



Test Report:

1W04434.1

Applicant:

EXI Wireless Systems Inc.
Suite 100 – 13551 Commerce Pk.
Richmond, B.C.
V6V 2L1

**Equipment Under Test:
(EUT)**

eLink Tag Tester

FCC ID:

HE7TTG

In Accordance With:

FCC Part 15, Subpart C, 15.209

Tested By:

Nemko Canada Inc.
3325 River Road, R.R. 5
Ottawa, Ontario K1V 1H2

Authorized By:

G. Westwell, Wireless Technologist

Date:

December 18, 2001

Total Number of Pages:

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EQUIPMENT: eLink Tag Tester

FCC ID: HE7TTG

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EQUIPMENT: eLink Tag Tester

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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 C for low power devices. All tests were conducted using measurement procedure ANSI C63.4-1992. Radiated Emissions were made 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:

Russell Grant, Wireless Group Manager

DATE: December 18, 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.

*EQUIPMENT: eLink Tag Tester**FCC ID: HE7TTG*

Summary Of Test Data

Name Of Test	Para. No.	Result
Powerline Conducted Emissions	15.207	N/A
Radiated Emissions	15.209	Complies

Footnotes For N/A's:

Batteries

Test Conditions:**Indoor**

Temperature: 22 °C

Humidity: 52 %

Outdoor

Temperature: 20 °C

Humidity: 56 %

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Section 2. General Equipment Specification

Manufacturer: EXI Wireless Systems Inc.

Model No.: eLink

Serial No.: None

Date Received In Laboratory: December 11, 2001

Nemko Identification No.: Item #1

Tx: Fixed 307 kHz

Rx: 433.92 Tuned RF

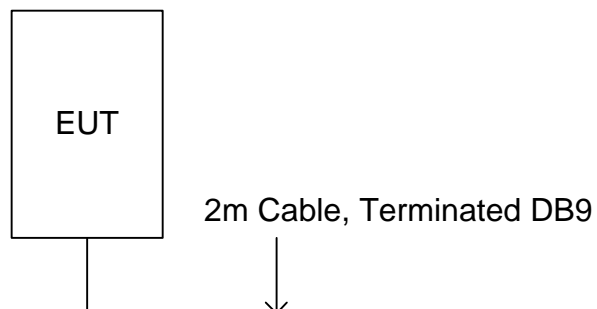
Uses no LO or IF

Pulse Width Modulated

65K3L1D

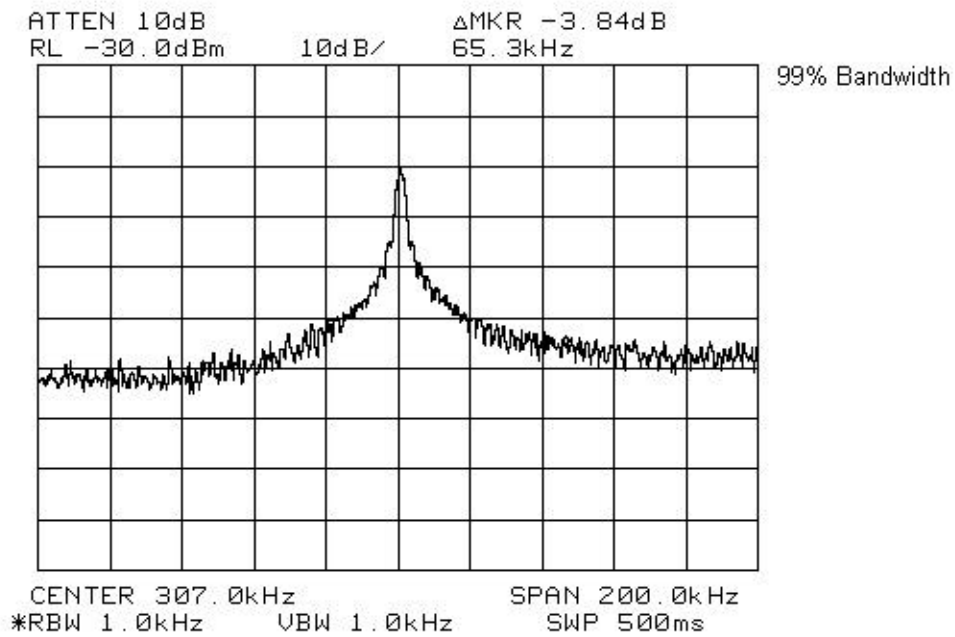
9VDC Battery Powered

EUT Configuration:



EQUIPMENT: eLink Tag Tester

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Section 3. Radiated Emissions**Para. No.: 15.209****Test Performed By:** Russell Grant**Date of Test:** December 12, 2001**Minimum Standard:**

Fundamental (MHz)	Field Strength (μV/m)	Field Strength (dBμV)
0.009 - 0.490	2400/F(kHz) @ 300m	—
0.490 - 1.705	24000/F(kHz) @ 30m	—
1.705 - 30	30 @ 30m	—
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

Test Results: Complies.**Measurement Data:** See attached table.

The spectrum was searched up to 2 GHz.

*EQUIPMENT: eLink Tag Tester**FCC ID: HE7TTG***Radiated Emissions Table**

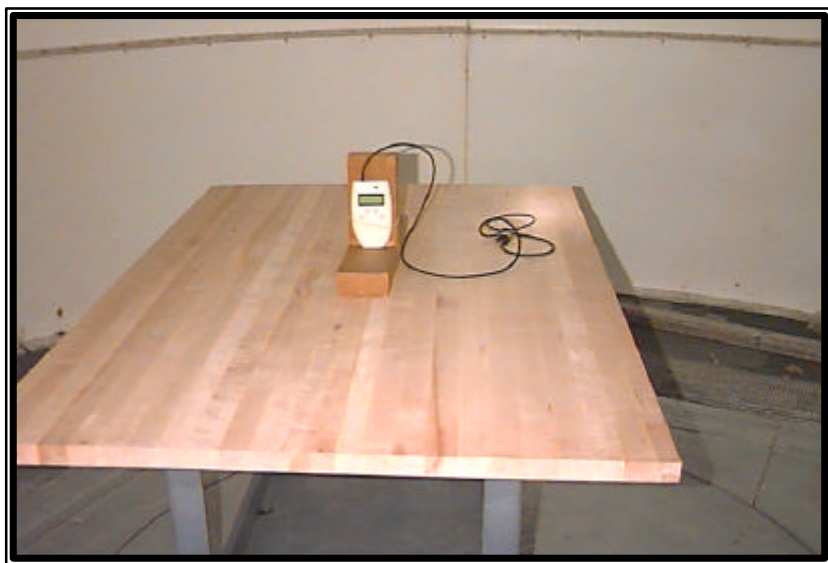
Frequency of Emission (MHz)	1 m Reading (dBuV)	2 m Reading (dBuV)	Extrapolated Field Strength (dBuV/m)	Limit (dBuV/m)	Margin (dB)
0.307	77	59	-71.1	17.9	89.0
0.614	73	55	-15.3	31.8	47.2
0.921	76	57	-17.2	28.3	45.5
1.228	70	51	-23.2	25.8	49.1
1.535	66	47	-27.2	23.9	51.1
1.842	60	43	-23.4	29.5	53.0
2.149	61	43	-27.3	29.5	56.9
2.456	56	38	-32.3	29.5	61.9
2.763	59	42	-24.4	29.5	54.0
3.070	55	*	-4.1	29.5	33.6
3.377	56	*	-3.1	29.5	32.6
3.684	52	*	-7.1	29.5	36.6
3.991	54	*	-5.1	29.5	34.6
4.298	51	*	-8.1	29.5	37.6
4.605	52	*	-7.1	29.5	36.6
4.912	50	*	-9.1	29.5	38.6
5.219	50	*	-9.1	29.5	38.6
5.526	45	*	-14.1	29.5	43.6
5.833	48	*	-11.1	29.5	40.6
6.140	44	*	-15.1	29.5	44.6
6.447	47	*	-12.1	29.5	41.6
6.754	43	*	-16.1	29.5	45.6
7.061	47	*	-12.1	29.5	41.6
7.675	45	*	-14.1	29.5	43.6
8.289	43	*	-16.1	29.5	45.6
8.903	42	*	-17.1	29.5	46.6
9.517	42	*	-17.1	29.5	46.6

