

APPLICANT:
Ericsson Inc.

2.1033(14)
FCC ID Number:
AXAKRC12106-1

TEST REPORT

2.1046

(a) RF Power Output

The RF power output at the TRX output terminal is: (Channel 332)

High Power (0 dB attenuation): Measured = 40.65 dBm (11.6144 Watts)

Low Power (20 dB attenuation): Measured = 20.65 dBm (116.1 mWatts)

(a) RF power output

The RF power output at the output terminals ANP (Antenna Near Parts) is: (Channel 332)

Two Antenna ANP: High Power measured = 34.83 dBm (3.04 Watts)

Low Power measured = 14.83 dBm (30.4 mWatts)

Four Antenna ANP: High Power measured = 37.8 dBm (6.02 Watts)

Low Power measured = 17.8 dBm (60.25 mWatts)

The measurements were made per CFR title 47 part 2.985. The following equipment was used:

Giga-Tronics 8542C Universal Power Meter.

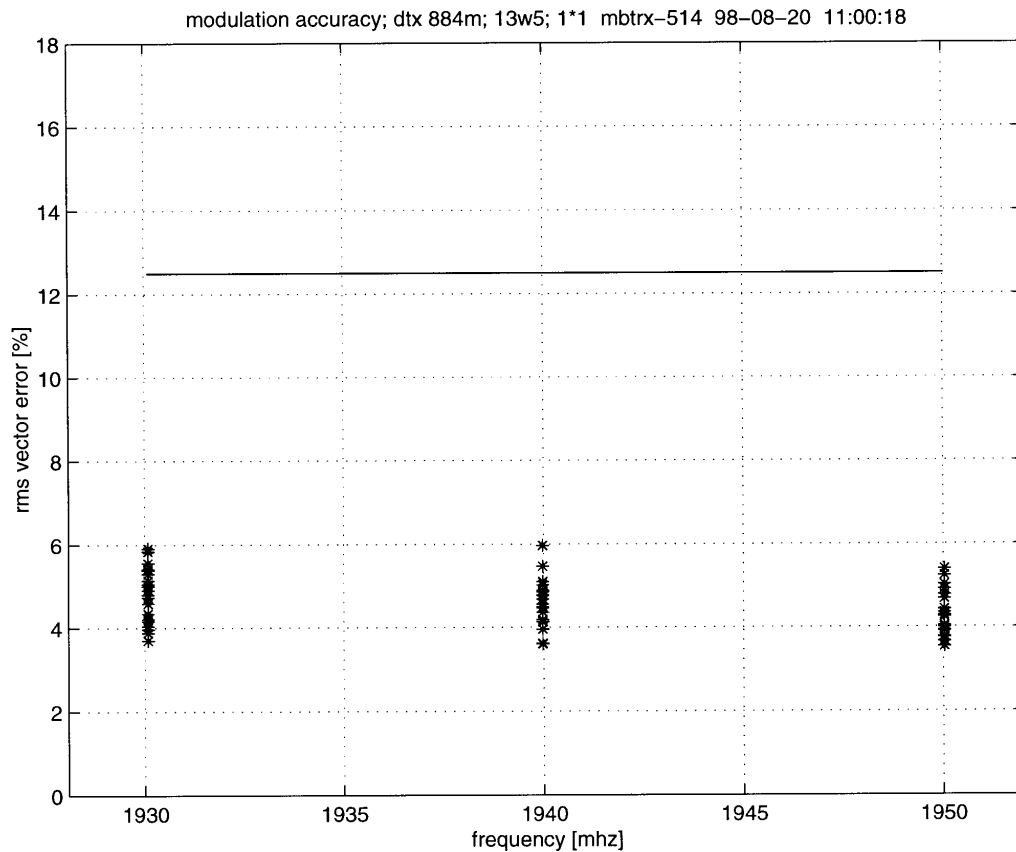
TEST REPORT

2.1047

(d) Modulation Characteristics

The modulation characteristics for this 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 the TIA/IS-136/IS-138.

In this test the Vector Error is measured 21 times on each frequency to show the range at which can be expected.



Equipment used:

Rohde and Schwarz

Spectrum Analyzer

FSEM

TEST REPORT

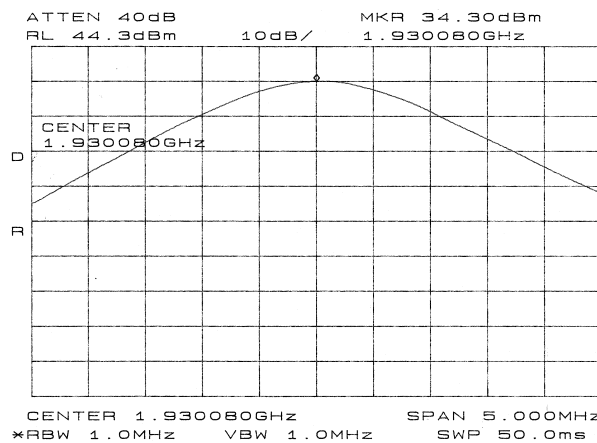
2.1049 (h) Occupied Bandwidth

The measurement methods according to CFR title 47 Part 24.238 were used to obtain the following results:

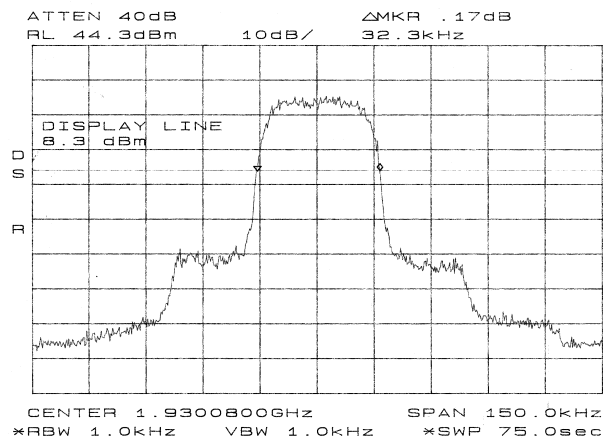
24.238 (b) Two Antenna ANP

High Power (Attenuation = 0) Channel 2 (1.93008 GHz)

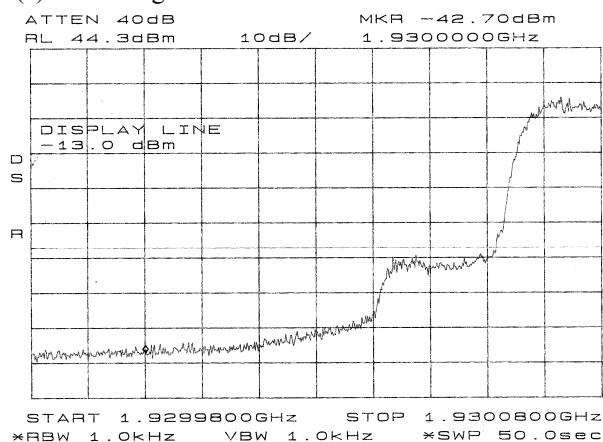
24.238 (b) Reference un-modulated carrier:



24.238 (b) Emission Bandwidth (26 dBc method): 48.6 kbs Pseudorandom Data.



24.238 (c) Block Edge: 48.6 kbs Pseudorandom Data.

