

Test Report:

2W04793

Applicant:

Digital Security Controls LTD.
3301 Langstaff Road
Vaughan, Ontario, L4K 4L2

**Equipment Under Test:
(EUT)**

PC5132XS-433
433MHz Receiver

FCC ID:

F53005132XS433

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:



J. Harrington, RF Group Manager

Date:

4 April 2002

Total Number of Pages:

9

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EQUIPMENT: PC5132XS-433

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”.

TESTED BY: Glen Westwell, Wireless Technologist

DATE: 4 April 2002

Nemko Canada Inc., a testing laboratory, is accredited by the Standards Council of Canada. The tests included in this report are within the scope of this accreditation. The results apply only to the samples tested.

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This report applies only to the items tested.

EQUIPMENT: PC5132XS-433

Summary Of Test Data

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

Test Conditions:**Indoor**

Temperature: 24°C

Humidity: 46%

Outdoor

Temperature: 5°C

Humidity: 48%

EQUIPMENT: PC5132XS-433

Section 2. General Equipment Specification

Manufacturer: Digital Security Controls LTD.

Model No.: PC5132XS-433

Serial No.: #2

Date Received In Laboratory: 22 Feb. 2002

Nemko Identification No.: #2

Receive Frequency: 433.92MHz

Receive L.O.: 423.22MHz

Power: 12Vdc

EQUIPMENT: PC5132XS-433

Section 3. Radiated Emissions

Para. No.: 15.109(a)

Test Performed By: John Stonier	Date of Test: 27 March 2002
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Minimum Standard:

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

Test Results: Complies.

Measurement Data: See attached table.

Test Data - Radiated Emissions

Test Distance (meters) : 3		Range: A		Receiver: EVSP		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)
423.22	LP1	V	18.3	19			37.3	46	8.7
423.22	LP1	H	13.0	19			32	46	14

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.

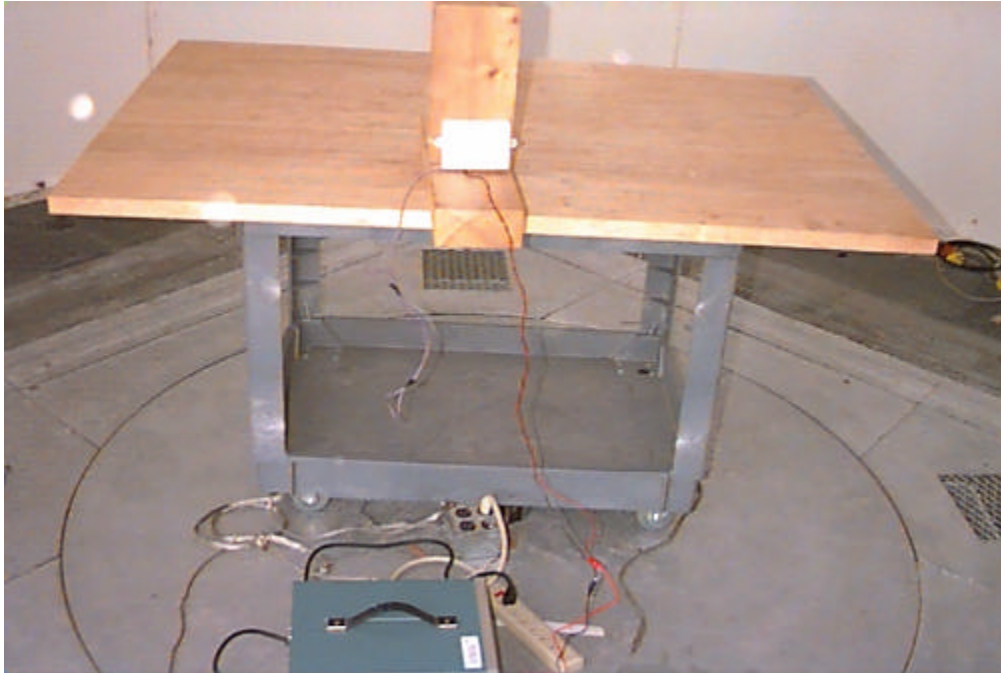
*** Includes cable loss.

