

APPLICANT:
Ericsson Radio Systems AB

FCC ID NO.
B5KKRC13149-15

EXHIBIT 6 - COVER SHEET

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RF POWER OUTPUT DIGITAL MODE

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 J-STD-007A Vol 1 using the following Equipment.

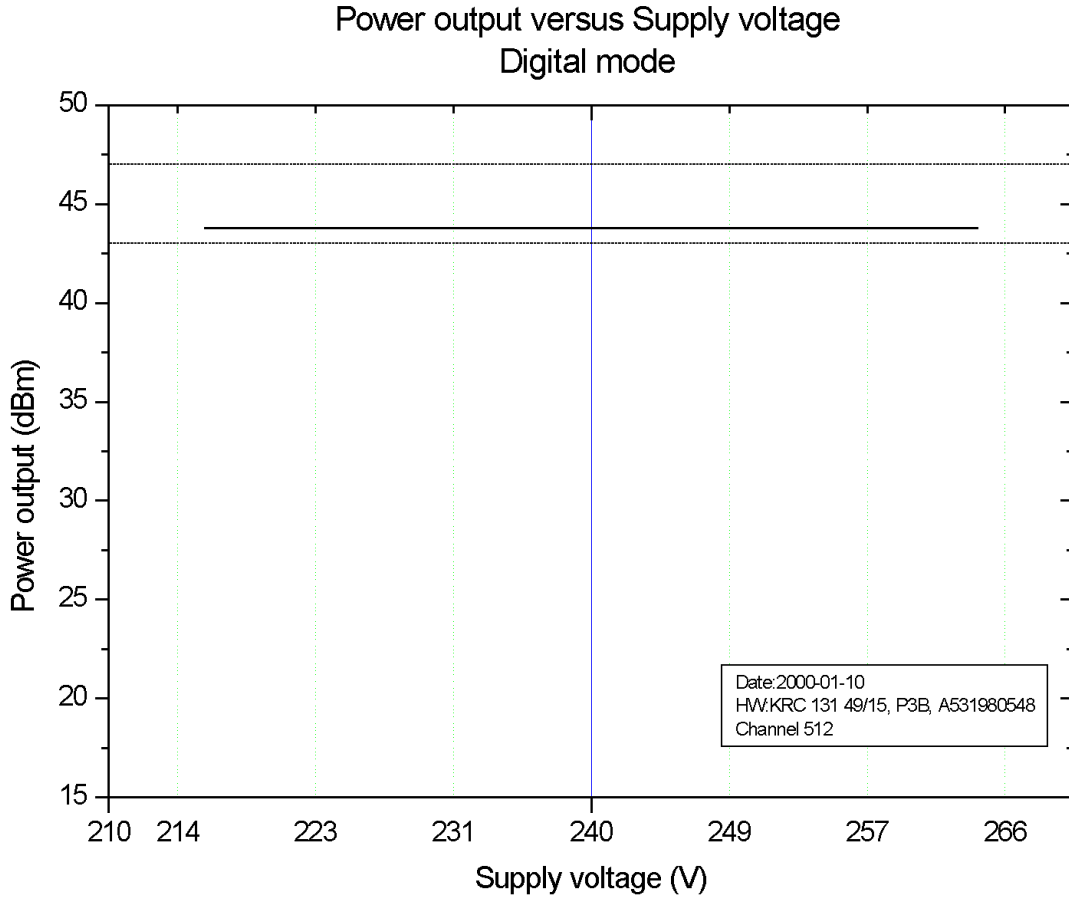
Radio frequency 50 ohm load attached to the output. The power was measured on a BONTON RF Peak power meter/analyzer.

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RF POWER OUTPUT DIGITAL MODE

2.1046 (a) RF Power Output



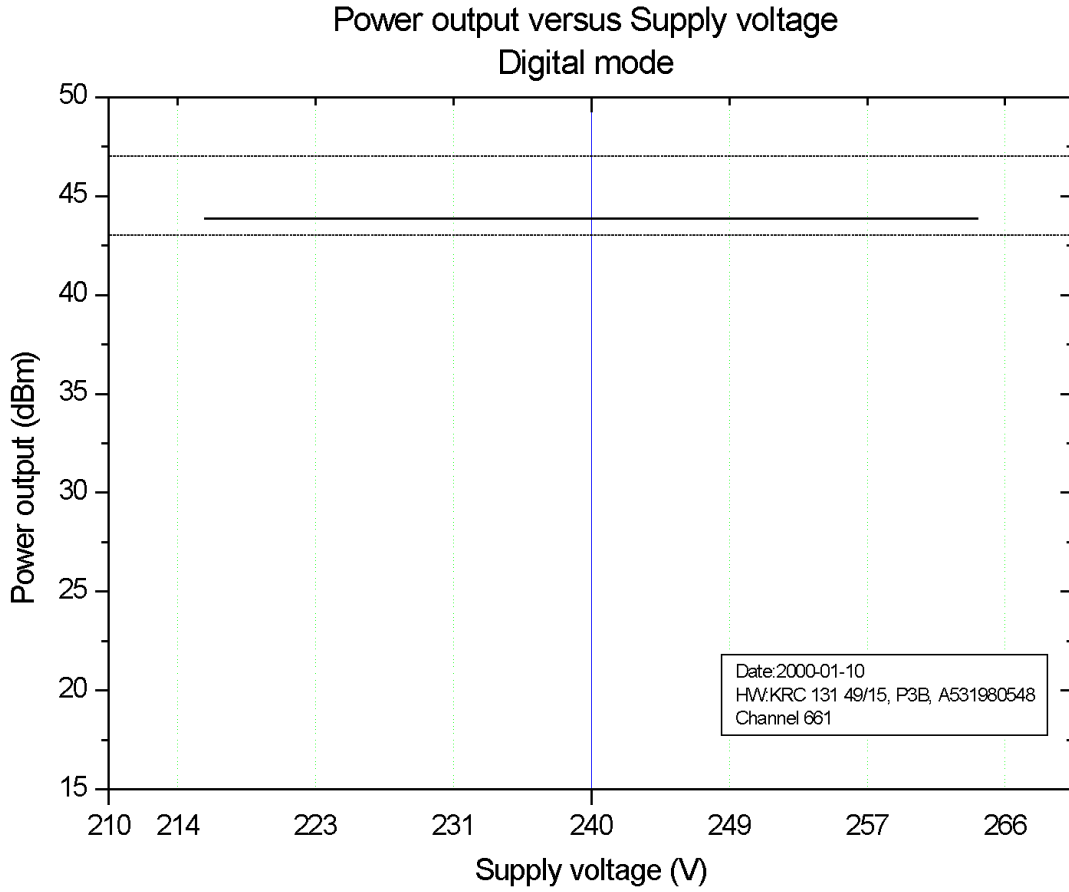
Channel 512 Output Power 44.9 dBm

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RF POWER OUTPUT DIGITAL MODE

2.1046 (a) RF Power Output



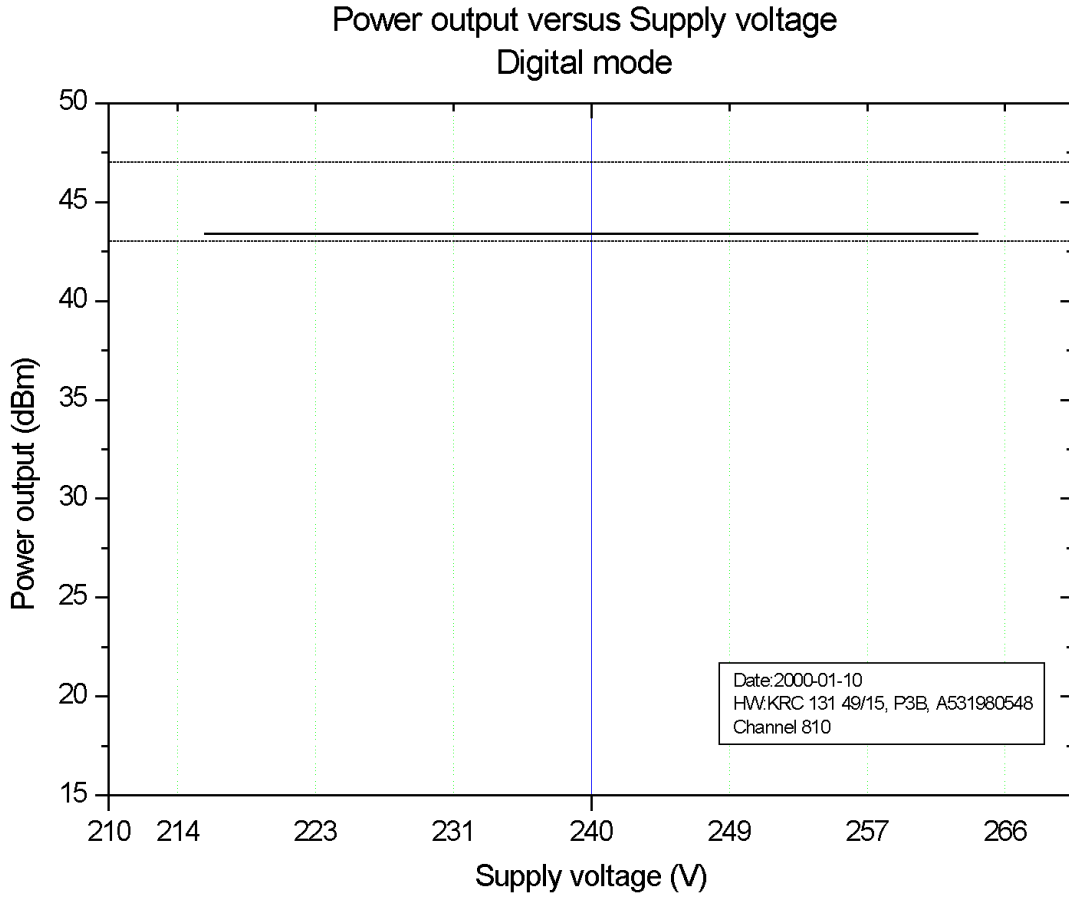
Channel 661 Output Power 44.9 dBm

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RF POWER OUTPUT DIGITAL MODE

2.1046 (a) RF Power Output



Channel 810

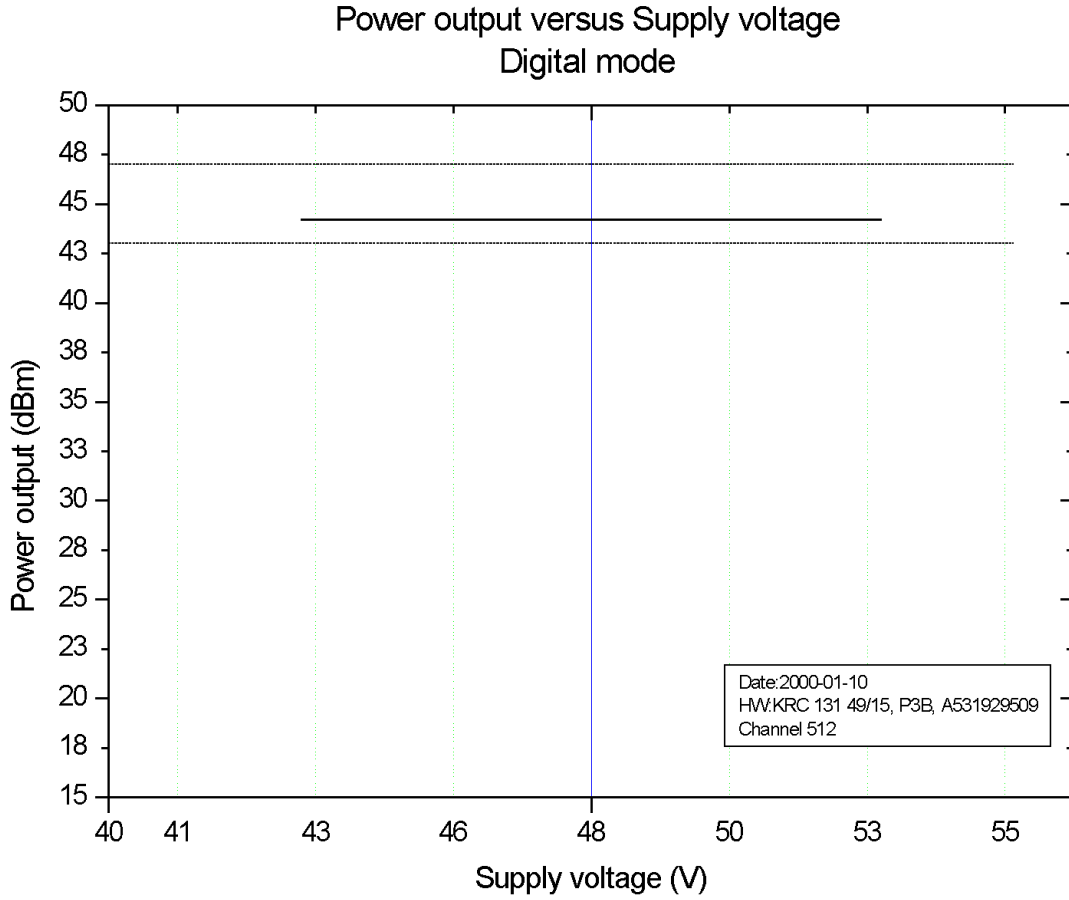
Output Power 44.9 dBm

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RF POWER OUTPUT DIGITAL MODE