Notes:
 Measured spectrum analyzer RBW=VBW=10kHz, Peak Detector
 Fundamental at 307 kHz was extrapolated to 300 m
 All unwanted emissions extrapolated to 30 m
 * denotes emissions which were extrapolated using inverse square law extrapolation of 40 db/decade
 otherwise measurements were extrapolated from readings at 1 and 2 m

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Radiated Emissions Photographs

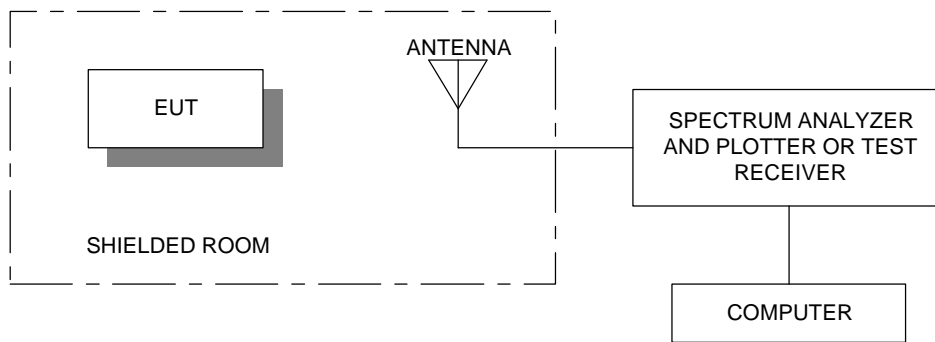


EQUIPMENT: *eLink Tag Tester*

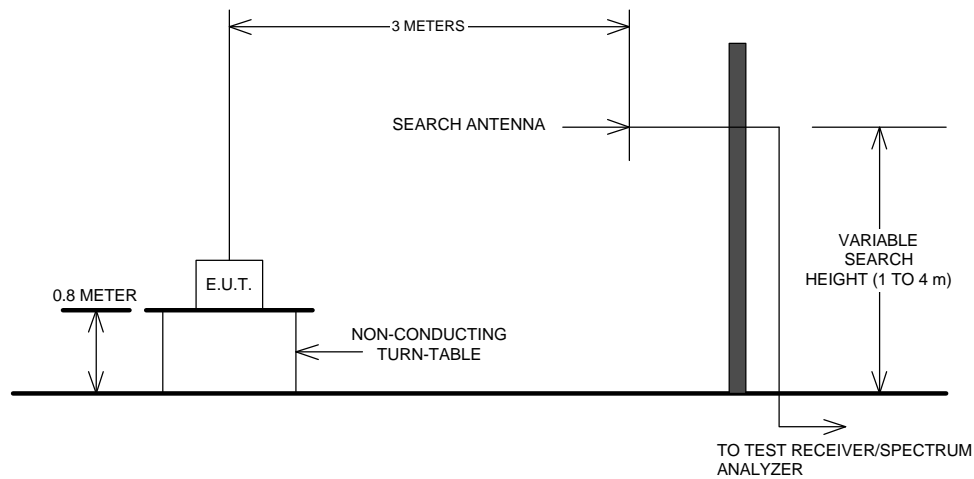
FCC ID: HE7TTG

Section 4. Block Diagrams

Radiated Prescan



Test Site For Radiated Emissions



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Section 5. 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	Spectrum Analyzer-1	Hewlett Packard	8566B	2311A02238	Nov. 27/01	Nov. 27/02
1 Year	Spectrum Analyzer Display-1	Hewlett Packard	8566B	2314A04759	Nov. 27/01	Nov. 27/02
1 Year	Horn Antenna	EMCO #2	3115	4336	Dec. 1/01	Dec. 1/02
1 Year	Dipole Antenna Set	EMCO #2	3121C	FA001349	Apr. 3/01	Apr. 3/02
1 Year	Active Loop Antenna	Rohde & Schwarz	HFH2-Z2	FA000631	March 20/01	March 20/02

NA: Not Applicable

NCR: No Cal Required

COU: CAL On Use