



FCC PART 15, SUBPART C
TEST REPORT

for

HOME PRODUCER 8
Model: URC-9800-B00

Prepared for

COMPUTIME LIMITED
99 HOW MING ST., 7/F,
KWUN TONG, KOWLOON, HONG KONG

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KYLE FUJIMOTO

Approved by: Scott McCutchan

SCOTT McCUTCHAN

COMPATIBLE ELECTRONICS INC.
114 OLINDA DRIVE
BREA, CALIFORNIA 92823
(714) 579-0500

DATE: JULY 2, 1999

	REPORT BODY	APPENDICES				TOTAL
		A	B	C	D	
PAGES	15	2	2	10	13	42

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1	Plot Map And Layout of Test Site

GENERAL REPORT SUMMARY

This electromagnetic emissions test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedure described in the test specification given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced in any form unless done so in full.

This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Device Tested: Home Producer 8
Model: URC-9800-B00
S/N: Prototype

Modifications: The EUT was not modified during the testing.

Product Description: The EUT is a universal remote control.

Manufacturer: Universal Electronics, Inc.
6101 Gateway Drive
Cypress, California 90630

Customer: Computime Limited
99 How Ming St., 7/F,
Kwun Tong, Kowloon, Hong Kong

Test Date: July 2, 1999

Test Specifications: EMI requirements
FCC Title 47, Part 15 Subpart C, Sections 15.205 and 15.231

Test Procedure: ANSI C63.4: 1992

Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 450 kHz - 30 MHz	This test was not performed because the EUT runs off four "AAA" batteries only and cannot be powered by any device that runs off of the AC public mains.
2	Radiated RF Emissions, 10 kHz - 4400 MHz	Complies with the limits of FCC Title 47, Part 15, Subpart B and Subpart C, sections 15.205 and 15.231

1. **PURPOSE**

This document is a qualification test report based on the Electromagnetic Interference (EMI) test performed on the Home Producer 8 Model: URC-9800-B00. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 1992. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the specification limits defined by FCC Title 47, Part 15, Subpart C, sections 15.205 and 15.231.



2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

Computime Limited

Vincent Chan R & D Manager

Universal Electronics, Inc.

Jesse Mendez Engineer

Compatible Electronics, Inc.

Kyle Fujimoto Test Engineer

Scott McCutchan Lab Manager

2.4 Date Test Sample was Received

The test sample was received on July 2, 1999

2.5 Disposition of the Test Sample

The test sample was returned to Universal Electronics, Inc. on July 2, 1999.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network
NVLAP	National Voluntary Laboratory Accreditation Program

3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
FCC Title 47, Part 15 1997	FCC Rules - Radio frequency devices (including digital devices).
ANSI C63.4 1992	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz.

4. **DESCRIPTION OF THE TEST SAMPLE**

The equipment under test (EUT) was placed on the wooden table.

Specifics of the EUT Tested

The Home Producer 8 Model: URC-9800-B00 (EUT) was tested as a stand alone unit. The EUT was continuously transmitting. The antenna is a PCB trace. Photographs of the EUT can be found in Appendix C of this test report. Complete data can be found in Appendix D of this test report.



4.1.1 Cable Construction and Termination

The EUT had no external cables.



5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT**5.1 EUT and Accessory List**

EQUIPMENT TYPE	MANU-FACTURER	MODEL	SERIAL NUMBER	FCC ID
HOME PRODUCER 8 (EUT)	COMPUTIME LIMITED	URC-9800-B00	PROTOTYPE	DI29800



5.2 EMI Test Equipment

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. DUE DATE
Spectrum Analyzer	Hewlett Packard	8566B	3638A08768	Dec. 11, 1998	Dec. 11, 1999
Preamplifier	Com Power	PA-102	01414	Jan. 16, 1999	Jan. 16, 2000
Quasi-Peak Adapter	Hewlett Packard	85650A	2811A01362	April 9, 1999	April 9, 2000
Biconical Antenna	Com Power	AB-100	01543	Oct. 15, 1998	Oct. 15, 1999
Log Periodic Antenna	Com Power	AL-100	01011	Oct. 15, 1998	Oct. 15, 1999
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A
Turntable	Com Power	TT-100	N/A	N/A	N/A
Computer	Hewlett Packard	HP98561A	2522A05178	N/A	N/A
Printer	Hewlett Packard	2225A	2925S33268	N/A	N/A
Plotter	Hewlett Packard	7440A	8726K38417	N/A	N/A
Microwave Preamplifier	Hewlett Packard	8449B	3008A008766	Jan. 30, 1999	Jan. 30, 2000
Horn Antenna	Antenna Research	DRG-118/A	1053	Dec. 8, 1995	N/A
Loop Antenna	Com-Power	AL-130	25309	April 13, 1999	April 13, 2000

6. **TEST SITE DESCRIPTION**

6.1 **Test Facility Description**

Please refer to section 2.1 and 7.1.1 of this report for EMI test location.

