

KTL Test Report: 0R02169

Applicant: Internet Security Lifeguard Inc.
2005, 3rd Avenue
Lachine, Quebec
H8T 1X1

Equipment Under Test: EMU 1000
(E.U.T.)

FCC ID: OQNEMU1000

In Accordance With: **FCC Part 15, Subpart B**
Radio Receivers

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

Authorized By: R. Grant, Wireless Group Manager

Date:

Total Number of Pages: 15

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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.



New Submission



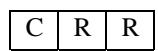
Production Unit



Class II Permissive Change



Pre-Production Unit



Equipment Code

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****TESTED BY:** _____ **DATE:** _____
Kevin Carr, Technologist

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This report applies only to the items tested.

KTL Ottawa

FCC PART 15, SUBPART B
RADIO RECEIVERS
PROJECT NO.: 0R02169

EQUIPMENT: EMU 1000
FCC ID: OONEMU1000

Summary Of Test Data

Name Of Test	Para. No.	Results
Antenna Conducted Emissions	15.111	Not Applicable
Radiated Emissions	15.109	Complies
Powerline Conducted Emissions	15.107	Complies

Footnotes For N/A's:

Test Conditions:

Indoor Temperature: 24 °C
 Humidity: 40 %

Outdoor Temperature: 24 °C
 Humidity: 40 %

Section 2. General Equipment Specification

Manufacturer: Internet Security Lifeguard

Model No.: EMU 1000

Serial No.: 3

Date Received In Laboratory: June 6, 2000

KTL Identification No.: Item #2

Frequency Range: 303 MHz Fixed

Number of Channels: 1

Operating Frequency(ies) of Sample: 303 MHz

Primary Power Requirement: 120 VAC, 60 Hz to 12 Vdc Power Cube
In addition the E.U.T. contains a non-rechargeable
12 Vdc Battery

EQUIPMENT: EMU 1000
FCC ID: OQNEMU1000

Section 3. Radiated Emissions

Para. No.: 15.109(a)

Test Performed By: Kevin Carr	Date of Test: June 7, 2000
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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

Test Results: Complies. The worst-case emission level is 35.0 dB μ V/m @ 3m at 290.6 MHz. This is 11.0 dB below the specification limit.

Measurement Data: See attached table.

For super-regenerative receivers the receiver is cohersed using a signal generator and dipole antenna.

Handheld equipment and equipment not designed to be mounted in any fixed orientation, the E.U.T. is tested in three orthogonal axis to obtain worst case results.

EQUIPMENT: EMU 1000
FCC ID: OQNEMU1000

Test Data - Radiated Emissions

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP		RBW(kHz): 120		Detector: Q-Peak	
Freq. (MHz)	Ant. *	Pol. (V/H)	RCVD Signal (dB μ V/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
291.9	B/C1	V	4.8	22.1			26.9	46.0	19.1
291.9	B/C1	H	8.9	22.1			31.0	46.0	15.0
295.1	B/C1	V	6.0	22.4			28.4	46.0	17.6
295.1	B/C1	H	4.0	22.4			26.4	46.0	19.6
290.6	B/C1	V	13.0	22.0			35.0	46.0	11.0
290.6	B/C1	H	7.2	22.0			29.2	46.0	16.8
297.3	B/C1	V	10.0	22.6			32.6	46.0	13.4
297.3	B/C1	H	10.8	22.6			33.4	46.0	12.6
298.2	B/C1	V	1.2	22.7			23.9	46.0	22.1
298.2	B/C1	H	1.5	22.7			24.2	46.0	21.8
301.2	L/P	V	2.0	18.5			20.5	46.0	25.5
301.2	L/P	H	-3.8	18.5			14.7	46.0	31.3
303.846	L/P	V	6.0	18.5			24.5	46.0	21.5
303.846	L/P	H	10.4	18.5			28.9	46.0	17.1
308.232	L/P	V	-1.0	18.5			17.5	46.0	28.5
308.1	L/P	H	12.0	18.5			30.5	46.0	15.5
314.0	L/P	V	2.8	18.5			21.3	46.0	24.7
314.0	L/P	H	8.6	18.5			27.1	46.0	18.9
607.692	L/P	V	-3.3	24.4			21.1	46.0	24.9
607.692	L/P	H	-3.4	24.4			21.0	46.0	25.0
607.7	L/P	V	-3.0	24.4			21.4	46.0	24.6
607.7	L/P	H	-3.4	24.4			21.0	46.0	25.0
911.538	L/P	V	-3.3	29.6			26.3	46.0	19.7
911.538	L/P	H	-3.4	29.6			26.2	46.0	19.8
983.7	L/P	V	-1.0	31.3			30.3	54.0	23.7
983.7	L/P	H	-2.5	31.3			28.8	54.0	25.2
998.8	L/P	V	-1.0	31.5			30.5	54.0	23.5
998.8	L/P	H	-1.1	31.5			30.4	54.0	23.6