2.1046 (a) RF Power Output



Channel 512

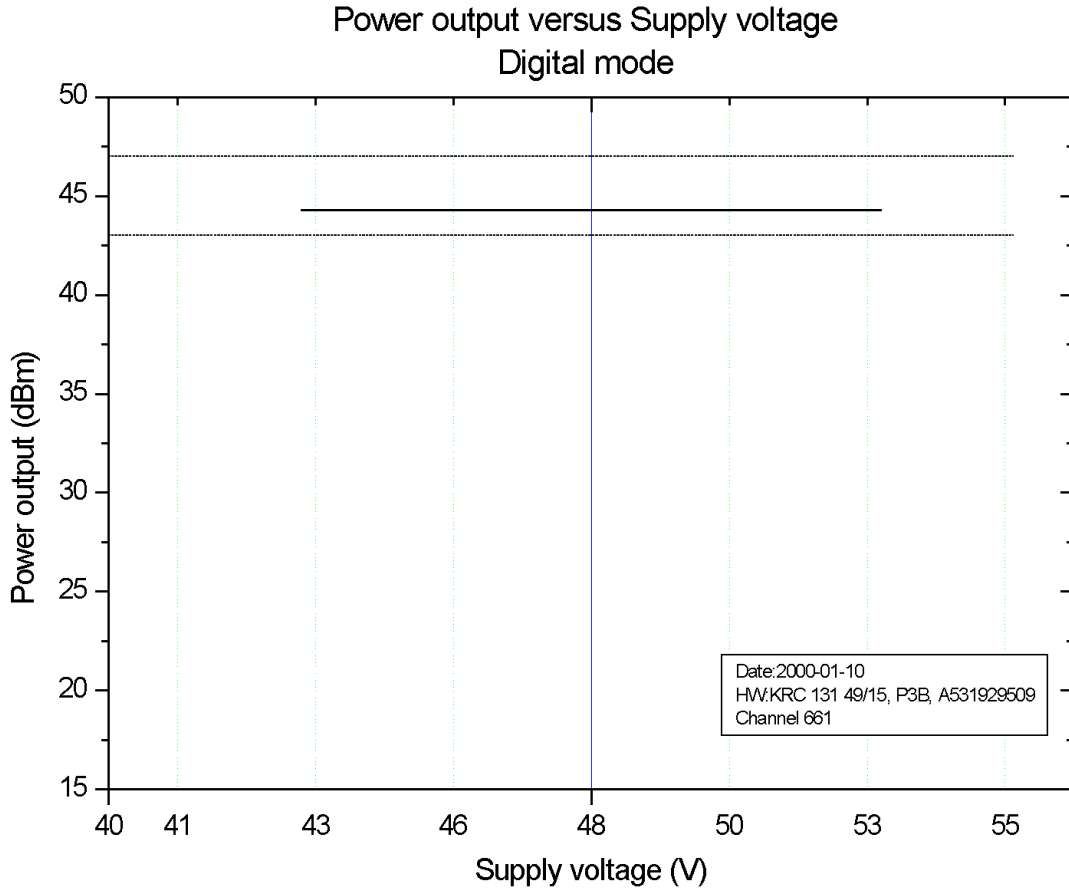
Output Power 44.9 dBm

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RF POWER OUTPUT DIGITAL MODE

2.1046 (a) RF Power Output



Channel 661

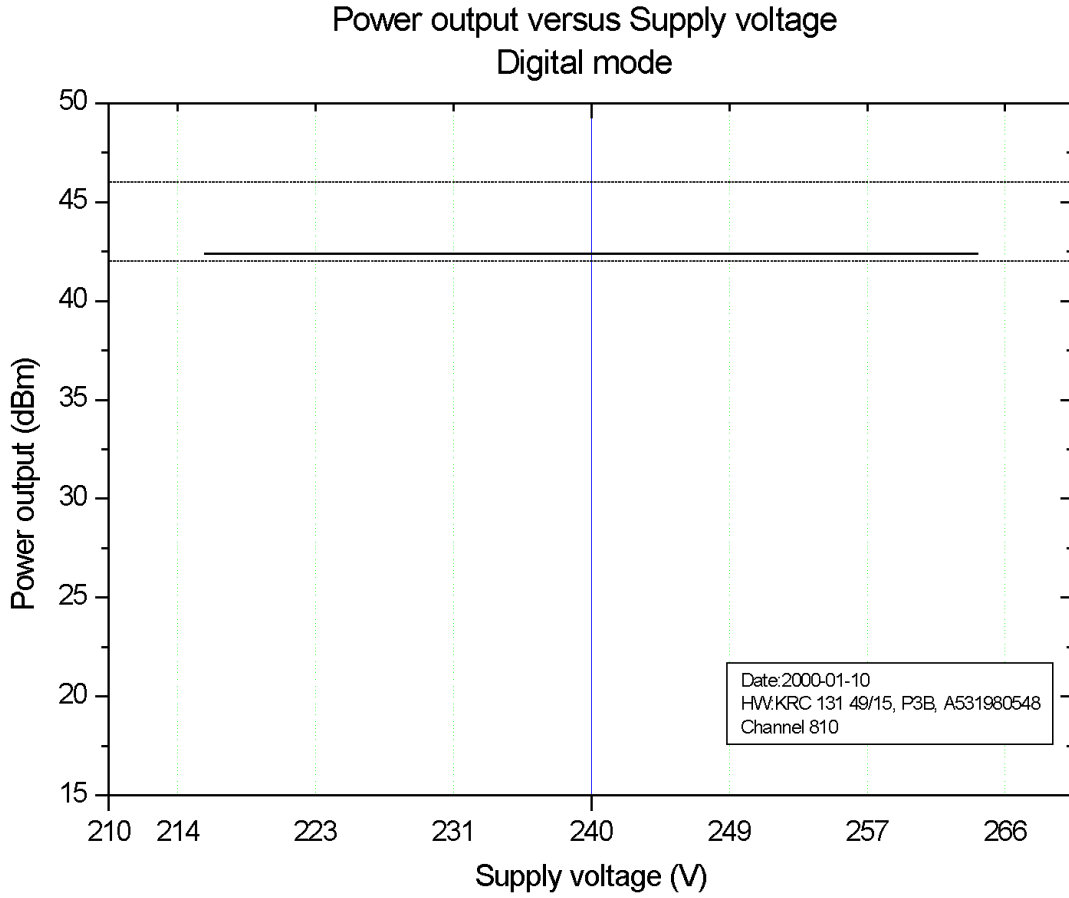
Output Power 44.9 dBm

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RF POWER OUTPUT DIGITAL MODE

2.1046 (a) RF Power Output



Channel 810

Output Power 44.9 dBm

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MODULATION CHARACTERISTICS DIGITAL MODE

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 phase error according to J-STD-007A Vol 1.

Chan.	Freq. (MHz)	Output Power (Watts)	Phase error rms (degrees)	Phase error peak (degrees)
512	1930.2	31	2.24	6.71
661	1960.0	31	2.49	6.96
810	1989.8	31	2.32	8.76

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.

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OCCUPIED BANDWIDTH

2.1049 (c,1)(g) Occupied Bandwidth

Equipment used:

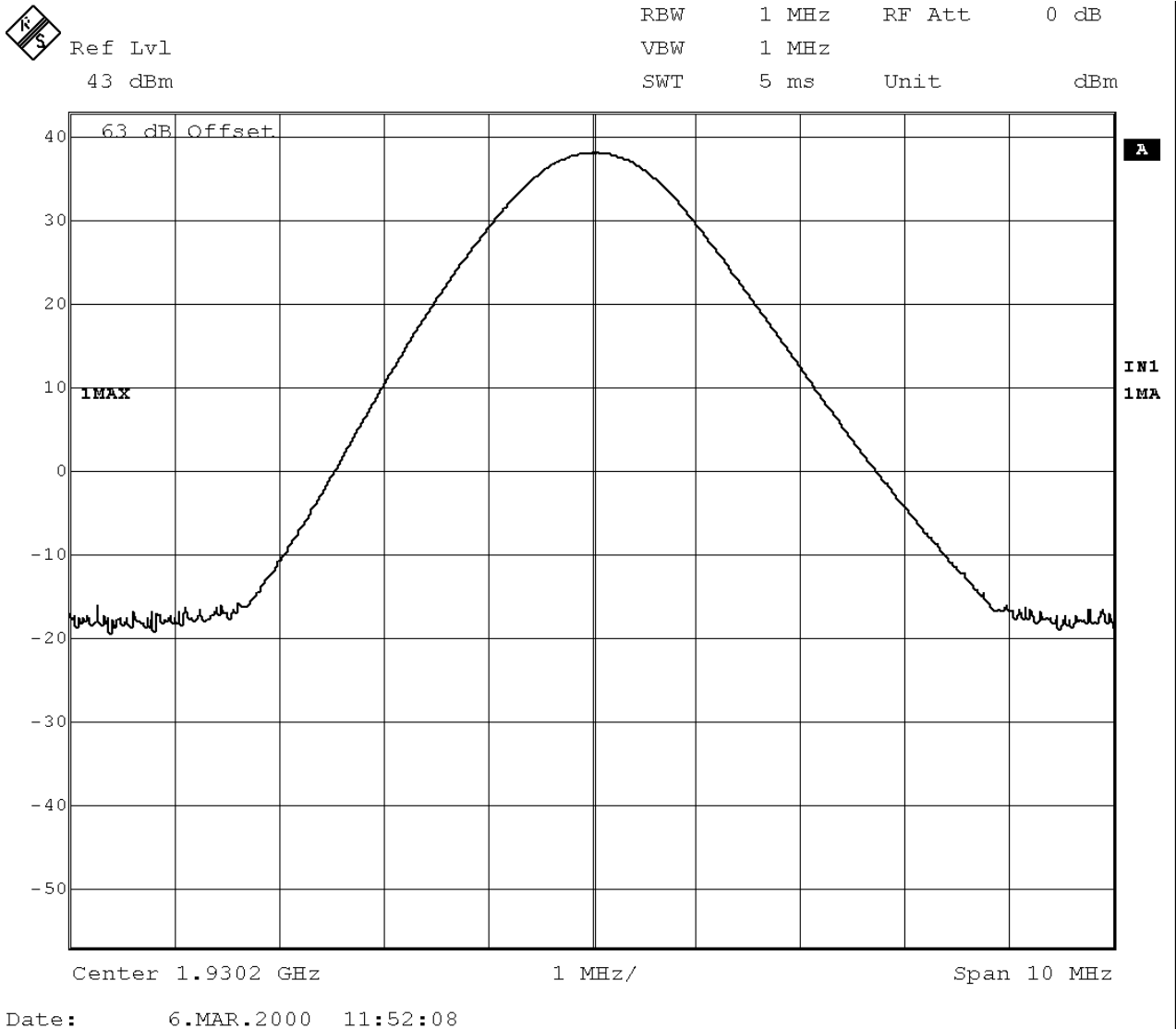
Rohde & Schwarz ESI 40, EMI Test Receiver
Including:
Spectrum Analyzer, 20 Hz-40 GHz
EMI Receiver, 20 Hz-40 GHz
Option FSE-B7 Signal Vector Analysis

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OCCUPIED BANDWIDTH REFERENCE LEVEL