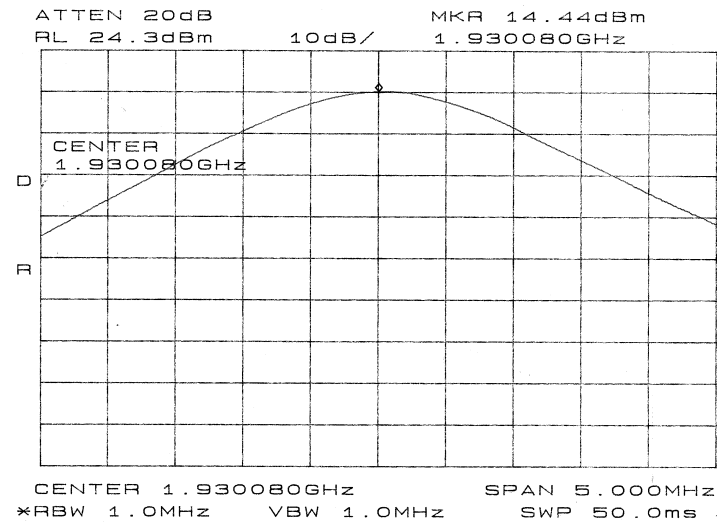


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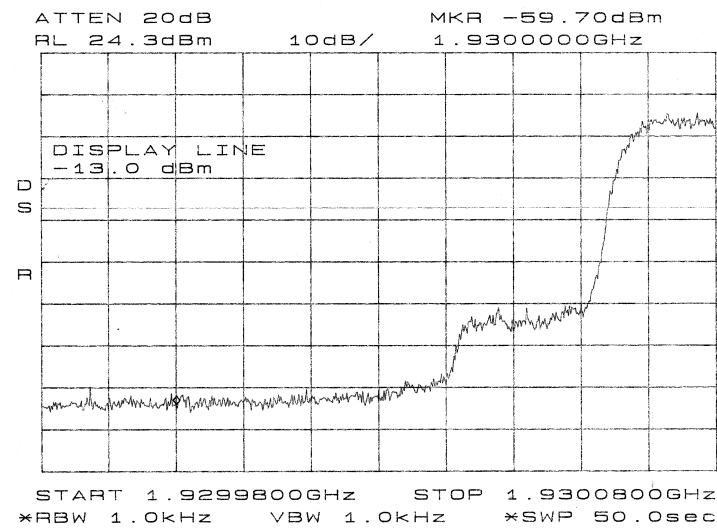
Two Antenna ANP (continued)

Low Power (Attenuation = 20) Channel 2 (1.93008 GHz)

24.238 (b) Reference un-modulated carrier:



24.238 (c) Block Edge: 48.6 kbs Pseudorandom Data.

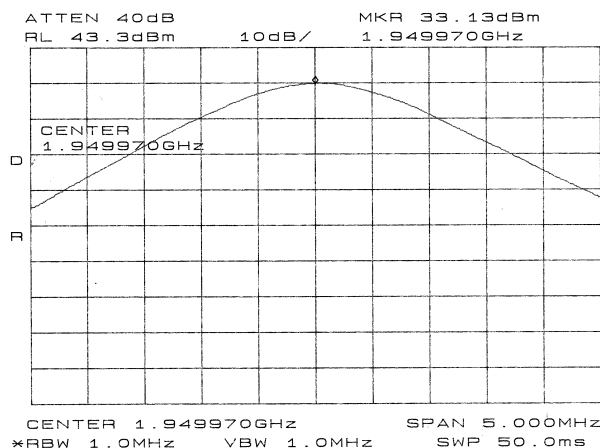


TEST REPORT

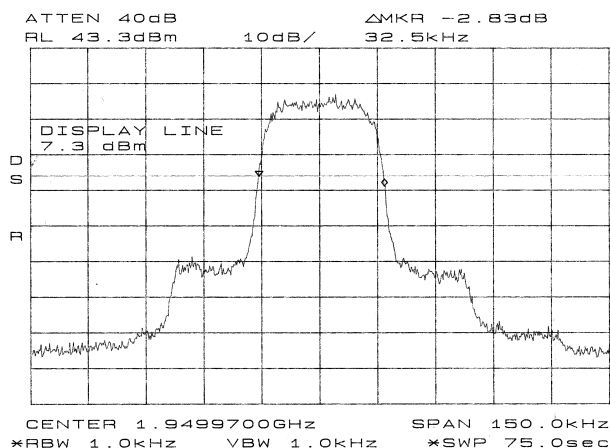
Two Antenna ANP (continued)

High Power (Attenuation = 0) Channel 665 (1.94997 GHz)

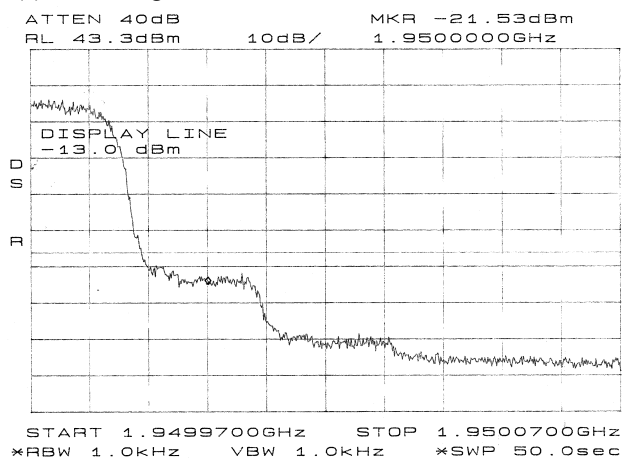
24.238 (b) Reference un-modulated carrier:



24.238 (b) Emission Bandwidth (26 dBc method): 48.6 kbs Pseudorandom Data.



24.238 (c) Block Edge: 48.6 kbs Pseudorandom Data.

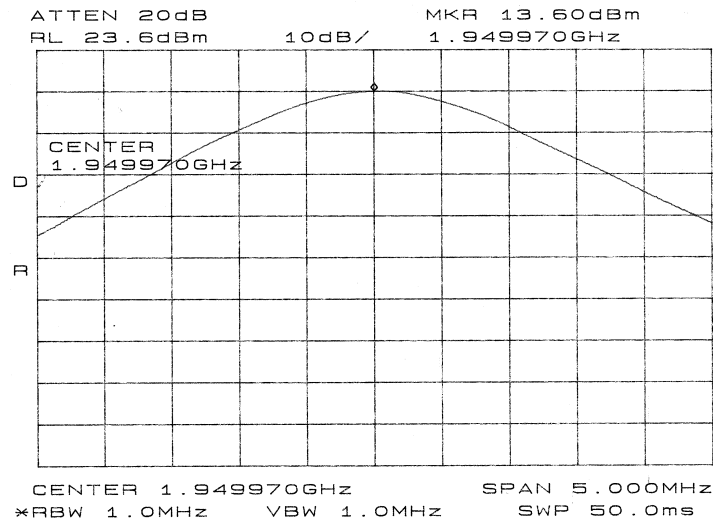


TEST REPORT

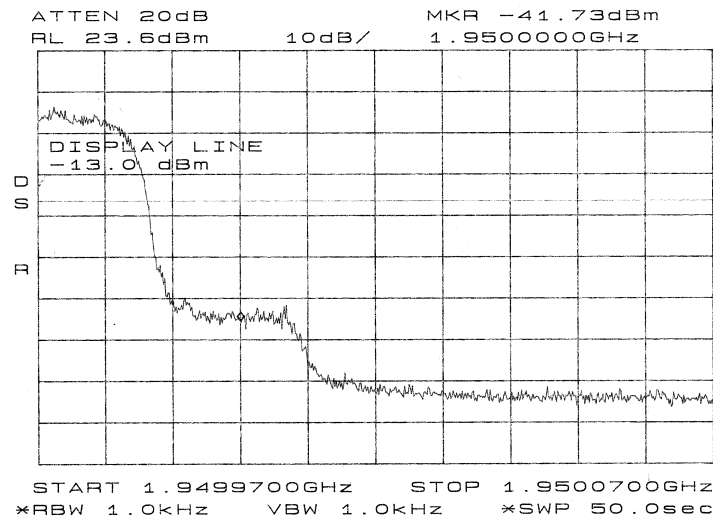
Two Antenna ANP (continued)

Low Power (Attenuation = 20) Channel 665 (1.94997 GHz)

24.238 (b) Reference un-modulated carrier:



24.238 (c) Block Edge: 48.6 kbs Pseudorandom Data.

