

KTL Test Report: 1R03473.1

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: N7TAC201TX

In Accordance With: **FCC Part 15, Subpart C, Paragraph 15.235**

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: 19

EQUIPMENT: AC200, AC200R, AC201 & AC201R
FCC ID: N7TAC201TX

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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.



New Submission



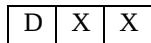
Production Unit



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.

EQUIPMENT: AC200, AC200R, AC201 & AC201R
FCC ID: N7TAC201TX

Summary Of Test Data

Name Of Test	Para. No.	Result
Powerline Conducted Emissions	15.207	Complies
Radiated Emissions	15.235	Complies

EQUIPMENT: AC200, AC200R, AC201 & AC201R
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Section 2. General Equipment Specification

Manufacturer: Angelcare Monitors Inc.

Date Received In Laboratory: January 16, 2001

KTL Identification No.: Items # 3, 6 & 9

Frequency Range: 49.83 – 49.89MHz

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

Modulation: FM

Emission Designator: 9K00F3E

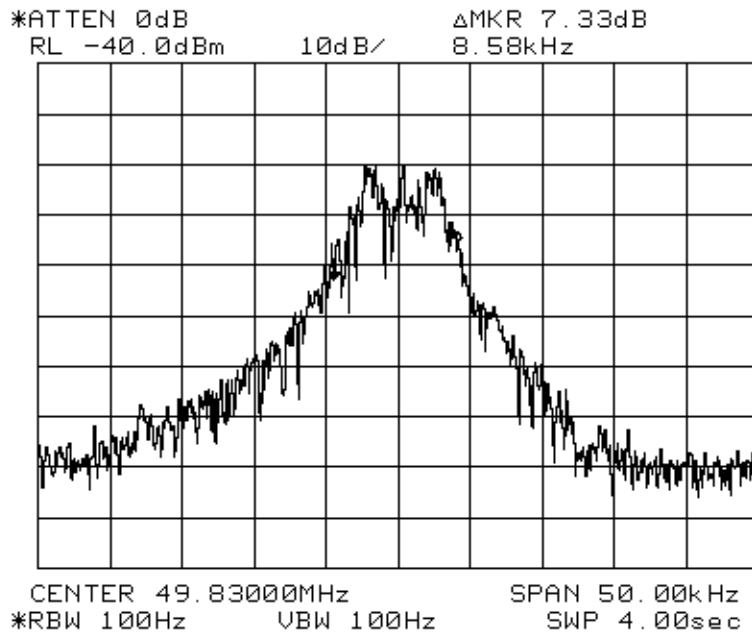
Primary Power: 120 VAC/Batteries

Integral Antenna	Yes	No
	☒	☐

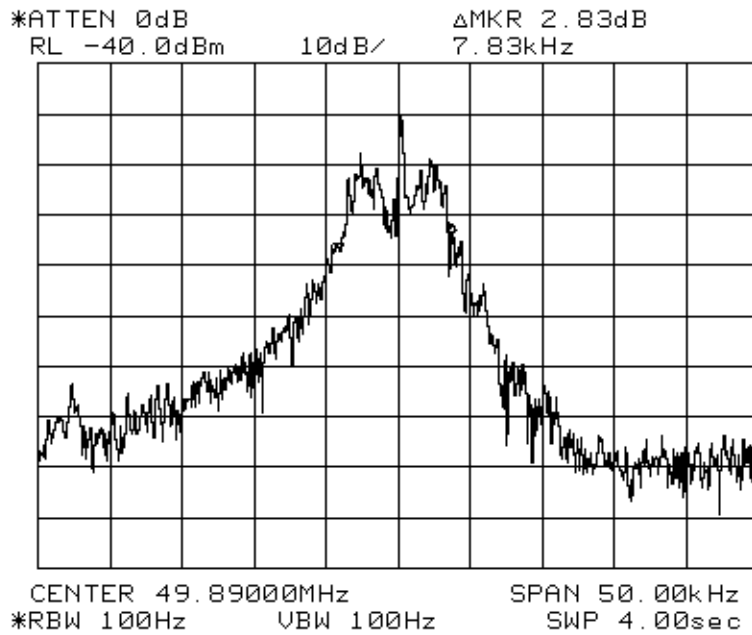
Model No.: AC200 – Sound Only
 AC200R – Sound Only And Rechargeable Batteries
 AC201 – Sound And Motion
 AC201R – Sound And Motion And Rechargeable Batteries

All models used identical transmitter circuits. Tests were conducted on Models AC200 and AC201R.