Modulation Sideband Spectrum



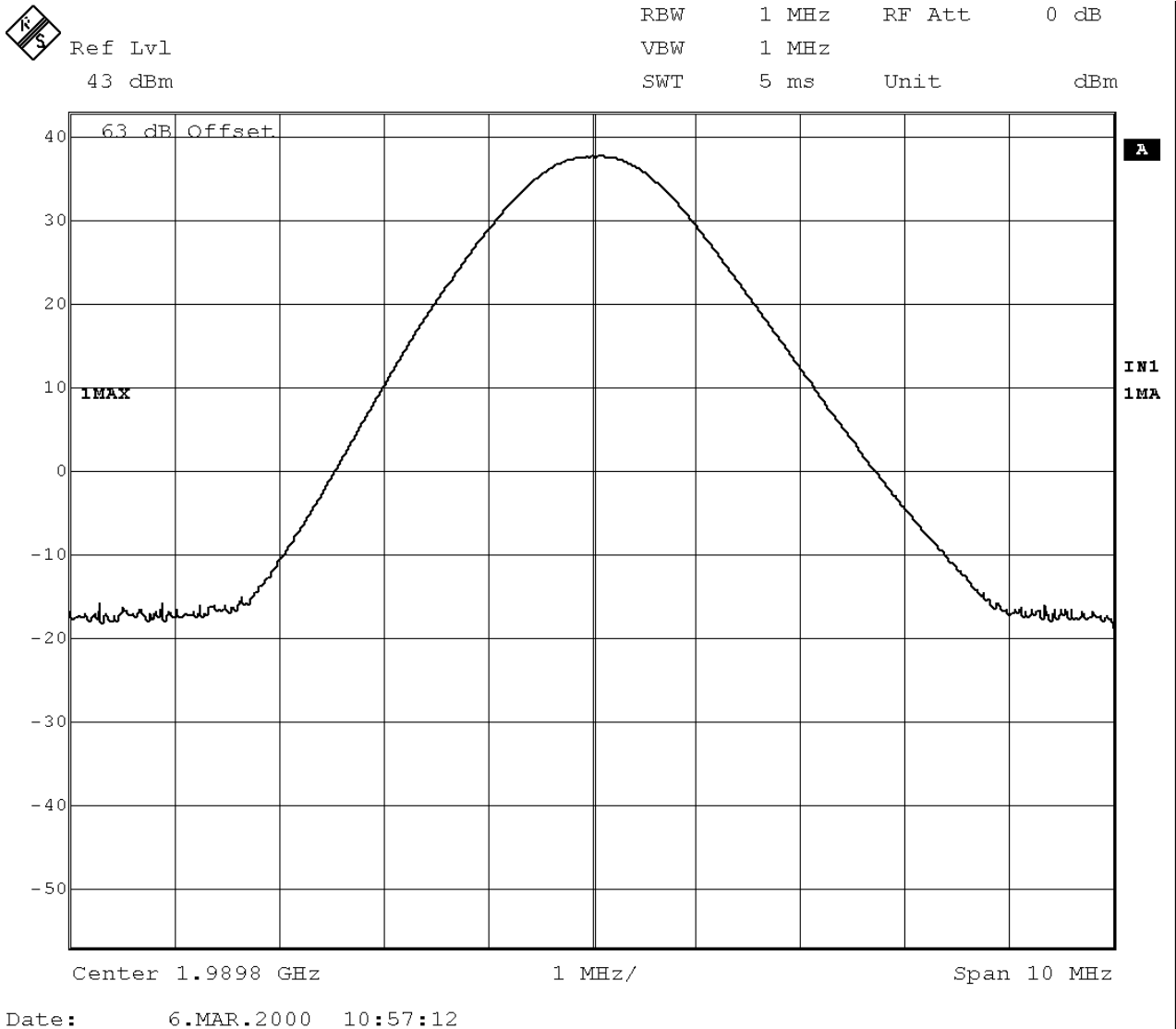
Channel 512 / Carrier frequency = 1930.2 MHz
Modulated with 270.8 kbs PSEUDORANDOM DATA

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OCCUPIED BANDWIDTH REFERENCE LEVEL

Modulation Sideband Spectrum



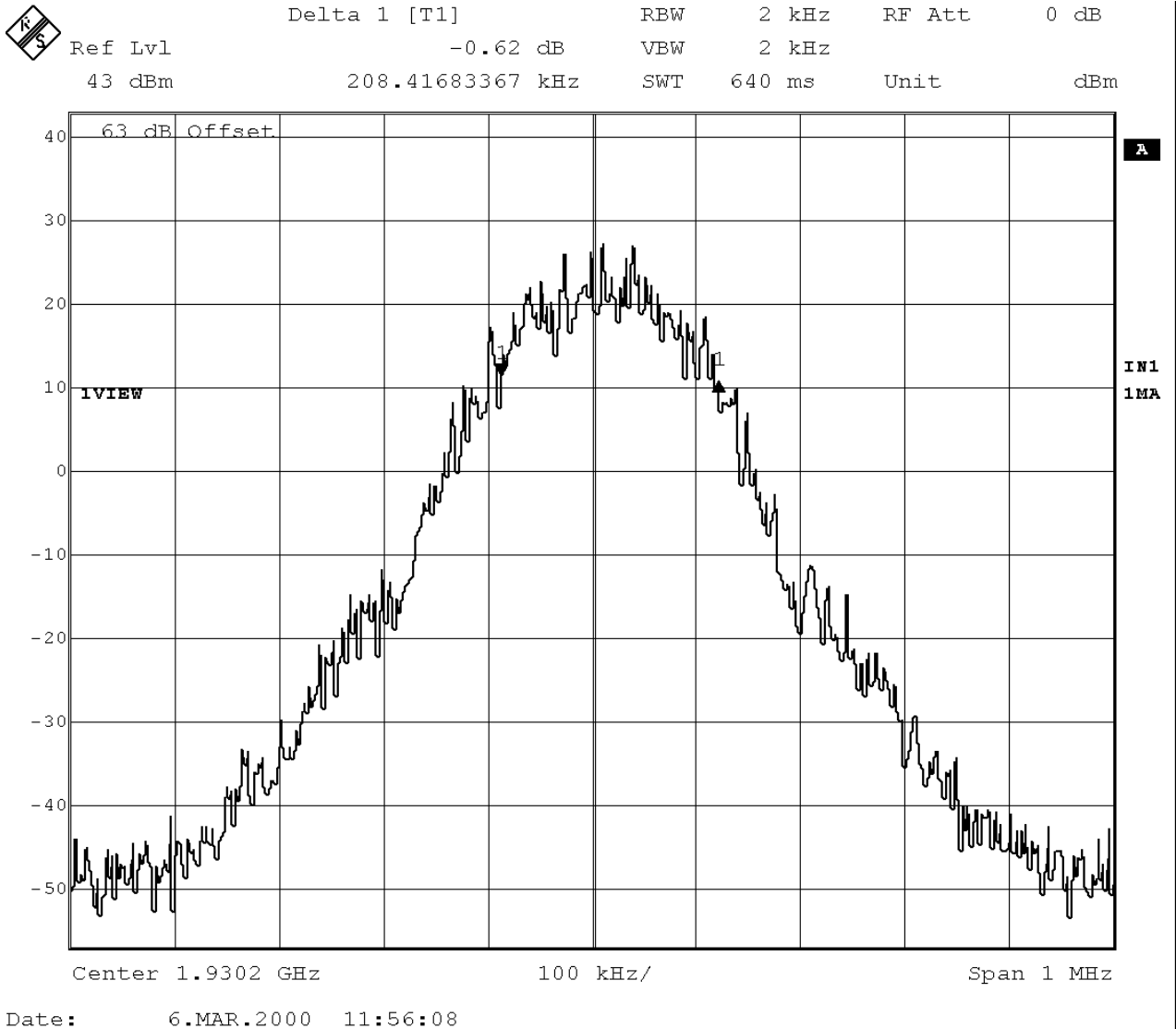
Channel 810 / Carrier frequency = 1989.8 MHz
Modulated with 270.8 kbs PSEUDORANDOM DATA

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OCCUPIED BANDWIDTH 26 dB POINTS

Modulation Sideband Spectrum



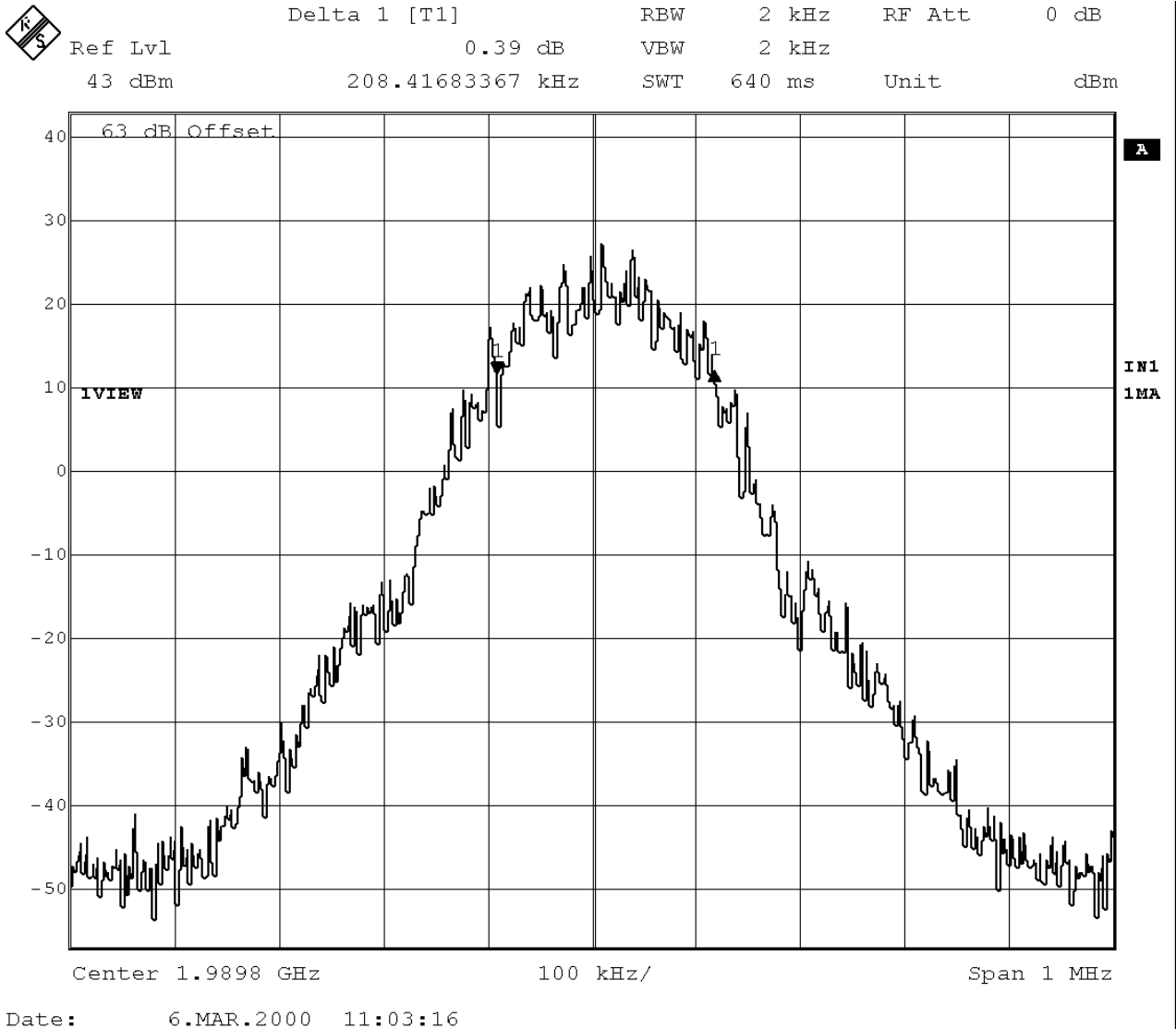
Channel 512 / Carrier frequency = 1930.2 MHz
Modulated with 270.8 kbs PSEUDORANDOM DATA

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FCC ID NO.
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OCCUPIED BANDWIDTH 26 dB POINTS