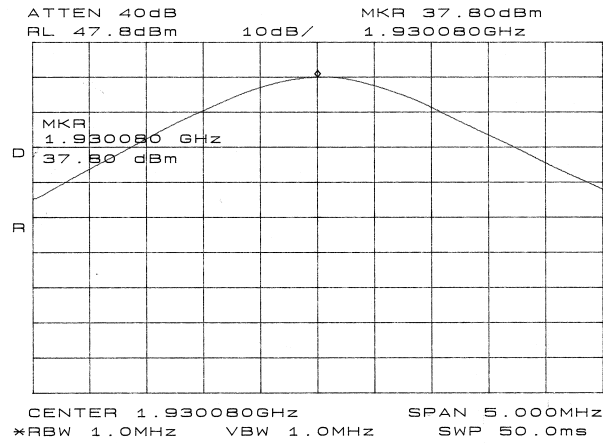


TEST REPORT

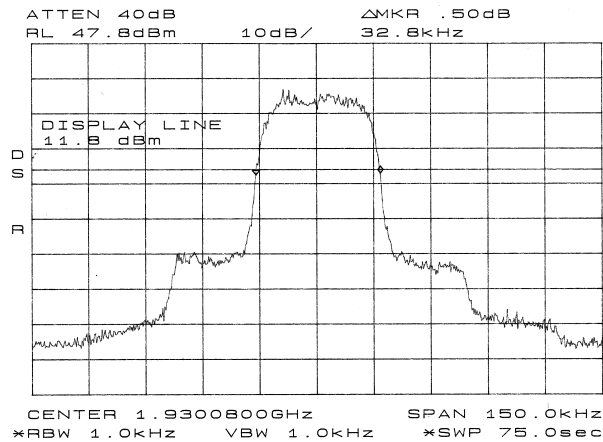
24.238 (b) Four Antenna ANP

High Power (Attenuation = 0) Channel 2 (1.93008 GHz)

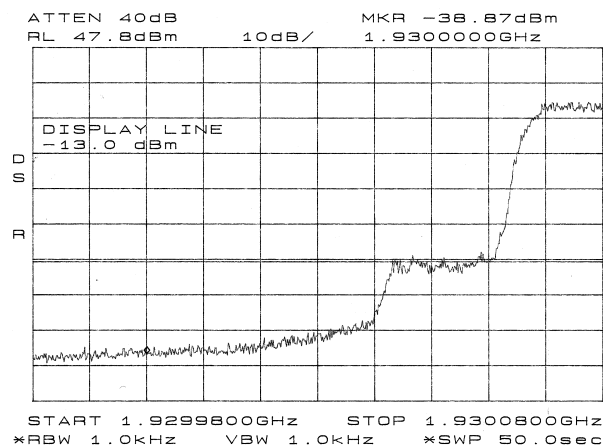
24.238 (b) Reference un-modulated carrier:



24.238 (b) Emission Bandwidth (26 dBc method): 48.6 kbs Pseudorandom Data.



24.238 (c) Block Edge: 48.6 kbs Pseudorandom Data.

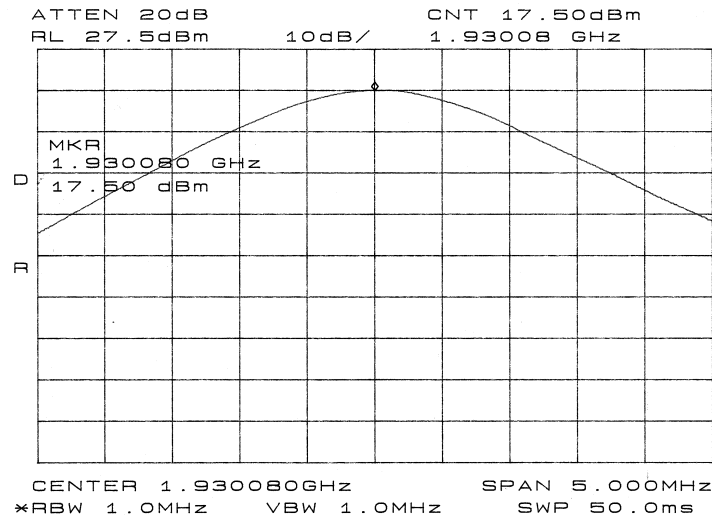


TEST REPORT

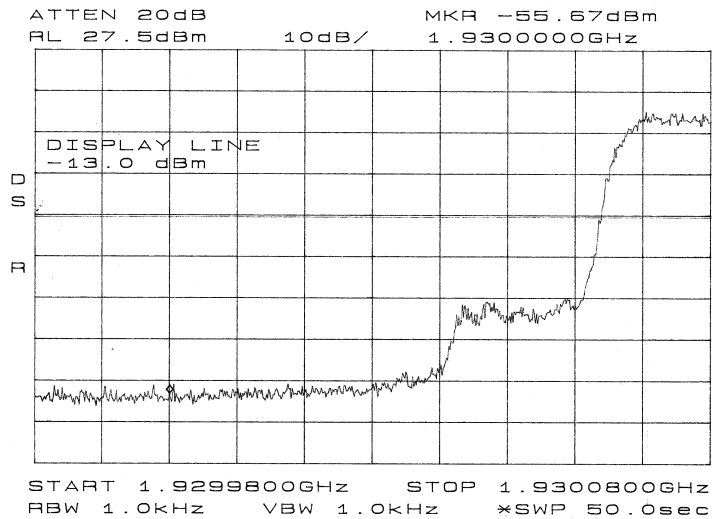
Four Antenna ANP (continued)

Low Power (Attenuation = 20) Channel 2 (1.93008 GHz)

24.238 (b) Reference un-modulated carrier:



24.238 (c) Block Edge: 48.6 kbs Pseudorandom Data.

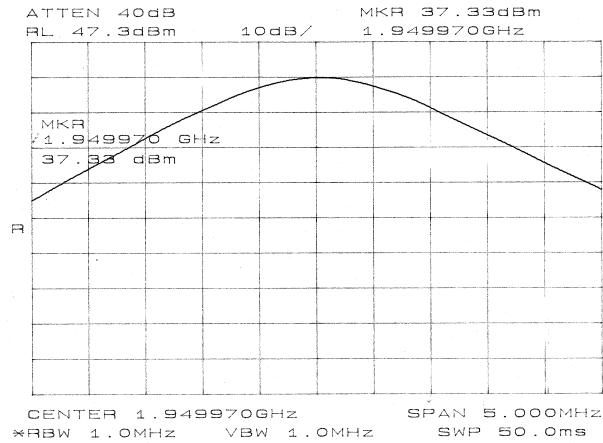


TEST REPORT

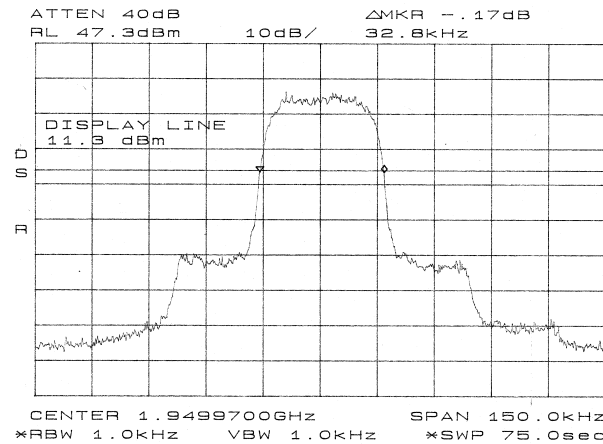
Four Antenna ANP (continued)

High Power (Attenuation = 0) Channel 665 (1.94997 GHz)

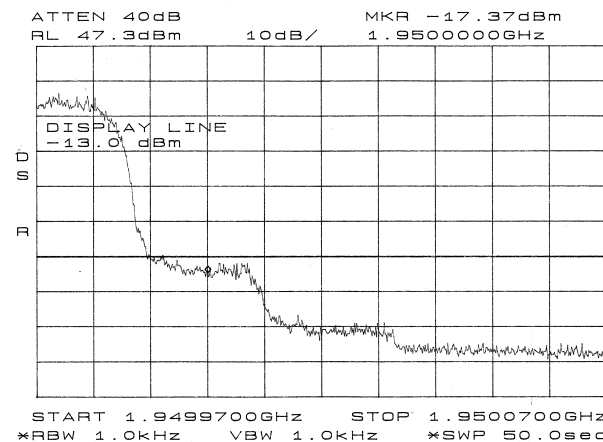
24.238 (b) Reference un-modulated carrier:



24.238 (b) Emission Bandwidth (26 dBc method): 48.6 kbs Pseudorandom Data.



