

KTL Test Report: 1R03473

Applicant: Angelcare Monitors Inc.
550 Chemin Du Golf
Suite 200
Nuns Island, Quebec
H3E 1A8

**Equipment Under Test:
(E.U.T.)** AC200, AC200R, AC201 & AC201R

FCC ID: N7TAC201RX

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:

G. Westwell, Technologist

Date:

Total Number of Pages: 15

EQUIPMENT: AC200, AC200R, AC201 & AC201R
FCC ID: N7TAC201RX

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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



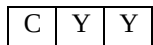
Production Unit



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: _____
Russell Grant, Wireless Group Manager

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This report applies only to the items tested.

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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

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Section 2. General Equipment Specification

Manufacturer: Angelcare Monitors Inc.

Date Received In Laboratory: January 16, 2001

KTL Identification No.: Items # 7, 7 & 10

Frequency Range: 49.83 – 49.89MHz

Operating Frequency(ies) of Sample: 49.83, 49.89MHz

Primary Power: 120 VAC/Batteries

Model No.: AC200 – Sound Only
AC200R – Sound Only And Rechargeable Batteries
AC201 – Sound And Motion
AC201R – Sound And Motion And Rechargeable Batteries

All models used identical receiver circuits. Tests were conducted on Model AC201.

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Section 3. Radiated Emissions

Para. No.: 15.109(a)

Test Performed By: Russell Grant	Date of Test: January 17, 2001
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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. The worst-case emission level is 23.7 dB μ V/m @ 3m at 49.375 MHz. This is 16.3 dB below the specification limit.

Measurement Data: See attached table.

For super-regenerative receivers the receiver is cohered 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.

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Test Data - Radiated Emissions

Test Distance (meters) : 3		Range: A Tower		Receiver: ESVP		RBW(kHz): 120		Detector: Peak	
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)
49.375	B/C1	V	12.5	11.2			23.7	40.0	16.3
49.375	B/C1	H	-6.2	11.2			5.0	40.0	35.0
98.75	B/C1	V	-4.1	9.6			5.5	43.5	38.0
98.75	B/C1	H	-15.0	9.6			-5.4	43.5	48.9
Notes: B/C = Biconical, B/L = Biconilog, L/P = Log-Periodic, H = Horn, D/P = Dipole * Re-Measured Using Dipole Antenna. () Denotes Failing Emission Level. (1) 120 kHz, Q-Peak, (2) 10 kHz, Peak, (3) 100 kHz RGW, 300 kHz VBW, Peak, (4) 300 kHz RBW, 1 MHz VBW, Peak, (5) 1 MHz RBW, 3 MHz VBW, Peak, (6) 1 MHz RBW, 10 Hz VBW, Peak N.D. = Not Detected									

