

**KTL Test Report:** 0R02313.1

**Applicant:** Audisoft Technologie  
788 Rue Louis Normandin  
Boucherville, Quebec  
J4B 3X3

**Equipment Under Test:** Transmitter

**In Accordance With:** FCC Part 15, Subpart C, 15.237 & 15.249

**Tested By:** KTL Ottawa Inc.  
3325 River Road, R.R. 5  
Ottawa, Ontario K1V 1H2

**Authorized By:**



G. Westwell, Technologist

**Date:** October 24, 2000

**Total Number of Pages:** 14

**Authorized Copy:** Soft Copy

---

**Table Of Contents**

<b>Section 1. Summary Of Test Results.....</b>	<b>3</b>
<b>Section 2. General Equipment Specification .....</b>	<b>5</b>
<b>Section 3. Radiated Emissions.....</b>	<b>9</b>
<b>Section 4. Test Equipment List .....</b>	<b>11</b>
<b>Annex A Test Diagrams.....</b>	<b>A1</b>

**Section 1. Summary Of Test Results****General**

All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 15.249. All tests were conducted using measurement procedure ANSI C63.4-1992. Radiated Emissions were made on an open area test site.

<input checked="" type="checkbox"/>	New Submission	<input checked="" type="checkbox"/>	Production Unit			
<input type="checkbox"/>	Class II Permissive Change	<input type="checkbox"/>	Pre-Production Unit			
<table><tr><td>G</td><td>A</td><td>T</td></tr></table>	G	A	T	Equipment Code		
G	A	T				

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See "Summary of Test Data".



**NVLAP LAB CODE: 100351-0**

A handwritten signature in blue ink that appears to read "Russell Grant".

TESTED BY:

Russell Grant, Wireless Group Manager

DATE: October 24, 2000

KTL Ottawa Inc. authorizes the above named company to reproduce this report provided it is reproduced in its entirety and for use by the company's employees only.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. KTL Ottawa Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

This report applies only to the items tested.

**Summary Of Test Data**

Name Of Test	Para. No.	Result
Conducted Emissions	15.207	N/A
Radiated Emissions	15.237, 15.249	Complies

**Footnotes For N/A's:**

Batteries

**Section 2. General Equipment Specification**

**Manufacturer:** Audisoft Technologies

**Model No.:** Transmitter

**Date Received In Laboratory:** October 19, 2000

**KTL Identification No.:** Item # 41

**Frequency Range:** Audio: 72.0-73.0 MHz, 74.6-74.8 MHz, 75.2-76.0 MHz  
Video: 906.0 MHz, 914.9 MHz Fixed

**Tunable Bands:** 3 + 2 Fixed Frequencies

**Emission Designator:** 5K60F3E, 340KA3F

**Integral Antenna**      **Yes**       **No**

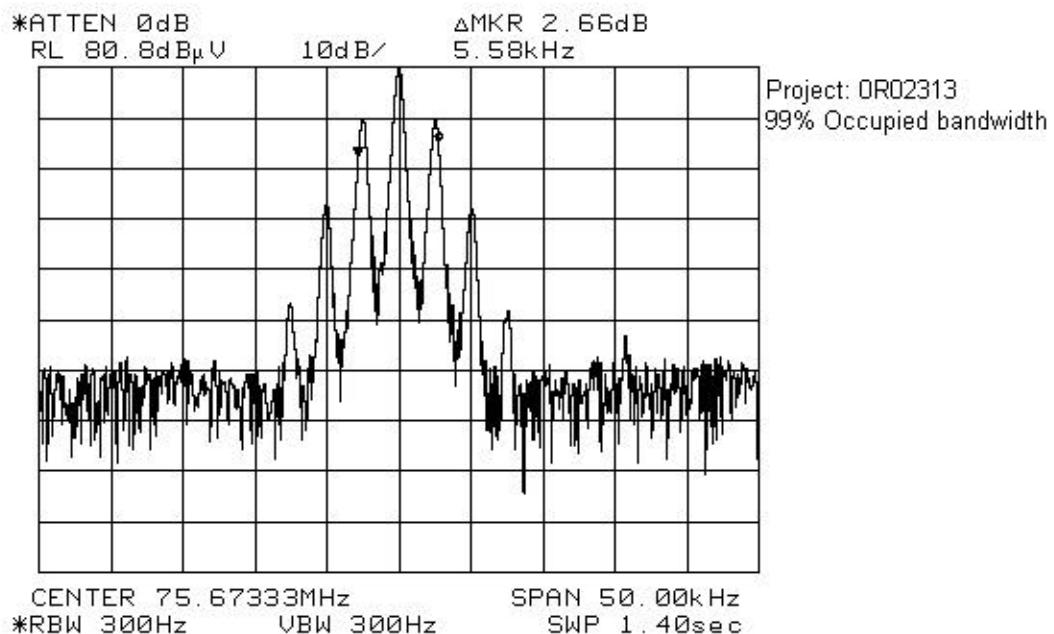
**Note:** If antenna is not integral to transmitter explain method of attachment and type of unique connector:

**KTL Ottawa**

FCC PART 15, SUBPART C  
PROJECT NO.: 0R02313.1

*EQUIPMENT: Transmitter*

---

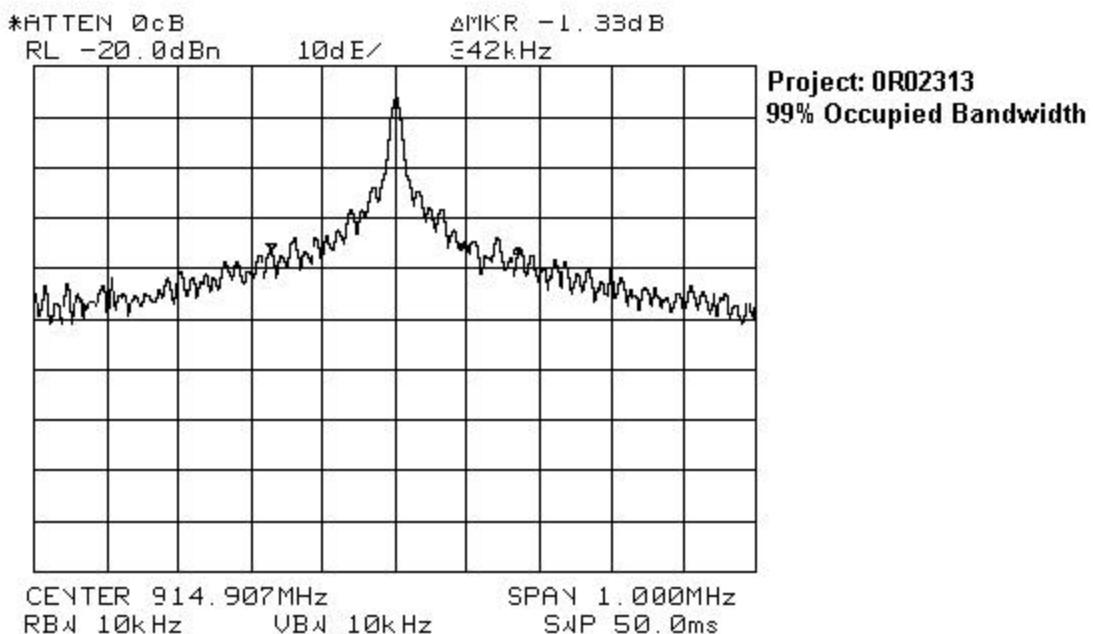


**KTL Ottawa**

FCC PART 15, SUBPART C  
PROJECT NO.: 0R02313.1

*EQUIPMENT: Transmitter*

---

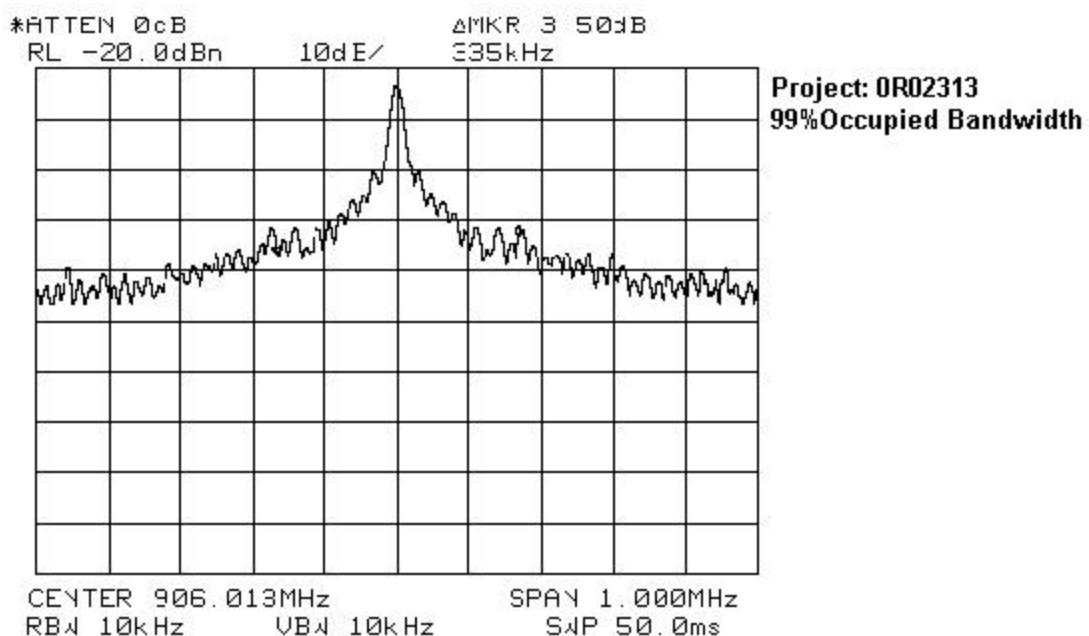


**KTL Ottawa**

FCC PART 15, SUBPART C  
PROJECT NO.: 0R02313.1

*EQUIPMENT: Transmitter*

---



**Section 3. Radiated Emissions****Para. No.: 15.237, 15.249****Test Performed By:** Russell Grant**Date of Test:** October 19, 2000**Minimum Standard:** Para no. 15.237 & 15.249

The field strengths shall not exceed the following:

<b>Fundamental (MHz)</b>	<b>Field Strength (mV/m)</b>	<b>Field Strength (dB<math>\mu</math>V)</b>	<b>Harmonic (mV/m)</b>	<b>Harmonic (dB<math>\mu</math>V)</b>
902-928	50	94	0.5	54
72-76	80	98.1	1.5	63.5

**Test Results:** Complies. The worst-case emission level is 52.5 dB $\mu$ V/m @ 3m at 1812 MHz. This is 1.5 dB below the specification limit.**Measurement Data:** See attached table.**Maximizing Emission Levels:**

For hand held equipment or equipment that may be mounted in a variety of positions, the E.U.T. was tested on three orthogonal axis to determine orientation of worst-case emission levels.

