

APPLICANT:  
Ericsson Radio System AB

FCC ID NO.  
B5KKRC12103-31

EXHIBIT 6 - COVER SHEET

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RF POWER OUTPUT DIGITAL MODE

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2.1046 (a) RF Power Output

The RF power output at the output terminal is plotted against supply voltage variation at the highest power level.

The measurement was made per TIA/IS-136/IS-138 using the following Equipment.

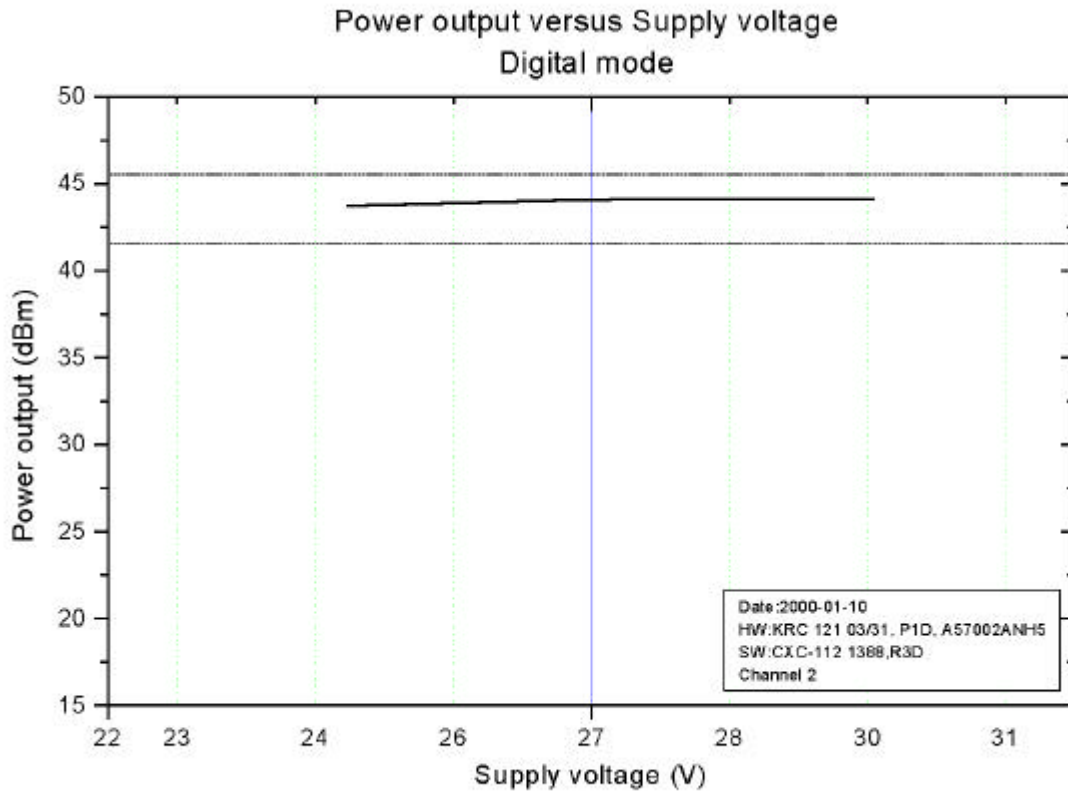
Radio frequency 50 ohm load attached to the output. The power was measured on a BONTON RF Peak power meter/analyzer.

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RF POWER OUTPUT DIGITAL MODE

2.1046 (a) RF Power Output



Channel 2 Output Power 44.5 dBm

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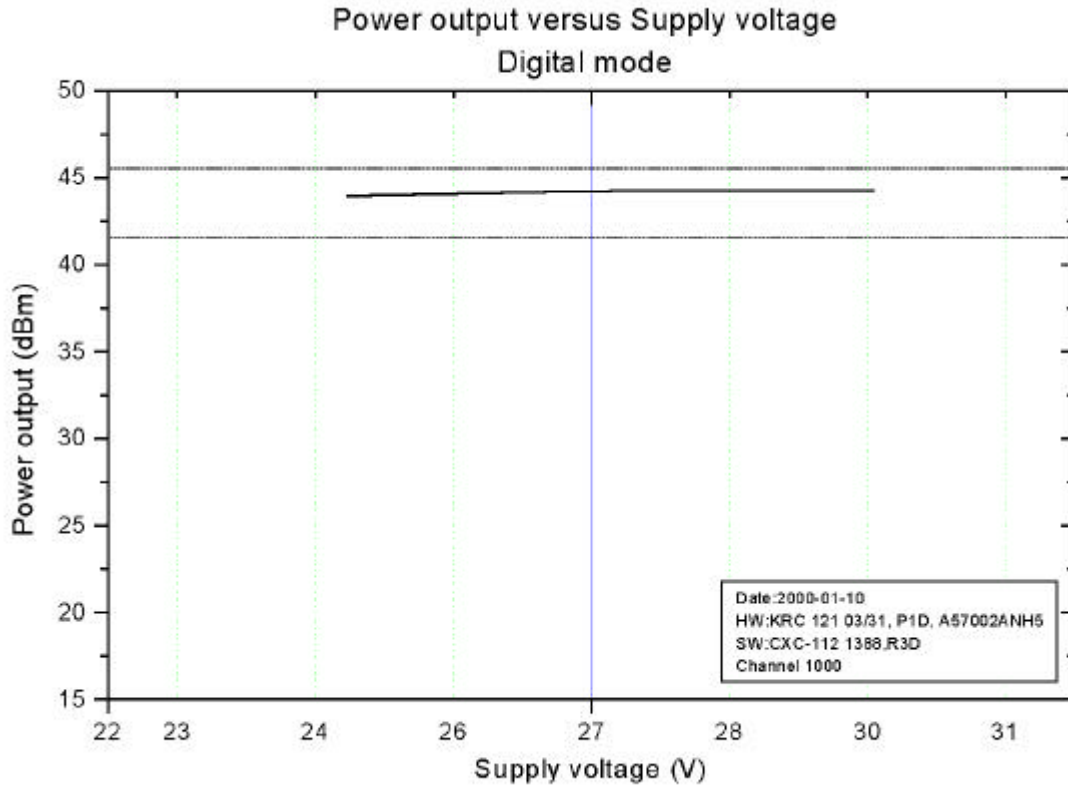
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RF POWER OUTPUT DIGITAL MODE

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2.1046 (a) RF Power Output

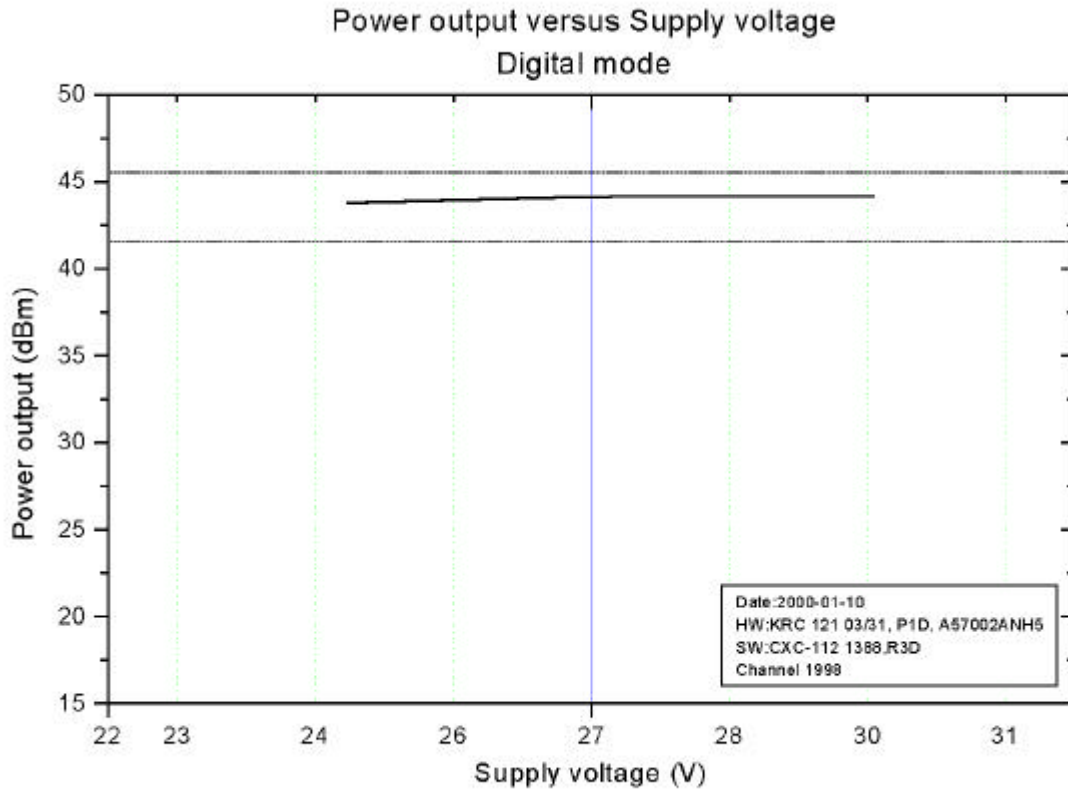


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RF POWER OUTPUT DIGITAL MODE

2.1046 (a) RF Power Output



Channel 1998

Output Power 44.5 dBm

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MODULATION CHARACTERISTICS DIGITAL MODE

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2.1047 (d) The modulation characteristics for the unit is measured with pseudorandom data modulation of the unit and the result is shown as the Error Vector Magnitude which is limited to 12.5 percent according to TIA/IS-136/IS-138

Chan.	Freq. (MHz)	Output Power (Watts)	Error Vector Magnitude (%)
2	1930.08	28	3.76
1000	1960.02	28	3.96
1998	1989.96	28	3.37

Equipment used:

Rohde & Schwarz ESI 40, EMI Test Receiver  
Including:  
Spectrum Analyzer, 20 Hz-40 GHz  
EMI Receiver, 20 Hz-40 GHz  
Option FSE-B7 Signal Vector Analysis

The R&S ESI 40 was hooked up to a external 10 MHz reference standard during the measurements.

The sync generator was hooked up to a 10 MHz reference standard from a HP89441 Vector Signal Analyzer during the measurements.

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OCCUPIED BANDWIDTH

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2.1049 (c,1)(g) Occupied Bandwidth

The measurement methods per TIA/IS-136/IS-138 were used.