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Radiated Photographs

Front View Model AC201



EQUIPMENT: AC200, AC200R, AC201 & AC201R
FCC ID: N7TAC201RX

Section 4. Powerline Conducted Emissions

Para. No.: 15.107

Test Performed By: Russell Grant	Date of Test: January 17, 2001
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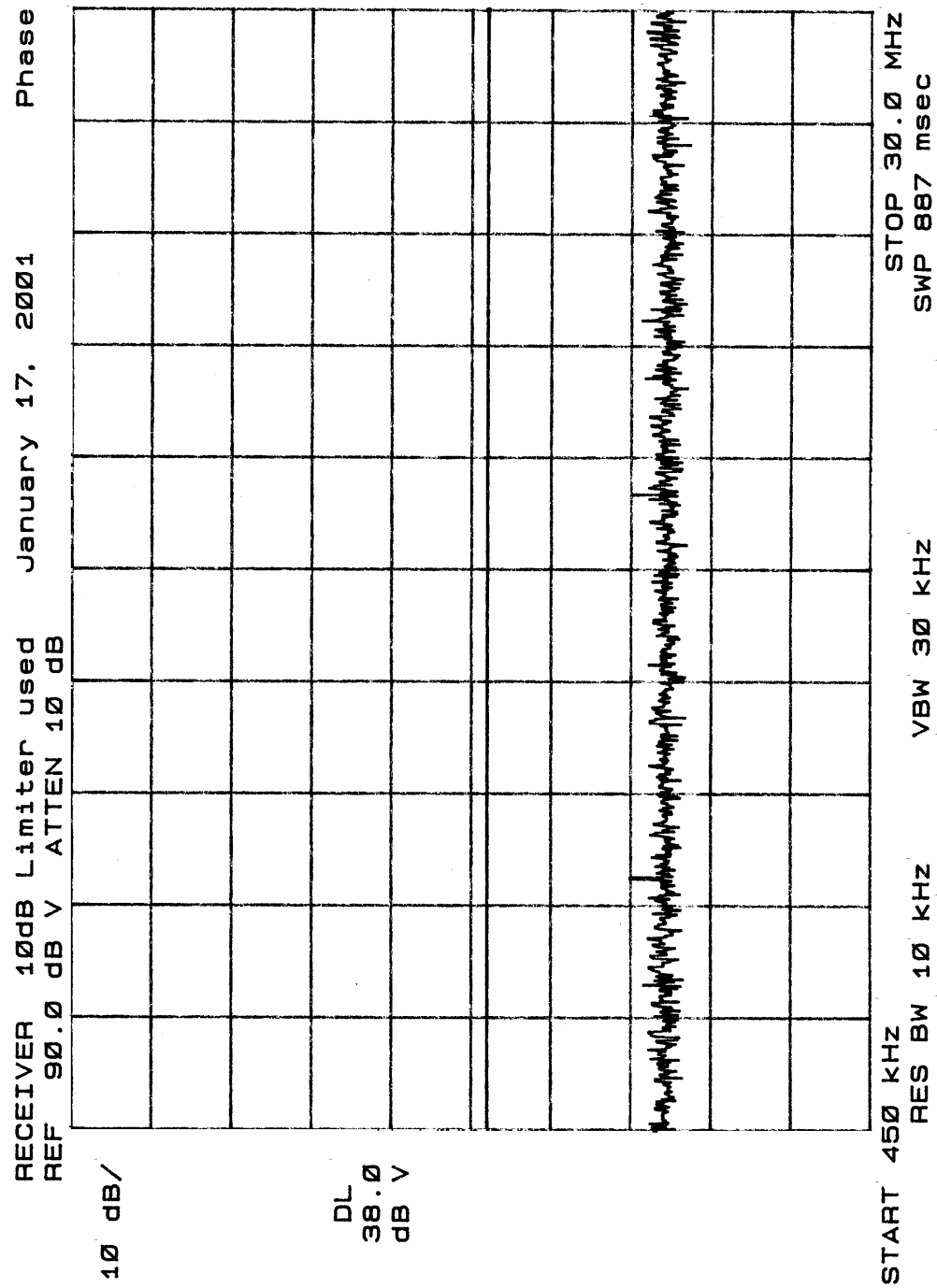
Minimum Standard: The RF energy feed back into the power lines shall not exceed 48 dB μ V on any frequency between 0.45 MHz and 30 MHz inclusive.

Test Results: Complies. See attached graphs.

Measurement Data: See attached graphs.

