

APPLICANT:  
Ericsson Radio Systems AB

FCC ID NO.  
B5KKRC16131

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EXHIBIT LIST

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<u>Exhibit No.</u>	<u>Paragraph. Ref.</u>	<u>Description</u>
8	2.985 (a)	RF Power Output
9	2.987 (a, b, d)	Modulation Characteristics
10A-K	2.989 (h)	Occupied Bandwidth
11	2.991, 2.993	Spurious Emissions
12 A-C	2.995 (a, b, d)	Frequency Stability



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RF POWER OUTPUT

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2.985(a) RF Power Output

The RF power at the output terminals (antenna connector)  
at the highest and lowest power levels are.

<b>Channel</b>	<b>Frequency (MHz)</b>	<b>Power Level</b>	<b>Power (dBm)</b>
512	1930.2	P(0)	33.8
512	1930.2	P(15)	3.6
661	1960.0	P(0)	34.5
661	1960.0	P(15)	4.7
810	1989.8	P(0)	33.7
810	1989.8	P(15)	3.9

The measurement was made per PN3389 Vol 1 using the following equipment:

Radio Frequency 50 ohm load attached to the output.

The power was measured on a BOONTON 4500 Peak power meter (Inv no YE 2410),  
a BOONTON 56526 peak power sensor (Inv no YE 2997) and a RF - Box Power 1800/1900 Ericsson LPY 107  
610.

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MODULATION CHARACTERISTICS

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2.987(a,b,d) The modulation characteristics is measured as the phase error according to PN3389 Vol 1.

<b>Channel</b>	<b>Frequency (MHz)</b>	<b>Phase error RMS (degree)</b>	<b>Phase error Peak (degree)</b>
512	1930.2	2.3	-7
661	1960.0	2.3	-7.5
810	1989.8	2.3	8.2

Equipment used:

Anritsu GSM tester MS8604A (Inv. no. YG 0690) and RF-box Power 1800/1900 LPY 107610.

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OCCUPIED BANDWIDTH

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2.989(h) Occupied Bandwidth

Modulation spectrum with GMSK modulation at 270.8 Kbit/s is shown in exhibits 10B-K.

Exhibit #

10B-K The plots show the modulation spectrum on power level P(0) for

<b>Channel</b>	<b>Frequency</b>
512	1930.2 MHz
810	1989.8 MHz

The measurements are made per paragraph 24.238(d).

Resolution bandwidth = 1 % of the emission bandwidth = 3 kHz.  
Per paragraph 24.238(b)

The highest emission bandwidth was 317 kHz, but we are requesting 320kHz to support variants.  
Per paragraph 24.238(b)

Equipment used:

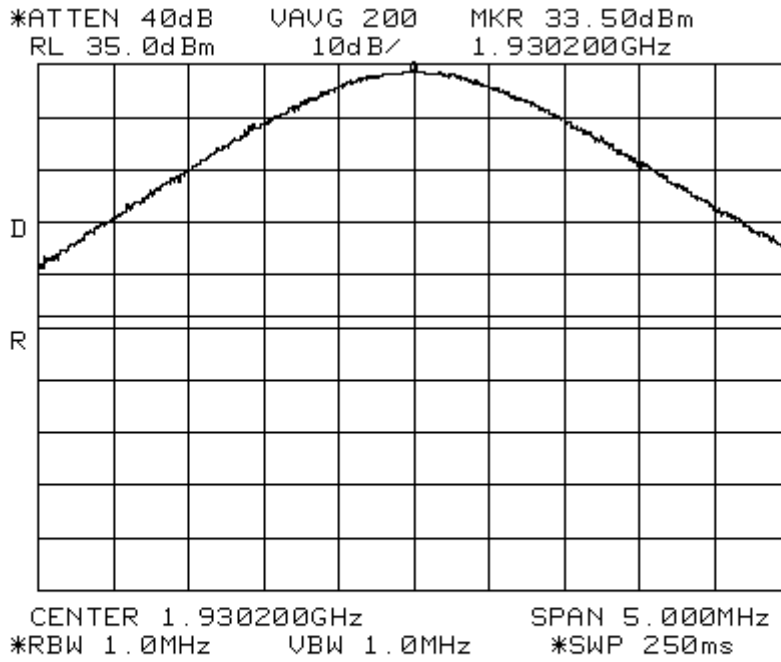
Spectrum Analyzer HP 8563E (Inv. no. YY1882).