Equipment used:

Rohde & Schwarz ESI 40, EMI Test Receiver  
Including:

Spectrum Analyzer, 20 Hz-40 GHz

EMI Receiver, 20 Hz-40 GHz

Option FSE-B7 Signal Vector Analysis

The input signal source was a R&S CMTA 54 Radiocommunication analyzer for analog mode. The input signal was fed through a audio-PCM-converter named Claudio.


Radio frequency 50 ohm load attached to the output.

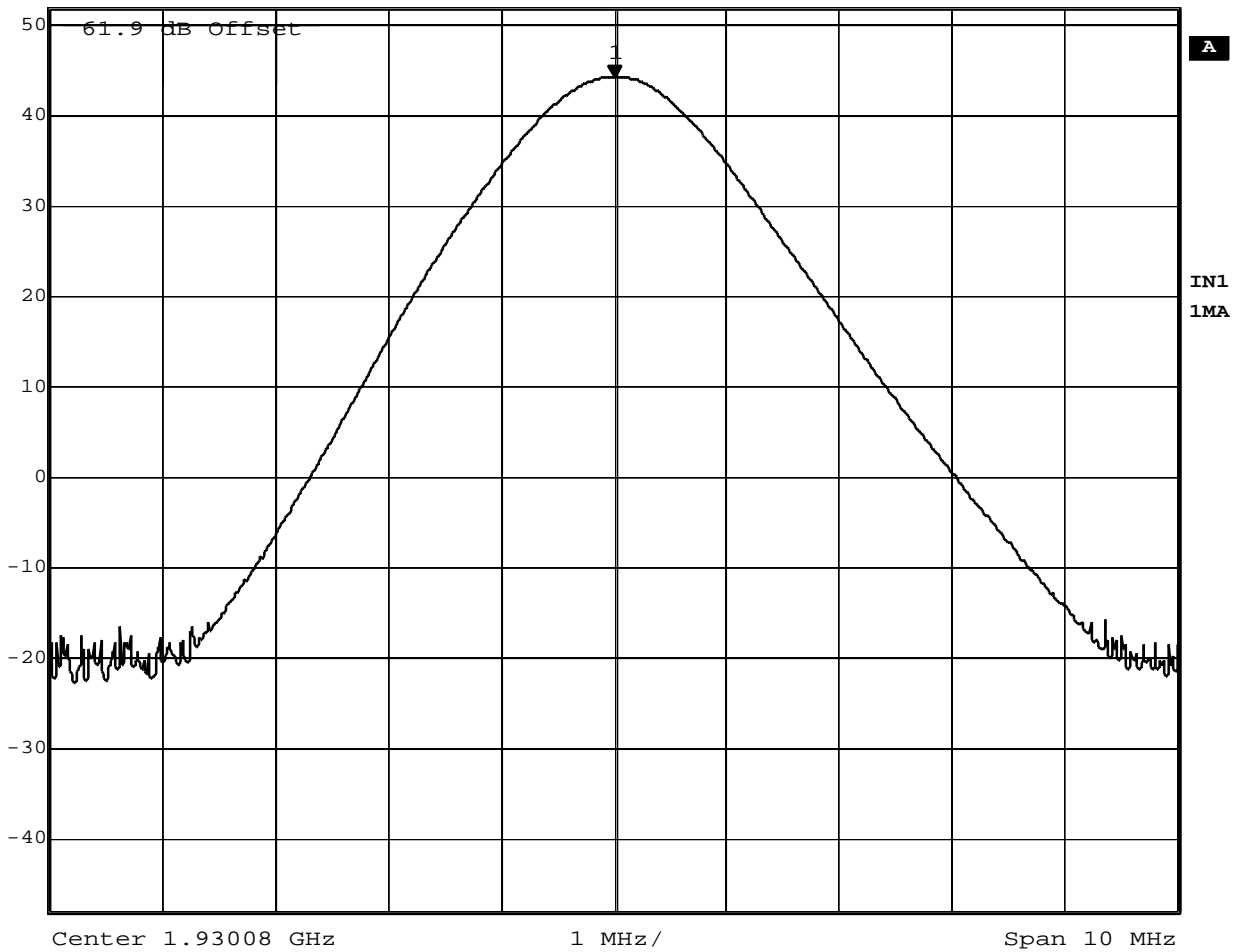
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OCCUPIED BANDWIDTH CONTINUOUS WAVE

Modulation Sideband Spectrum  
Measured Per TIA/IS-136/IS-138

	Marker 1 [T1]	RBW	1 MHz	RF Att	0 dB
	Ref Lvl	44.09 dBm	VBW	1 MHz	
	51.9 dBm	1.93008000 GHz	SWT	5 ms	Unit



Date: 14.JAN.2000 14:39:13

Channel 2 / Carrier frequency = 1930.08 MHz  
Unmodulated




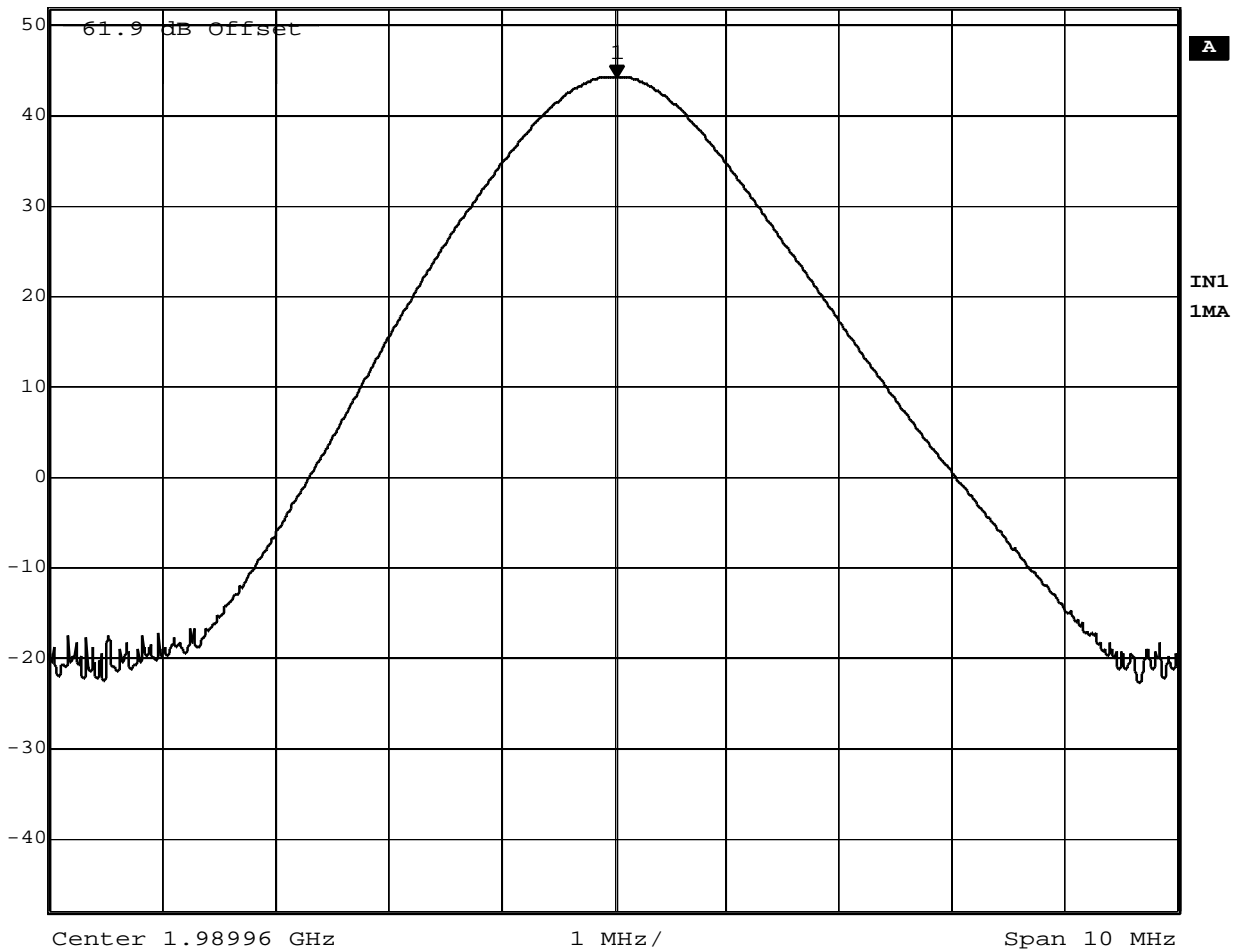
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OCCUPIED BANDWIDTH CONTINUOUS WAVE

Modulation Sideband Spectrum  
Measured Per TIA/IS-136/IS-138

	Marker 1 [T1]	RBW	1 MHz	RF Att	0 dB
	Ref Lvl	44.14 dBm	VBW	1 MHz	
	51.9 dBm	1.98999006 GHz	SWT	5 ms	Unit