6.2 **EUT Mounting, Bonding and Grounding**

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.



7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests.

7.1 RF Emissions

7.1.1 Radiated Emissions Test

The spectrum analyzer was used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. The Com Power Preamplifier Model: PA-102 was used for frequencies from 30 MHz to 1 GHz, and the Hewlett Packard Microwave Amplifier Model: 8449B was used for frequencies above 1 GHz. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps. The quasi-peak adapter was used only for those readings which are marked accordingly on the data sheets. The measurement bandwidths and transducers used for the radiated emissions test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
10 kHz to 30 MHz	200 Hz	Loop Antenna
30 MHz to 300 MHz	120 kHz	Biconical Antenna
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna
1 GHz to 4.4 GHz	1 MHz	Horn Antenna

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 1992. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results.

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance to obtain final test data.

7.2 Bandwidth of the Fundamental

The -20 dB bandwidth was checked to see that it was within 0.25% of the fundamental frequency for the transmitter. A plot of the -20 dB bandwidth is in Appendix D.



8. **CONCLUSIONS**

The Home Producer 8 Model: URC-9800-B00 meets all of the specification limits defined in FCC Title 47, Part 15, Subpart C, sections 15.205 and 15.231.





APPENDIX A

MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15 Subpart B specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

Modifications:

No modifications were made to the EUT.





***ADDITIONAL MODELS COVERED
UNDER THIS REPORT***

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Home Producer 8
Model: URC-9800-B00
S/N: N/A

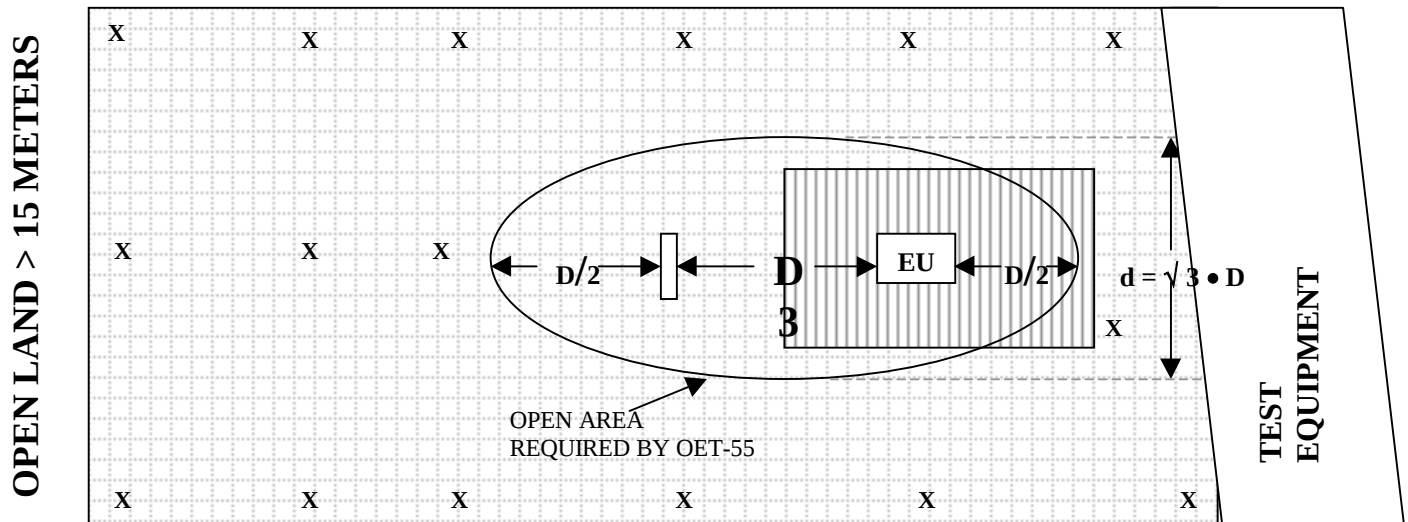
There were no additional models covered under this report.