Notes:

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

The spectrum was searched up to 2000 MHz and all emissions within 20 dB of the specification limit were measured and reported.

KTL Ottawa

FCC PART 15, SUBPART B
RADIO RECEIVERS
PROJECT NO.: 0R02169

EQUIPMENT: EMU 1000
FCC ID: OQNEMU1000

Radiated Photographs

Front View



Rear View



*EQUIPMENT: EMU 1000**FCC ID: OQNEMU1000*

Section 4. Powerline Conducted Emissions**Para. No.: 15.107**

Test Performed By: Kevin Carr	Date of Test: June 7, 2000
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Minimum Standard: The RF energy feed back into the power lines shall not exceed 48 dB μ V on any frequency between 0.45 MHz and 30 MHz inclusive.

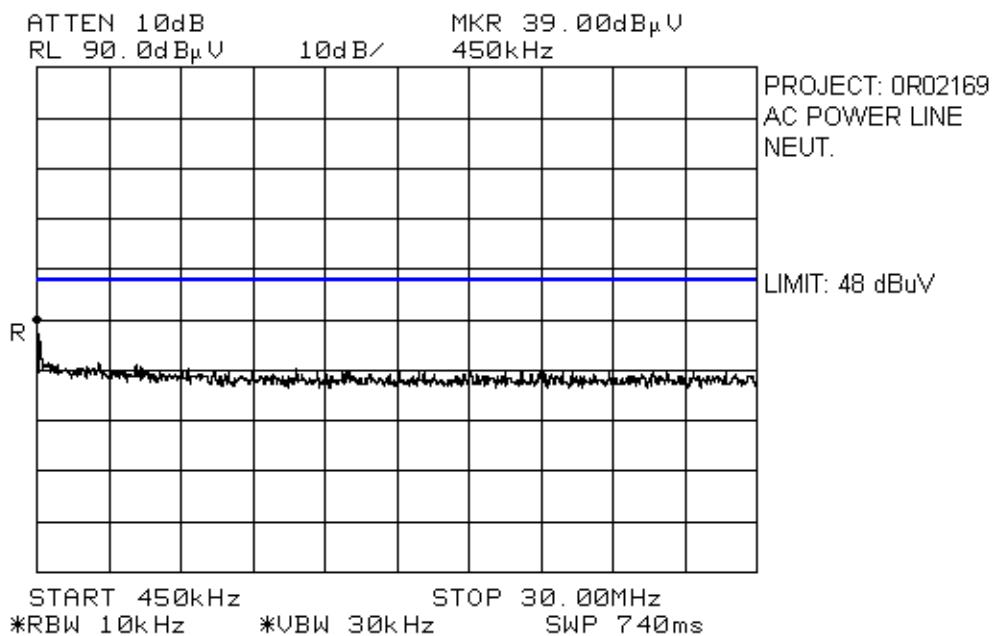
Test Results: Complies. See attached graphs.