EQUIPMENT: AC200, AC200R, AC201 & AC201R
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FCC ID: N7TAC201TX

Section 3. Powerline Conducted Emissions

Para. No.: 15.207

Test Performed By: Russell Grant	Date of Test: January 17, 2001
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Minimum Standard:

Frequency (MHz)	Maximum Powerline Conducted RF Voltage	
	(μ V)	(dB μ V)
0.45 - 30.0	250	48

Test Results: Complies. See attached graph(s).

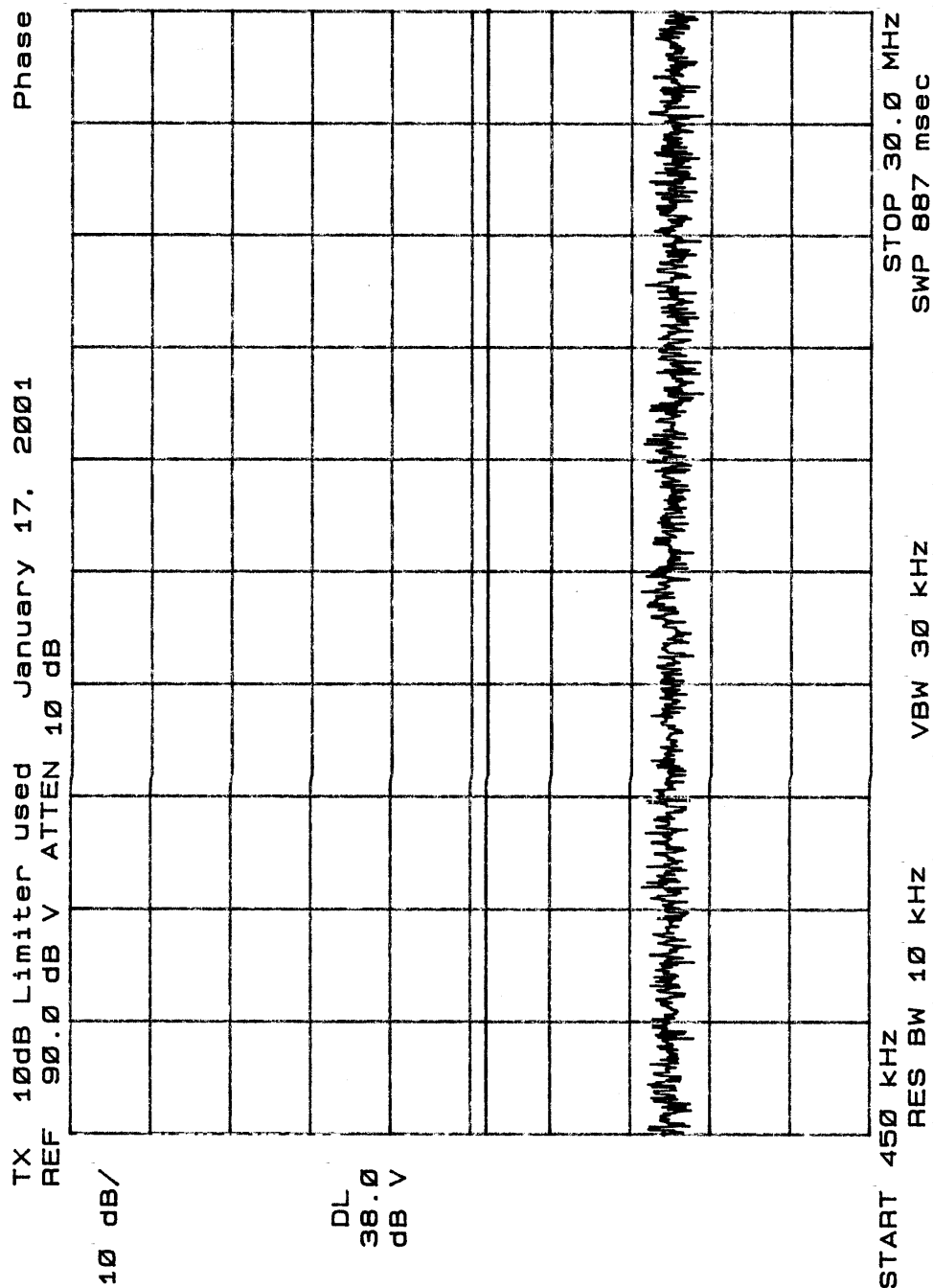
Measurement Data: See attached graph(s).

