Test Report:	1004257
Applicant:	Instantel Inc. 309 Legget Drive Kanata, Ontario K2K 3A3
Equipment Under Test: (EUT)	VHF Receiver
FCC ID:	ISEDLR
In Accordance With:	FCC Part 15, Subpart B, 15.109
Tested By:	Nemko Canada Inc. 3325 River Road, R.R. 5 Ottawa, Ontario K1V 1H2
Authorized By:	
	G. Westwell, Wireless Technologist
Date:	
Total Number of Pages:	15

EQUIPMENT: VHF Receiver

FCC ID: ISEDLR

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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, Subpart B. Measurement procedure ANSI C63.4-1992 was used for all tests. Radiated Emissions were measured on an open area test site. A description of the test facility is on file with the FCC.

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

DATE: TESTED BY: Russell Grant, Wireless Group Manager

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This report applies only to the items tested.

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Summary Of Test Data

Name Of Test	Para. No.	Results
Antenna Conducted Emissions	15.111	Complies
Radiated Emissions	15.109	Complies
Powerline Conducted Emissions	15.107	N/A

Test Conditions:

Indoor Temperature: 20 °C

Humidity: 52 %

Outdoor Temperature: 15 °C

Humidity: 51 %

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Section 2. General Equipment Specification

Manufacturer: Instantel Inc.

Model No.: None

Serial No.: 301128 0012

Date Received In Laboratory: July 26, 2001

Nemko Identification No.: Item #6

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Section 3. Receiver Antenna Conducted Emissions

Para. No.: 15.111

Test Performed By: Russell Grant **Date of Test:** July 26, 2001

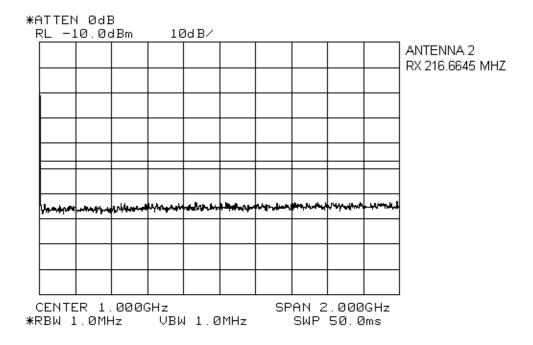
Minimum Standard: 2 nW

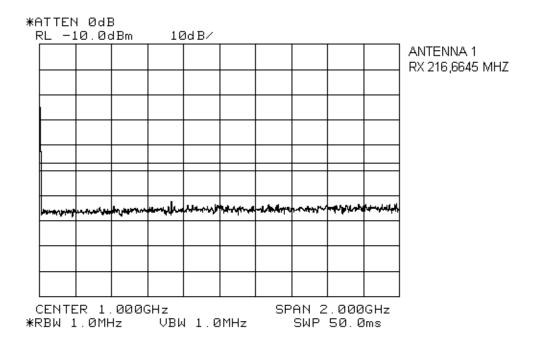
Test Results: Complies.

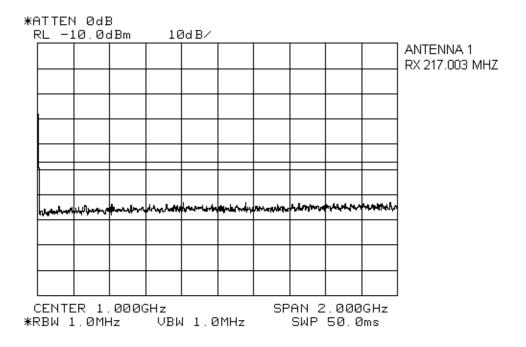
Measurement Data: See attached graphs.