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Exhibit 10B  
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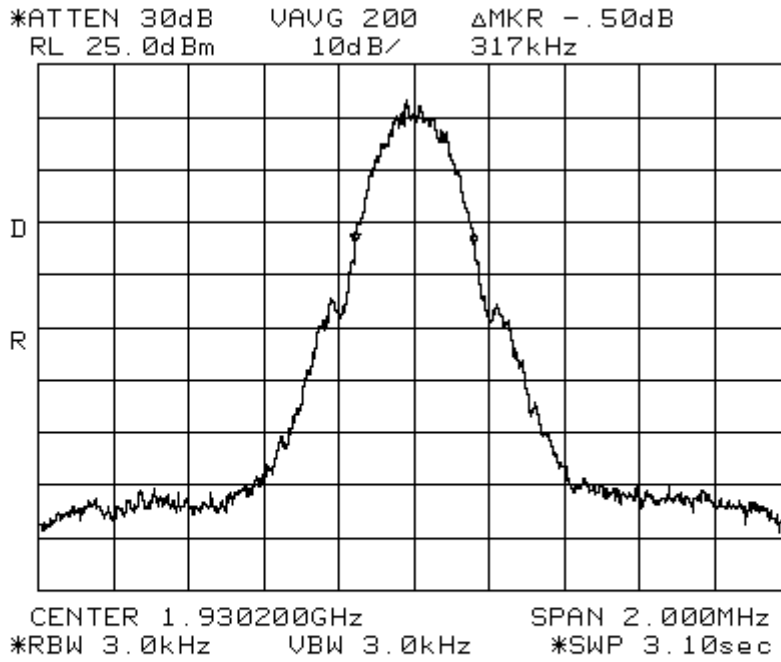
OCCUPIED BANDWIDTH

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OCCUPIED BANDWIDTH

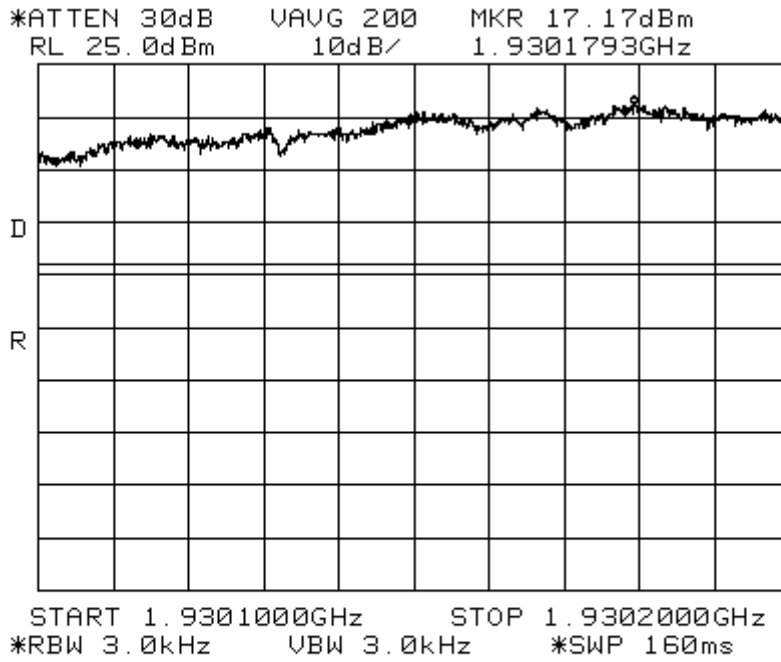
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Exhibit 10D  
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OCCUPIED BANDWIDTH