Modulation Sideband Spectrum



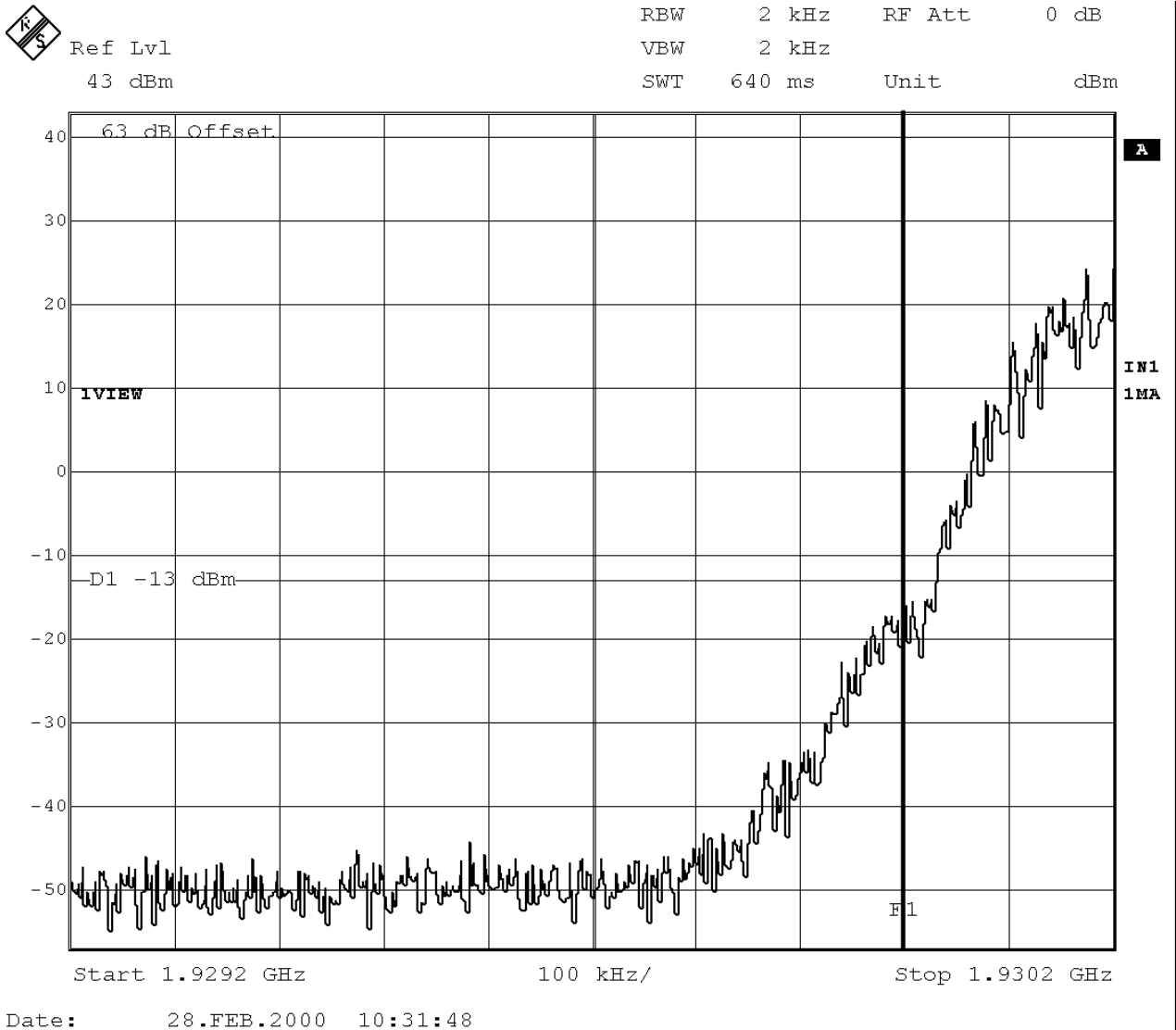
Channel 810 / Carrier frequency = 1989.8 MHz
Modulated with 270.8 kbs PSEUDORANDOM DATA

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OCCUPIED BANDWIDTH BAND EDGES

Modulation Sideband Spectrum



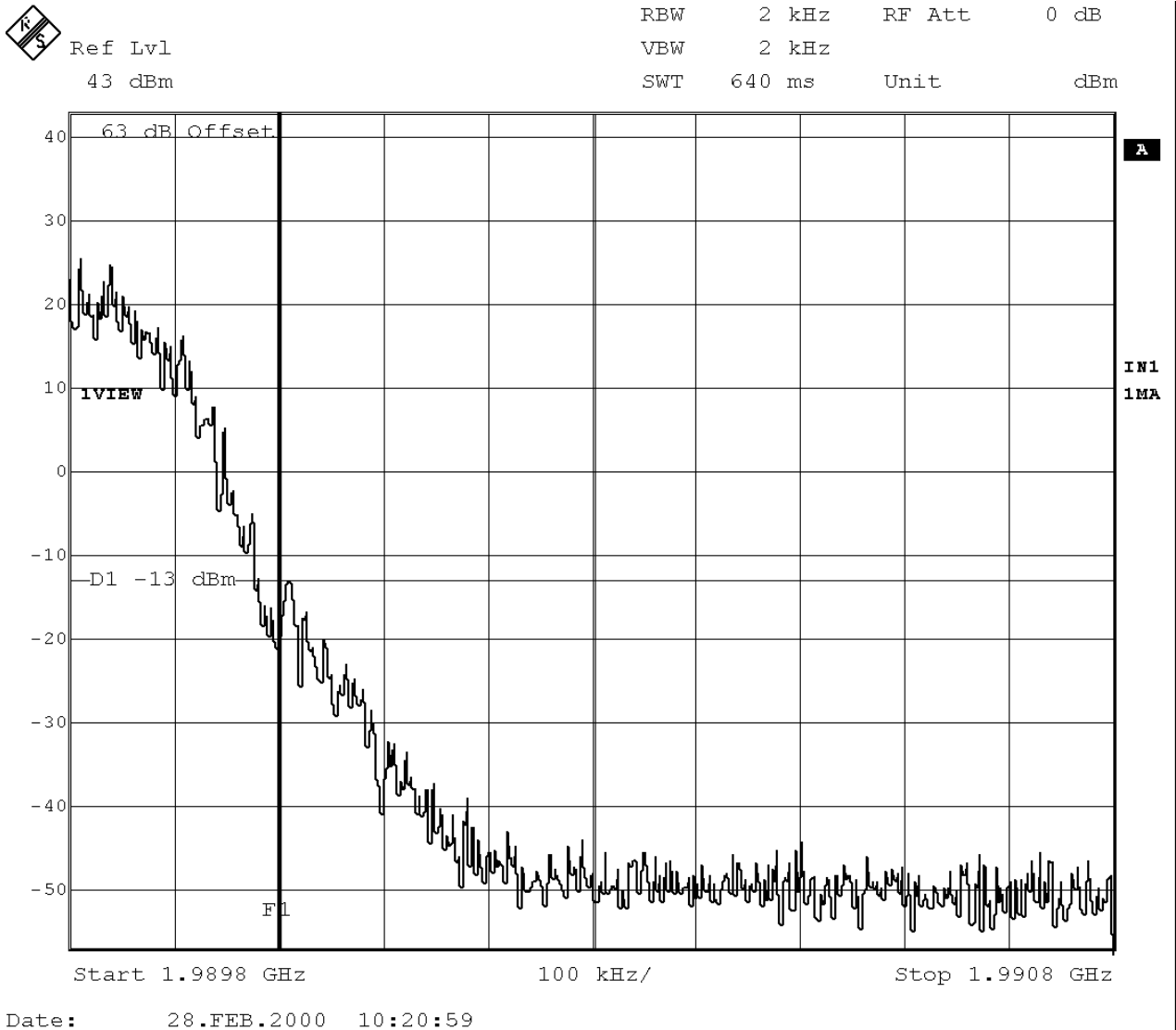
Channel 512 / Carrier frequency = 1930.2 MHz
Power level 44.9 dBm
Modulated with 270.8 kbs PSEUDORANDOM DATA

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OCCUPIED BANDWIDTH BAND EDGES

Modulation Sideband Spectrum



Channel 810 / Carrier frequency = 1989.8 MHz
Power level 44.9 dBm
Modulated with 270.8 kbs PSEUDORANDOM DATA

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CONDUCTED SPURIOUS EMISSIONS

2.1051

Conducted Spurious Emissions

Spurious emissions at the antenna terminal (conducted) when properly loaded with an appropriate artificial antenna were measured.

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

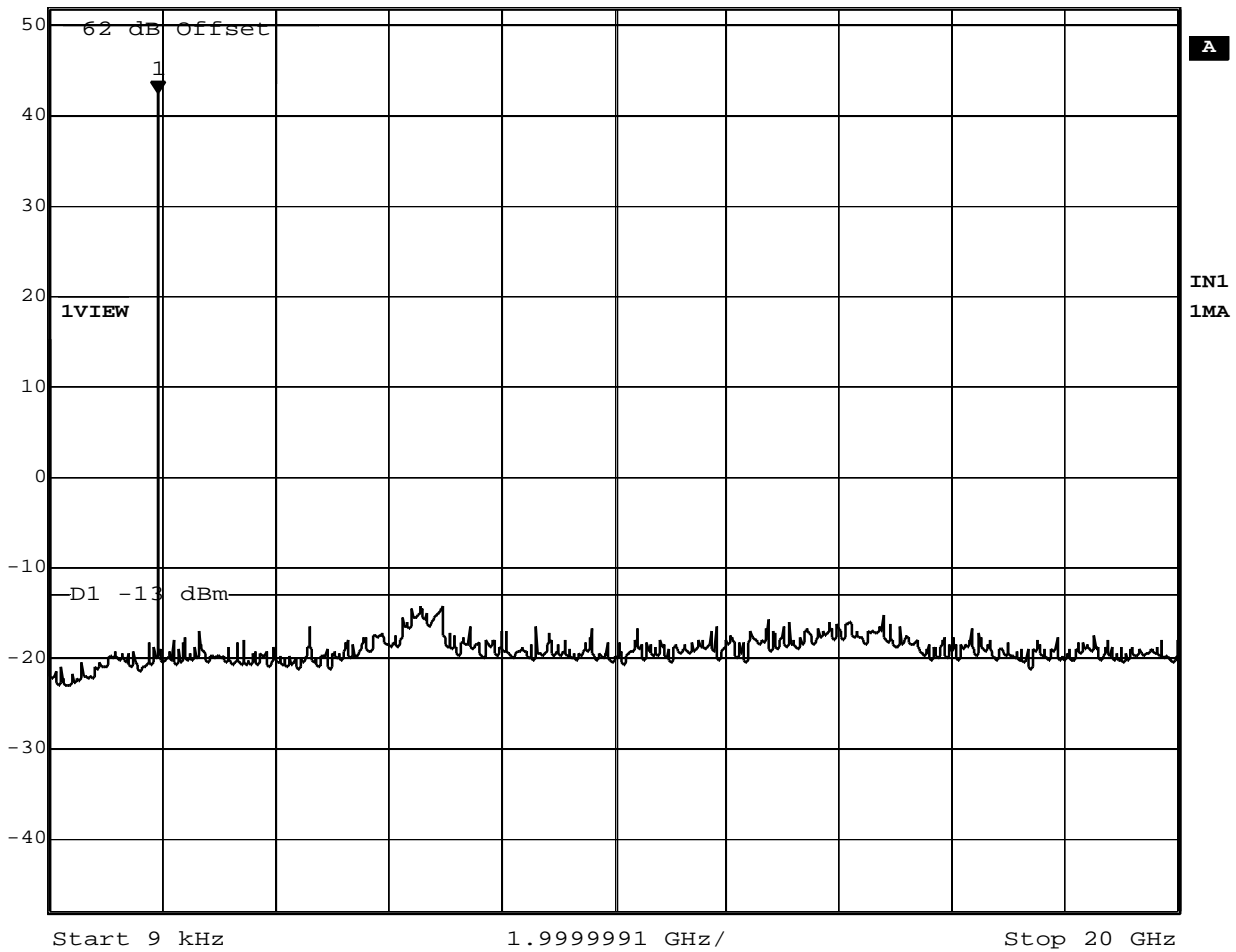
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CONDUCTED SPURIOUS EMISSIONS DIGITAL MODE

Conducted Spurious Emission

 Marker 1 [T1] RBW 1 MHz RF Att 0 dB
Ref Lvl 42.35 dBm VBW 1 MHz
52 dBm 1.92385583 GHz SWT 115 ms Unit dBm