Date: 14.JAN.2000 15:01:32


Channel 1998 / Carrier frequency = 1989.96 MHz  
Unmodulated

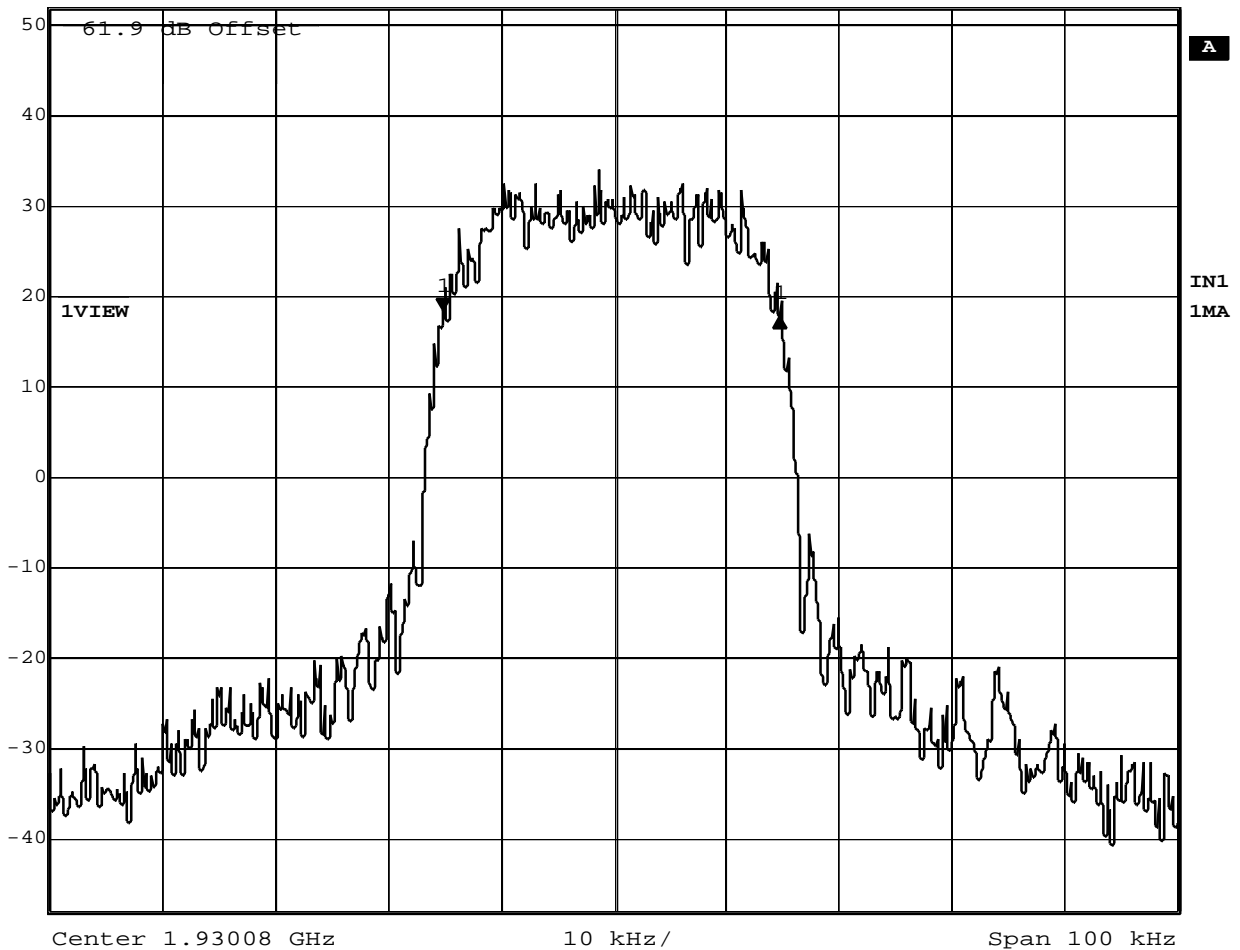
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OCCUPIED BANDWIDTH 26 dB POINTS

Modulation Sideband Spectrum  
Measured Per TIA/IS-136/IS-138

	Delta 1 [T1]	RBW	300 Hz	RF Att	0 dB
	Ref Lvl	-0.86 dB	VBW	5 kHz	
	51.9 dBm	29.85971944 kHz	SWT	5.6 s	Unit dBm



Date: 14.JAN.2000 14:45:53

Channel 2 / Carrier frequency = 1930.08 MHz  
Referenced to the Rated Power Output  
Modulated with 48.6 kbs PSEUDORANDOM DATA

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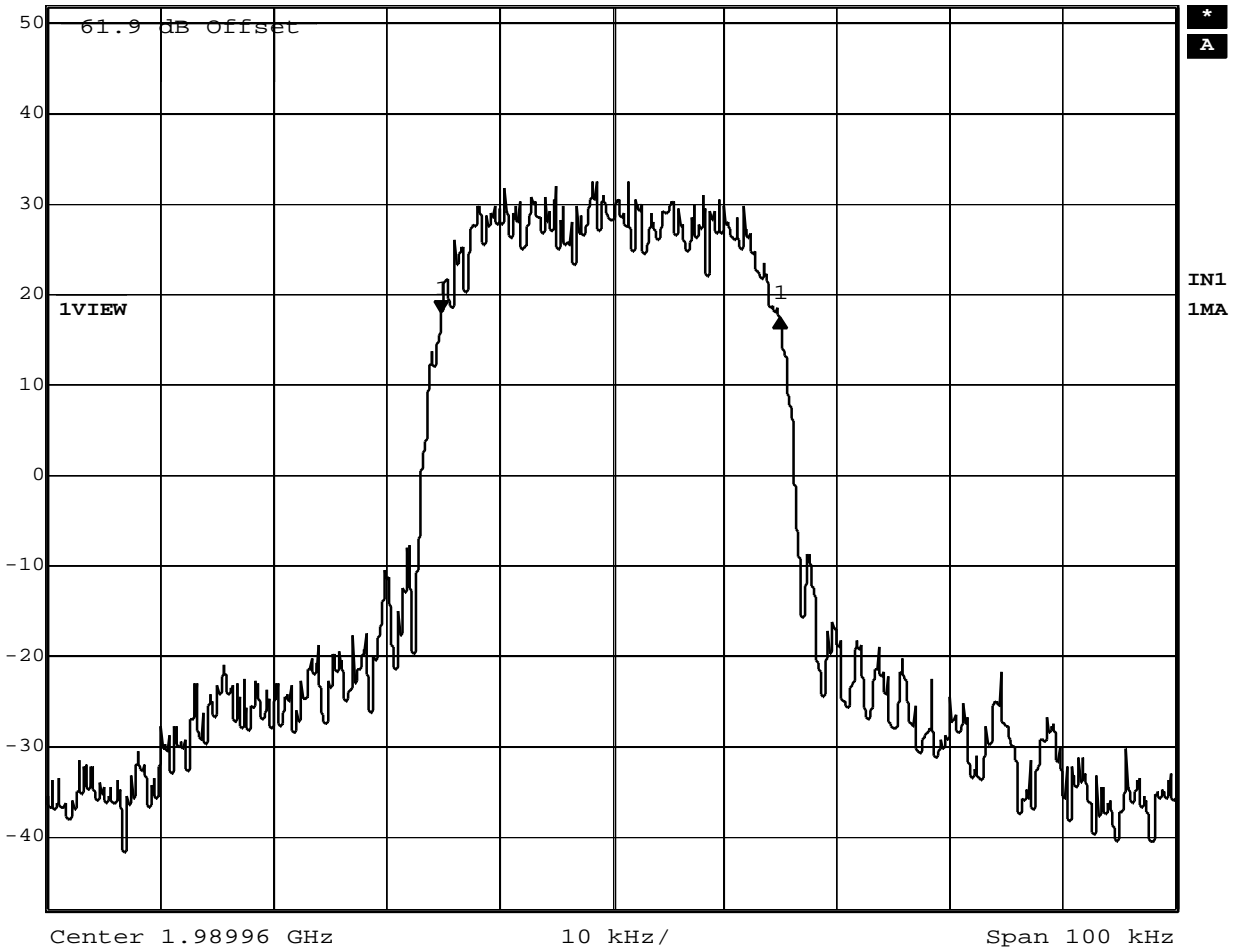
FCC ID NO.  
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OCCUPIED BANDWIDTH 26 dB POINTS

Modulation Sideband Spectrum  
Measured Per TIA/IS-136/IS-138



Delta 1 [T1]	RBW	300 Hz	RF Att	0 dB
Ref Lvl	-0.51 dB	VBW	300 Hz	
51.9 dBm	30.16032064 kHz	SWT	5.6 s	Unit dBm



Date: 14.JAN.2000 15:11:43

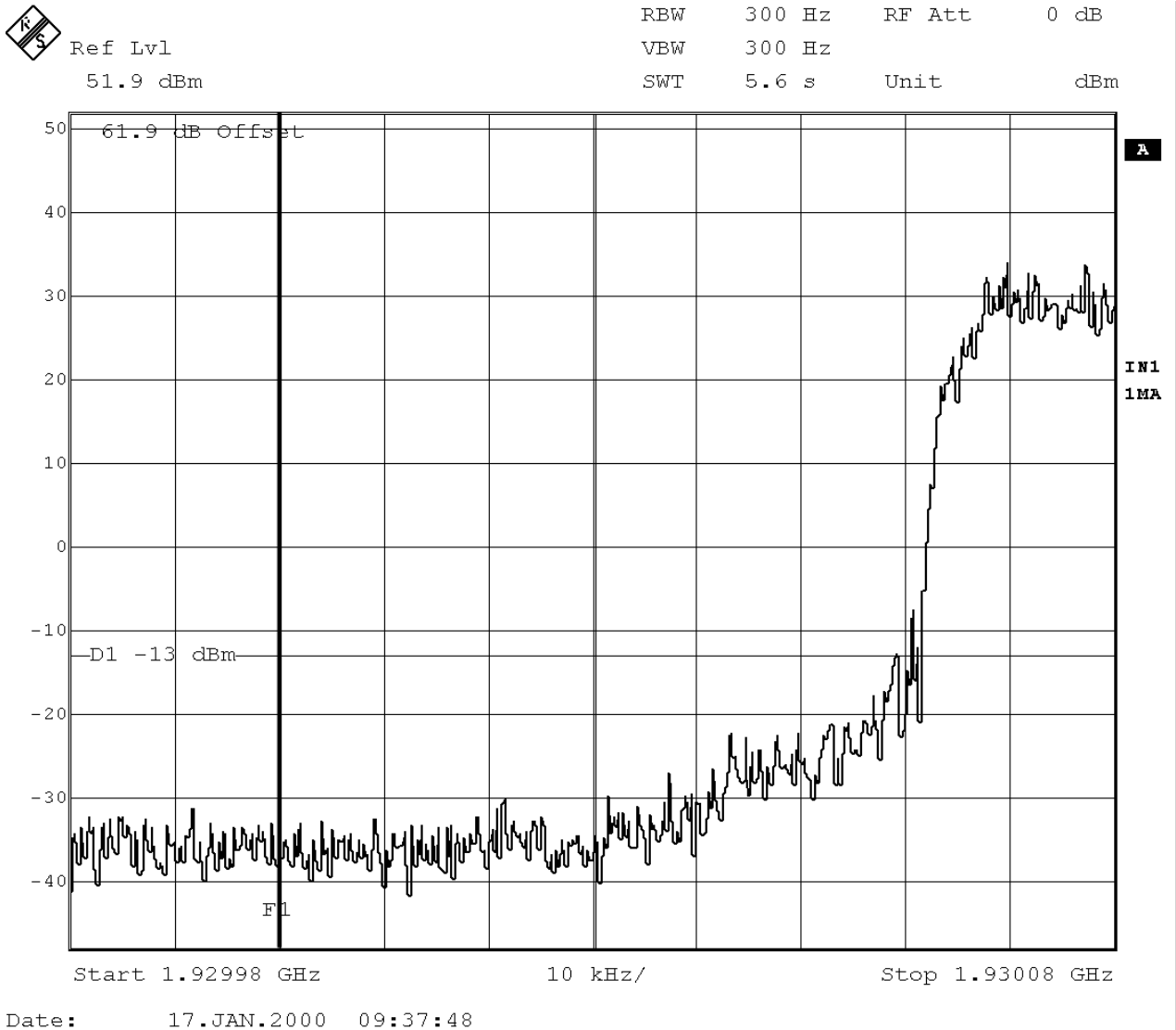
Channel 1998 / Carrier frequency = 1989.96 MHz  
Referenced to the Rated Power Output  
Modulated with 48.6 kbs PSEUDORANDOM DATA