Method of Measurement: (Procedure ANSI C63.4-1992)

Measurements were made using a spectrum analyzer with 10 kHz RBW, Peak Detector. Any emissions that are close to the limit are measured using a test receiver with 10 kHz bandwidth, CISPR Quasi-Peak Detector.

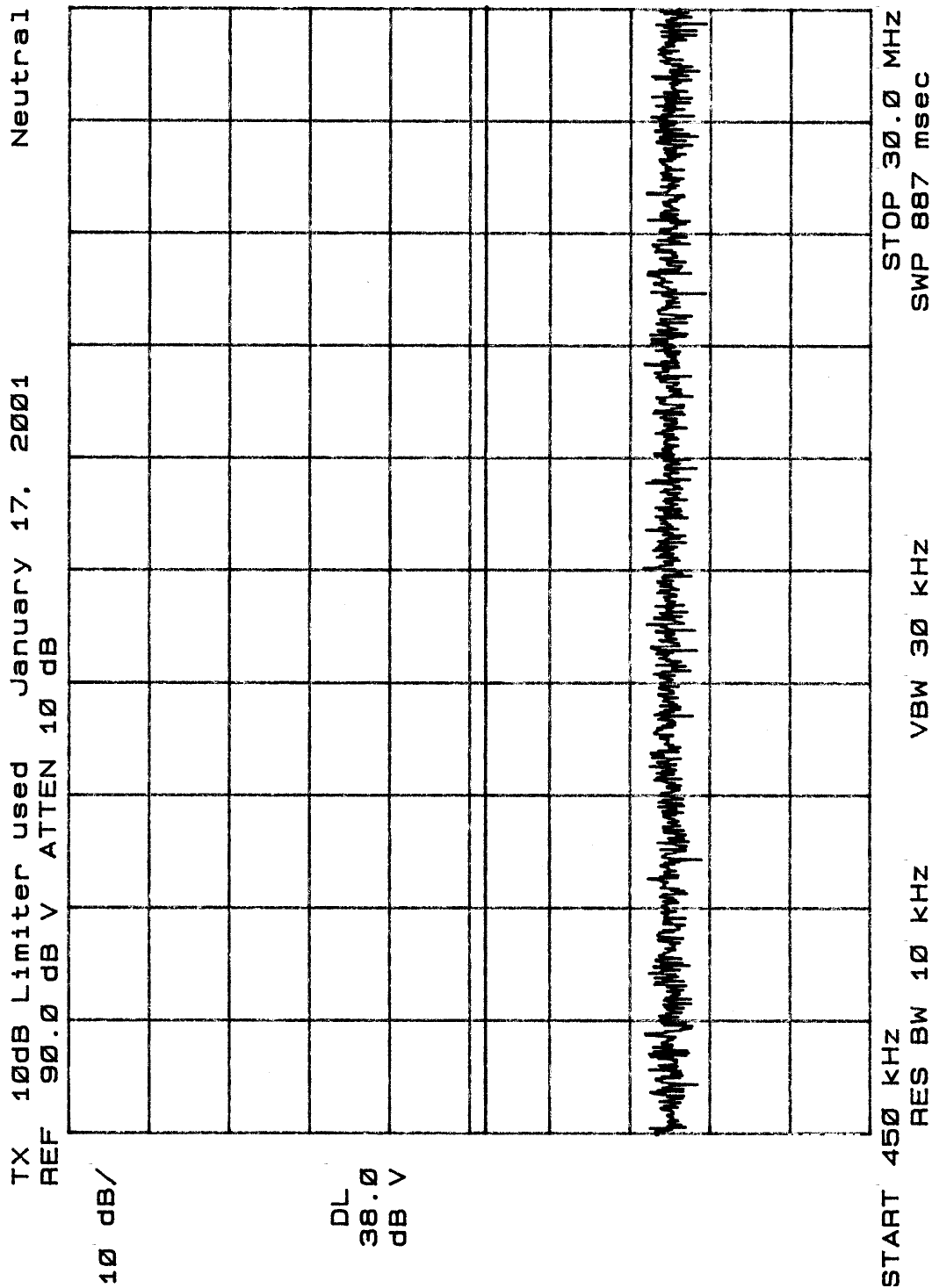
EQUIPMENT: AC200, AC200R, AC201 & AC201R
FCC ID: N7TAC201TX

