



Test Report: 4W07862.2

Applicant: Gecko Electronics Inc
450 Des Canetons
Quebec, G2E 5W6

Equipment Under Test: IRFMT-1, RF RECEIVER
(EUT)

In Accordance With: FCC PART 15, SUBPART B

Tested By: Nemko Canada Inc.
303 River Road, R.R. 5
Ottawa, Ontario K1V 1H2

Authorized By:

Kevin Carr, EMC/EMI/Wireless Specialist

Date: 18 August 2004

Total Number of Pages: 11

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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 Part 15, Subpart B. All tests were conducted using measurement procedure ANSI C63.4-2001. Radiated emissions are made on an open area test site.

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: _____
Daxesh Thakker, Wireless Test Engineer

DATE: July 21, 2004

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The tests included in this report are within the scope of this accreditation.

Nemko Canada Inc.

FCC Part 15, Subpart B
PROJECT NO.: 4W07862.2

EQUIPMENT: IRFMT-1, RF RECEIVER

Summary Of Test Data

Name of Test	Paragraph Number	Results
Radiated Emissions	15.109 (a)	Complied

Test Conditions:

Indoor Temperature: 22° C
 Humidity: 30 %

Outdoor Temperature: 18° C
 Humidity: 39 %

Section 2. Equipment Under Test**General Equipment Information**

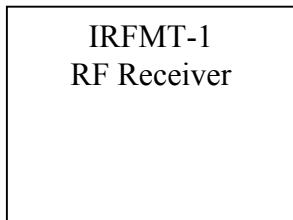
Manufacturer:	Gecko Electronics Inc
Model No.:	IRFMT-1 RF RECEIVER
Serial No.:	None
Date Received In Laboratory:	May 26 2004
Nemko Identification No.:	Item no. 9
Tested To Radio Standard Specification No.:	FCC Part 15, Subpart B
Open Area Test Site Industry Canada No.:	IC 2040-1
Test Voltage	4.5 Volts – 3 batteries of 1.5 volts each
Frequency Range (or <i>fixed frequency</i>):	915.85 MHz & 916.59 MHz
Receiver Spurious (worst case):	41.9 dBuV/m @ 3m @ 1831.422 MHz

Nemko Canada Inc.

FCC Part 15, Subpart B
PROJECT NO.: 4W07862.2

EQUIPMENT: IRFMT-1, RF RECEIVER

Test Set-up



Section 3. Radiated Emissions**Para. No.: 15.109 (a)**

Test Performed By: Daxesh Thakker	Date of Test: June 22, 2004
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Minimum Standard:

FREQUENCY (MHz)	FIELD STRENGTH microvolts/m at 3 metres	
	Transmitter	Receivers
30 - 88	100 (3 nW)	100 (3 nW),
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Test Results: Complied**Test Data:** As per attached tabulated data

Receiver Radiated Emissions' data

Test Date: June 22, 2004																	
Engineer's Name: Daxesh Thakker																	
Temperature (C°): 22						Humidity : 39 %											
Tested as per Table Top																	
Test Distance (meters): 3 Range: A																	
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dB μ V)	Ant. Factor (dB)	Amp. Gain (dB)	Cable Loss (dB)	Field Strength (dB μ V/ m)	Limit (dB μ V/ m)	Margin (dB)	Detector	Amp.						
915.7110	ED4	V	10.2	28.5	N/A	4.0	42.7	46.0	3.3	Q-Peak	-						
915.7110	ED4	H	10.5	28.5	N/A	4.0	43.0	46.0	3.0	Q-Peak	-						
1831.4220	Horn1	V	56.3	28.2	46.6	3.9	41.9	54.0	12.1	Peak	1-2GHz						
1831.4220	Horn1	H	51.0	28.1	46.6	3.9	36.4	54.0	17.6	Peak	1-2GHz						
2747.1300	Horn1	V	N.D.	30.3	56.6	5.7	N.D	54.0	N.D	Peak	2-4GHz						
2747.1300	Horn1	H	N.D.	30.3	56.6	5.7	N.D	54.0	N.D	Peak	2-4GHz						
Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole																	
Note 2: Detector Legend: Q-Peak = 120 kHz RBW, Peak = 1.0 MHz RBW																	
Note 3: The EUT was searched up to 10th harmonic of the fundamental.																	
Notes:	Measurement Receiver = H.P.8565E, RBW/VBW = 1/3MHz, using a peak detector Measurement Receiver = ESVS30, 120kHz RBW using a Q-Peak detector																