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OCCUPIED BANDWIDTH BAND EDGES

Modulation Sideband Spectrum  
Measured Per TIA/IS-136/IS-138



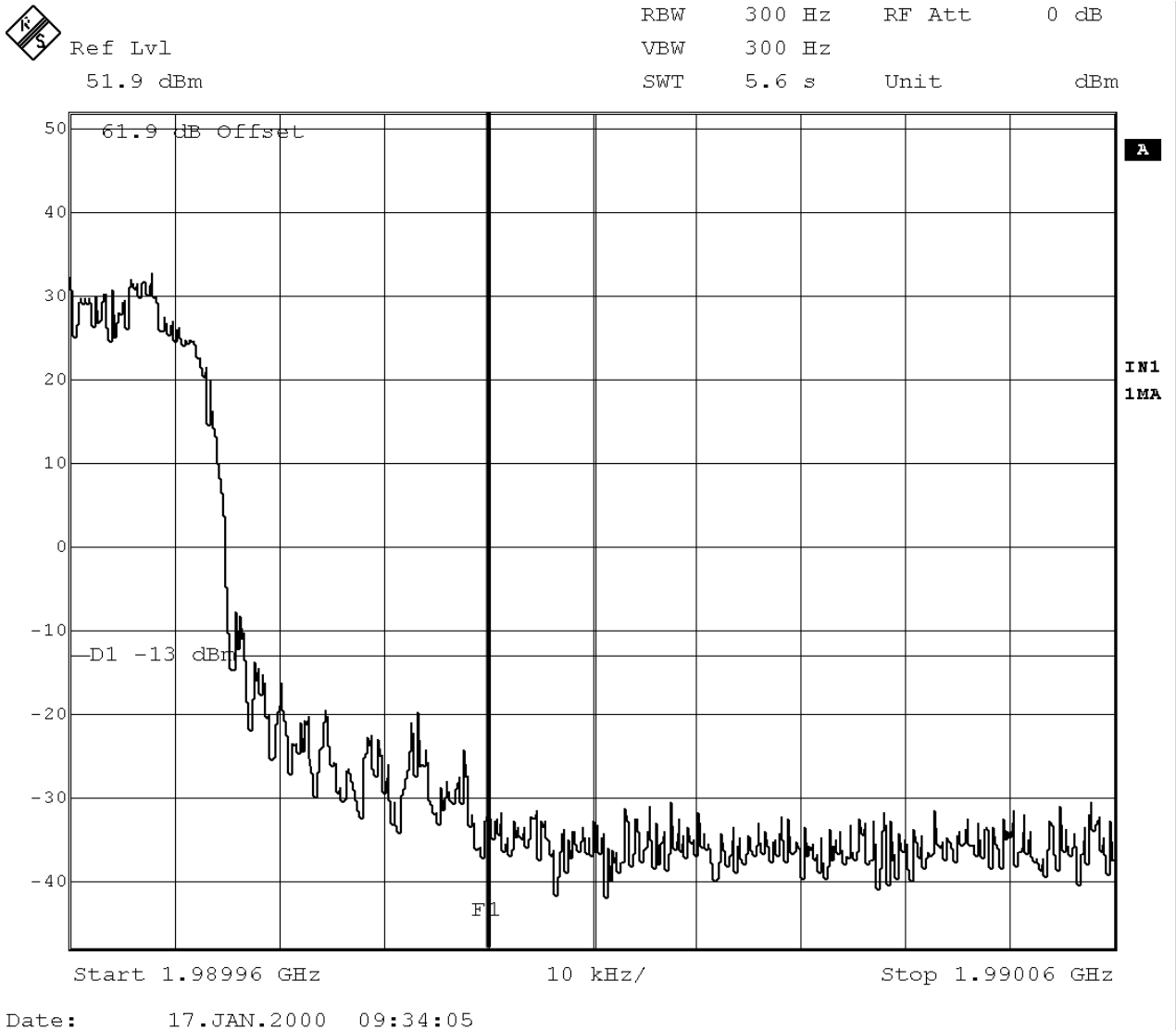
Channel 2 / Carrier frequency = 1930.08 MHz  
Referenced to the Rated Power Output  
Modulated with 48.6 kbs PSEUDORANDOM DATA

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FCC ID NO.  
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OCCUPIED BANDWIDTH BAND EDGES

Modulation Sideband Spectrum  
Measured Per TIA/IS-136/IS-138



Channel 1998 / Carrier frequency = 1989.96 MHz  
Referenced to the Rated Power Output  
Modulated with 48.6 kbs PSEUDORANDOM DATA

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CONDUCTED SPURIOUS EMISSIONS

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2.1051

Conducted Spurious Emissions

Spurious emissions at the antenna terminal (conducted) when properly loaded with an appropriate artificial antenna were measured per EIA/IS-138 § 3.4.2.

Equipment used:

Rohde & Schwarz ESI 40, EMI Test Receiver  
Including:  
Spectrum Analyzer, 20 Hz-40 GHz  
EMI Receiver, 20 Hz-40 GHz  
Option FSE-B7 Signal Vector Analysis

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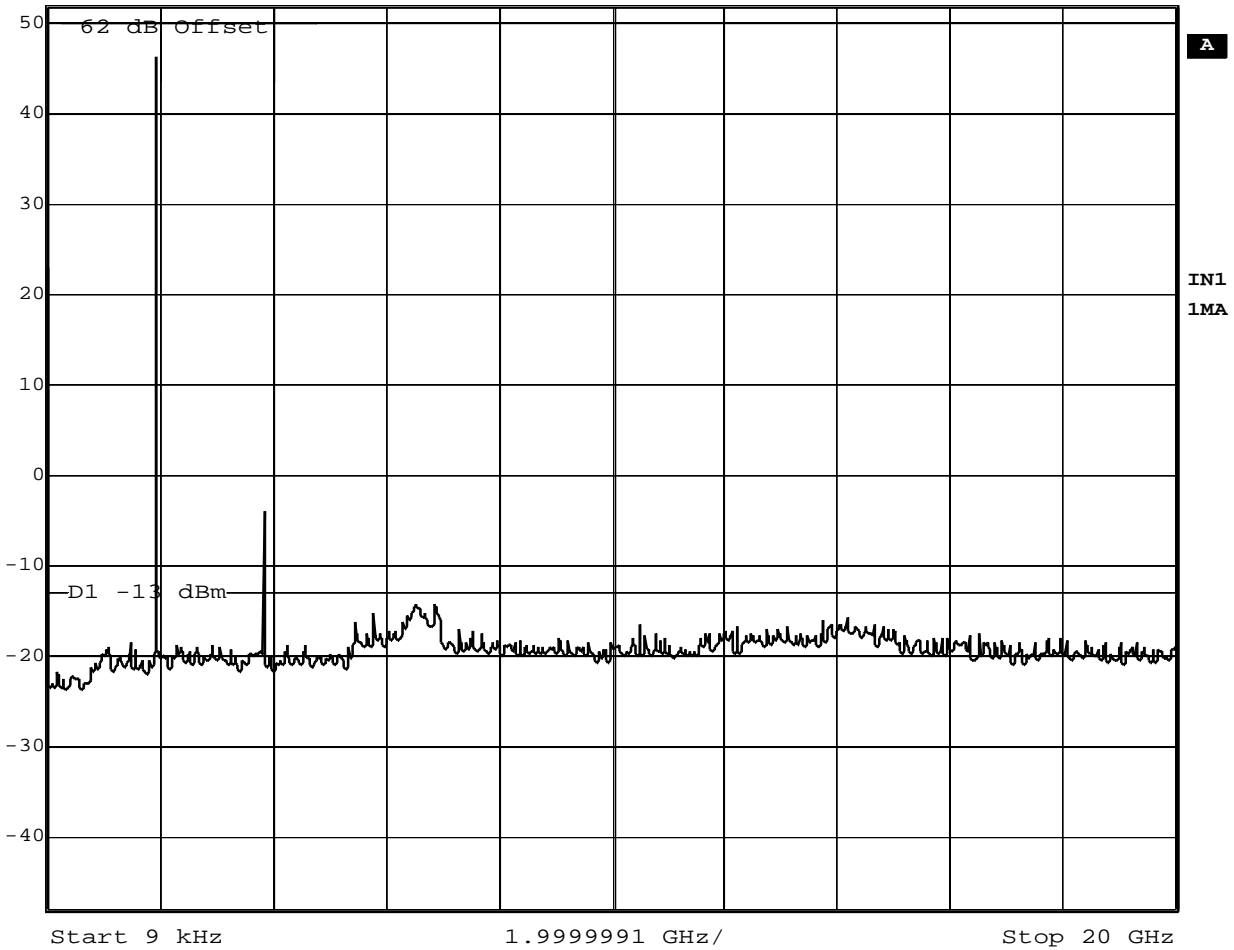
CONDUCTED SPURIOUS EMISSIONS DIGITAL MODE

Conducted Spurious Emission  
Measured Per TIA/IS-136/IS-138



Ref Lvl  
52 dBm

RBW 1 MHz RF Att 0 dB  
VBW 1 MHz  
SWT 115 ms Unit dBm



Date: 8.DEC.1999 15:26:35

Rated Power Output = 28 Watt  
Channel 2 / Carrier frequency = 1930.08 MHz  
Modulated with 48.6 kbs PSEUDORANDOM DATA

Note: Measured without bandpass filter on TRX output.  
See description of Spurious and Harmonic  
Suppression in Exhibit 5A.