Date: 20.DEC.1999 16:12:32


Rated Power Output = 31 Watt
Channel 512 / Carrier frequency = 1930.2 MHz

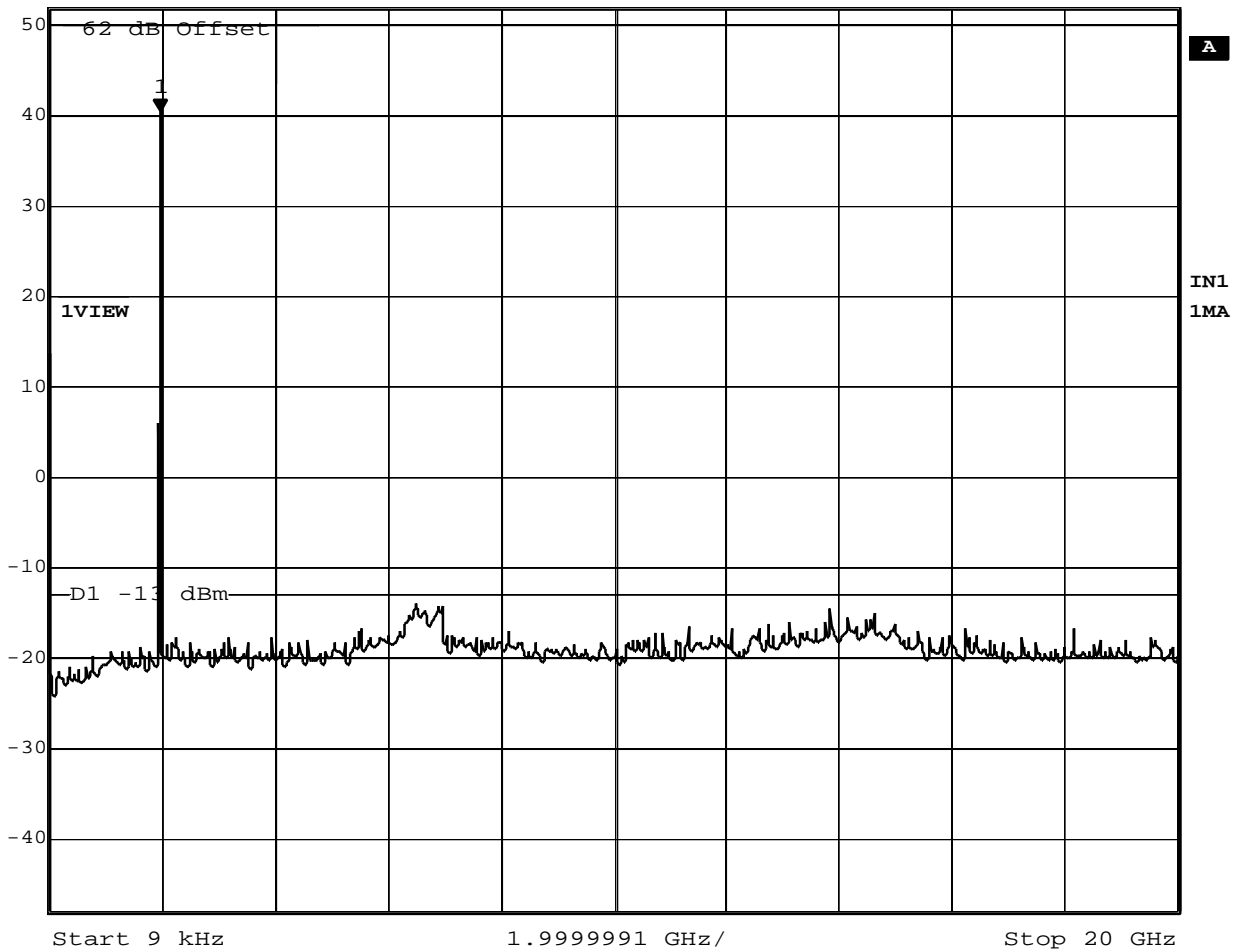
APPLICANT:
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CONDUCTED SPURIOUS EMISSIONS DIGITAL MODE

Conducted Spurious Emission

 Marker 1 [T1] RBW 1 MHz RF Att 0 dB
Ref Lvl 40.30 dBm VBW 1 MHz
52 dBm 1.96393597 GHz SWT 115 ms Unit dBm



Date: 20.DEC.1999 16:16:36


Rated Power Output = 31 Watt
Channel 661 / Carrier frequency = 1960.0 MHz

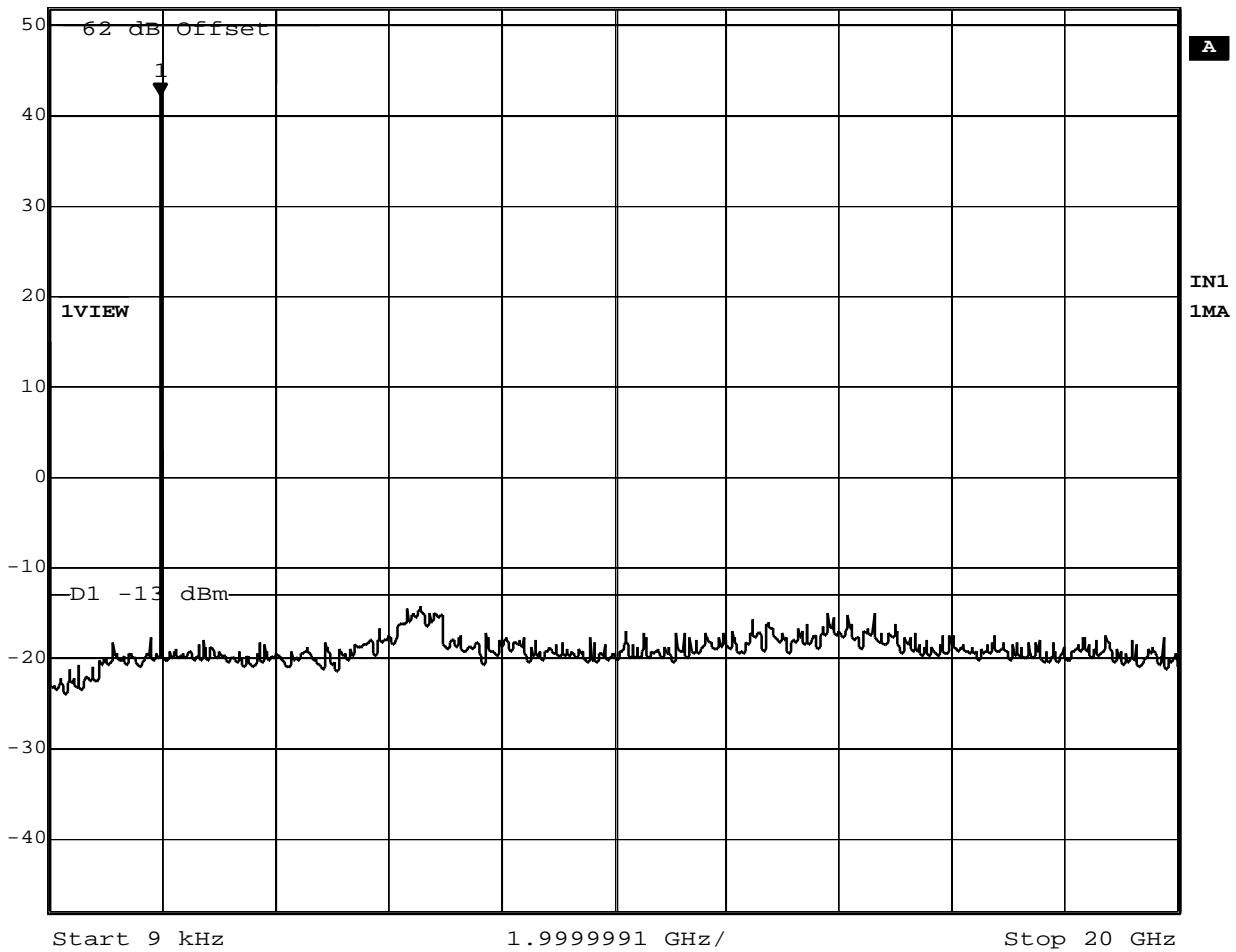
APPLICANT:
Ericsson Radio Systems AB

FCC ID NO.
B5KKRC13149-15

CONDUCTED SPURIOUS EMISSIONS DIGITAL MODE

Conducted Spurious Emission

 Marker 1 [T1] RBW 1 MHz RF Att 0 dB
Ref Lvl 42.14 dBm VBW 1 MHz
52 dBm 1.96393597 GHz SWT 115 ms Unit dBm



Date: 20.DEC.1999 16:21:37

Rated Power Output = 31 Watt
Channel 810 / Carrier frequency = 1989.8 MHz

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RADIATED SPURIOUS EMISSIONS DIGITAL MODE

2.1053

Field Strength of Spurious Radiation

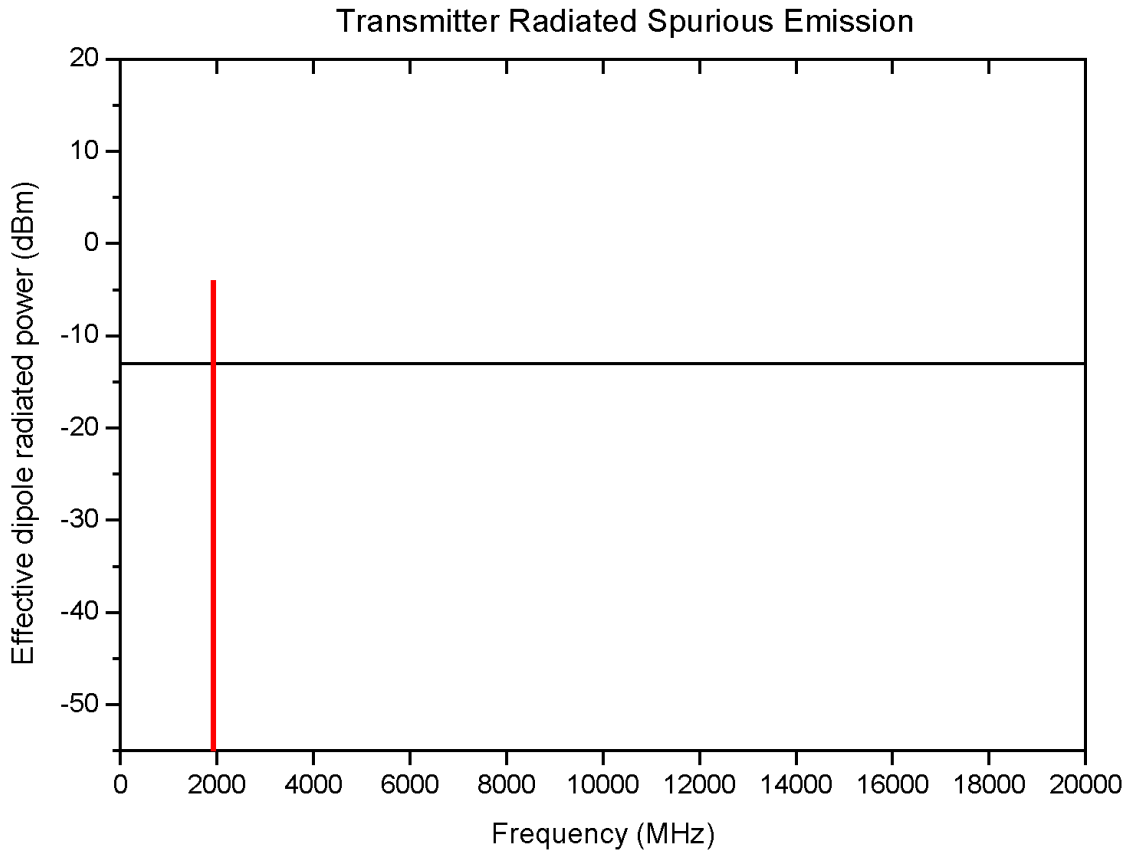
Ref. 2.1053 field strength of spurious emissions was measured on our 3 meter range. The measurement procedure is per ANSI C63.4.