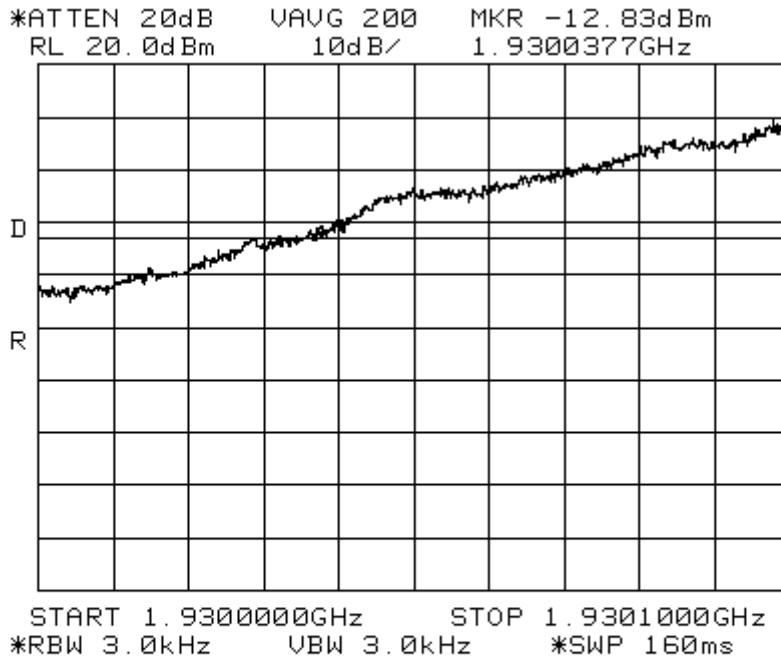




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Exhibit 10E  
FCC ID NO.  
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OCCUPIED BANDWIDTH

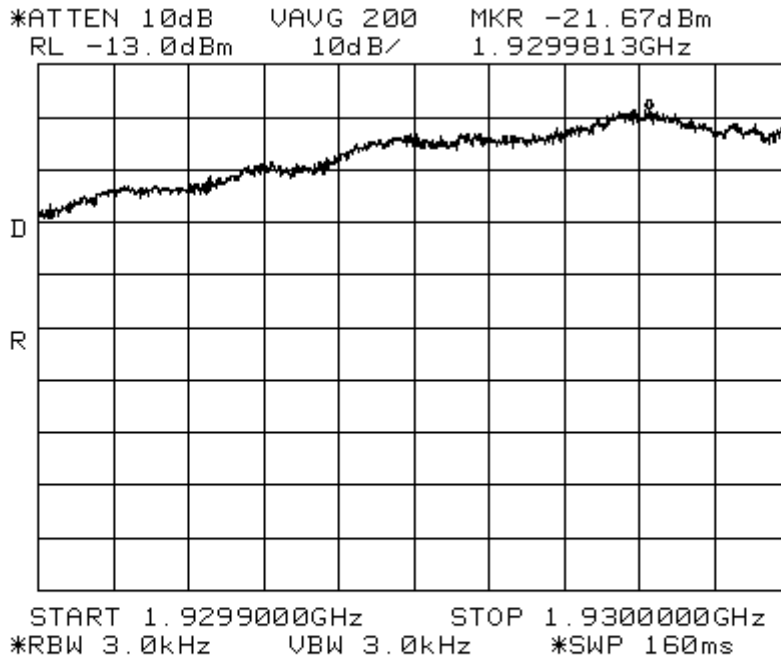


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Exhibit 10F  
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OCCUPIED BANDWIDTH