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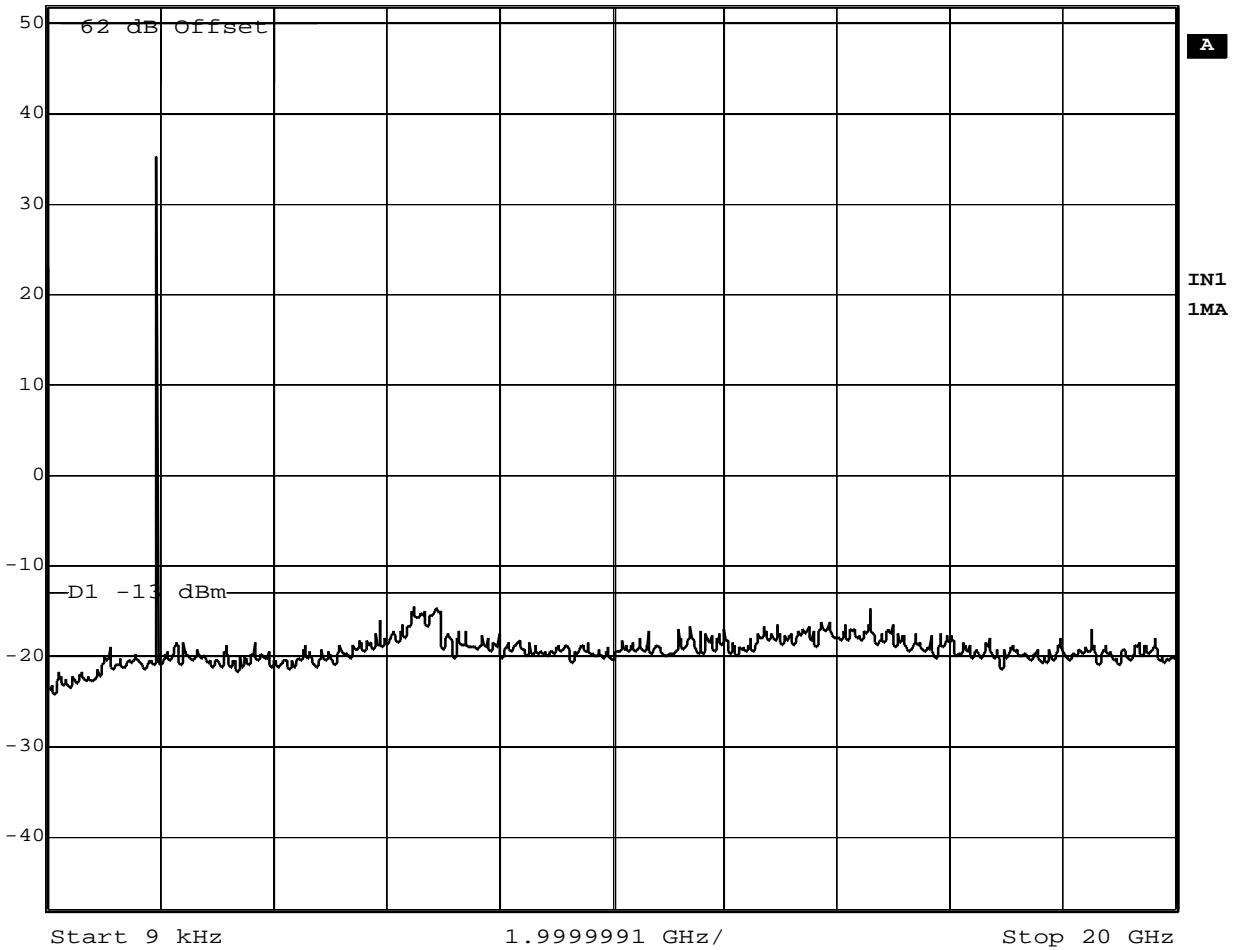
CONDUCTED SPURIOUS EMISSIONS DIGITAL MODE

Conducted Spurious Emission  
Measured Per TIA/IS-136/IS-138



Ref Lvl  
52 dBm

RBW 1 MHz RF Att 0 dB  
VBW 1 MHz  
SWT 115 ms Unit dBm



Date: 8.DEC.1999 15:17:28

Rated Power Output = 28 Watt  
Channel 2 / Carrier frequency = 1930.08 MHz  
Modulated with 48.6 kbs PSEUDORANDOM DATA

Note: Measured **with** bandpass filter on TRX output.  
See description of Spurious and Harmonic  
Suppression in Exhibit 5A.



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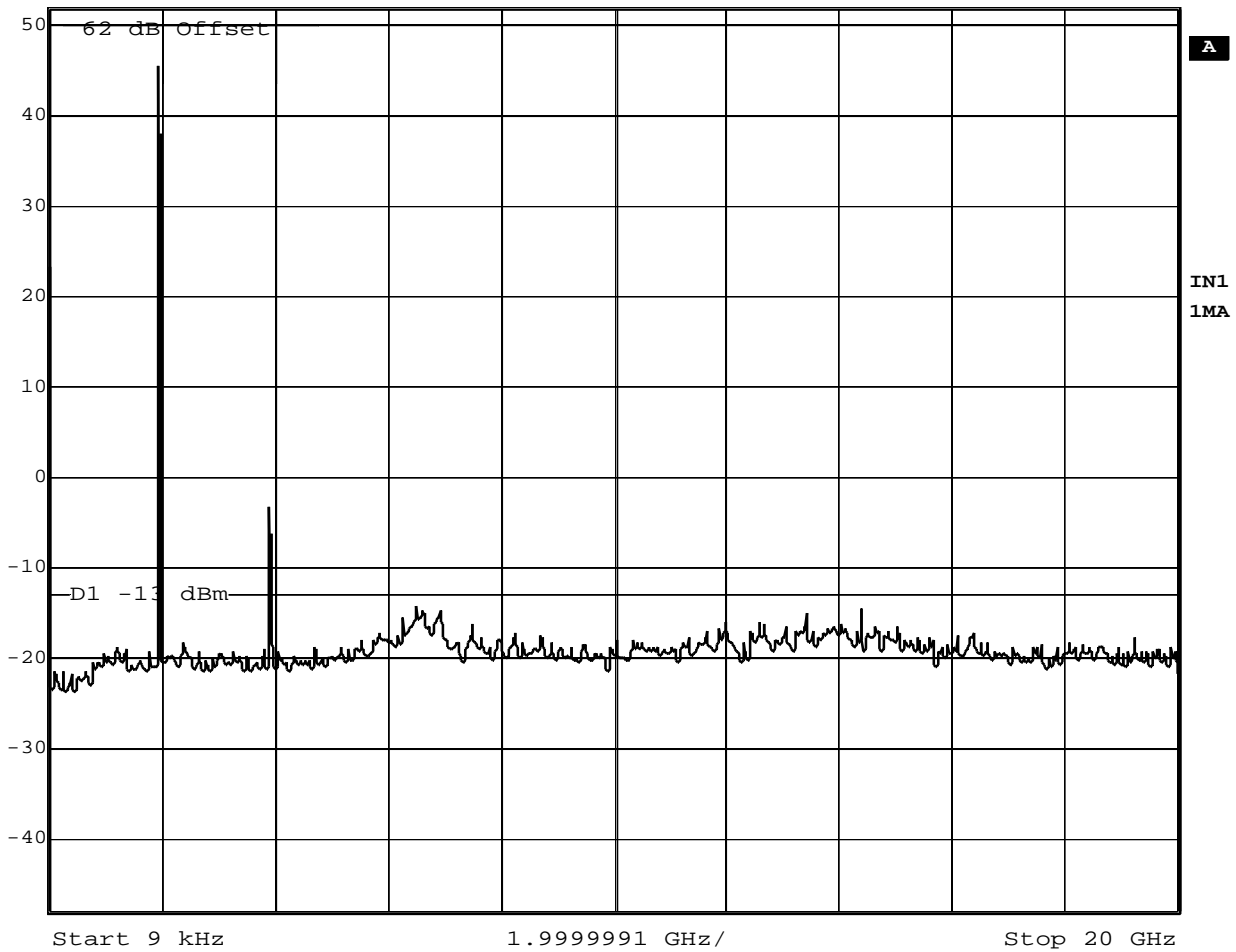
CONDUCTED SPURIOUS EMISSIONS DIGITAL MODE

Conducted Spurious Emission  
Measured Per TIA/IS-136/IS-138



Ref Lvl  
52 dBm

RBW 1 MHz RF Att 0 dB  
VBW 1 MHz  
SWT 115 ms Unit dBm



Date: 8.DEC.1999 15:28:03

Rated Power Output = 28 Watt  
Channel 1000 / Carrier frequency = 1960.02 MHz  
Modulated with 48.6 kbs PSEUDORANDOM DATA

Note: Measured without bandpass filter on TRX output.  
See description of Spurious and Harmonic  
Suppression in Exhibit 5A.