Model AC200



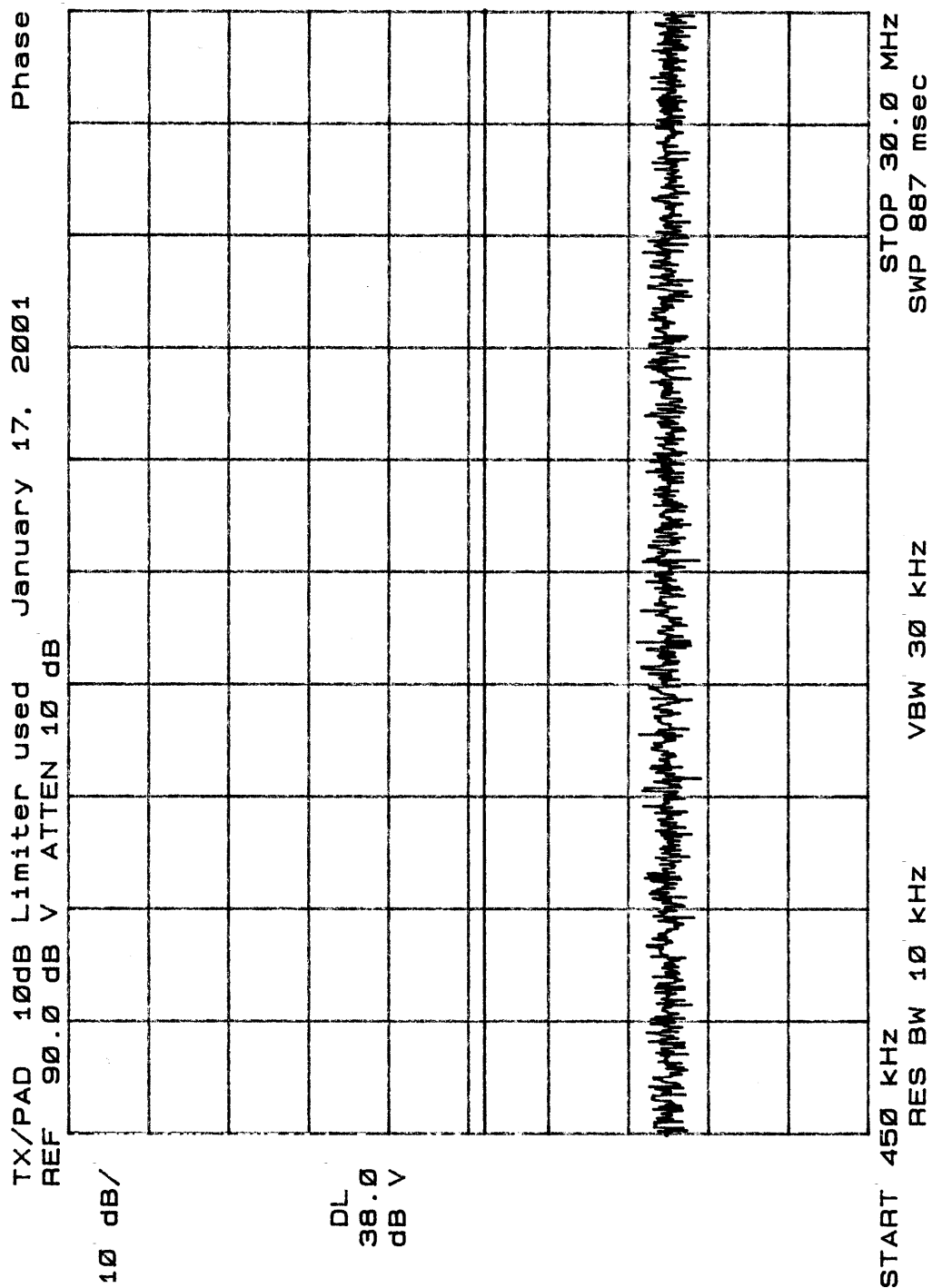
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FCC ID: N7TAC201TX

