

Test Report: Applicant:	1W04395 EXI Wireless Systems Inc. Suite 100 – 13551 Commerce Pk. Richmond, B.C. V6V 2L1
Equipment Under Test: (EUT)	R3 Receiver
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:	
	Hulfer
	G. Westwell, Wireless Technologist
Date:	October 26, 2001
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Nemko Canada Inc.

EQUIPMENT: R3 Receiver

Table Of Contents

Section 1.	Summary of Test Results	3
Section 2.	General Equipment Specification	5
Section 3.	Receiver Antenna Conducted Emissions	7
Section 4.	Radiated Emissions	9
Section 5.	Block Diagrams	12
Section 6.	Test Equipment List	13

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".

Russell Grant

Russell Grant, Wireless Group Manager

DATE: October 26, 2001

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.

TESTED BY:

EQUIPMENT: R3 Receiver

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: Humidity:	21 °C 45 %
Outdoor	Temperature: Humidity:	22 °C 56 %

Section 2. General Equipment Specification

Manufacturer:	EXI Wireless Systems Inc.
Model No.:	R3
Serial No.:	1234
Date Received In Laboratory:	October 22, 2001
Nemko Identification No.:	Item #1

Tuned RF Receiver:

433.92 MHz

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EQUIPMENT: R3 Receiver

Test Setup: Block Diagram



Section 3. Receiver Antenna Conducted Emissions

Para. No.: 15.111

Test Performed By: Russell Grant		Date of Test: October 22, 2001
Minimum Standard:	2 nW	
Test Results:	Complies.	
Measurement Data:	See attached graphs.	



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		

Test Results:

Complies.

Measurement Data:

See attached table.

EQUIPMENT: R3 Receiver

Test Data - Radiated Emissions

Test Dist (meters)	ance):3	R A	ange: Tower	Receiv Oth	ver: er	RBW 1	(kHz): 20	Dete Q-P	ctor: eak
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)
95.855	B/C1	V	21.4	9.5			30.9	43.5	12.6
95.855	B/C1	Н	17.1	9.5			26.6	43.5	16.9
Notes: B/C = Bic * Re- ** Inc *** Inc () Der N.D. = Notesting	95.855 B/C1 H 17.1 9.5 26.6 43.5 16.9 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. () Openotes failing emission level. N.D. = Not Detected Volume								
The spectrum was searched from 30 to 2000 MHz and all emissions within 20 dB of the limit were measured and reported.									

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EQUIPMENT: R3 Receiver

Radiated Emissions, Worst Case



Section 5. Block Diagrams

Outdoor Test Site For Radiated Emissions



Antenna Conducted Emissions



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	Receiver	Rohde & Schwarz	ESVP	892661/014	Apr. 3/01	Apr. 3/02
1 Year	Biconical (1) Antenna	EMCO	3109	9204-2708	Aug. 22/01	Aug. 22/02

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