24.238 (c) Block Edge: 48.6 kbs Pseudorandom Data.

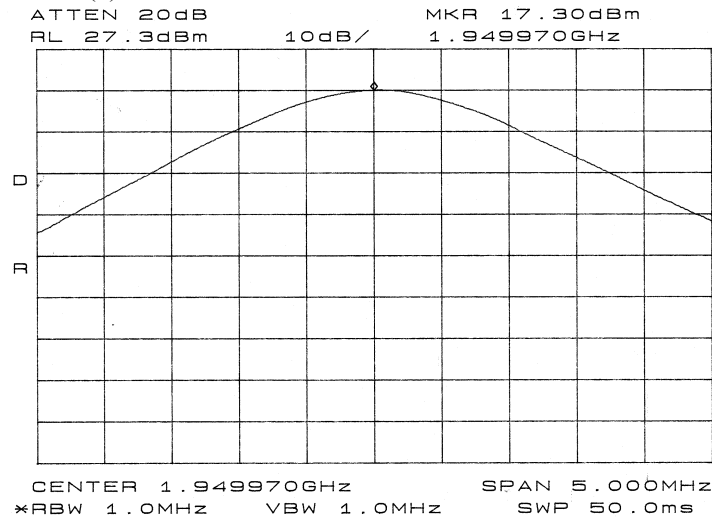


TEST REPORT

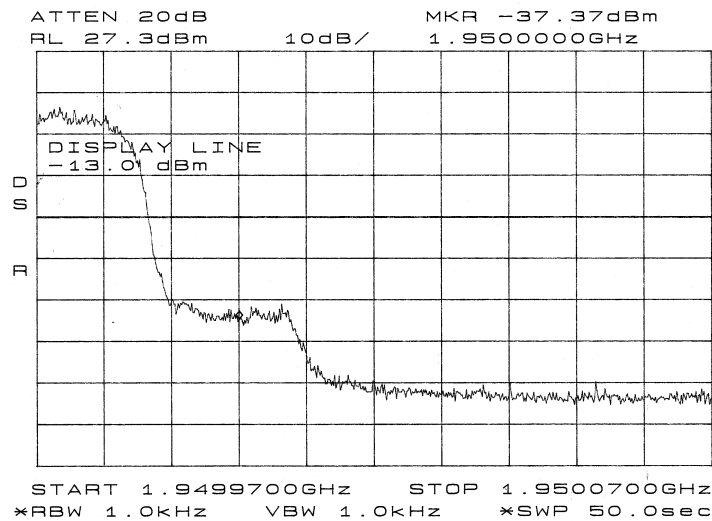
Four Antenna ANP (continued)

Low Power (Attenuation = 20) Channel 665 (1.94997 GHz)

24.238 (b) Reference un-modulated carrier:



24.238 (c) Block Edge: 48.6 kbs Pseudorandom Data.



TEST REPORT

2.1051

Conducted Spurious Emissions

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

Results are shown in the following exhibits:

Page 2 Channel 2, Two Antenna ANP High and Low Power. Modulated with 48.6 kbs Pseudorandom Data.

Page 3 Channel 665, Two Antenna ANP High and Low Power. Modulated with 48.6 kbs Pseudorandom Data.

Page 4 Channel 2, Four Antenna ANP High and Low Power. Modulated with 48.6 kbs Pseudorandom Data.

Page 5 Channel 665, Four Antenna ANP High and Low Power. Modulated with 48.6 kbs Pseudorandom Data.

Equipment used:

HP 8563E Spectrum Analyzer

2.1053

Field Strength Spurious Emissions

Ref. 2.993 field strength of spurious emissions was measured at the following NVLAP accredited test lab:

**Underwriters Laboratories Inc.
12 Laboratory Drive
Research Triangle Park, NC 27709**

Results are shown in the following exhibits:

Page 6 Channel 2, Two Antenna ANP High and Low Power. Modulated with 48.6 kbs Pseudorandom Data.

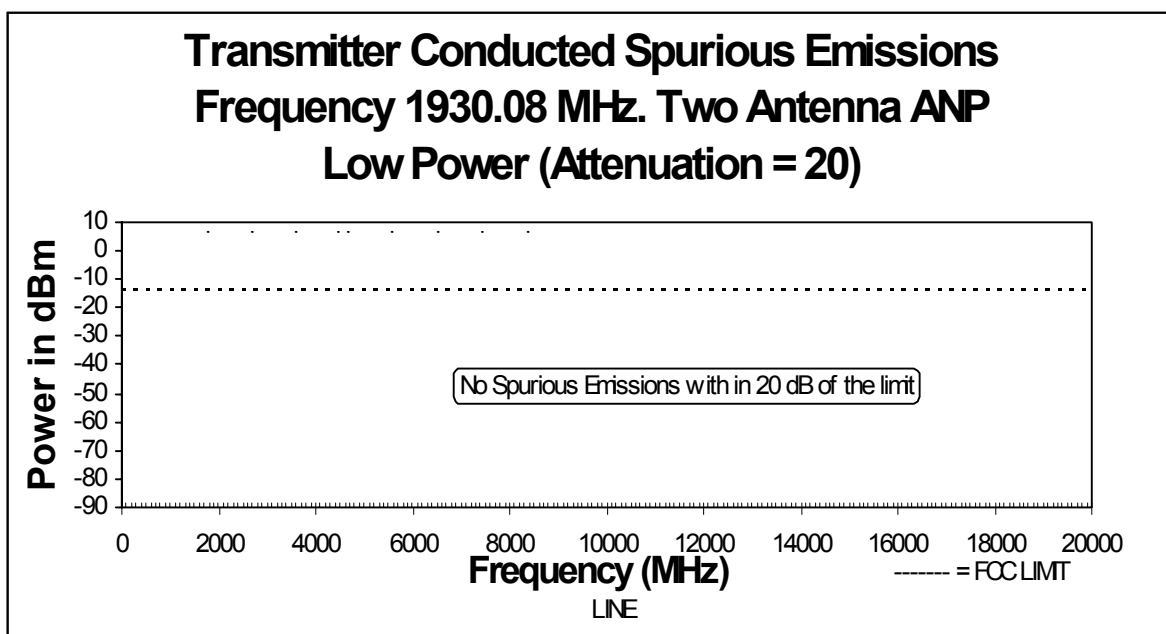
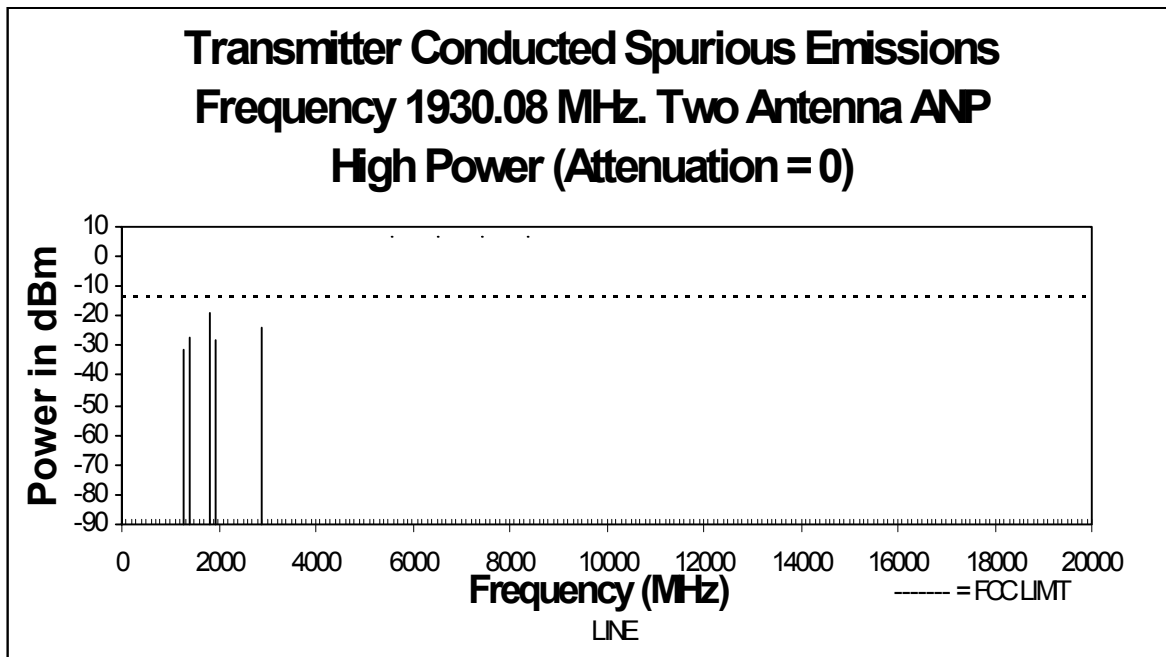
Page 7 Channel 665, Two Antenna ANP High and Low Power. Modulated with 48.6 kbs Pseudorandom Data.