Model AC200



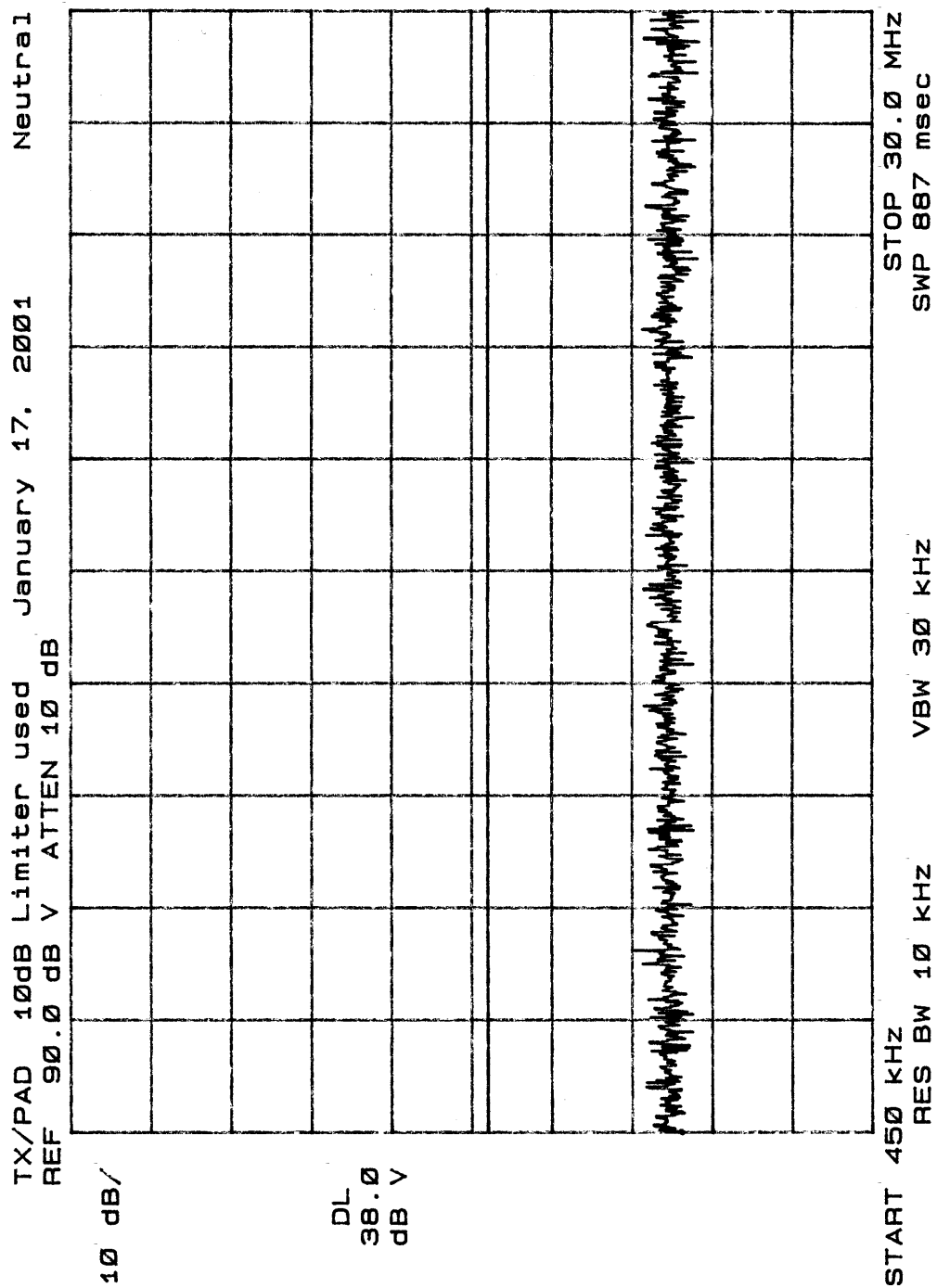
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FCC ID: N7TAC201TX