Measurement Data: See attached graphs.

KTL Ottawa

FCC PART 15, SUBPART B
RADIO RECEIVERS
PROJECT NO.: 0R02169

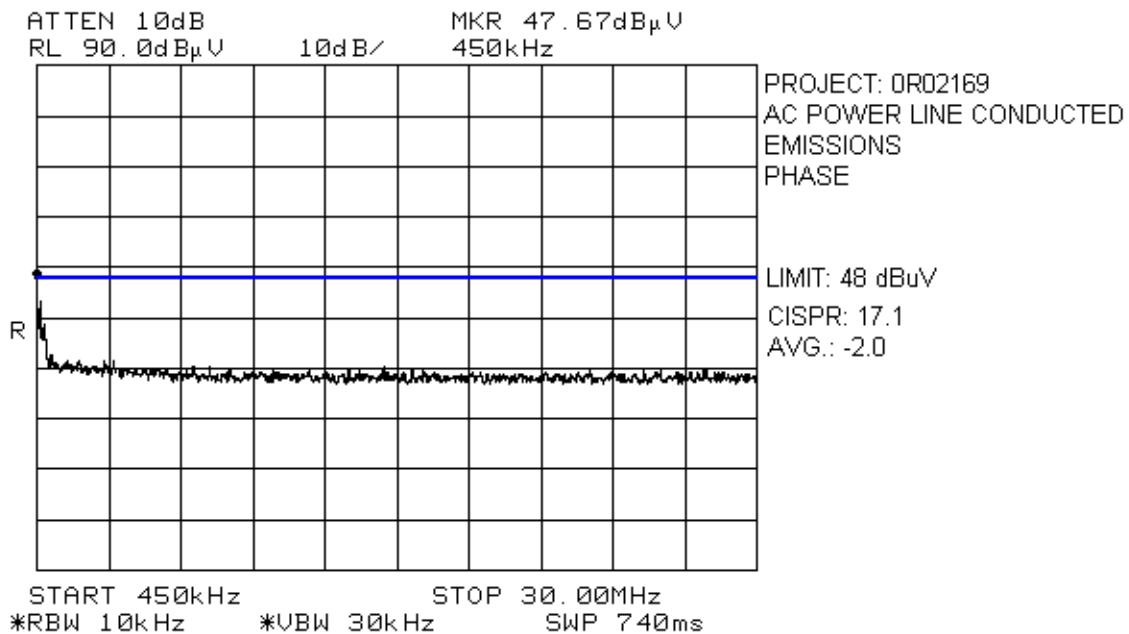
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