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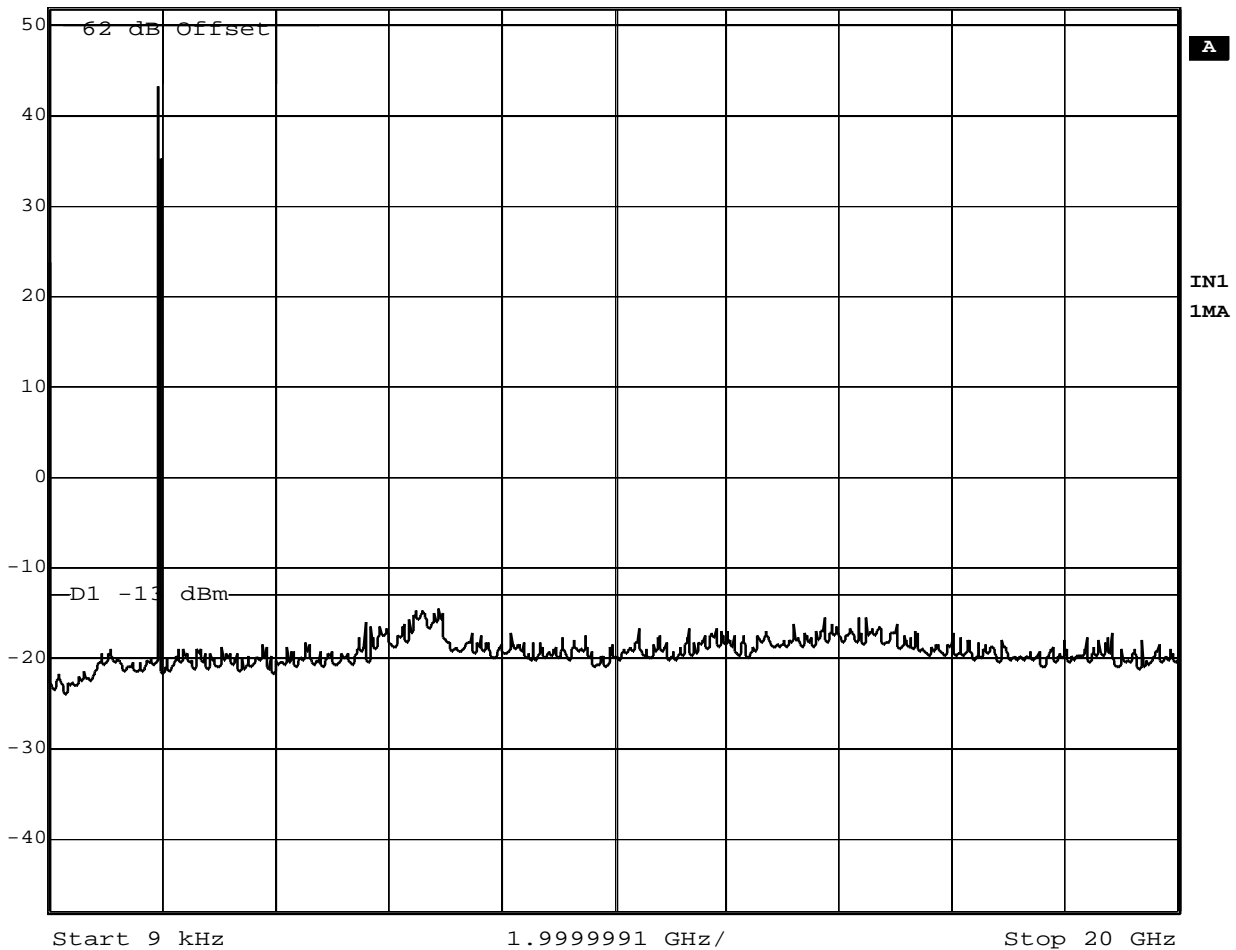
CONDUCTED SPURIOUS EMISSIONS DIGITAL MODE

Conducted Spurious Emission  
Measured Per TIA/IS-136/IS-138



Ref Lvl  
52 dBm

RBW 1 MHz RF Att 0 dB  
VBW 1 MHz  
SWT 115 ms Unit dBm



Date: 8.DEC.1999 15:19:30

Rated Power Output = 28 Watt  
Channel 1000 / Carrier frequency = 1960.02 MHz  
Modulated with 48.6 kbs PSEUDORANDOM DATA

Note: Measured **with** bandpass filter on TRX output.  
See description of Spurious and Harmonic  
Suppression in Exhibit 5A.

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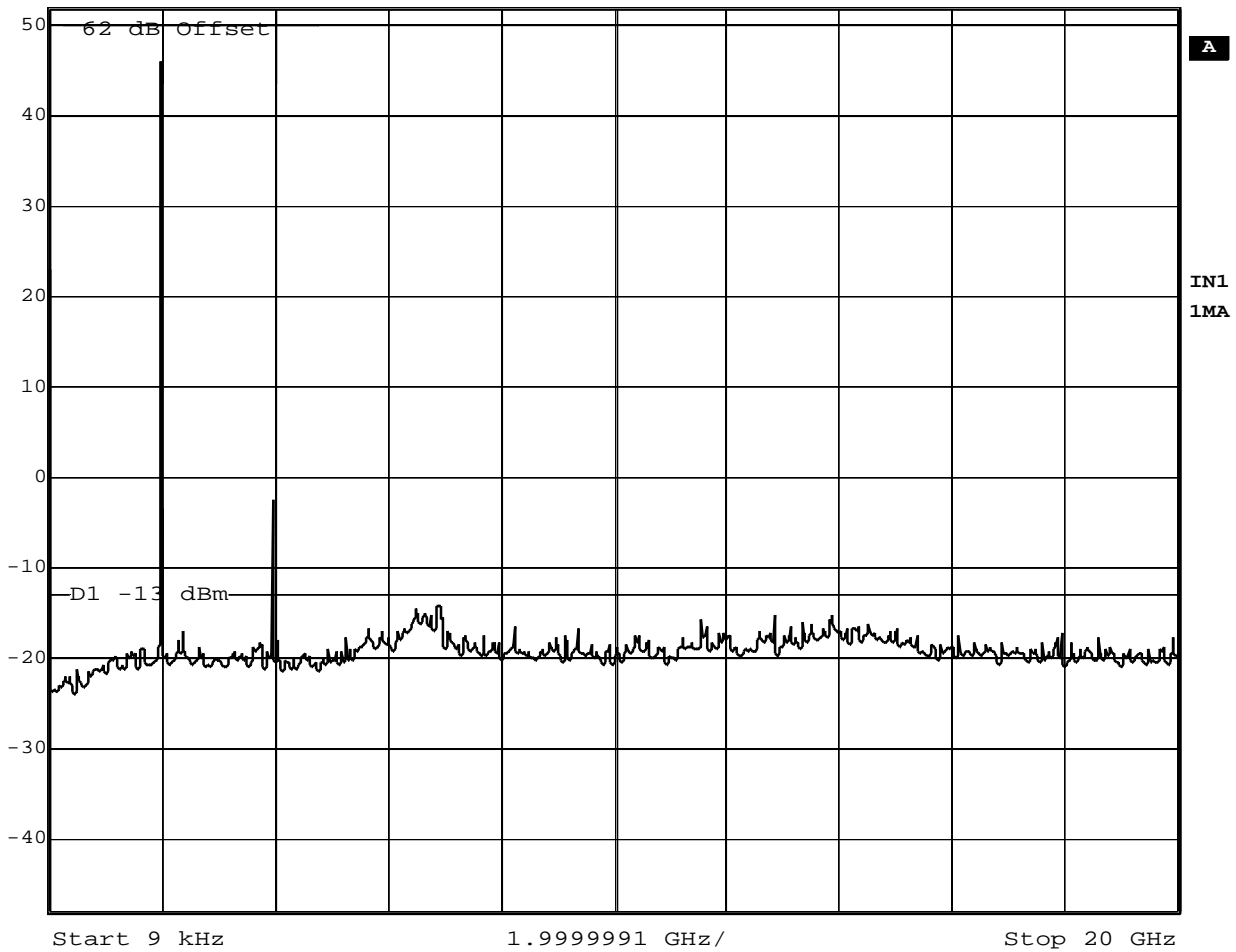
CONDUCTED SPURIOUS EMISSIONS DIGITAL MODE

Conducted Spurious Emission  
Measured Per TIA/IS-136/IS-138



Ref Lvl  
52 dBm

RBW 1 MHz RF Att 0 dB  
VBW 1 MHz  
SWT 115 ms Unit dBm



Date: 8.DEC.1999 15:28:44

Rated Power Output = 28 Watt  
Channel 1998 / Carrier frequency = 1989.96 MHz  
Modulated with 48.6 kbs PSEUDORANDOM DATA

Note: Measured without bandpass filter on TRX output.  
See description of Spurious and Harmonic  
Suppression in Exhibit 5A.

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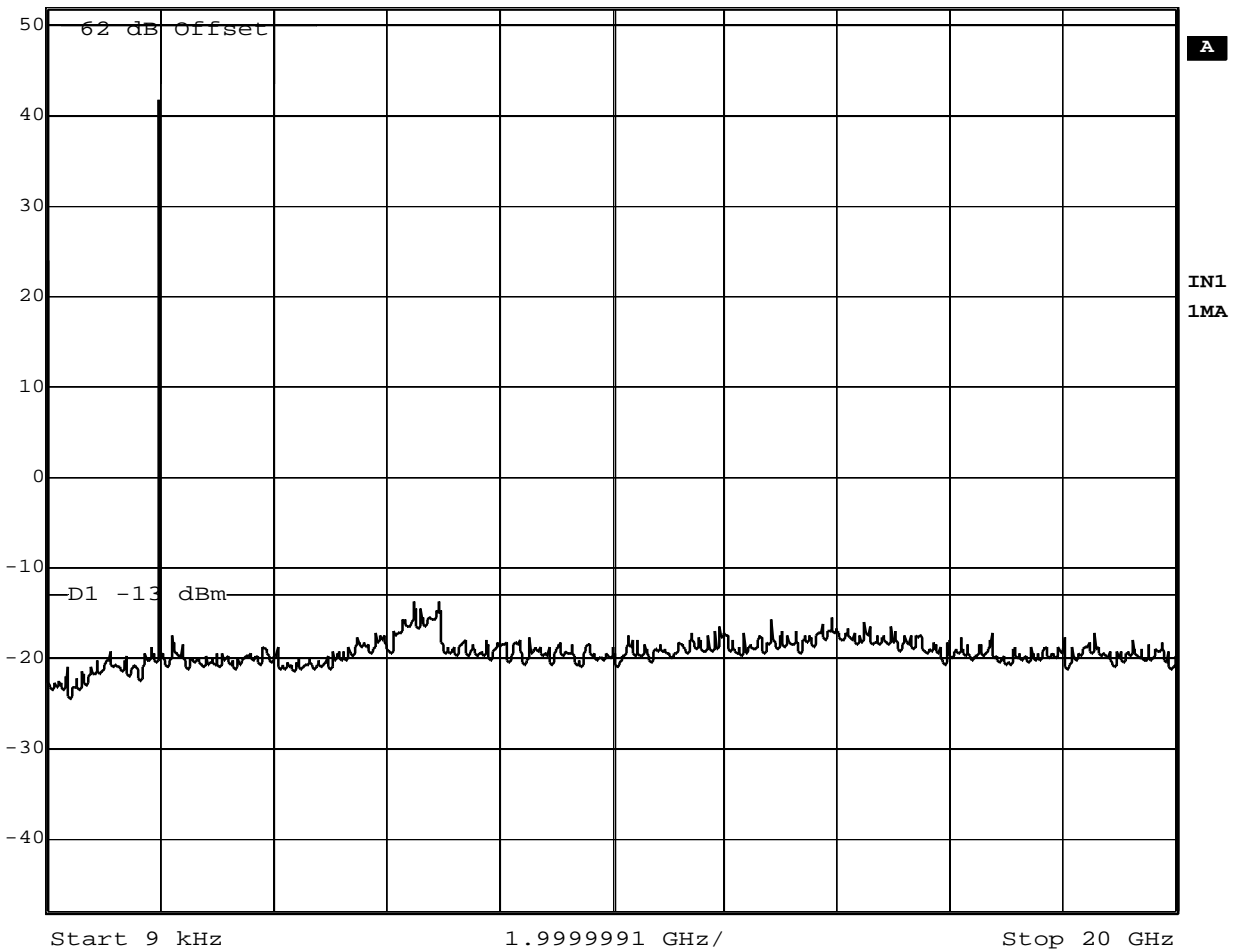
CONDUCTED SPURIOUS EMISSIONS DIGITAL MODE

Conducted Spurious Emission  
Measured Per TIA/IS-136/IS-138



Ref Lvl  
52 dBm

RBW 1 MHz RF Att 0 dB  
VBW 1 MHz  
SWT 115 ms Unit dBm



Date: 8.DEC.1999 15:22:56

Rated Power Output = 28 Watt  
Channel 1998 / Carrier frequency = 1989.96 MHz  
Modulated with 48.6 kbs PSEUDORANDOM DATA

Note: Measured **with** bandpass filter on TRX output.  
See description of Spurious and Harmonic  
Suppression in Exhibit 5A.

