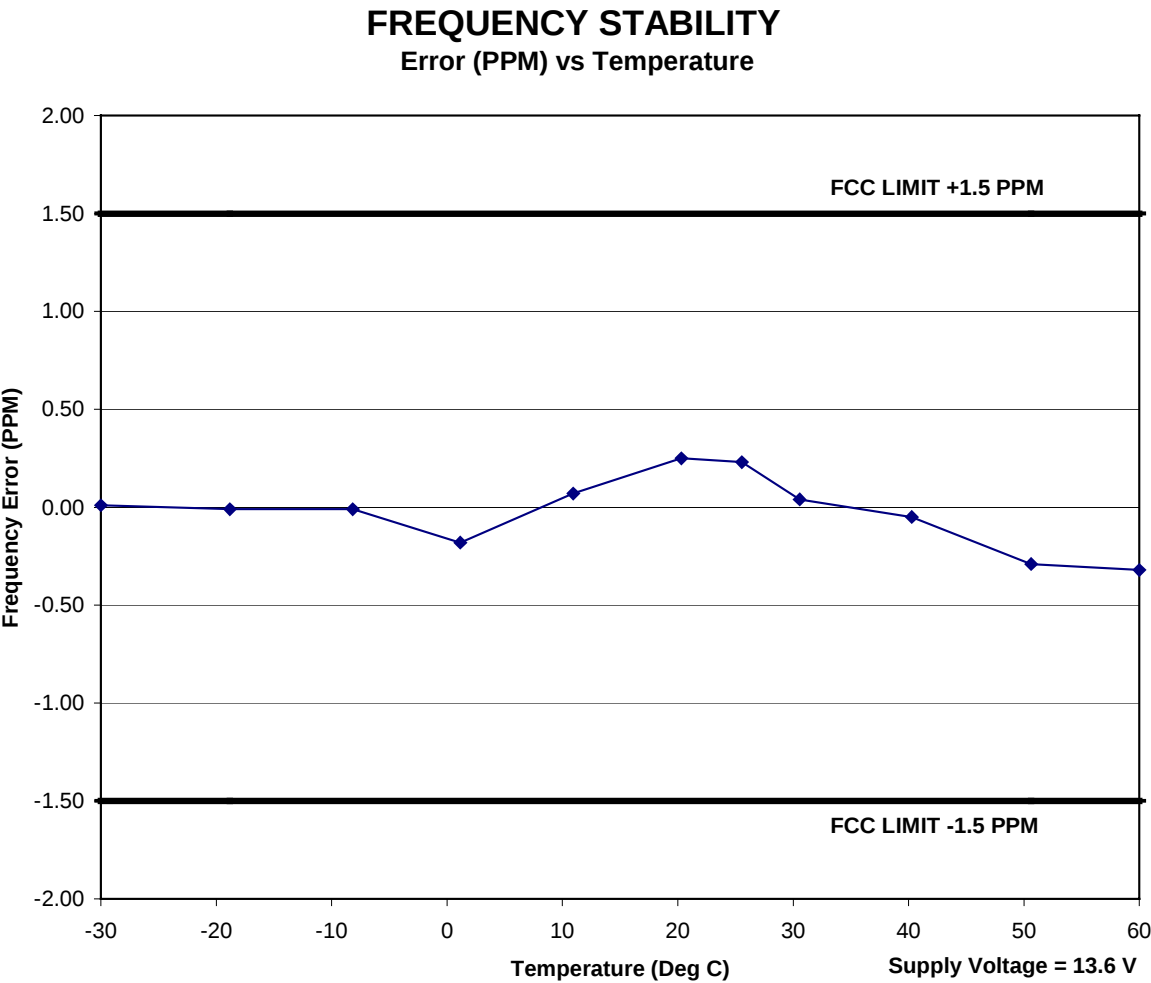
Channel Spacing 12.5kHz | S/N XD8WE00G

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1586.0000	-13	-20	*	-44.12
2379.0000	-13	-20	*	*
3172.0000	-13	-20	*	*
3965.0000	-13	-20	*	*
4758.0000	-13	-20	*	*
5551.0000	-13	-20	*	*
6344.0000	-13	-20	*	*
7137.0000	-13	-20	*	*
7930.0000	-13	-20	*	*