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RADIATED SPURIOUS EMISSIONS 2101 DIGITAL MODE

Radiated Spurious Emission



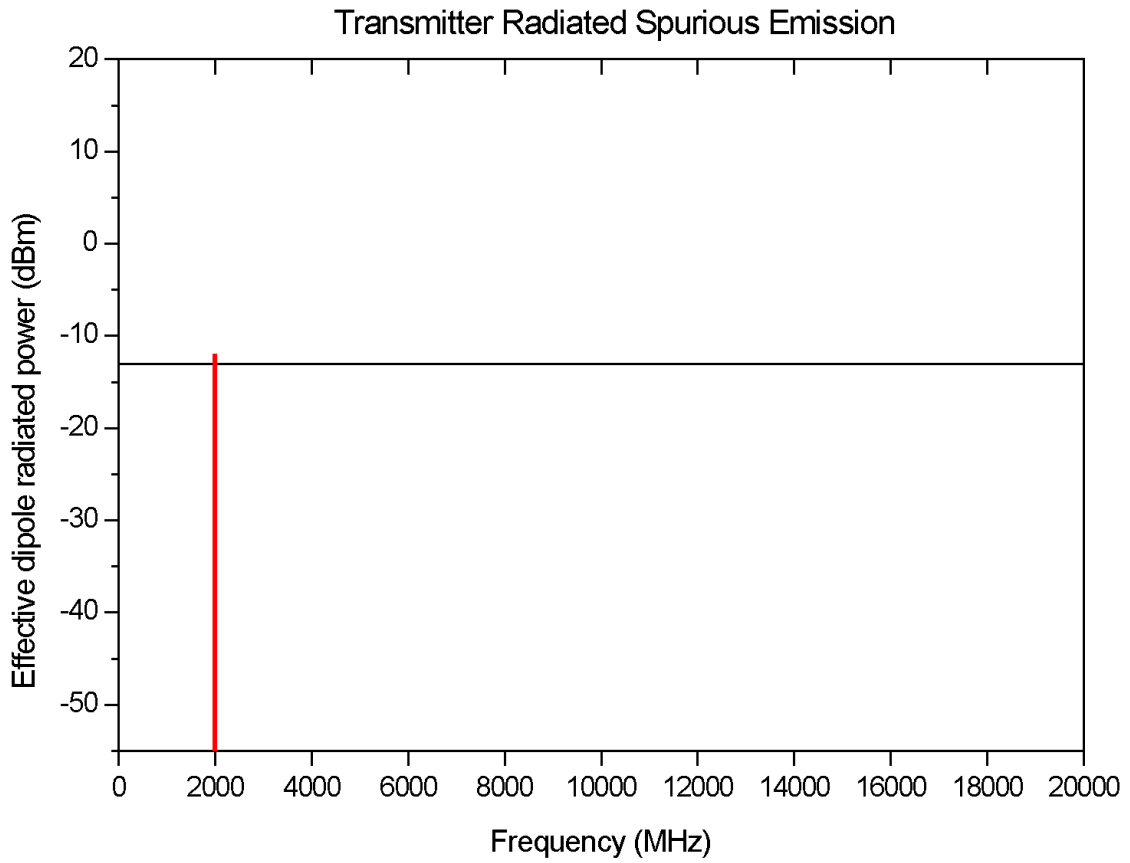
Rated Power Output = 31 Watt
Channel 512 / Carrier frequency = 1930.2 MHz

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RADIATED SPURIOUS EMISSIONS 2101 DIGITAL MODE

Radiated Spurious Emission



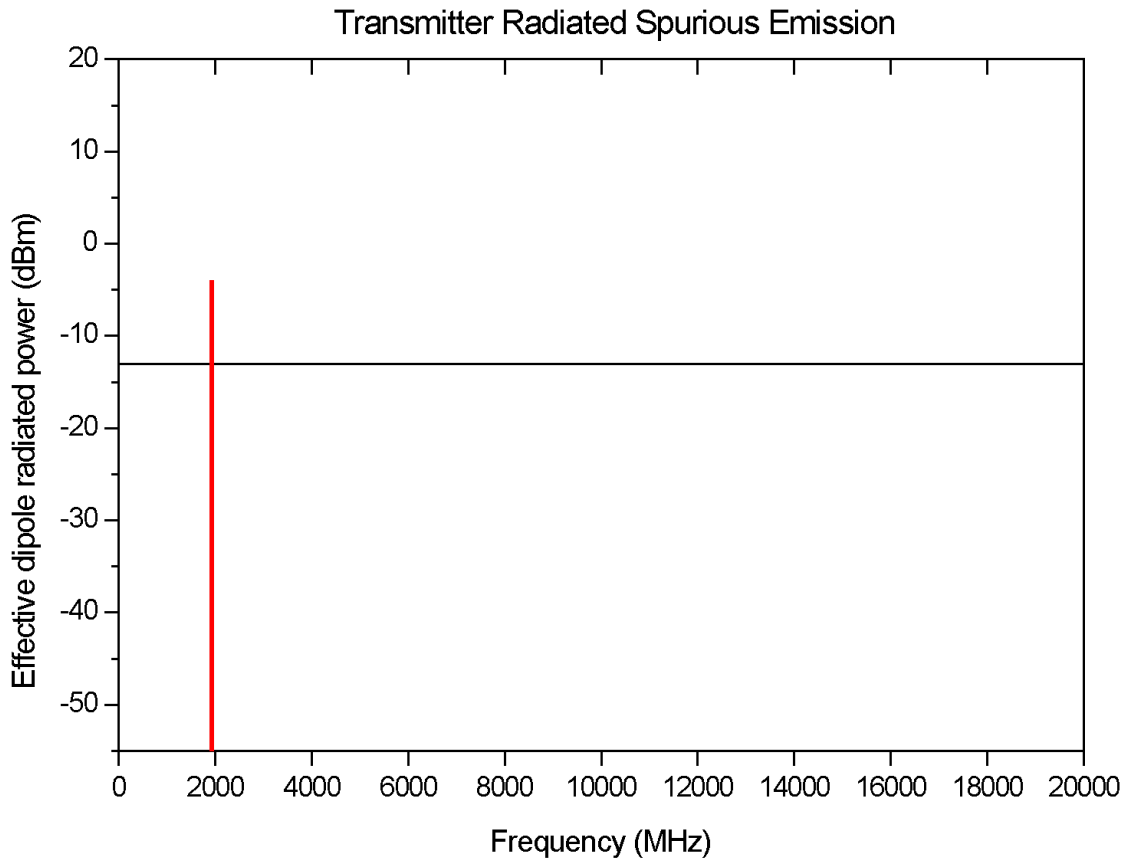
Rated Power Output = 31 Watt
Channel 810 / Carrier frequency = 1989.8 MHz

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RADIATED SPURIOUS EMISSIONS 2102 DIGITAL MODE

Radiated Spurious Emission



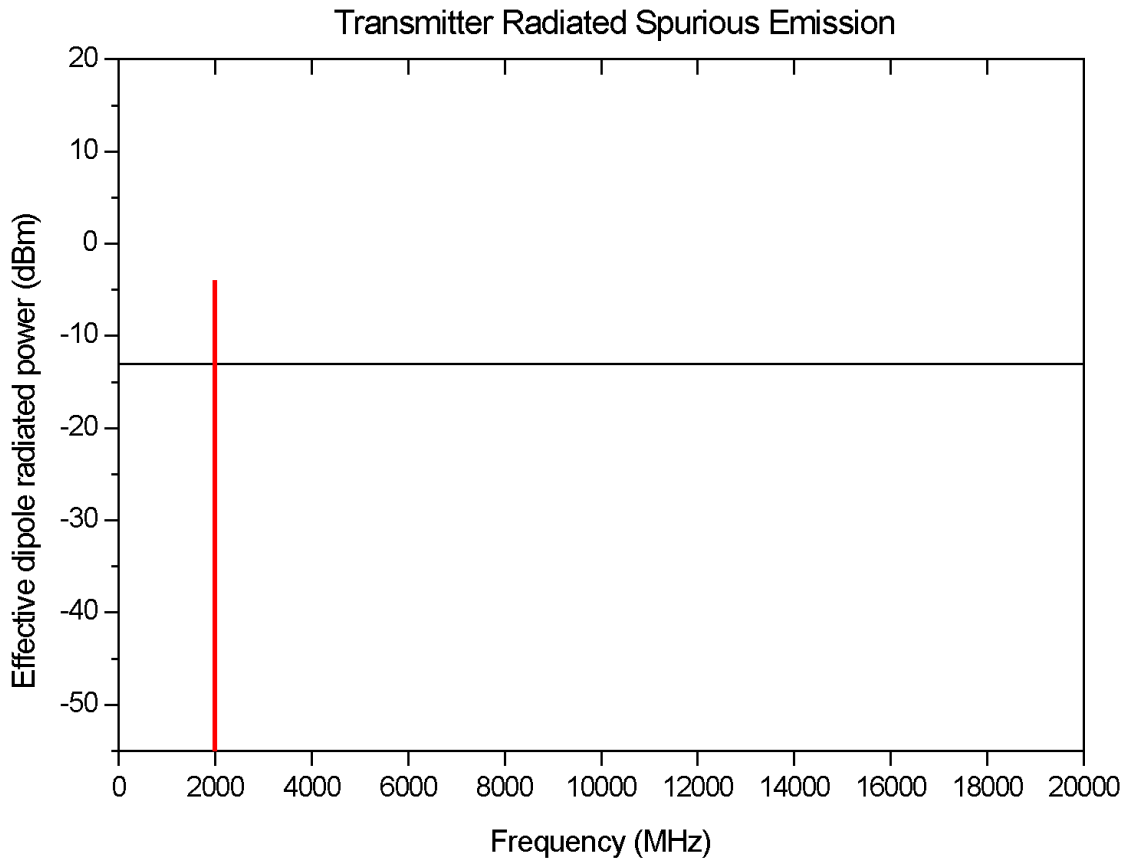
Rated Power Output = 31 Watt
Channel 512 / Carrier frequency = 1930.2 MHz

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RADIATED SPURIOUS EMISSIONS 2102 DIGITAL MODE

Radiated Spurious Emission



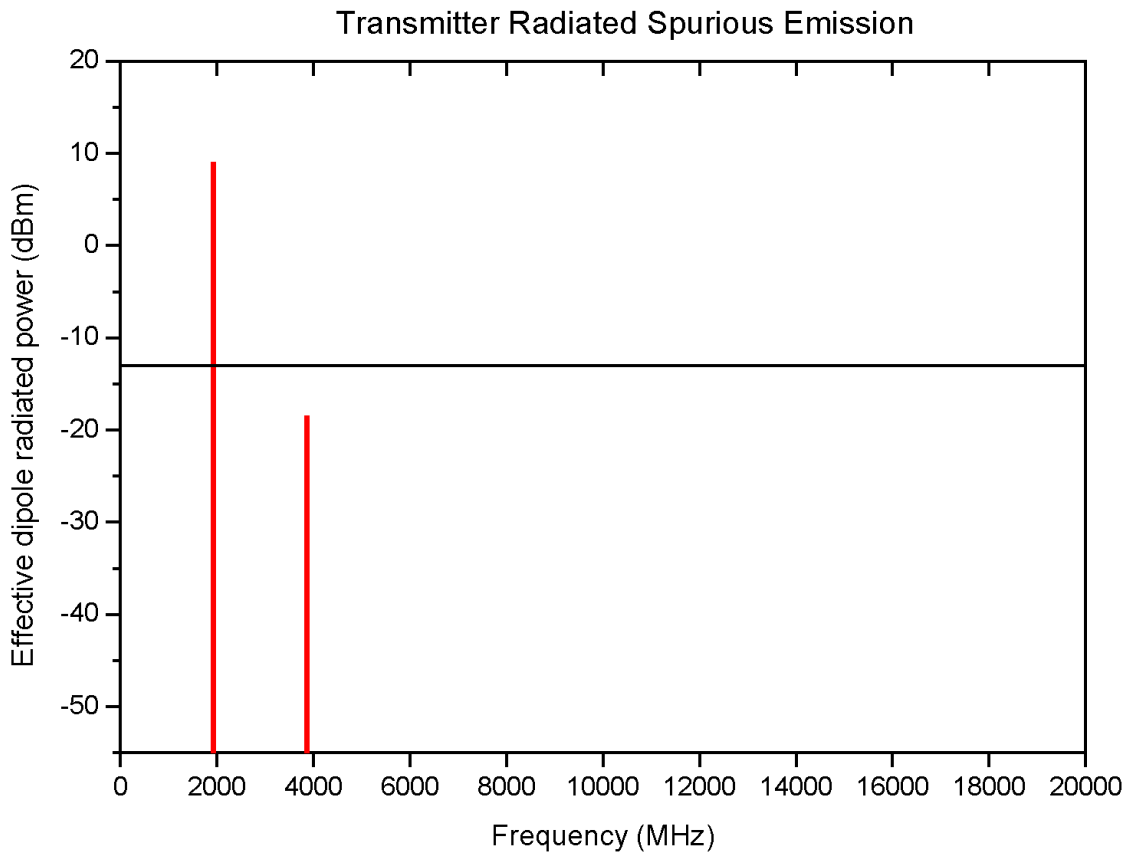
Rated Power Output = 31 Watt
Channel 810 / Carrier frequency = 1989.8 MHz