Page 8 Channel 2, Four Antenna ANP High and Low Power. Modulated with 48.6 kbs Pseudorandom Data.

Page 9 Channel 665, Four Antenna ANP High and Low Power. Modulated with 48.6 kbs Pseudorandom Data.

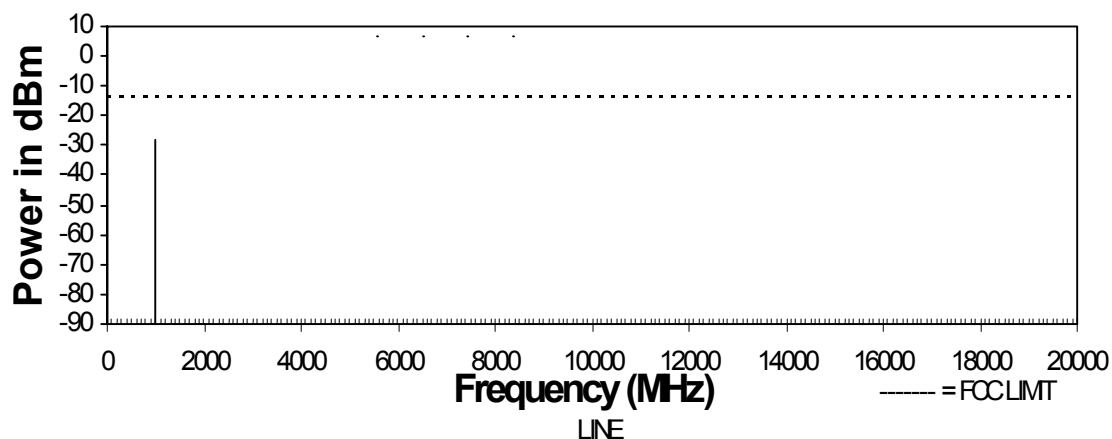
TEST REPORT

Transmitter Conducted measurements:

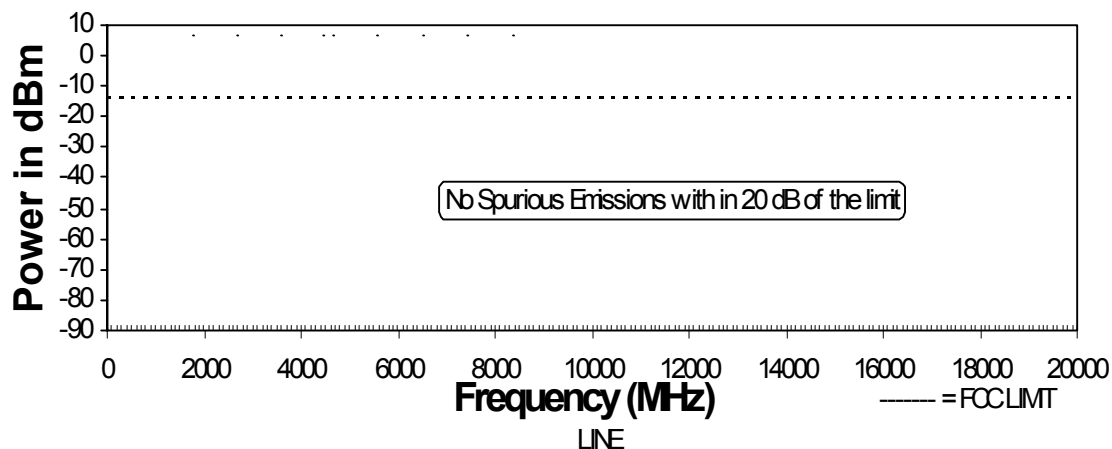


TEST REPORT

Transmitter Conducted Spurious Emissions
Frequency 1949.97 MHz. Two Antenna ANP
High Power (Attenuation = 0)

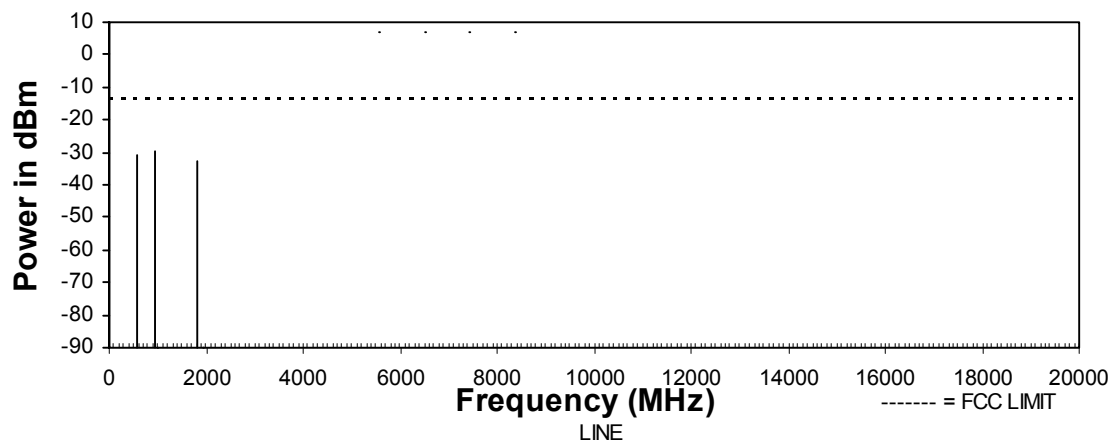


Transmitter Conducted Spurious Emissions
Frequency 1949.97 MHz. Two Antenna ANP
Low Power (Attenuation = 20)