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RADIATED SPURIOUS EMISSIONS MACRO DIGITAL MODE

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2.1053

Field Strength of Spurious Radiation

Ref. 2.1053 field strength of spurious emissions was measured on our 3 meter range. The measurement procedure is per EIA/IS-138.

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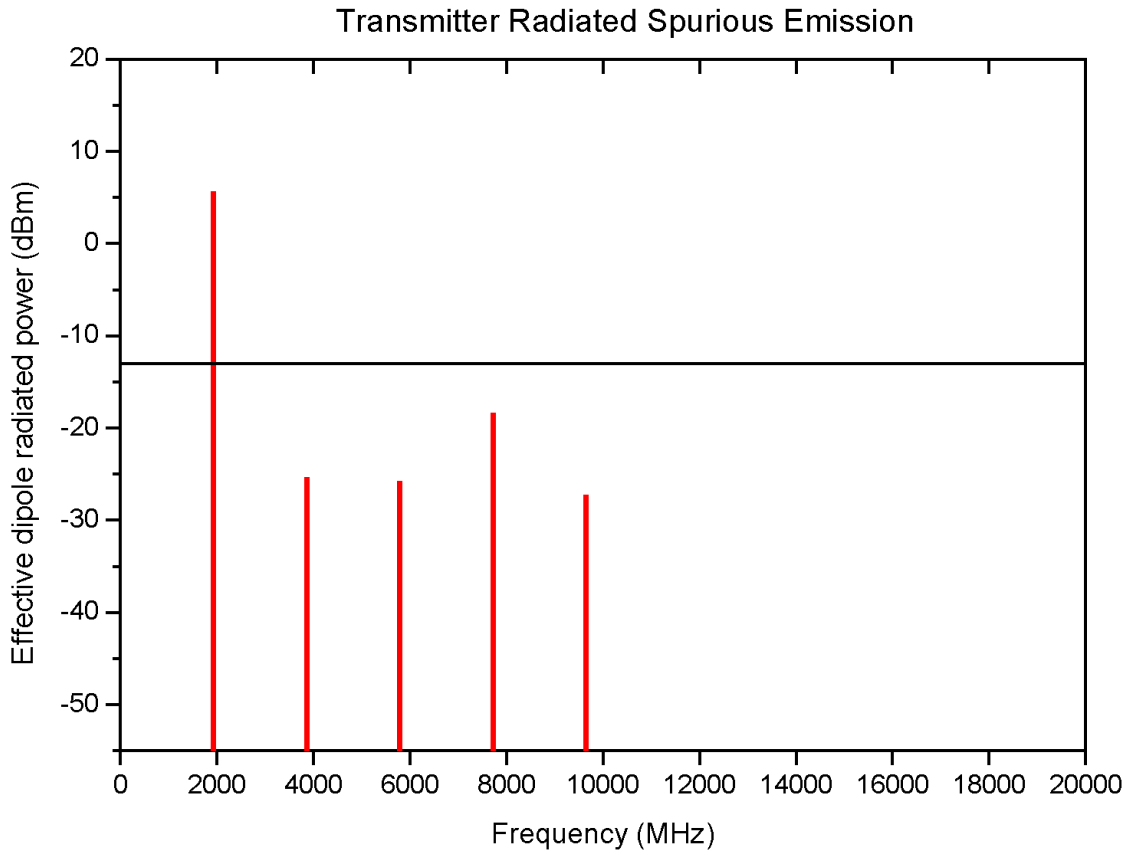
FCC ID NO.  
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RADIATED SPURIOUS EMISSIONS MACRO DIGITAL MODE

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Radiated Spurious Emission  
Measured Per TIA/IS-136/IS-138



Rated Power Output = 28 Watt  
Channel 2 / Carrier frequency = 1930.08 MHz  
Modulated with 48.6 kbs PSEUDORANDOM DATA

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Ericsson Radio System AB

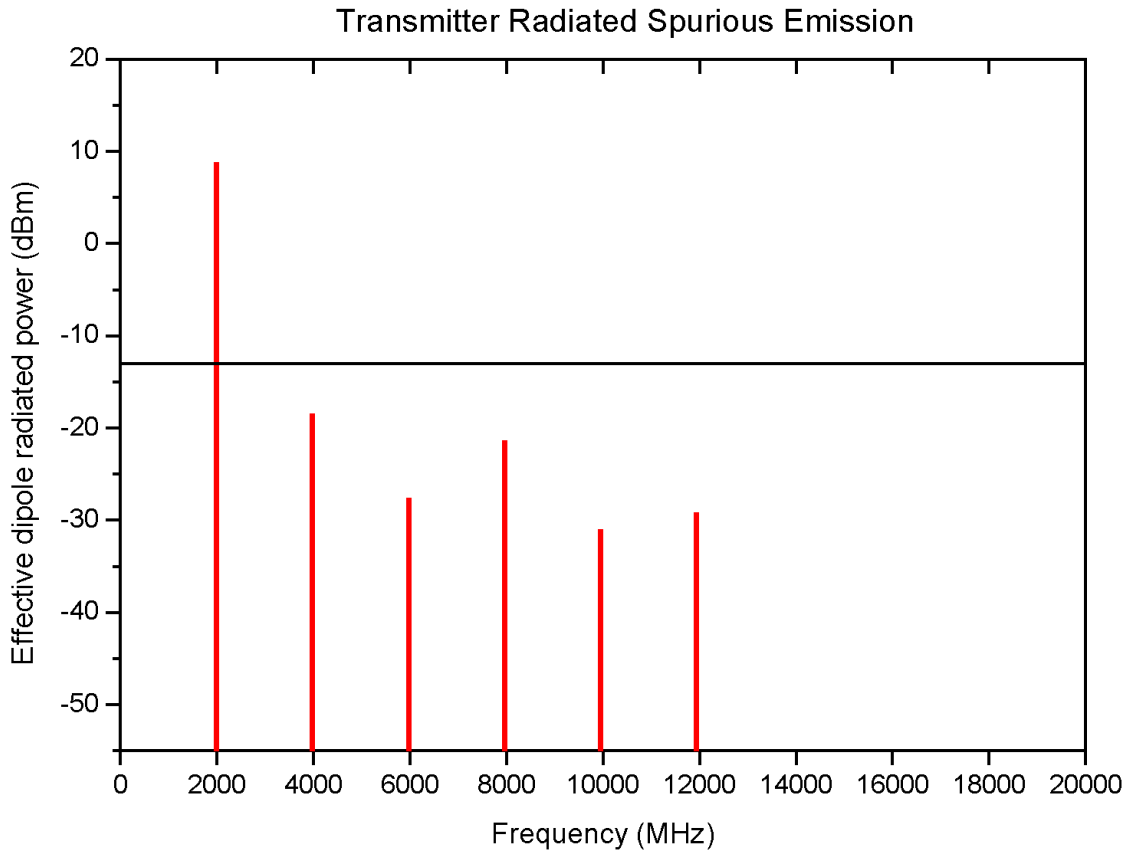
FCC ID NO.  
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RADIATED SPURIOUS EMISSIONS MACRO DIGITAL MODE

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Radiated Spurious Emission  
Measured Per TIA/IS-136/IS-138



Rated Power Output = 28 Watt  
Channel 1998 / Carrier frequency = 1989.96 MHz  
Modulated with 48.6 kbs PSEUDORANDOM DATA

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FREQUENCY STABILITY MACRO WITH CRI

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2.1055 (a,b,d) Output Frequency

Variation of output frequency as a result of either temperature or voltage variation is reported in the graphs on the following pages. The measurements were made per TIA/IS-136/IS-138.

Equipment used:

Rohde & Schwarz ESI 40, EMI Test Receiver  
Including:  
Spectrum Analyzer, 20 Hz-40 GHz  
EMI Receiver, 20 Hz-40 GHz  
Option FSE-B7 Signal Vector Analysis

SATT Stand Alone Test Tool

MB Teknik Walk-in temperature chamber with  
Internal calibrated temperature control.

The R&S ESI 40 was hooked up to a external  
10 MHz reference standard during the  
measurements.

The SATT (Stand Alone Test Tool) was hooked  
up to a 10 MHz reference standard from a  
HP89441 Vector Signal Analyzer during the  
measurements.