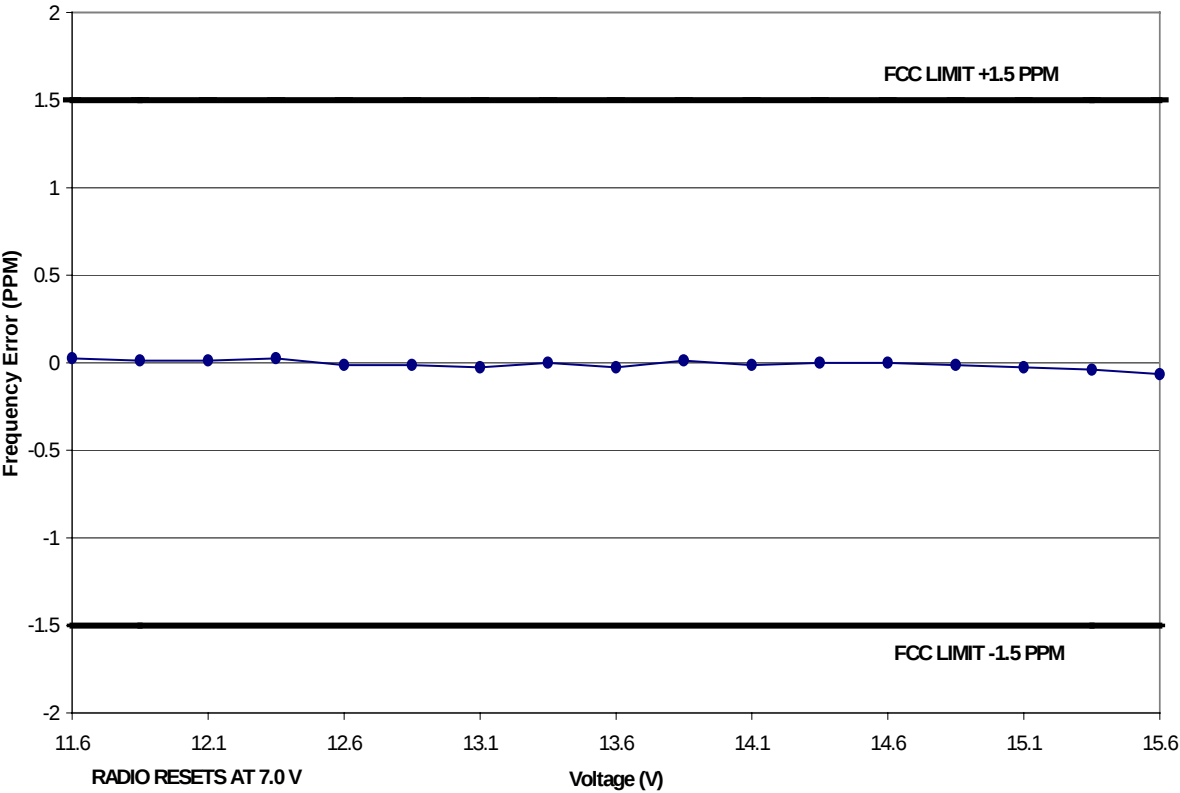
* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

FREQUENCY STABILITY VS. TEMPERATURE
SPECIFIED LIMITS: ± 1.5 PPM (-30 TO +60 DEGREES C)



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

FREQUENCY STABILITY
Error (PPM) vs Voltage



GNSS RADIATED SPURIOUS EMISSIONS

Pursuant to 47 CFR 27.53(d)(4)(e), for operations in the 746–764 MHz and 776–794 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

This equipment operates in a necessary bandwidth of 11.0 kHz as calculated in Exhibit 4F, which is greater than 700 Hz but significantly less than 1 MHz. Integration of the emissions bandwidth shows that the total energy per necessary bandwidth approaches the total energy per MHz, and the emissions limit therefore approaches -70 dBW.

The measured emission at TX frequency of 793.000 MHz produces a second harmonic emission at 1586.000 MHz, which lies within the 1559–1610 MHz band, having a worst-case level of -43.68 dBm (or -73.68 dBW).

GNSS Testing				
Date: 3/26/02		EMC#: EMC02252002-083		Temp: 82F / 69%
Product: Waris Mobile 700MHz		S/N: XD8WE000		Channel Spacing: 12.5
Notes: GNSS				
Tx Freq. 793.0000				
		Horizontal Radiated Spur. Emiss. (dBm)	Vertical Radiated Spur. Emiss. (dBm)	
Spur 2XFund	Frequency MHz			
	1586.0000	-49.84	-43.68	
Notes: GNSS				

ADJACENT CHANNEL COUPLED POWER RATIOS

Pursuant to 47 CFR 90.543(a)

Block A 777.050 MHz 12.5 kHz Channel Spacing Analog						
<u>Offset (kHz)</u>	<u>Meas. BW (kHz)</u>		<u>Lower</u>		<u>Upper</u>	<u>Spec (dBc)</u>
9.375	6.25		-47.01		-48.49	-40
15.625	6.25		-70.77		-72.74	-60
21.875	6.25		-72.64		-73.77	-60
37.500	25		-71.92		-73.43	-65
62.500	25		-79.93		-80.66	-65
87.500	25		-85.61		-85.00	-65
150.000	100		-83.57		-83.37	-65
250.000	100		-85.98		-84.86	-65
> 400k – RX band	30 (swept)		< -75			-75
RX band	30 (swept)		< -100			-100

Block B 793.925 MHz 12.5 kHz Channel Spacing Analog						
<u>Offset (kHz)</u>	<u>Meas. BW (kHz)</u>		<u>Lower</u>		<u>Upper</u>	<u>Spec (dBc)</u>
9.375	6.25		-46.51		-48.19	-40
15.625	6.25		-71.64		-70.48	-60
21.875	6.25		-72.68		-71.77	-60
37.500	25		-71.95		-71.57	-65
62.500	25		-80.29		-79.91	-65
87.500	25		-86.07		-84.73	-65
150.000	100		-84.23		-83.57	-65
250.000	100		-87.65		-86.33	-65
> 400k – RX band	30 (swept)		< -75			-75
RX band	30 (swept)		< -100			-100