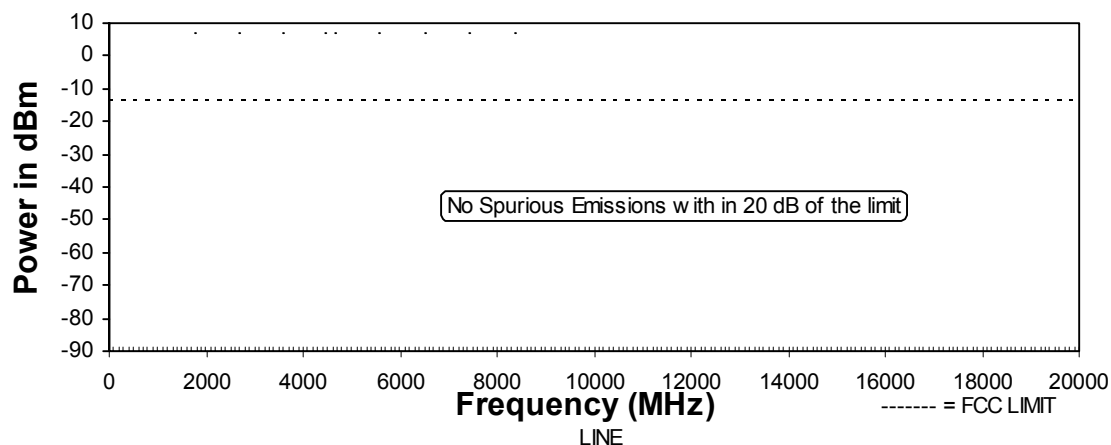


TEST REPORT

**Transmitter Conducted Spurious Emissions
Frequency 1930.08 MHz. Four Antenna ANP
High Power (Attenuation = 0)**

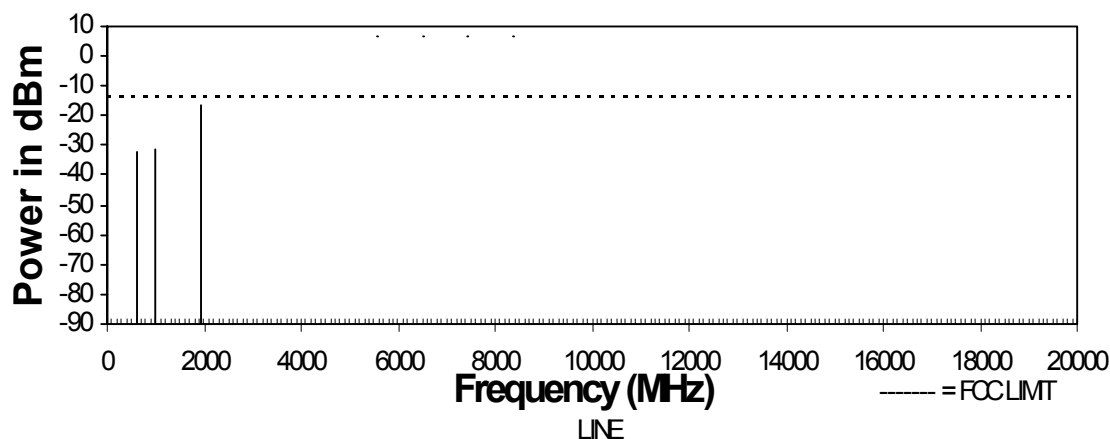


**Transmitter Conducted Spurious Emissions
Frequency 1930.08 MHz. Four Antenna ANP
Low Power (Attenuation = 20)**

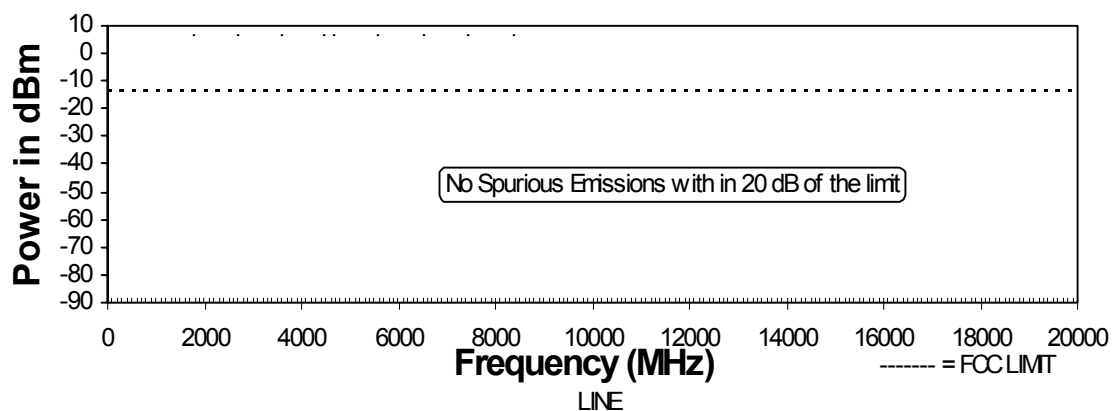


TEST REPORT

Transmitter Conducted Spurious Emissions
Frequency 1949.97 MHz. Four Antenna ANP
High Power (Attenuation = 0)

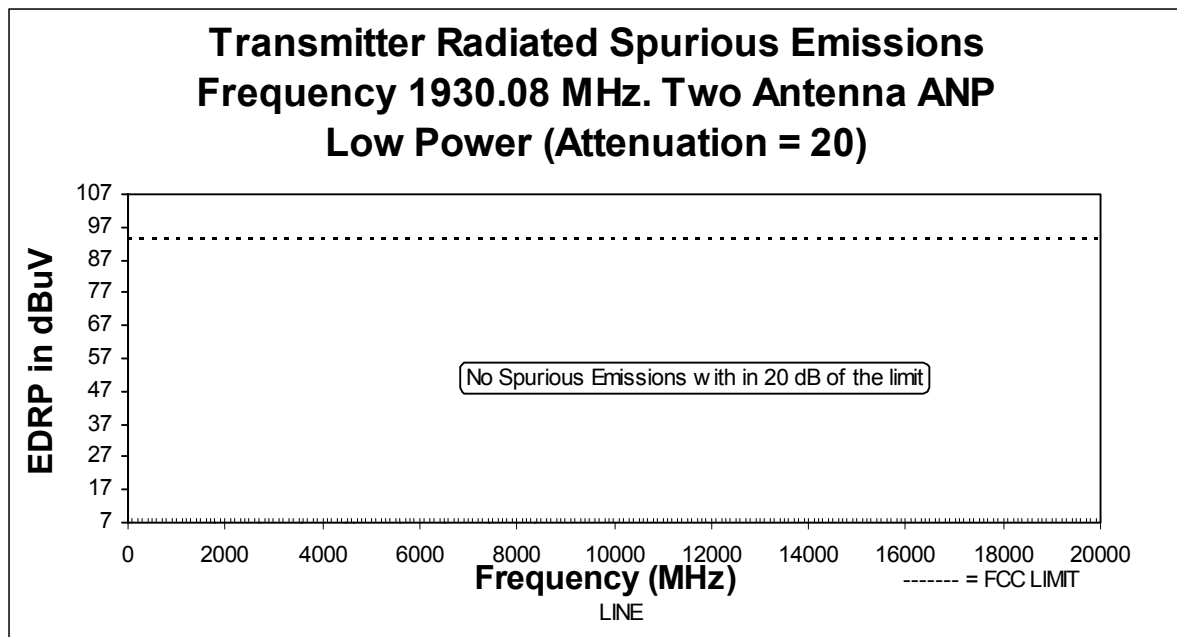
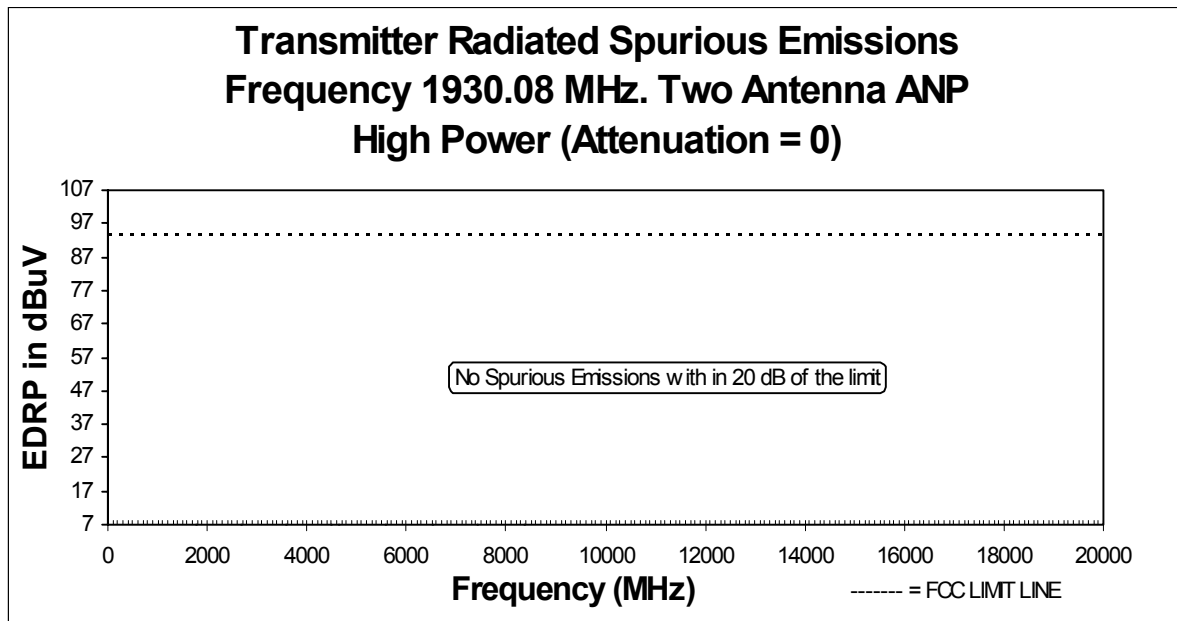