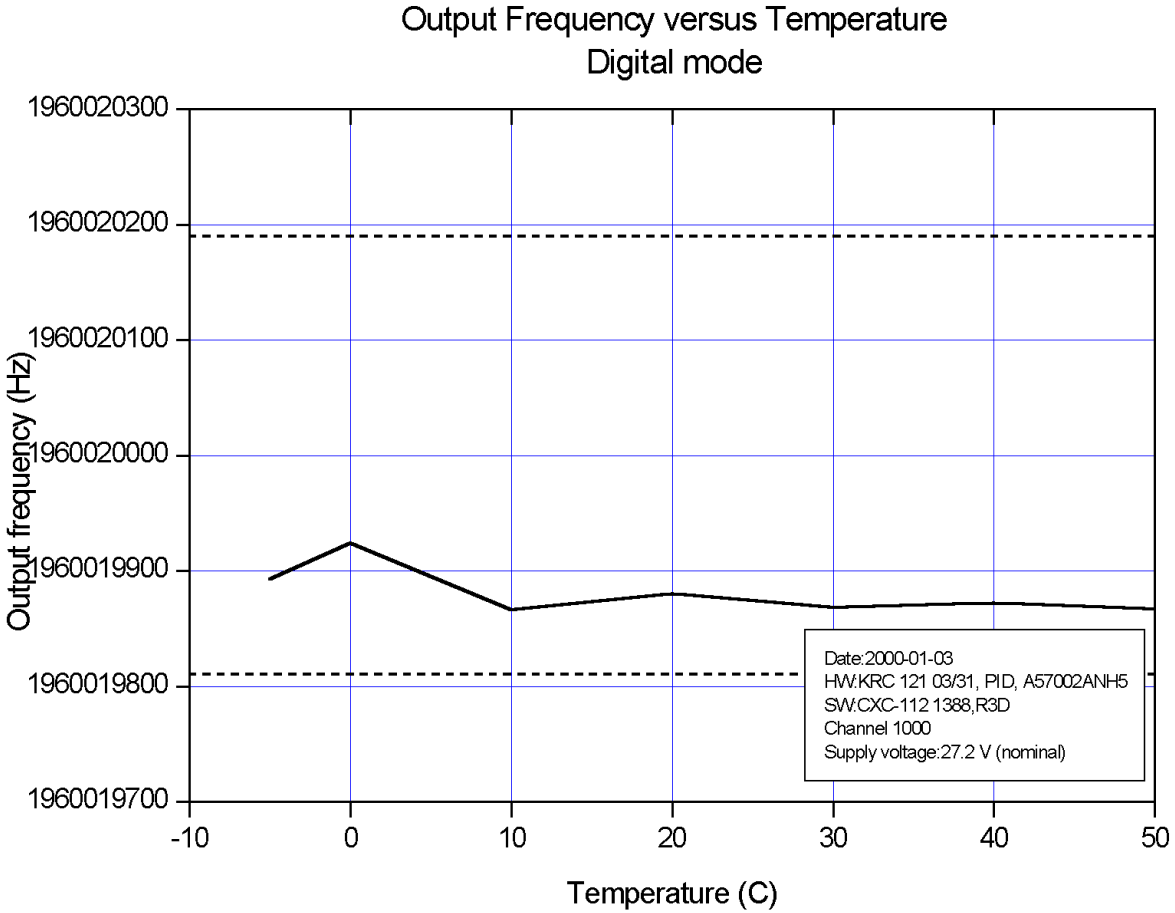


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FREQUENCY STABILITY MACRO WITH CRI

2.1055 (a,b,d) Output Frequency versus Temperature



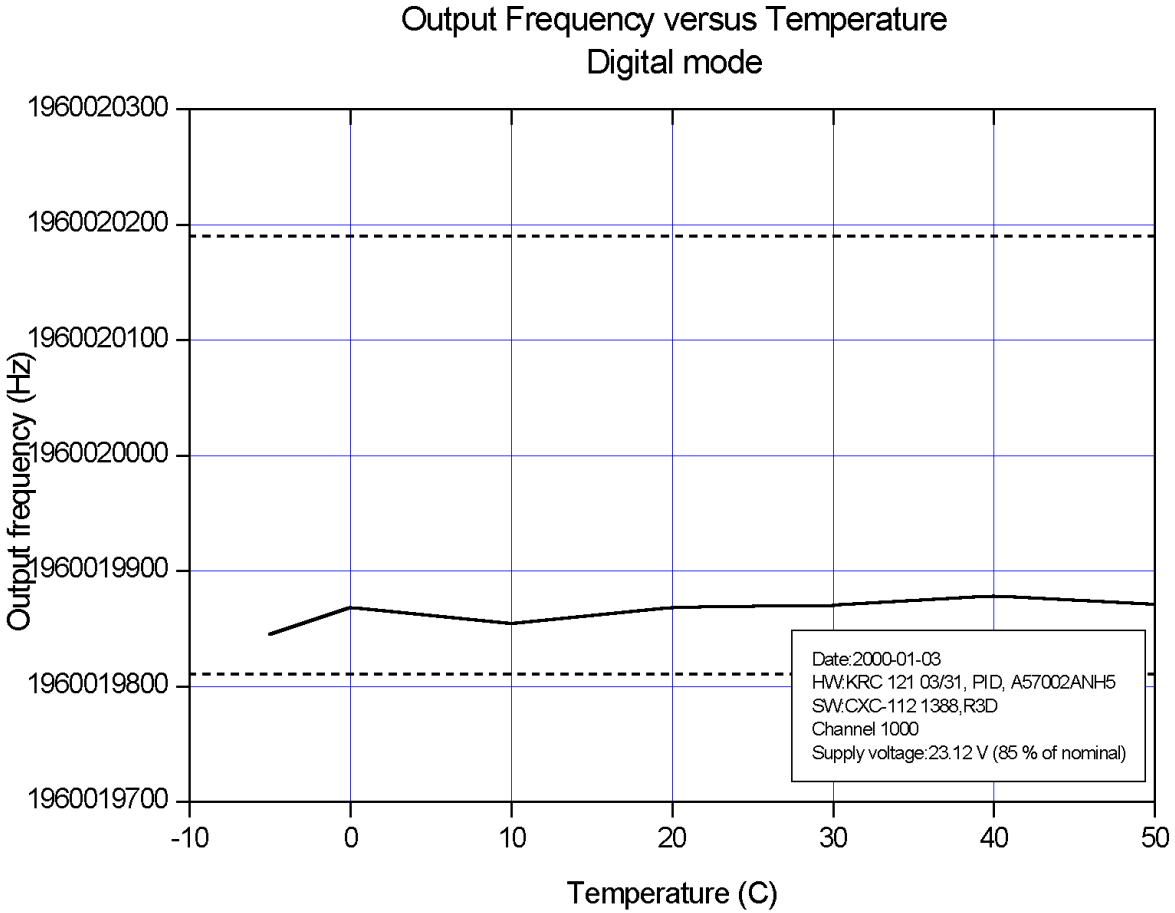
Channel 1000 Output Power 44.5 dBm  
Supply Voltage: 27.2 V (nominal)

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FREQUENCY STABILITY MACRO WITH CRI

2.1055 (a,b,d) Output Frequency versus Temperature



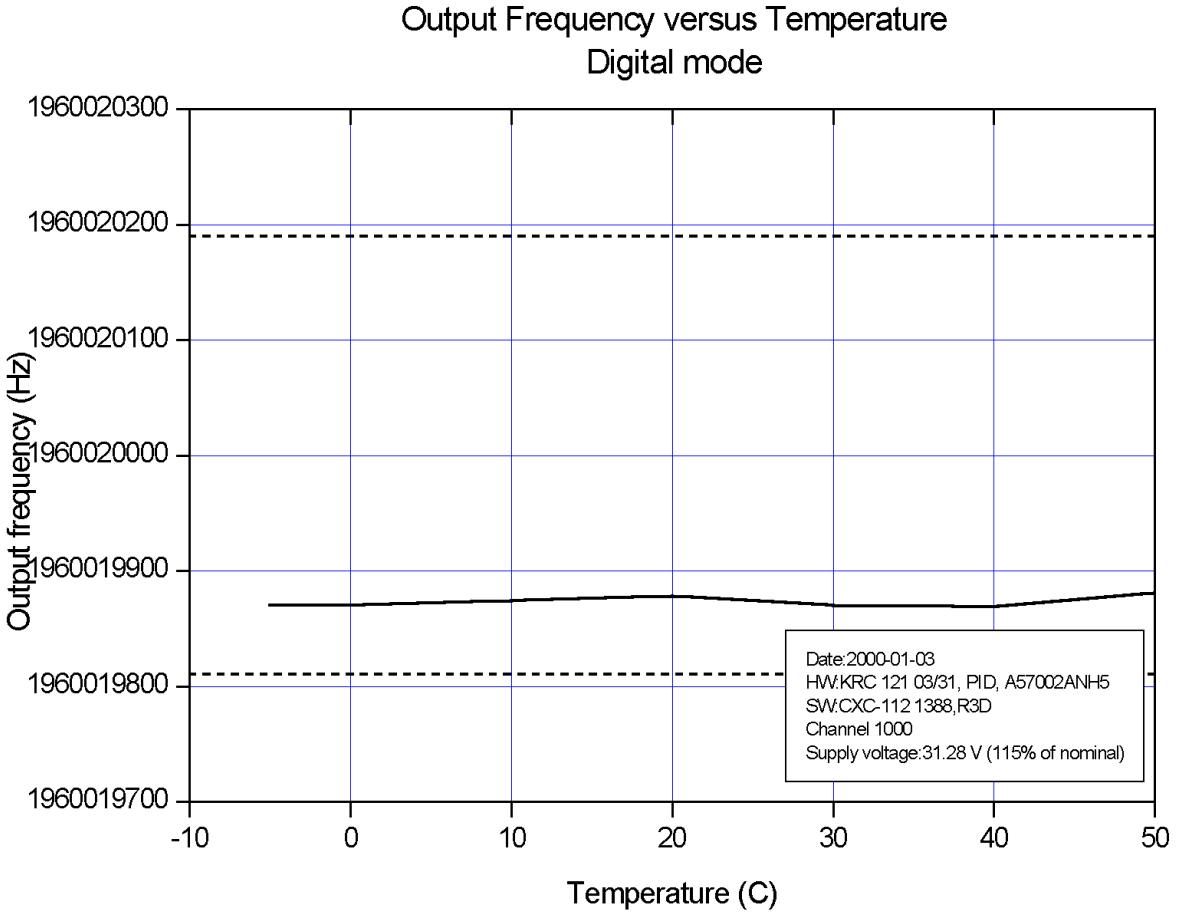
Channel 1000 Output Power 44.5 dBm  
Supply Voltage: 23.12 V (85% of nominal)

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FREQUENCY STABILITY MACRO WITH CRI

2.1055 (a,b,d) Output Frequency versus Temperature



Channel 1000 Output Power 44.5 dBm  
Supply Voltage: 31.28 V (115% of nominal)