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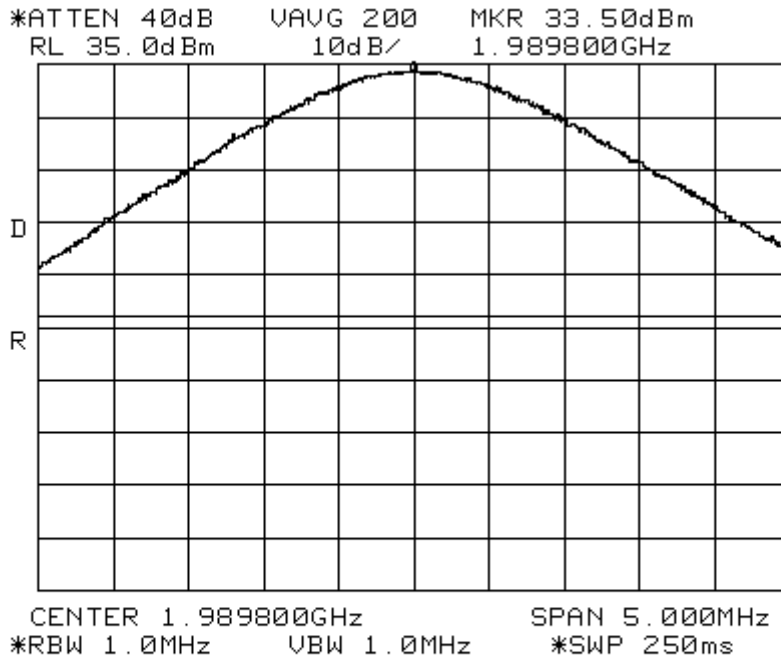


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Exhibit 10G  
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OCCUPIED BANDWIDTH

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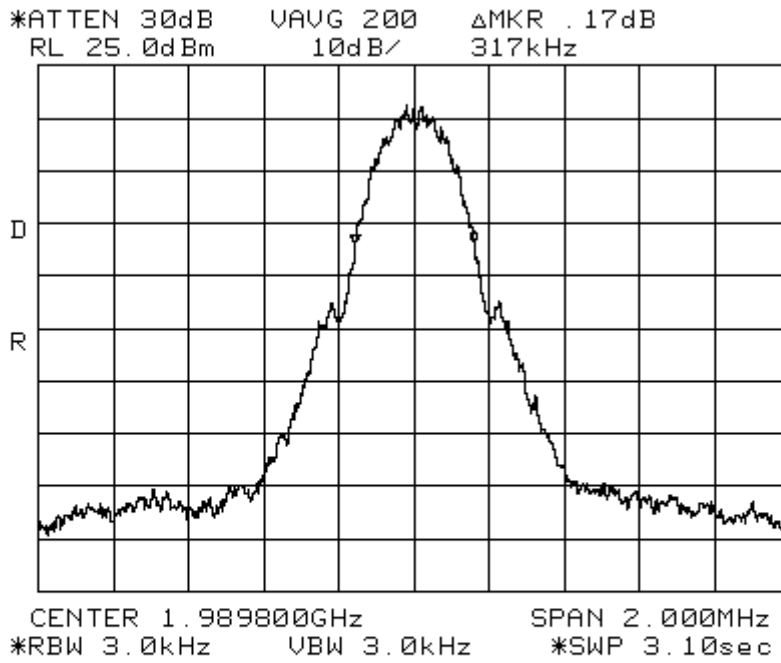


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Exhibit 10H  
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OCCUPIED BANDWIDTH