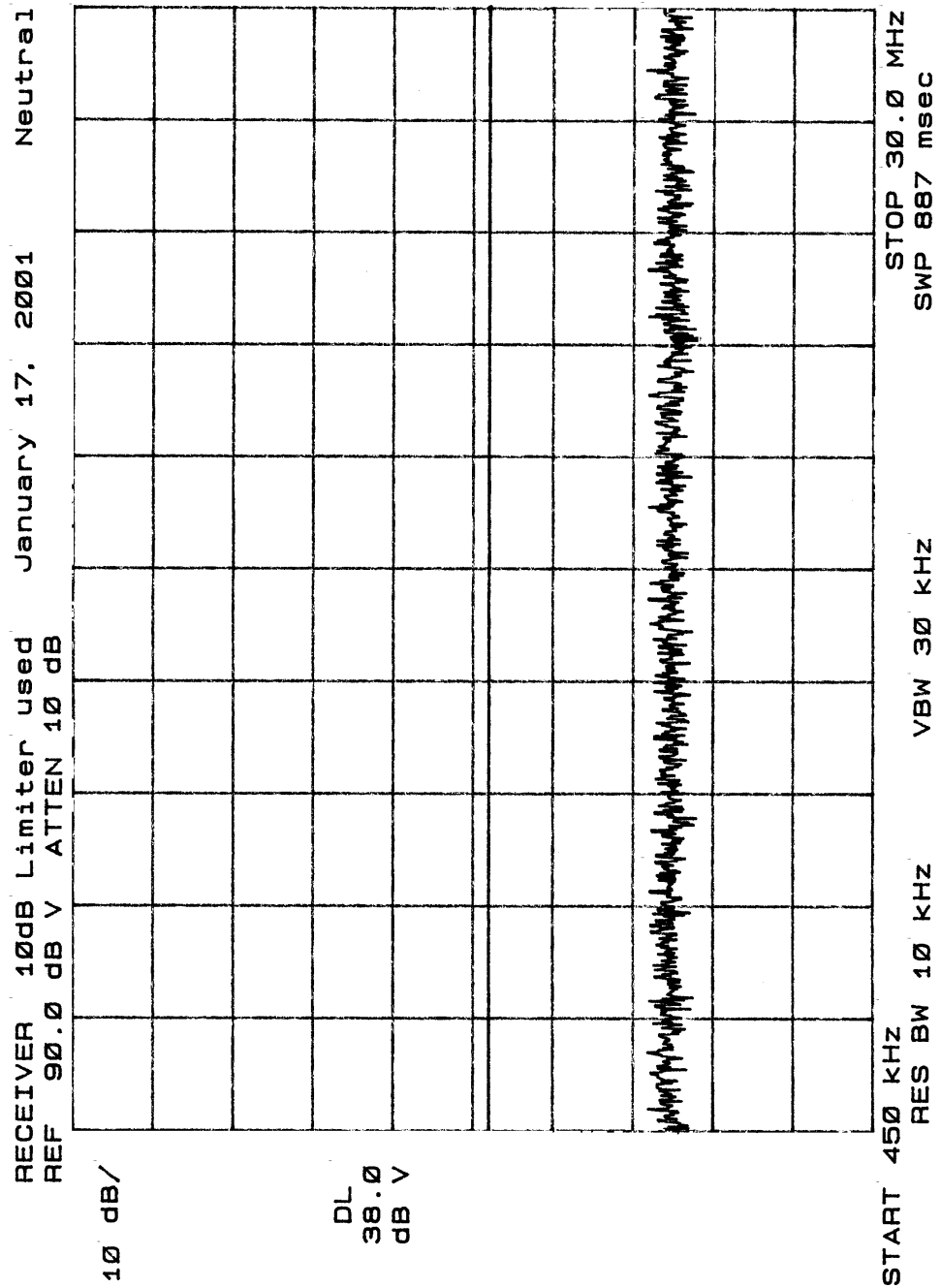
EQUIPMENT: AC200, AC200R, AC201 & AC201R
FCC ID: N7TAC201RX