Transmitter Conducted Spurious Emissions
Frequency 1949.97 MHz. Four Antenna ANP
Low Power (Attenuation = 20)



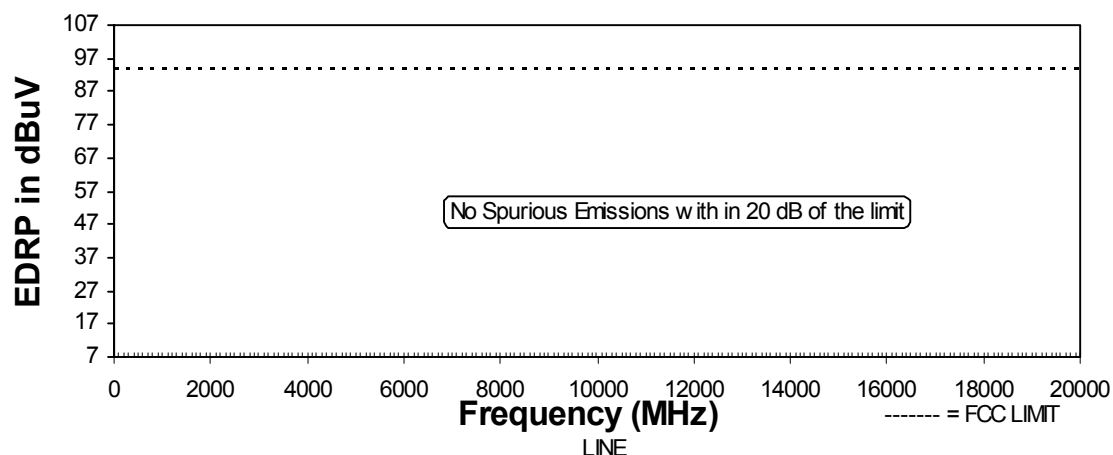
TEST REPORT

Transmitter Field Strength Measurements:

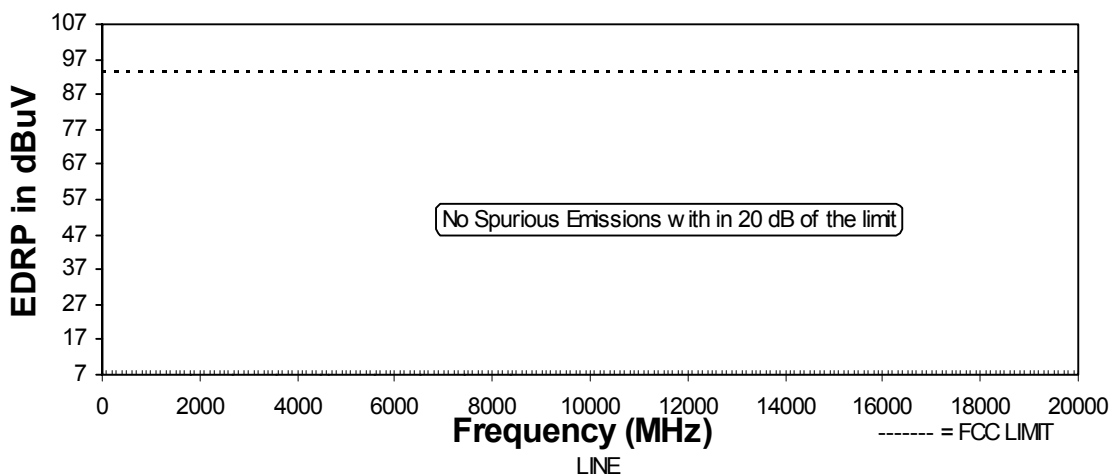


TEST REPORT

**Transmitter Radiated Spurious Emissions
Frequency 1949.97 MHz. Two Antenna ANP
High Power (Attenuation = 0)**

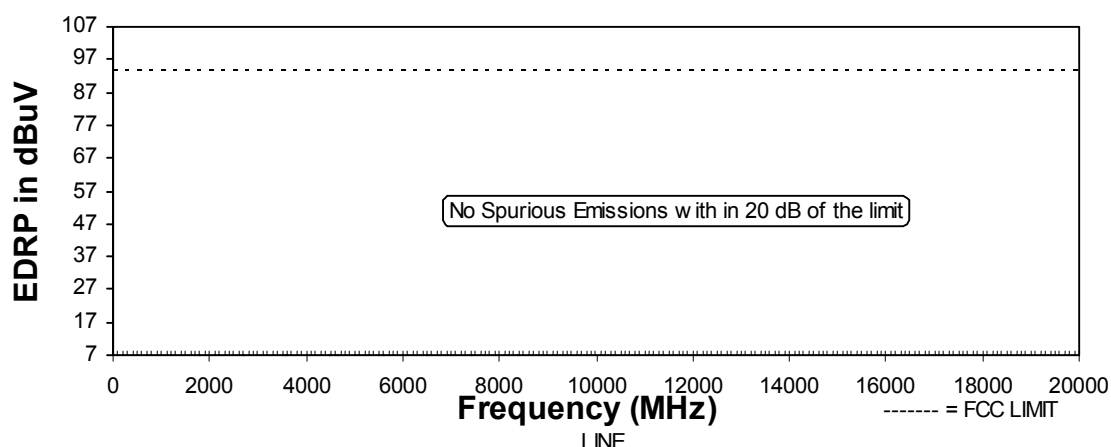


**Transmitter Radiated Spurious Emissions
Frequency 1949.97 MHz. Two Antenna ANP
Low Power (Attenuation = 20)**

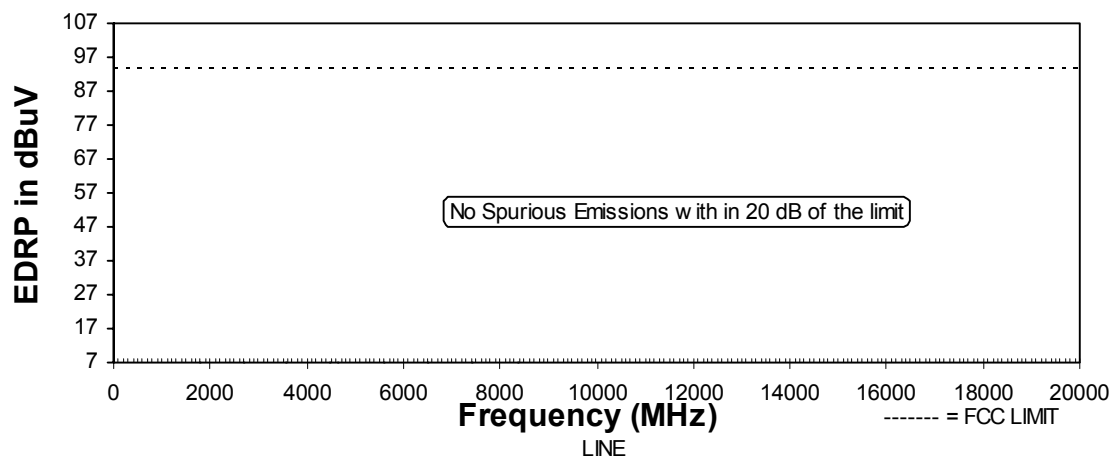


TEST REPORT

**Transmitter Radiated Spurious Emissions
Frequency 1930.08 MHz. Four Antenna ANP
High Power (Attenuation = 0)**

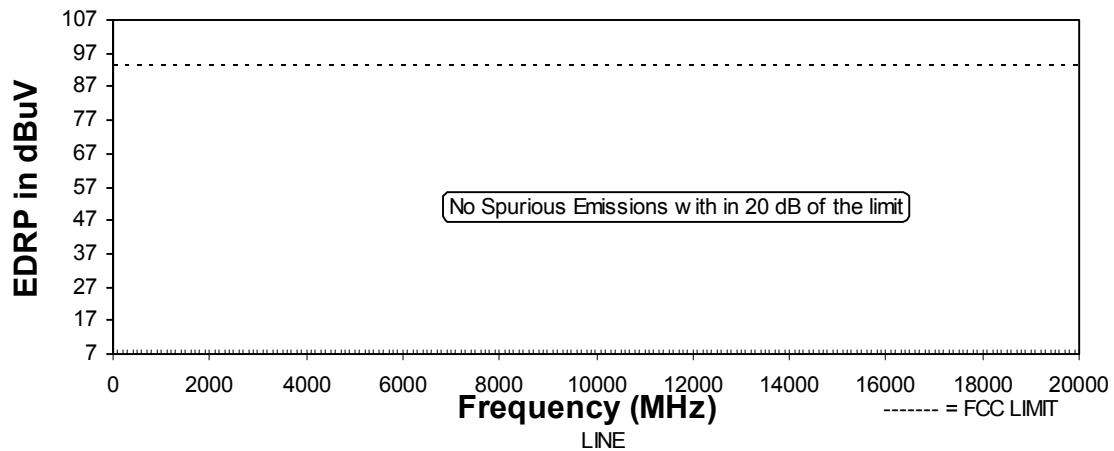


**Transmitter Radiated Spurious Emissions
Frequency 1930.08 MHz. Four Antenna ANP
Low Power (Attenuation = 20)**

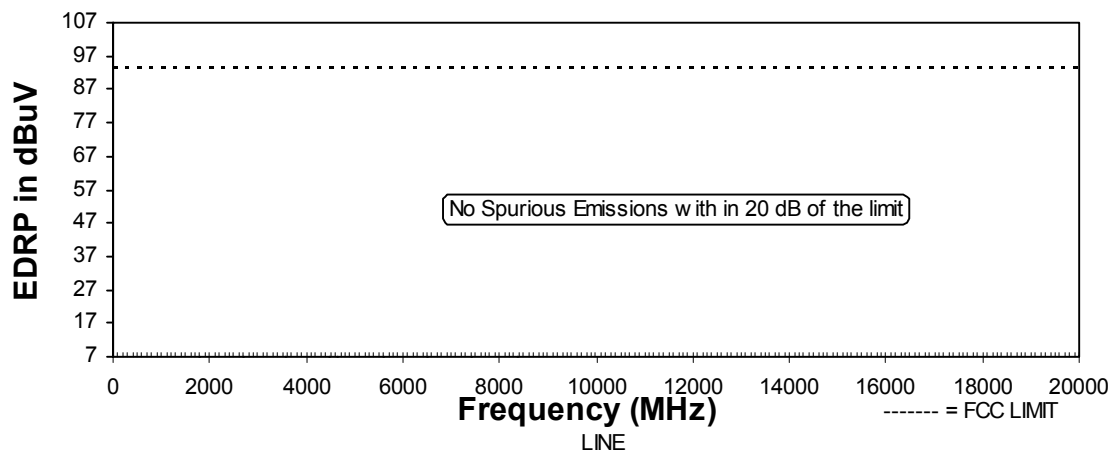


TEST REPORT

**Transmitter Radiated Spurious Emissions
Frequency 1949.97 MHz. Four Antenna ANP
High Power (Attenuation = 0)**



**Transmitter Radiated Spurious Emissions
Frequency 1949.97 MHz. Four Antenna ANP
Low Power (Attenuation = 20)**



APPLICANT:
Ericsson Inc.

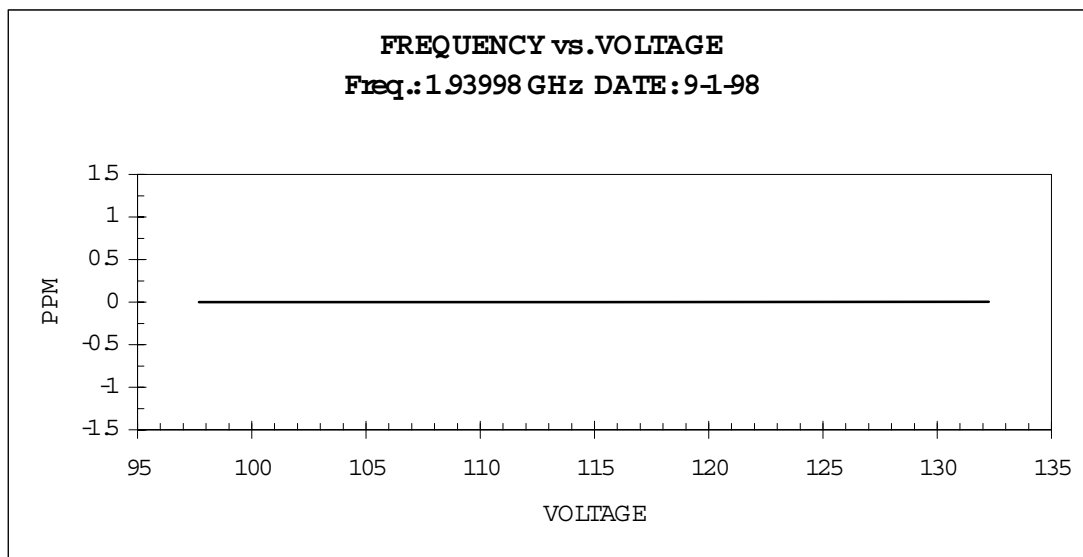
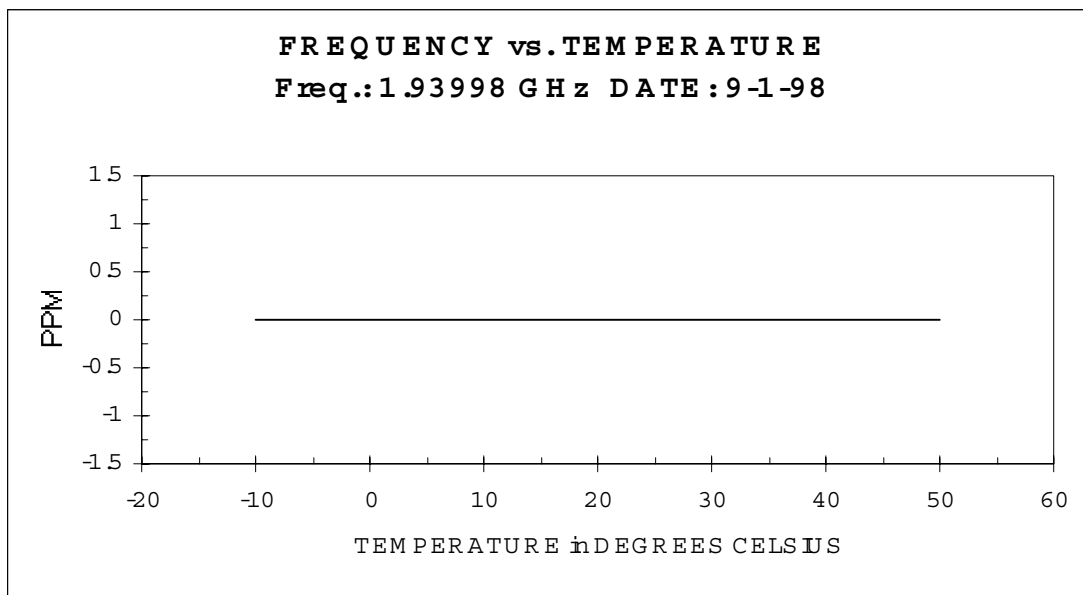
2.1033(14)
FCC ID Number:
AXAKRC12106-1

TEST REPORT

2.1055 Frequency Stability

Variations of output frequency as a result of either temperature or voltage variations is reported below:

The measurements were taken per CFR Title 47 Part 2.1055.



Equipment Used:

HP 53132A Universal Counter
HP 6813A AC Power Source / Analyzer
ESPEC EMX612PA Temperature Chamber