*EQUIPMENT: Transmitter***Test Data - Radiated Emissions**

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP		RBW(kHz): 120/1000		Detector: Peak	
Freq. (MHz)	Ant. *	Pol. (V/H)	RCVD Signal (dB $\mu$ V/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
72.124	B/C1	V	82.5	9.2			91.7	98.1	6.4
72.124	B/C1	H	79.2	9.2			88.4	98.1	9.7
144.248	B/C1	V	28.2	13.8			42.0	63.5	21.5
144.248	B/C1	H	31.8	13.8			45.6	63.5	17.9
216.372	B/C1	V	24.2	17.0			41.2	63.5	22.3
216.372	B/C1	H	28.4	17.0			45.4	63.5	18.1
75.676	B/C1	V	83.0	8.2			91.2	98.1	6.9
75.676	B/C1	H	78.0	8.2			86.2	98.1	11.9
151.35	B/C1	V	32.6	13.9			46.5	63.5	17.0
151.35	B/C1	H	36.0	13.9			49.9	63.5	13.6
227.026	B/C1	V	14.4	17.5			31.9	63.5	31.6
227.026	B/C1	H	21.7	17.5			39.2	63.5	24.3
906.0	E/D4	V	56.8	32.5			89.3	94.0	4.7
906.0	E/D4	H	54.1	32.5			86.6	94.0	7.4
1812.0	Hrn2	V	67.5	33.1	-48.1		52.5	54.0	1.5
1812.0	Hrn2	H	64.5	33.1	-48.1		49.5	54.0	4.5
2718.0	Hrn2	V	63.8	38.0	-60.0		41.8	54.0	12.2
2718.0	Hrn2	H	60.2	38.0	-60.0		38.2	54.0	15.8
3624.0	Hrn2	V	56.2	41.3	-57.4		40.1	54.0	13.9
3624.0	Hrn2	H	56.5	41.3	-57.4		40.4	54.0	13.6
4530.0	Hrn2	V	59.0	43.6	-55.5		47.1	54.0	6.9
4530.0	Hrn2	H	58.8	43.6	-55.5		46.9	54.0	7.1
914.9	E/D4	V	56.2	32.5			88.7	94.0	5.3
914.9	E/D4	H	50.0	32.5			82.5	94.0	11.5
4574.4	Hrn2	V	47.8	43.8	-55.5		36.1	54.0	17.9
4574.4	Hrn2	H	49.2	43.8	-55.5		37.5	54.0	16.5
5489.3	Hrn2	V	35.2	46.9	-53.6		28.5	54.0	25.5
5489.3	Hrn2	H	39.0	46.9	-53.6		32.3	54.0	21.7
1829.9	Hrn2	V	65.2	33.2	-48.1		50.3	54.0	3.7
1829.9	Hrn2	H	59.8	33.2	-48.1		44.9	54.0	9.1
2744.6	Hrn2	V	69.7	38.1	-60.0		47.8	54.0	6.2
2744.6	Hrn2	H	72.2	38.1	-60.0		50.3	54.0	3.7
3659.5	Hrn2	V	54.5	41.4	-57.6		38.3	54.0	15.7
3659.5	Hrn2	H	58.2	41.4	-57.6		42.0	54.0	12.0

**Notes:**

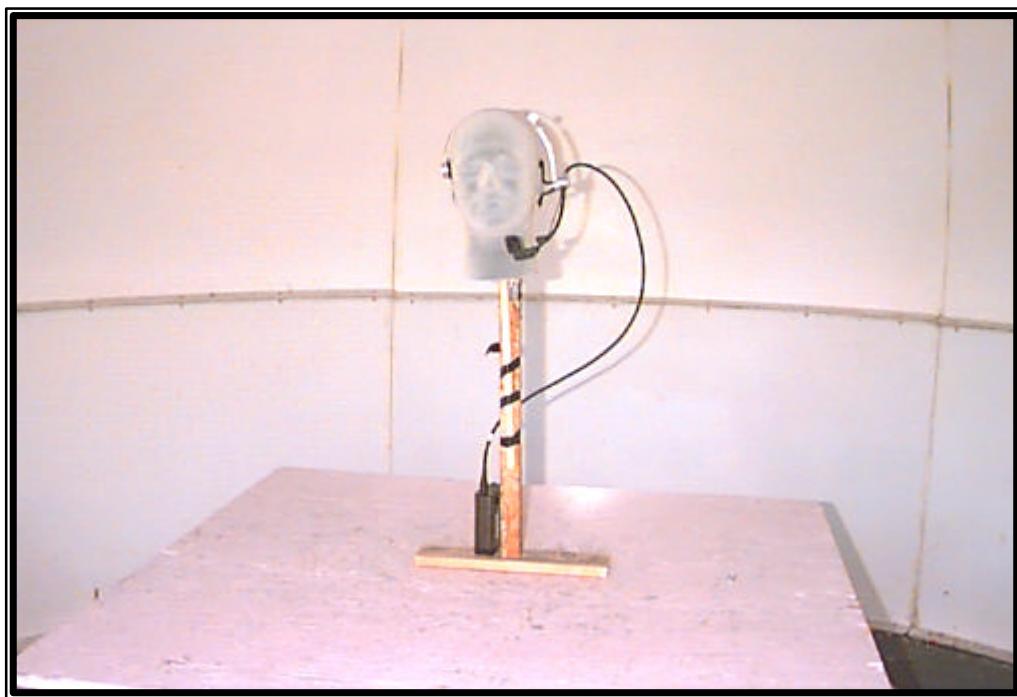
B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole  
\* Re-measured using dipole antenna.  
\*\* Includes cable loss when amplifier is not used.  
\*\*\* Includes cable loss.  
() Denotes failing emission level.  
N.D. = Not Detected