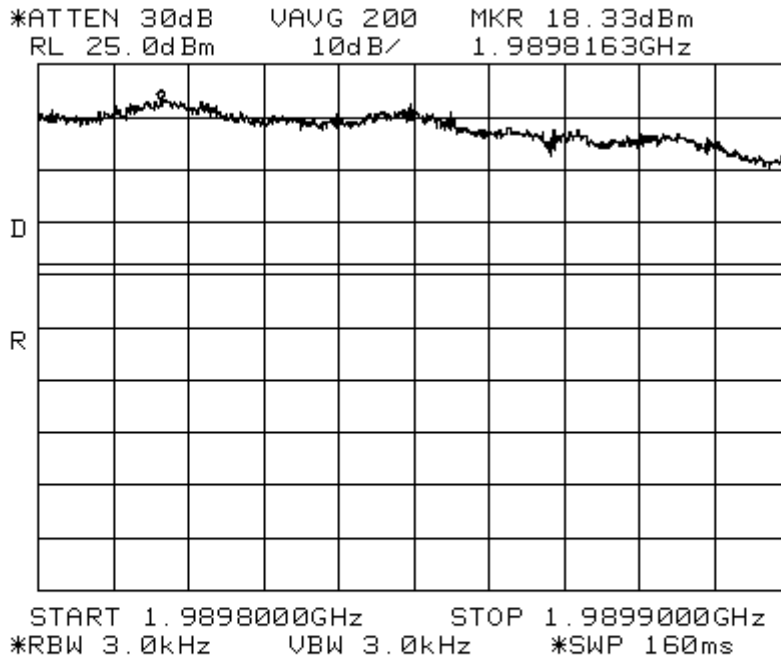
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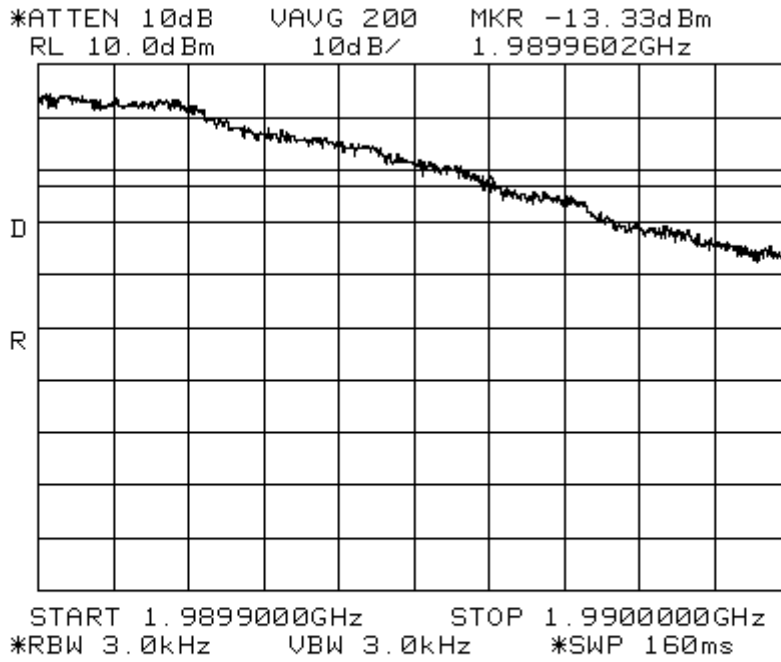
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Exhibit 10I  
FCC ID NO.  
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OCCUPIED BANDWIDTH



OCCUPIED BANDWIDTH

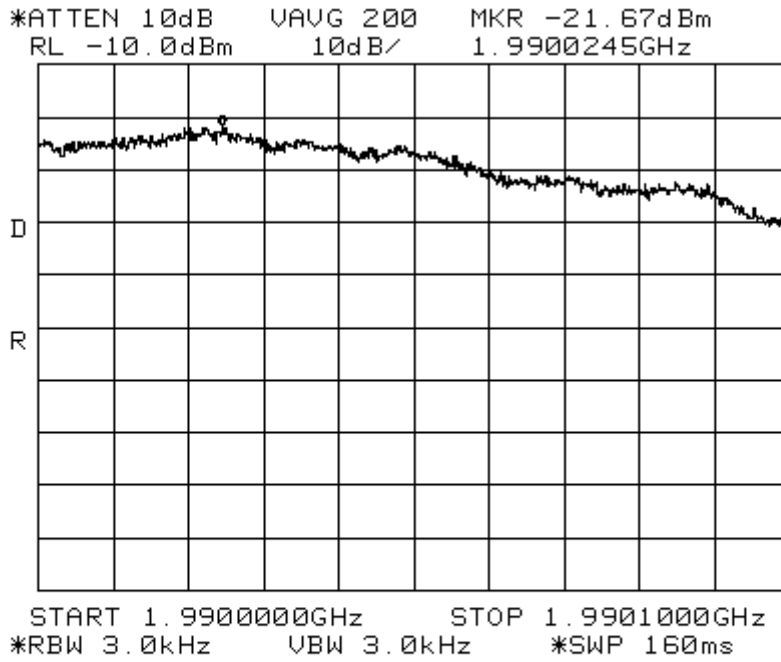


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Exhibit 10K  
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OCCUPIED BANDWIDTH

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SPURIOUS EMISSIONS

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2.991 Conducted Spurious emissions

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

<b>Channel</b>	<b>Frequency (MHz)</b>	<b>Power Level</b>	<b>Result</b>
512	1930.2	P(0)	1)
661	1960.0	P(0)	1)
810	1989.8	P(0)	1)

1) No spurious emissions were found above -33 dBm.