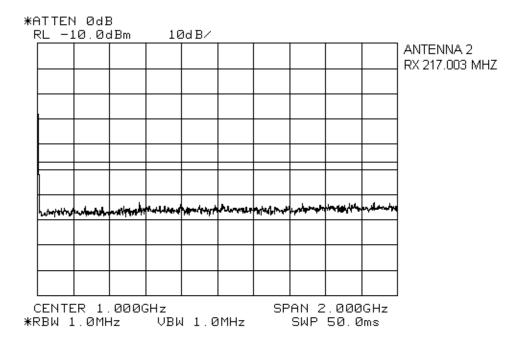
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Section 4. Radiated Emissions

Para. No.: 15.109(a)

Minimum Standard:

Frequency(MHz)	Field Strength (dBµV/m @ 3m)
30 - 88	40.0
88 - 216	43.5
216 - 960	46.0
Above 960	54.0

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Test Results: Complies.

Measurement Data: See attached table.

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Test Data - Radiated Emissions

			Range: Recei A Tower ESV			RBW(kHz): 120		Detector: Q-Peak	
Freq. (MHz)	Ant. *	Pol. (V/H)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Rx 217.003MHz									
262.003	B/C1	V	1.2	19.2			20.4	46.0	25.6
262.003	B/C1	Н	6.4	19.2			25.6	46.0	20.4
Rx 216.6645MHz									
261.664	B/C1	V	3.0	19.1			22.1	46.0	23.9
261.664	B/C1	Н	8.0	19.1			27.1	46.0	18.9

Notes:

Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole

Re-Measured Using Dipole Antenna. () Denotes Failing Emission Level.

- (1) 120 kHz, Q-Peak,
- (2) 10 kHz, Peak,
- (3) 100 kHz RGW, 300 kHz VBW, Peak,
- (4) 300 kHz RBW, 1 MHz VBW, Peak,
- (5) 1 MHz RBW, 3 MHz VBW, Peak,
- (6) 1 MHz RBW, 10 Hz VBW, Peak

N.D. = Not Detected

The spectrum was searched up to 2GHz. All emissions within 20dB of the limit were measured and reported.

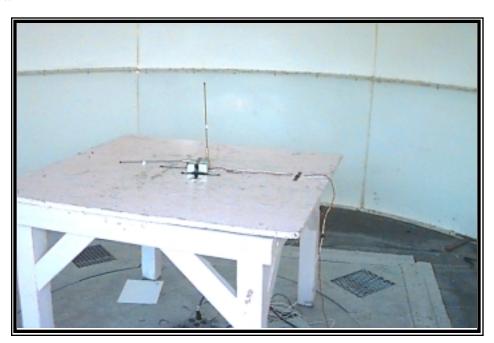
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Radiated Photographs

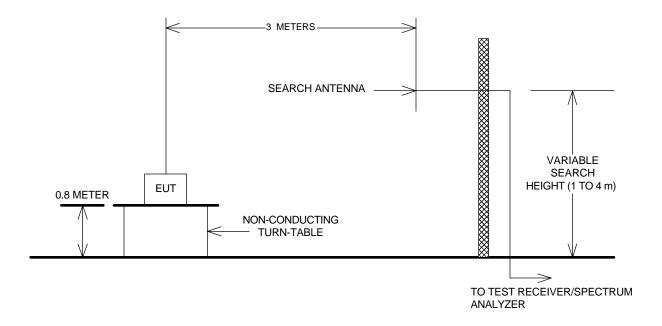
Front View



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Section 5. Block Diagrams

Outdoor Test Site For Radiated Emissions



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Section 6. Test Equipment List

CAL CYCLE	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL.	NEXT CAL.
1 Year	Spectrum Analyzer	Hewlett Packard	8565E	FA000981	June 08/01	June 08/02
1 Year	Horn Antenna	EMCO #1	3115	3132	Dec. 11/00	Dec. 11/01
1 Year	Log Periodic Antenna 1	EMCO	LPA-25	1141	Aug. 3/00	Aug. 3/01
1 Year	Biconical (1) Antenna	EMCO	3109	9204-2708	Aug. 10/00	Aug. 10/01
1 Year	RF AMP	JCA	1-2 GHz	FA001498	May 31/01	May 31/02

NA: Not Applicable NCR: No Cal Required COU: CAL On Use

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