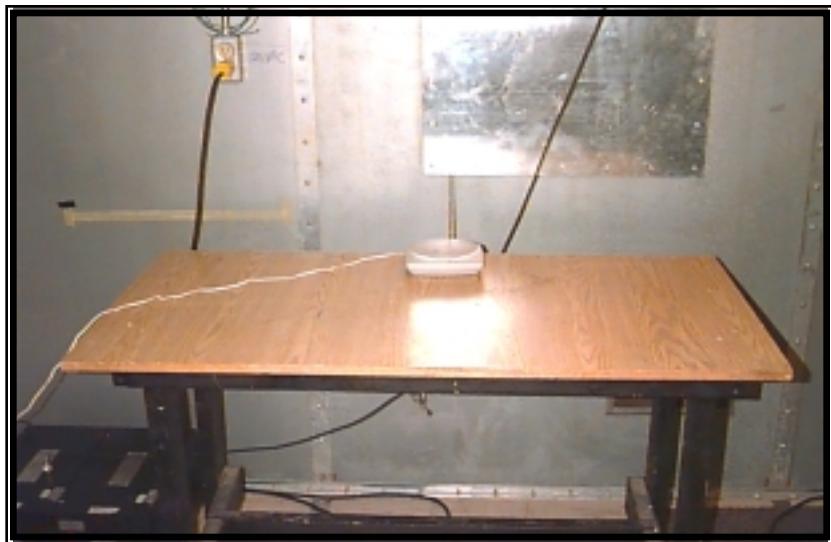
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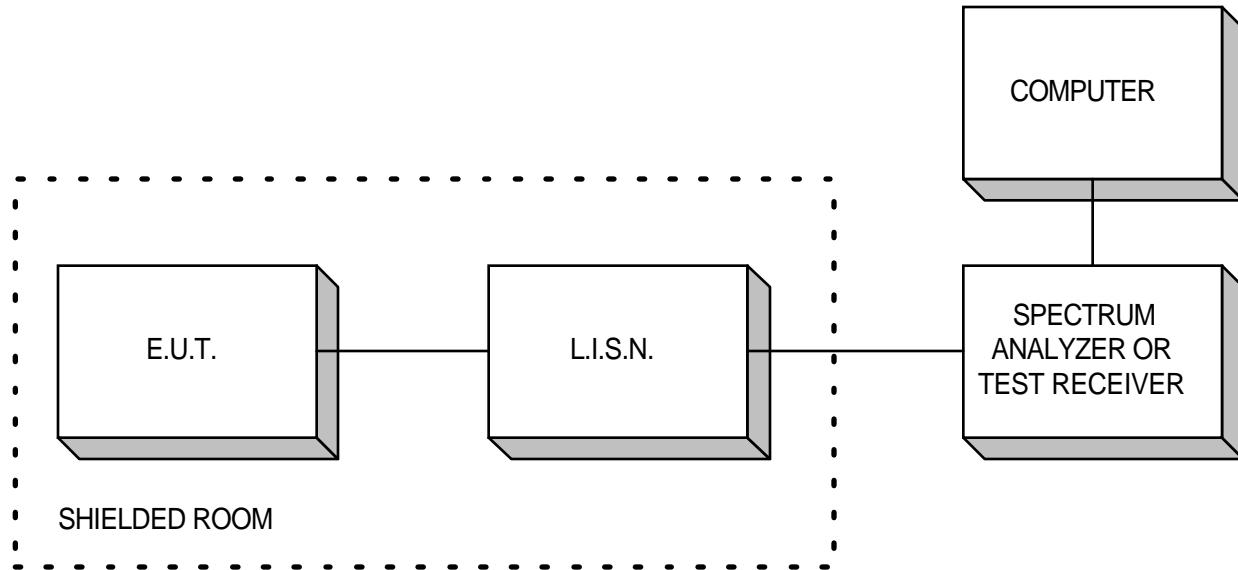
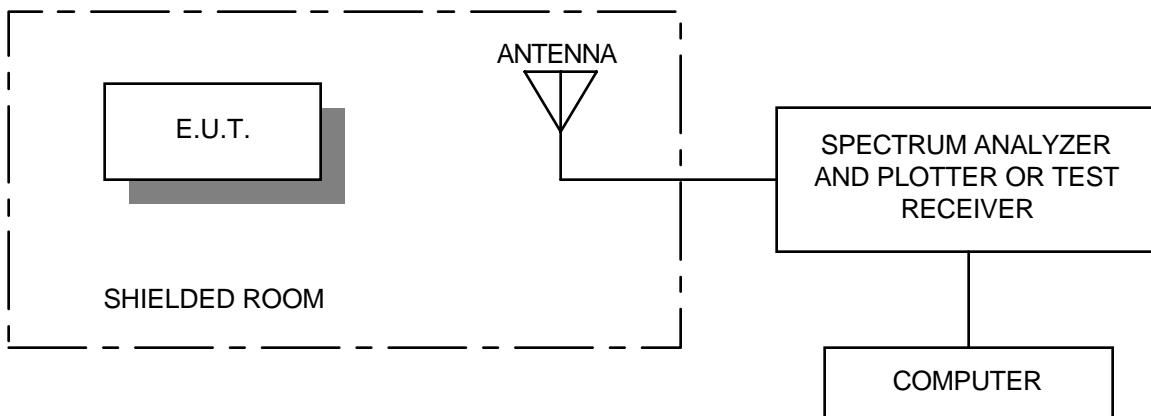
Powerline Conducted Photographs