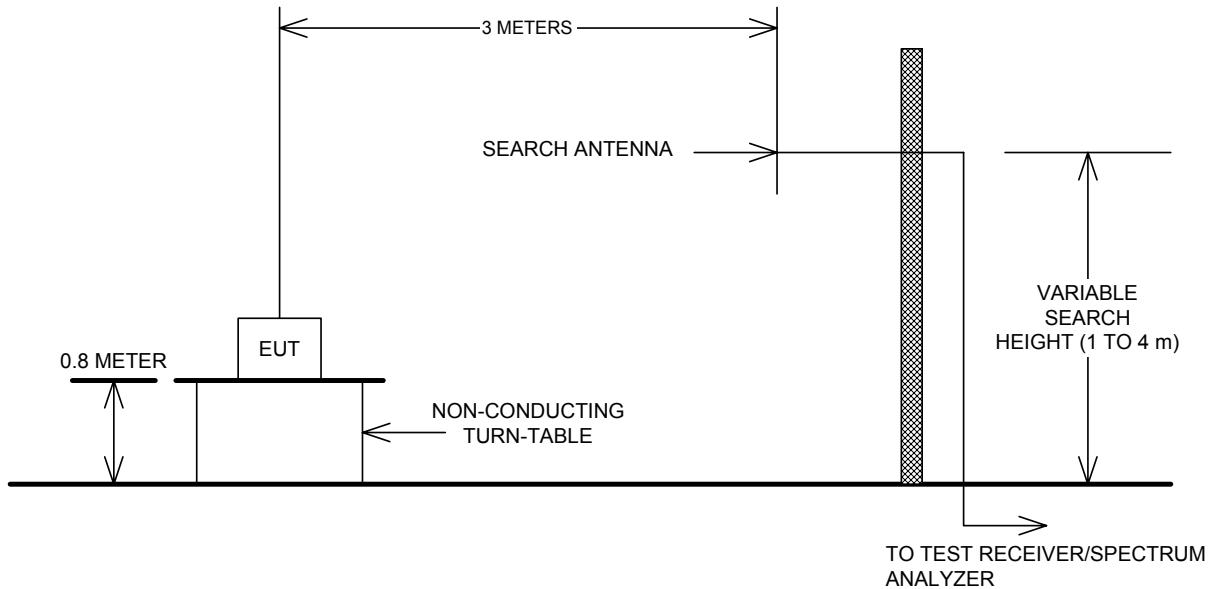
Set-up Photo:

Front view



Rear view



Section 4. Block Diagram**Outdoor Test Site For Radiated Emissions**

The spectrum was searched up to the 10th harmonic of the fundamental frequency of operation.

Section 5. Test Equipment List

Equipment List - Radiated Emissions

CAL Cycle	Equipment	Manufacturer	Model No.	Asset/Serial No.	Last Cal.	Next Cal.
1 Year	Spectrum Analyzer	Hewlett-Packard	8565E	FA000981	May 31/04	May 31/05
1 Year	Dipole Antenna Set	EMCO #1	3121C	FA000814	May. 09/04	May. 09/05
1 Year	Receiver	Rohde & Schwarz	ESVS-30	FA001437	July. 24/03	July. 24/04
1 Year	Horn Antenna #1	EMCO	3115	FA000649	Dec. 18/03	Dec. 18/04
1 Year	1.0 – 2.0 GHz Amplifier	JCA	12-400	FA001498	June. 18/04	June. 18/05
1 Year	2.0 – 4.0 GHz Amplifier	JCA	24-600	FA001496	June. 18/04	June. 18/05
1 Year	4.0 – 8.0 GHz Amplifier	JCA	48-600	FA001497	June. 18/04	June. 18/05

Note: N/A = Not Applicable, NCR = No Cal Required, COU = CAL On Use, OUT = Out For CAL/Repair