Model AC201R



EQUIPMENT: AC200, AC200R, AC201 & AC201R
FCC ID: N7TAC201TX

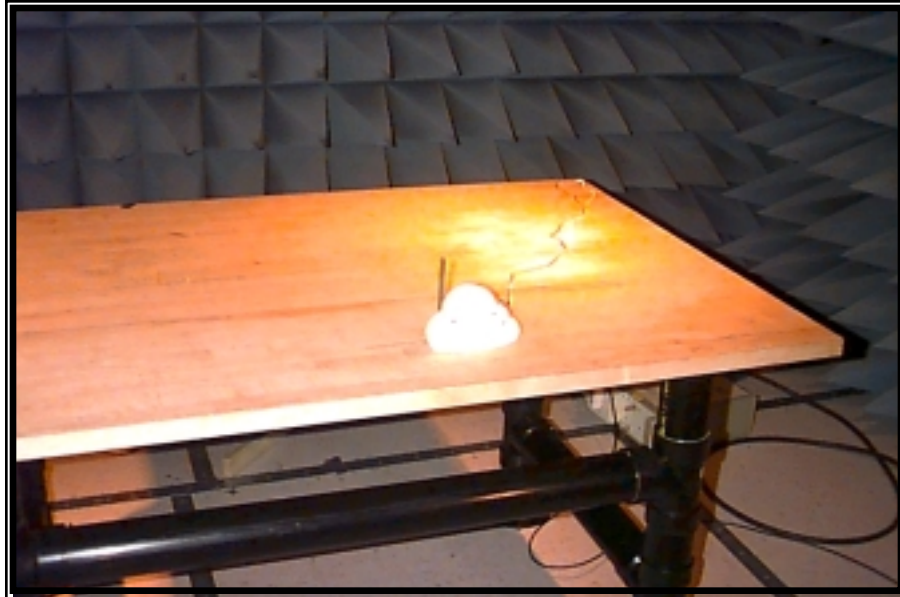
Model AC201R



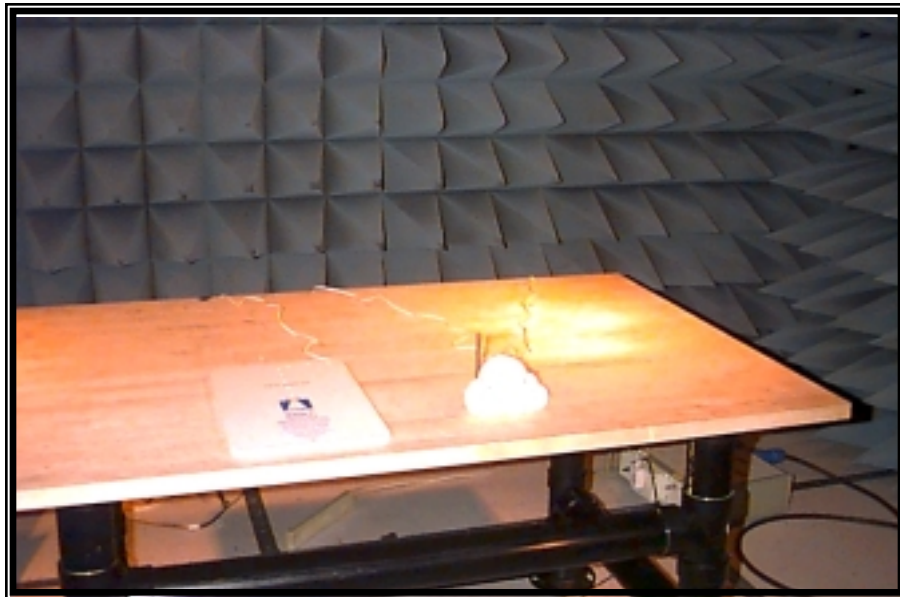
EQUIPMENT: AC200, AC200R, AC201 & AC201R
FCC ID: N7TAC201TX

Conducted Photographs (Worst Case Configuration)

Front View Model AC200



Front View Model AC201R



EQUIPMENT: AC200, AC200R, AC201 & AC201R
FCC ID: N7TAC201TX

Section 4. Radiated Emissions

Para. No.: 15.209

Test Performed By: Russell Grant	Date of Test: January 17, 2001
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Minimum Standard: The field strength of emissions from the device shall not exceed the following limits.

Fundamental (MHz)	Field Strength (μV/m)	Field Strength (dBμV)
49.82-49.90	10000	80
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

Test Results: Complies. The worst-case emission level is 75.4 dB μ V/m @ 3m at 49.83 MHz. This is 4.6 dB below the specification limit.