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RADIATED SPURIOUS EMISSIONS 2202 DIGITAL MODE

Radiated Spurious Emission



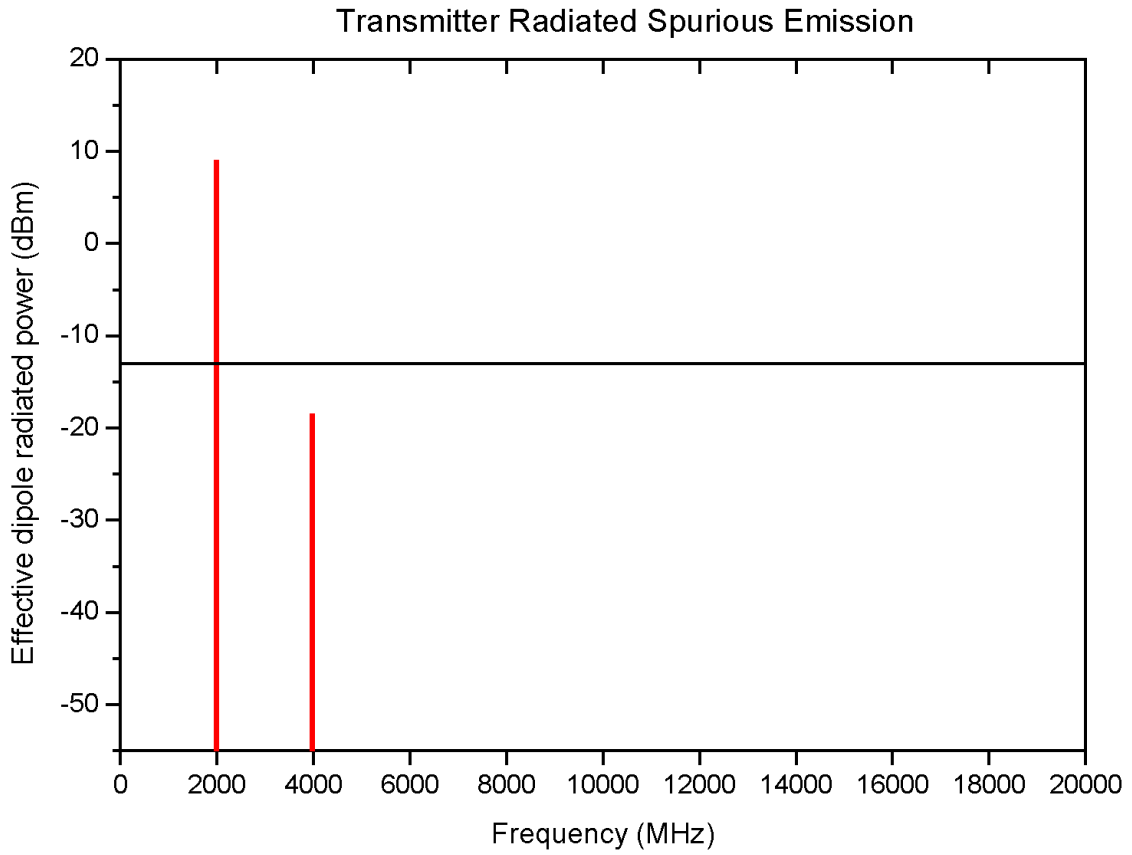
Rated Power Output = 31 Watt
Channel 512 / Carrier frequency = 1930.2 MHz

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RADIATED SPURIOUS EMISSIONS 2202 DIGITAL MODE

Radiated Spurious Emission



Rated Power Output = 31 Watt
Channel 810 / Carrier frequency = 1989.8 MHz

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FREQUENCY STABILITY

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 specified maximum AC voltage limit for RBS2000 is the nominal voltage (200 - 240 V) + 10 %. If the base station is exposed for higher voltage than 240 V +10% the fuses in the climate system will trip. If this happens the temperature inside the base station will increase. The temperature of the TRU is supervised and if the TRU temperature will go outside the TRU operating temperature range, the transmitters will be turned off.

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

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

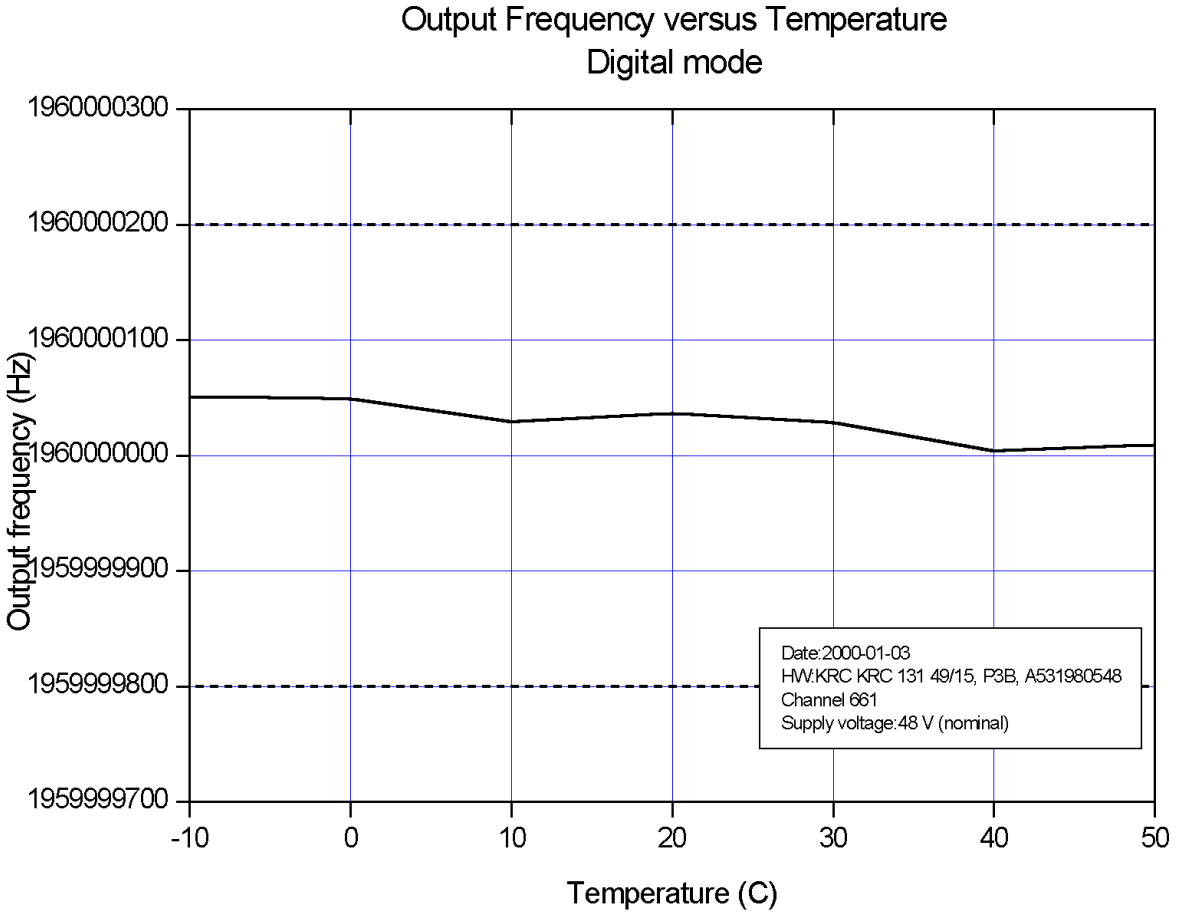
The R&S ESI 40 was hooked up to a external
10 MHz reference standard during the
measurements.

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FREQUENCY STABILITY 2202

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



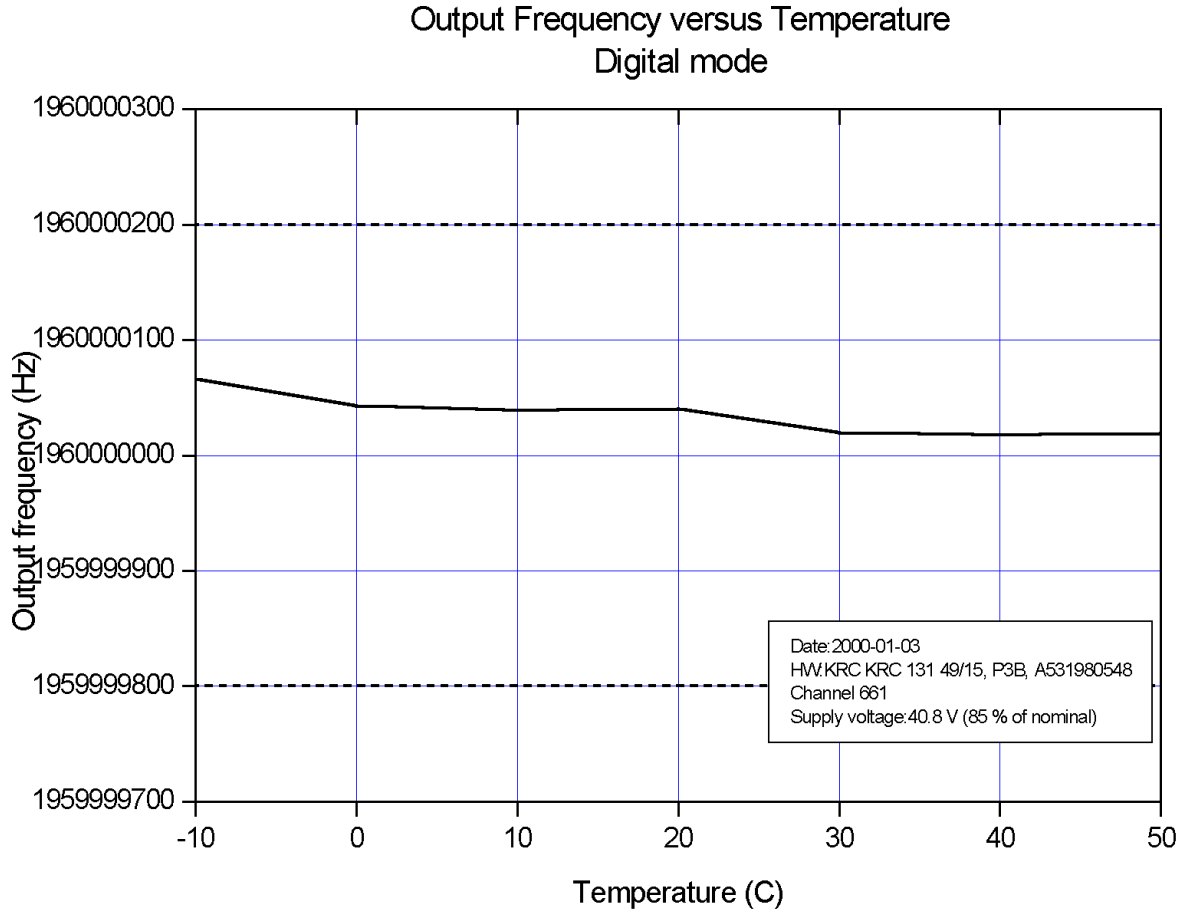
Channel 661 Output Power 44.9 dBm
Supply Voltage:48 V (nominal)

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FREQUENCY STABILITY 2202

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



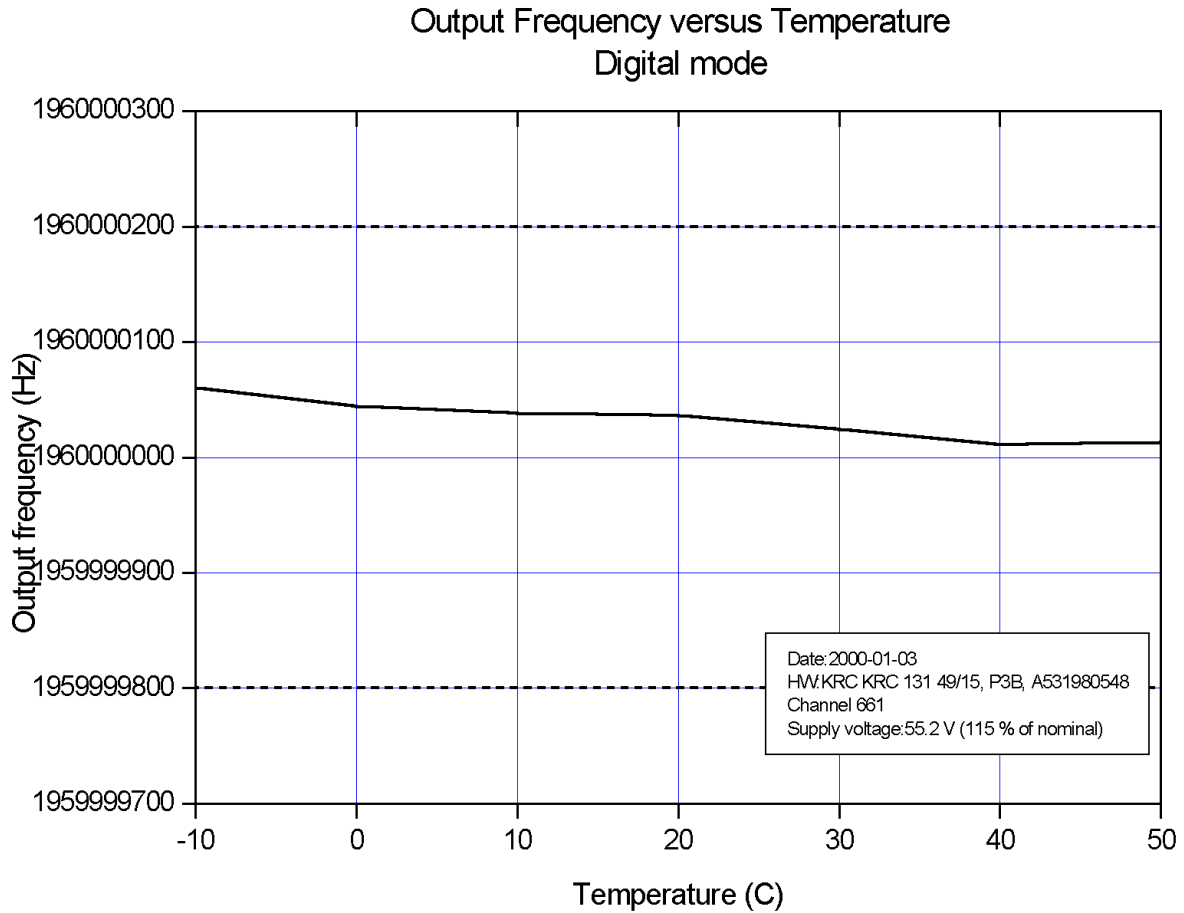
Channel 661 Output Power 44.9 dBm
Supply Voltage: 40.8 V (85% of nominal)