*EQUIPMENT: Transmitter*

---

**Radiated Photographs**

**Front View**



**Section 4. Test Equipment List**

CAL CYCLE	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL.	NEXT CAL.
1 Year	Spectrum Analyzer	Hewlett Packard	8565E	FA000981	June 16/00	June 16/01
1 Year	Receiver	Rohde & Schwarz	ESVP	892661/014	April 5/00	April 5/01
1 Year	Horn Antenna	EMCO #2	3115	4336	Nov. 11/99	Nov. 11/00
1 Year	Dipole Antenna Set	EMCO #2	3121C	FA001349	June 27/00	June 27/01
1 Year	Biconical (1) Antenna	EMCO	3109	9204-2708	Aug. 4/99	Aug. 4/00

NA: Not Applicable

NCR: No Cal Required

COU: CAL On Use

**KTL Ottawa**

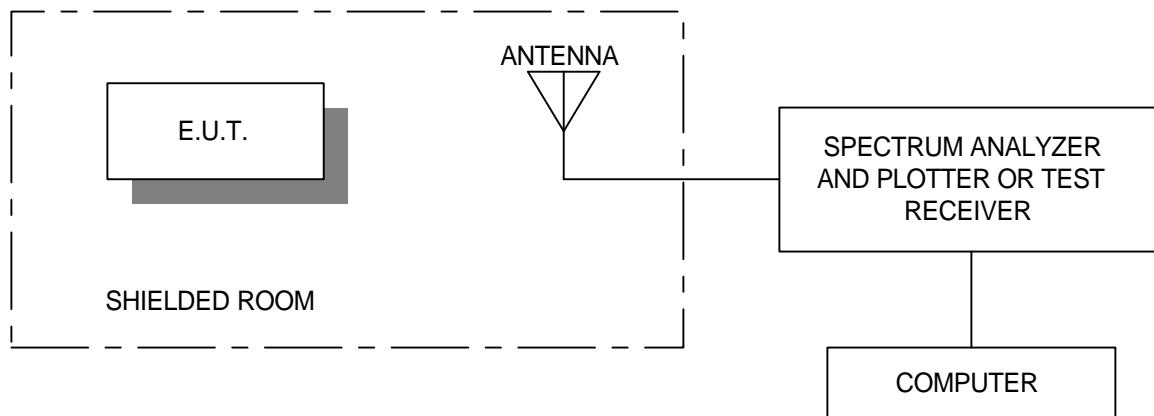
FCC PART 15, SUBPART C  
PROJECT NO.: 0R02313.1  
ANNEX A

*EQUIPMENT: Transmitter*

---

## **Annex A**

### **Test Diagrams**

*EQUIPMENT: Transmitter***Radiated Prescan****Test Site For Radiated Emissions**