Equipment used:

RF - Box Modulation 1900, Ericsson LPY 107 616

Spectrum Analyzer HP 8563E (Inv. no. YY 1882)

2.993 Field strength spurious radiation (emissions)

The field strength of spurious emissions were measured in the form of preliminary scans on a 3 meter range in a screened enclosure at Radio Frequency Investigation Ltd., Basingstoke, England. Any spurious emissions observed during the preliminary scans were noted and measured relative to a half wave dipole antenna at a 10 meter measurement distance on a fully compliant open area test site. Radio Frequency Investigation Ltd., is an FCC listed test facility in accordance with section 2.948 of the FCC rules.

All measurements were performed in accordance with ANSI C63-4. 1992

For results and plots from the measurements refer to RFI report no: RP37902.

<b>Channel</b>	<b>Frequency (MHz)</b>	<b>Power Level</b>	<b>Result</b>
512	1930.2	P(0)	1)
810	1989.8	P(0)	1)

1) No spurious emissions were found above -33 dBm.



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FREQUENCY STABILITY

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2.995      Frequency Stability

Variation of output frequency as a result of either temperature or voltage variation is reported below. The measurements were made per PN3389 Vol 1.

<b><u>Exhibit #</u></b>	<b>Graph</b>
12B	Frequency vs. Voltage at +25 °C
12C	Frequency vs. temperature at 115 V

Equipment used:

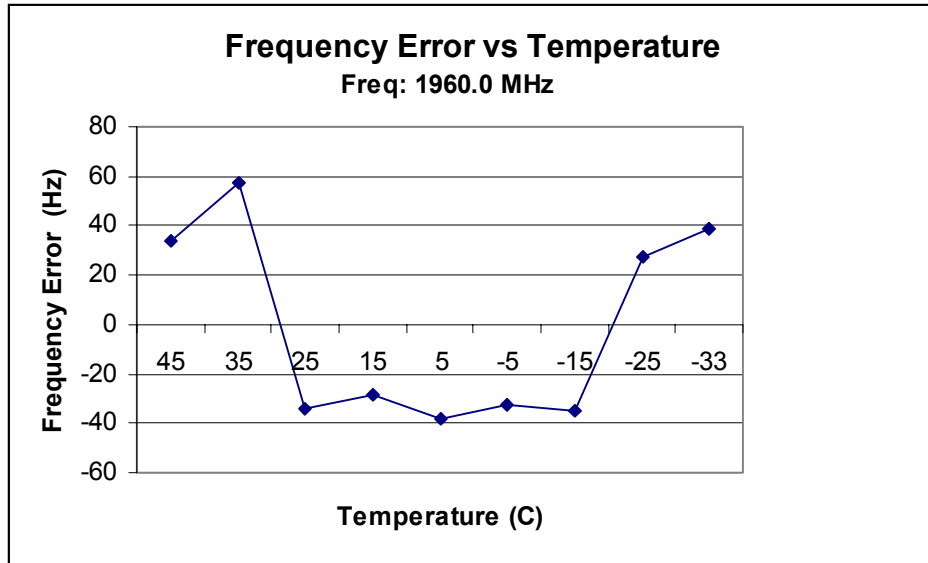
Anritsu GSM Tx tester MS 8604A (Inv.n0. YG0690) and FR-box Power 800/1900 LPY 107 610.

Note: This RBS is manufactured and advertised to work from -33°C to +45°C. There is a control logic that shuts off the RBS when temperature exceeds this limits.

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FREQUENCY STABILITY

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FREQUENCY STABILITY

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