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FREQUENCY STABILITY 2202

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



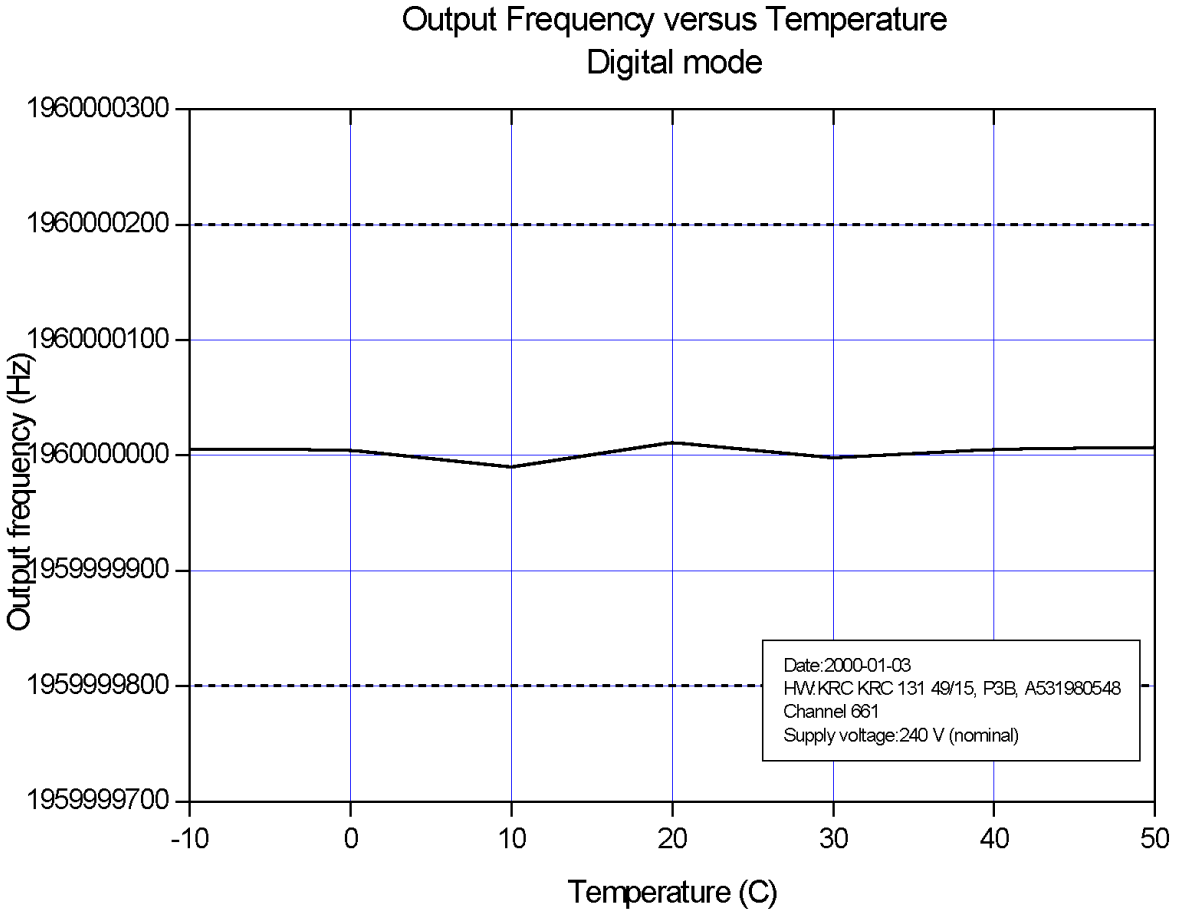
Channel 661 Output Power 44.9 dBm
Supply Voltage:55.2 V (115% of nominal)

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FREQUENCY STABILITY 2102

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



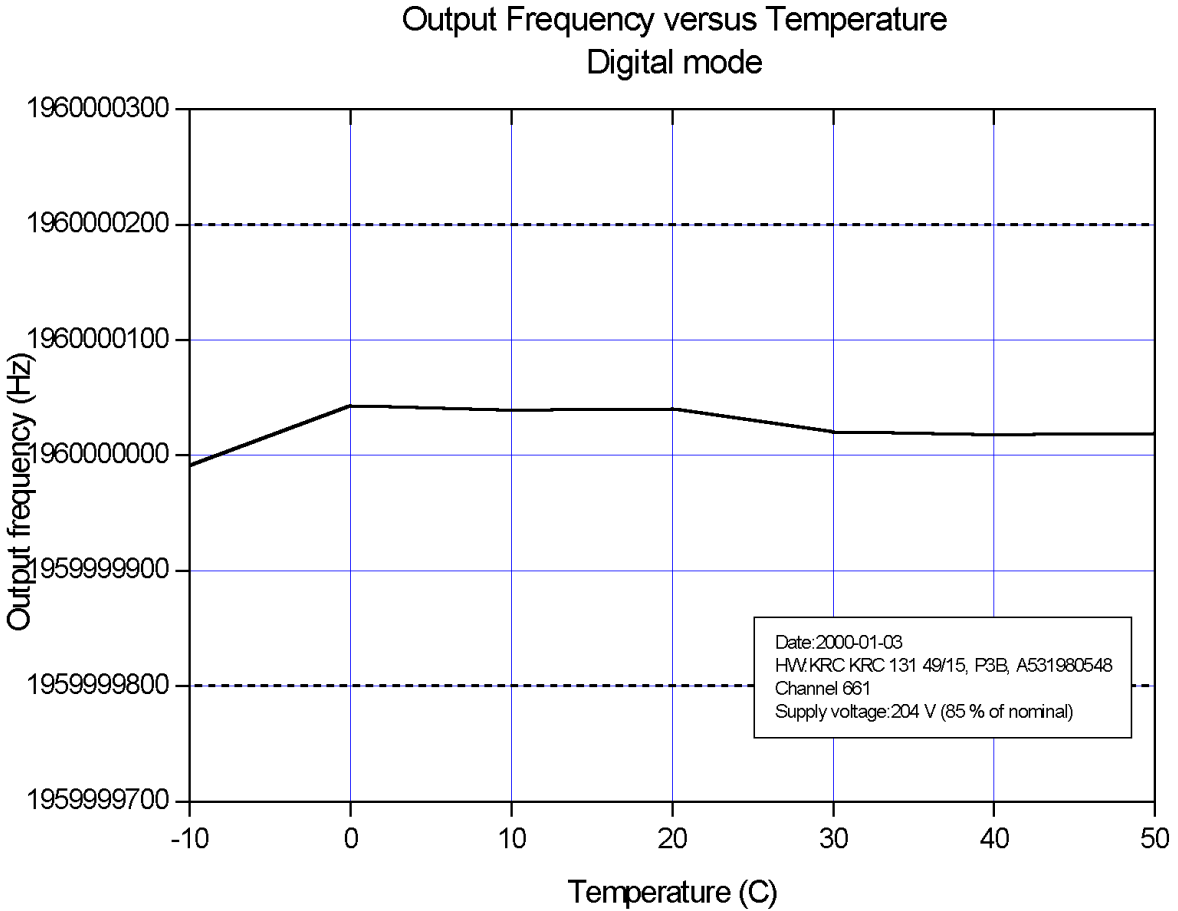
Channel 661 Output Power 44.9 dBm
Supply Voltage: 240 V (nominal)

APPLICANT:
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FREQUENCY STABILITY 2102

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



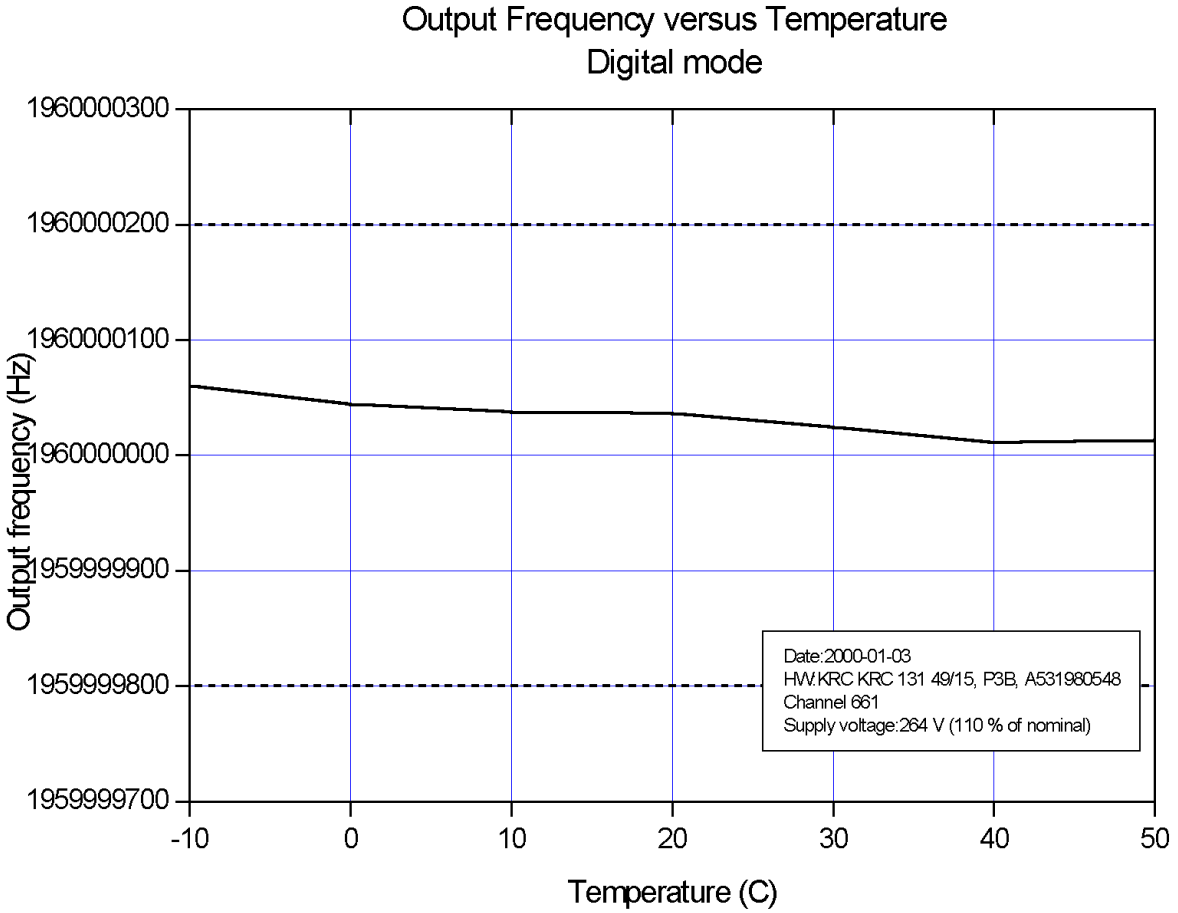
Channel 661 Output Power 44.9 dBm
Supply Voltage:204 V (85% of nominal)

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FREQUENCY STABILITY 2102

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



Channel 661 Output Power 44.9 dBm
Supply Voltage: 264 V (110% of nominal)