() Denotes failing emission level.

N.D. = Not Detected

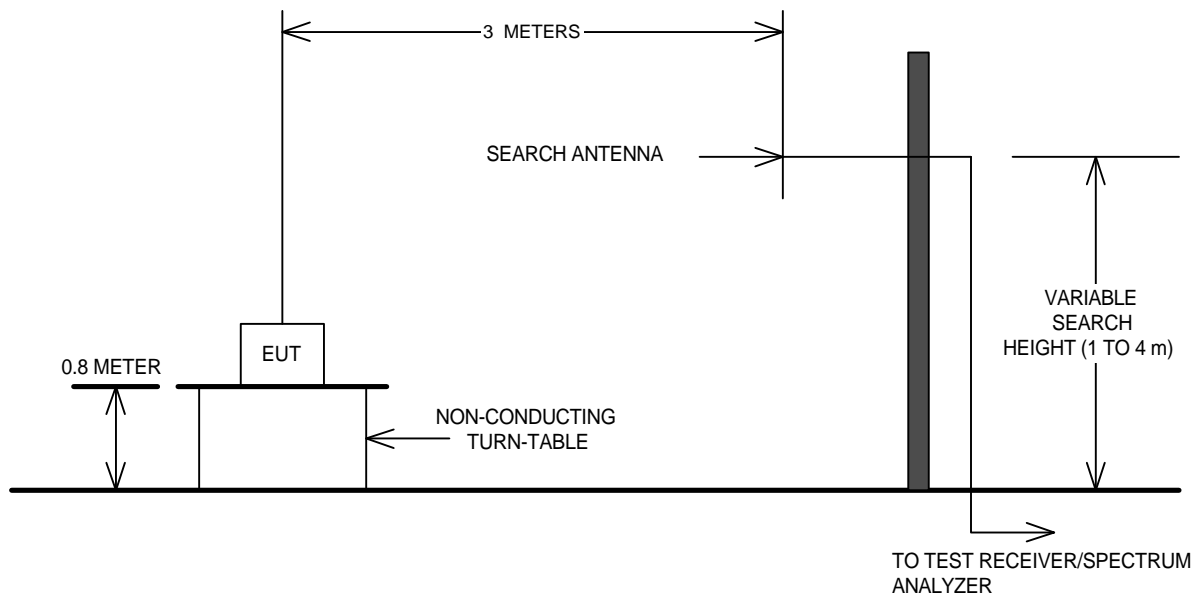
EQUIPMENT: PC5132XS-433

PC5132XS-433 Receiver



Section 6. Block Diagrams

Outdoor Test Site For Radiated Emissions



EQUIPMENT: PC5132XS-433

Section 7. Test Equipment List

CAL CYCLE	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL.	NEXT CAL.
1 Year	Spectrum Analyzer-1	Hewlett Packard	8566B	2311A02238	27 Nov 01	27 Nov 02
1 Year	Spectrum Analyzer Display-1	Hewlett Packard	8566B	2314A04759	27 Nov 01	27 Nov 02
1 Year	Quasi-peak adapter-1	Hewlett-Packard	85650A	2043A00302	27 Nov 01	27 Nov 02
	Plotter	Hewlett Packard	7470A	2308A30807	NCR	NCR
1 Year	LISN	EMCO	4825/2	0002-1/47	9 Oct. 01	9 Oct. 02
1 Year	Receiver	Rohde & Schwarz	ESVP	892661/014	Apr. 3/01	Apr. 3/02
1 Year	Log Periodic Antenna 1	EMCO	LPA-25	1141	Aug. 28/01	Aug. 28/02
1 Year	Spectrum Analyzer	Hewlett Packard	8565E	FA000981	June 8/01	June 8/02

NA: Not Applicable

NCR: No Cal Required

COU: CAL On Use