Model AC201



EQUIPMENT: AC200, AC200R, AC201 & AC201R
FCC ID: N7TAC201RX

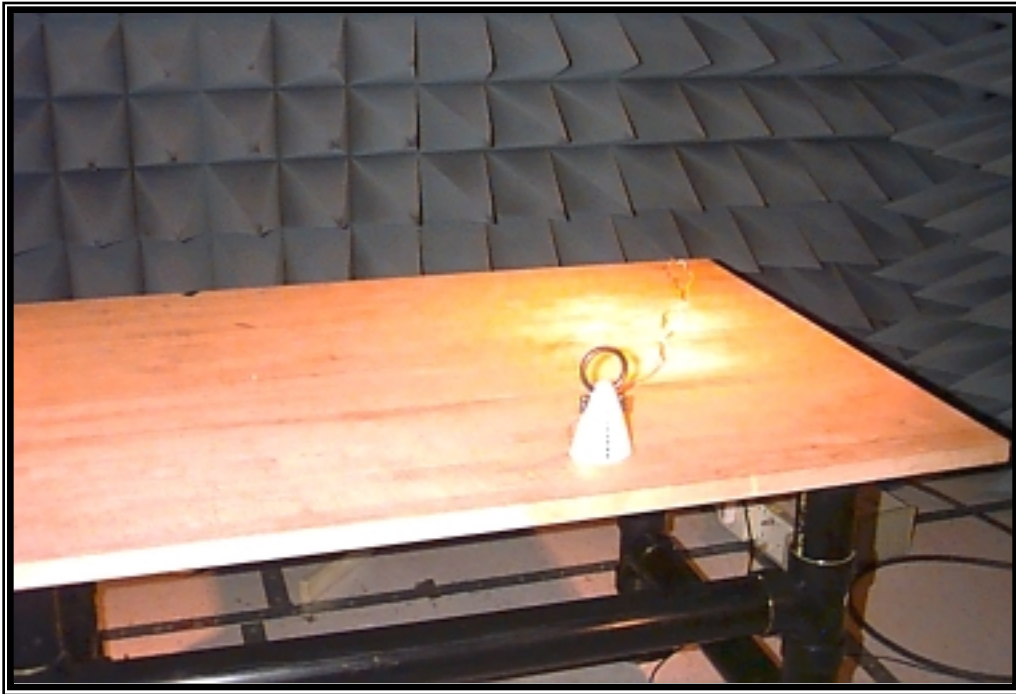
Model AC201



EQUIPMENT: AC200, AC200R, AC201 & AC201R
FCC ID: N7TAC201RX

Powerline Conducted Photographs

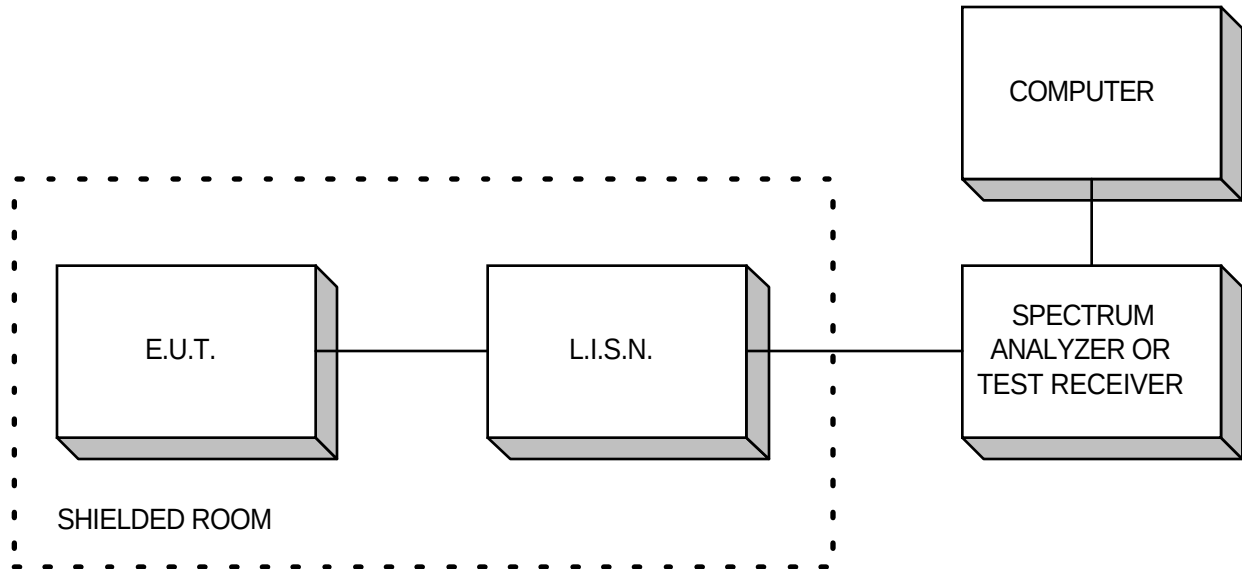
Front View Model AC201



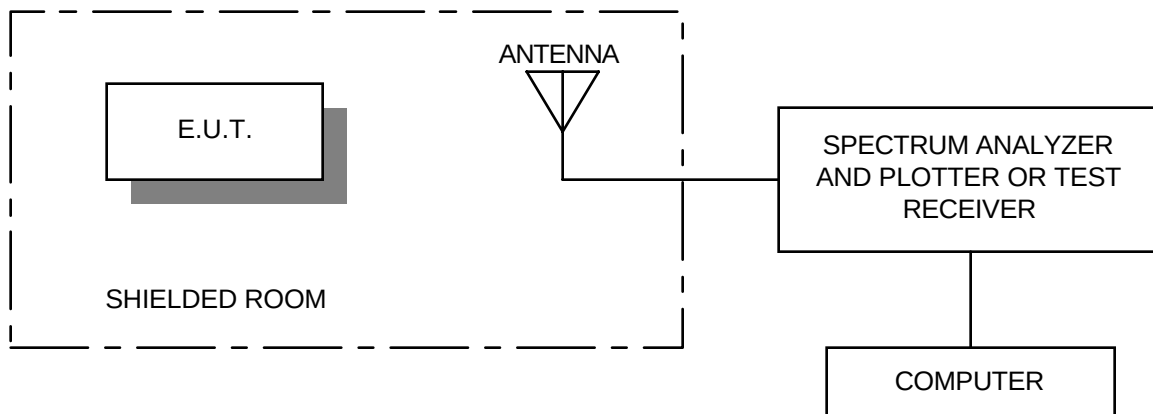
EQUIPMENT: AC200, AC200R, AC201 & AC201R
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Section 5. Block Diagrams

Conducted Emissions

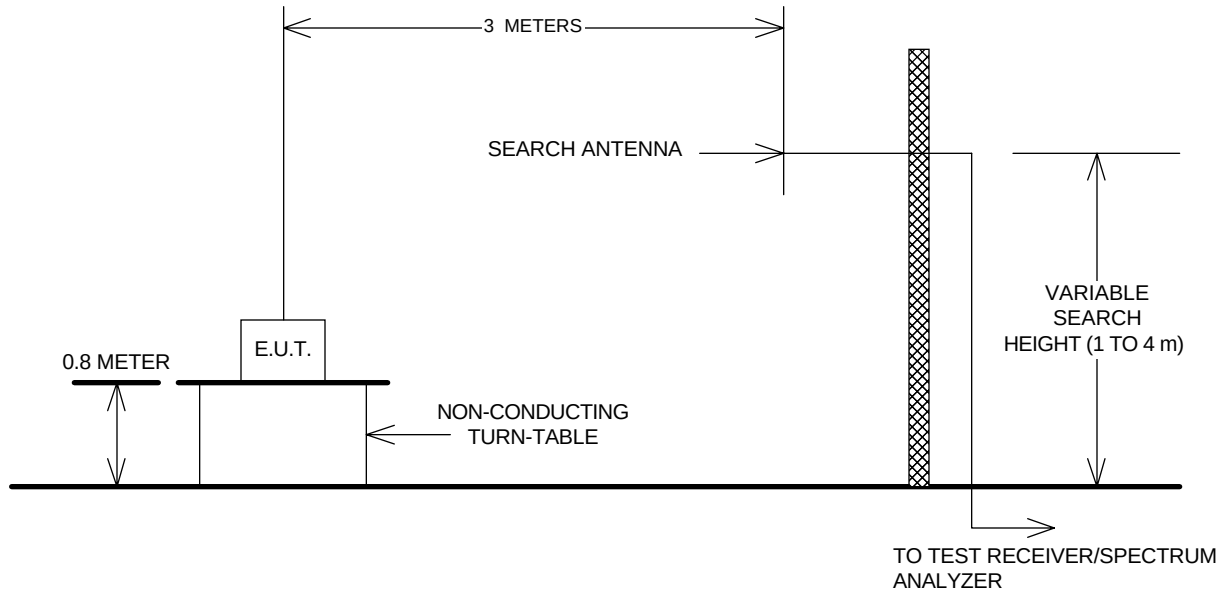


Radiated Prescan



*EQUIPMENT: AC200, AC200R, AC201 & AC201R
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Outdoor Test Site For Radiated Emissions



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

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Section 6. Test Equipment List

CAL CYCLE	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL.	NEXT CAL.
1 Year	Spectrum Analyzer	Hewlett Packard	8565E	FA000981	June 16/00	June 16/01
1 Year	Spectrum Analyzer-1	Hewlett Packard	8566B	2311A02238	Dec. 10/00	Dec. 10/01
1 Year	Spectrum Analyzer Display-1	Hewlett Packard	8566B	2314A04759	Dec. 10/00	Dec. 10/01
1 Year	LISN	EMCO	4825/2	0002-1/47	Feb. 14/00	Feb. 14/01
1 Year	Biconical (1) Antenna	EMCO	3109	9204-2708	Aug. 10/00	Aug. 10/01

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