Measurement Data: (Procedure ANSI C63.4-1992)

The spectrum was searched 30 to 1000MHz from and all emissions greater than 20 μ V/m @ 3m were measured and reported.

EQUIPMENT: AC200, AC200R, AC201 & AC201R

FCC ID: N7TAC201TX

Test Data - Radiated Emissions: AC200 – Sound Only

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)
49.83	B/C1	V	64.2	11.2			75.4	80.0	4.6*
49.83	B/C1	H	52.0	11.2			63.2	80.0	16.8
33.22	B/C1	V	9.2	13.4			22.6	40.0	17.4
33.22	B/C1	H	1.2	13.4			14.6	40.0	25.4
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									

Test Data - Radiated Emissions: AC201R – Sound And Motion And Rechargeable Batteries

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)
49.83	B/C1	V	58.2	11.2			69.4	80.0	10.6
49.83	B/C1	H	48.8	11.2			60.0	80.0	20.0
33.22	B/C1	V	7.3	13.4			20.7	40.0	19.3
33.22	B/C1	H	0.0	13.4			13.4	40.0	26.6
66.44	B/C1	V	4.9	9.2			14.1	40.0	25.9
66.44	B/C1	H	5.0	9.2			14.2	40.0	25.8
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: AC200, AC200R, AC201 & AC201R
FCC ID: N7TAC201TX

Radiated Photographs (Worst Case Configuration)

Front View Model AC200



Front View Model AC201R



EQUIPMENT: AC200, AC200R, AC201 & AC201R
FCC ID: N7TAC201TX

Section 5. 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

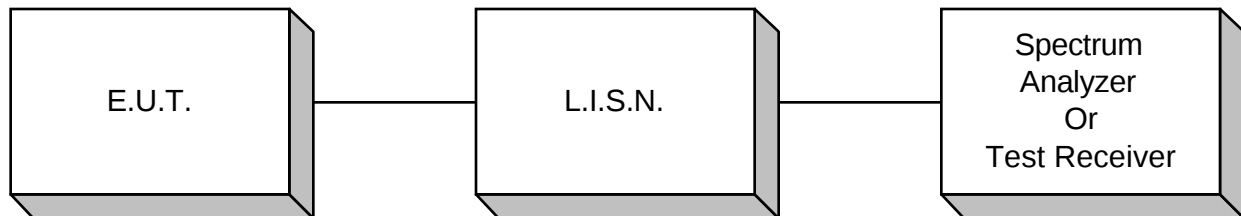
EQUIPMENT: AC200, AC200R, AC201 & AC201R
FCC ID: N7TAC201TX

Annex A

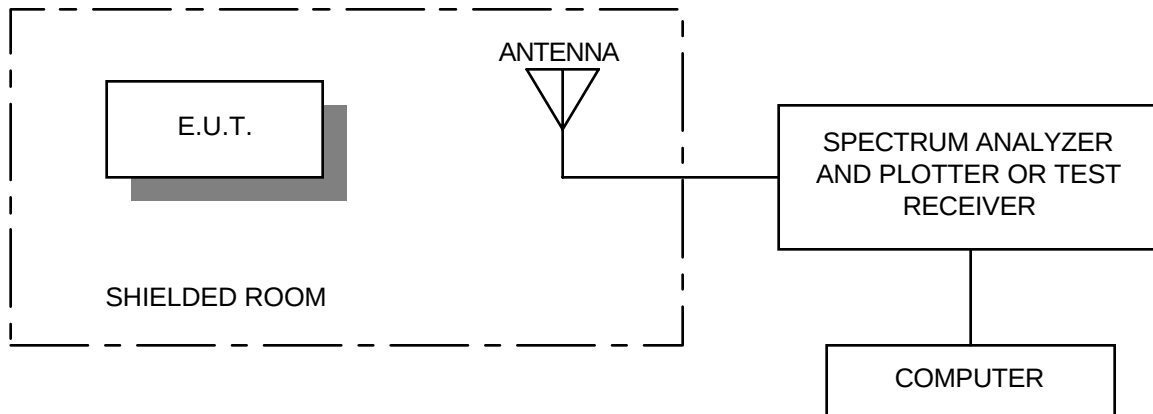
Test Diagrams

EQUIPMENT: AC200, AC200R, AC201 & AC201R
FCC ID: N7TAC201TX

Conducted Emissions



Radiated Prescan



Test Site For Radiated Emissions