Side View

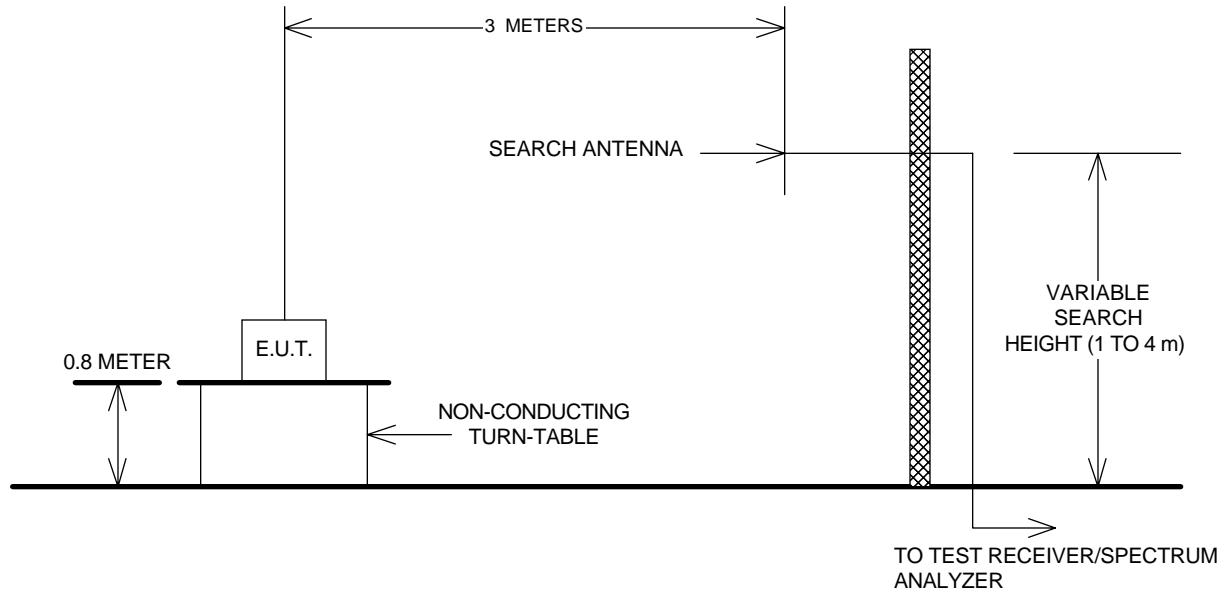


Front View



Section 5. Block Diagrams**Conducted Emissions****Radiated Prescan**

EQUIPMENT: EMU 1000
FCC ID: OQNEMU1000

Outdoor Test Site For Radiated Emissions

EQUIPMENT: EMU 1000**FCC ID: OQNEMU1000**

Section 6. Test Equipment List

CAL CYCLE	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL.	NEXT CAL.
1 Year	Spectrum Analyzer	Hewlett Packard	8564E	3846A01407	May 31/99	May 31/00
1 Year	LISN	Rohde & Schwarz	ESH2-Z5	890485/017	Aug. 24/99	Aug. 24/00
1 Year	Receiver	Rohde & Schwarz	ESH3	892473/002	Nov. 23/99	Nov. 23/00
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 5/00	June 5/01
1 Year	Biconical (1) Antenna	EMCO	3109	9204-2708	Aug. 4/99	Aug. 4/00
1 Year	Biconical (2) Antenna	EMCO	3109	9503-2894	June 11/99	June 11/00
3 Year	Signal Generator	Rohde & Schwarz	SM1Q03	1084-8004-03	Sept. 17/97	Sept. 17/00

NA: Not Applicable

NCR: No Cal Required

COU: CAL On Use