APPENDIX C

DIAGRAMS, CHARTS AND PHOTOS

FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED SITE**OPEN LAND > 15 METERS****OPEN LAND > 15 METERS**



FRONT VIEW

COMPUTIME LIMITED

HOME PRODUCER 8

Model: URC-9800-B00

FCC SUBPART B - RADIATED EMISSIONS – 7-2-99

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



REAR VIEW

COMPUTIME LIMITED

HOME PRODUCER 8

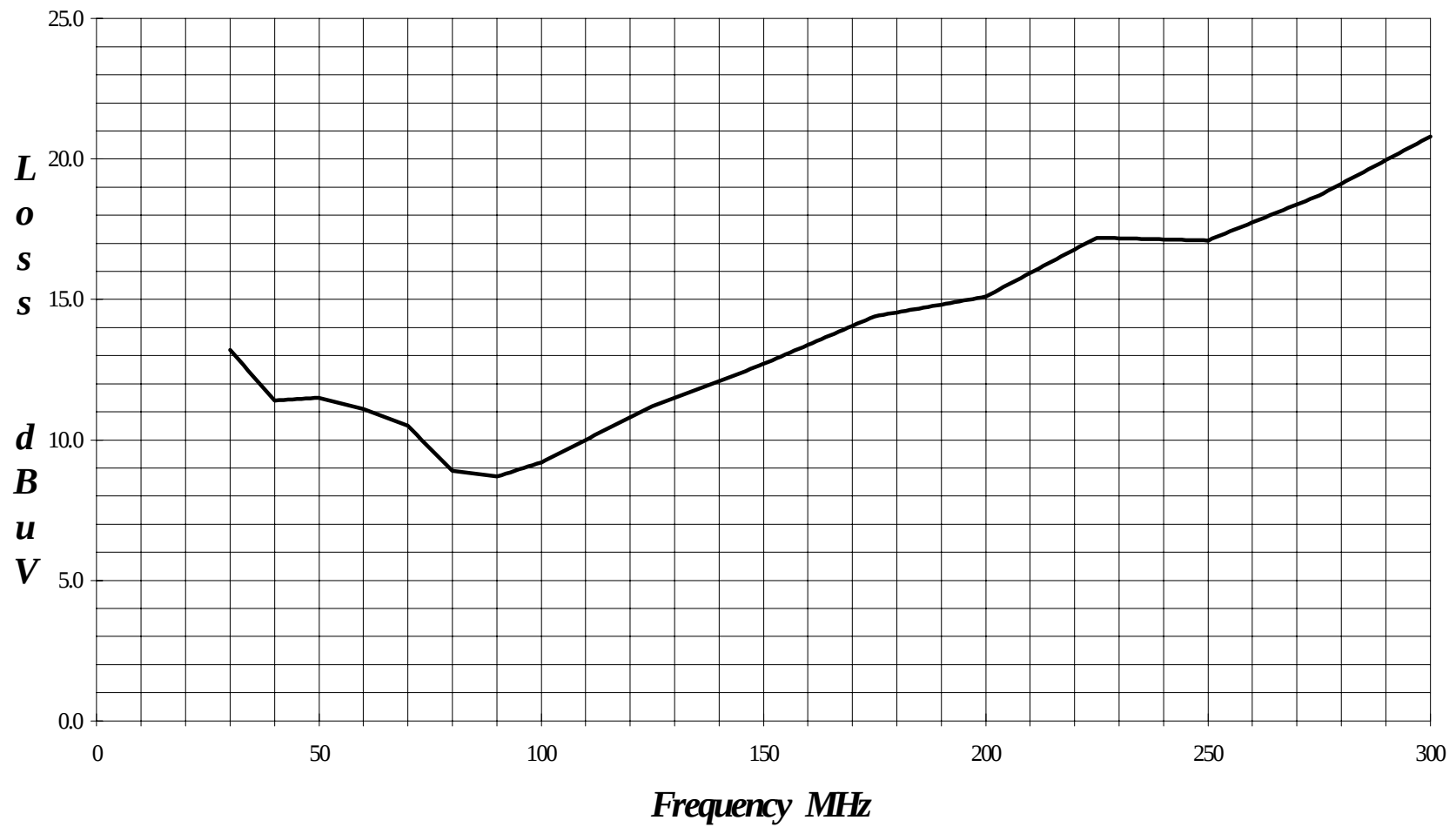
Model: URC-9800-B00

FCC SUBPART B - RADIATED EMISSIONS – 7-2-99

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

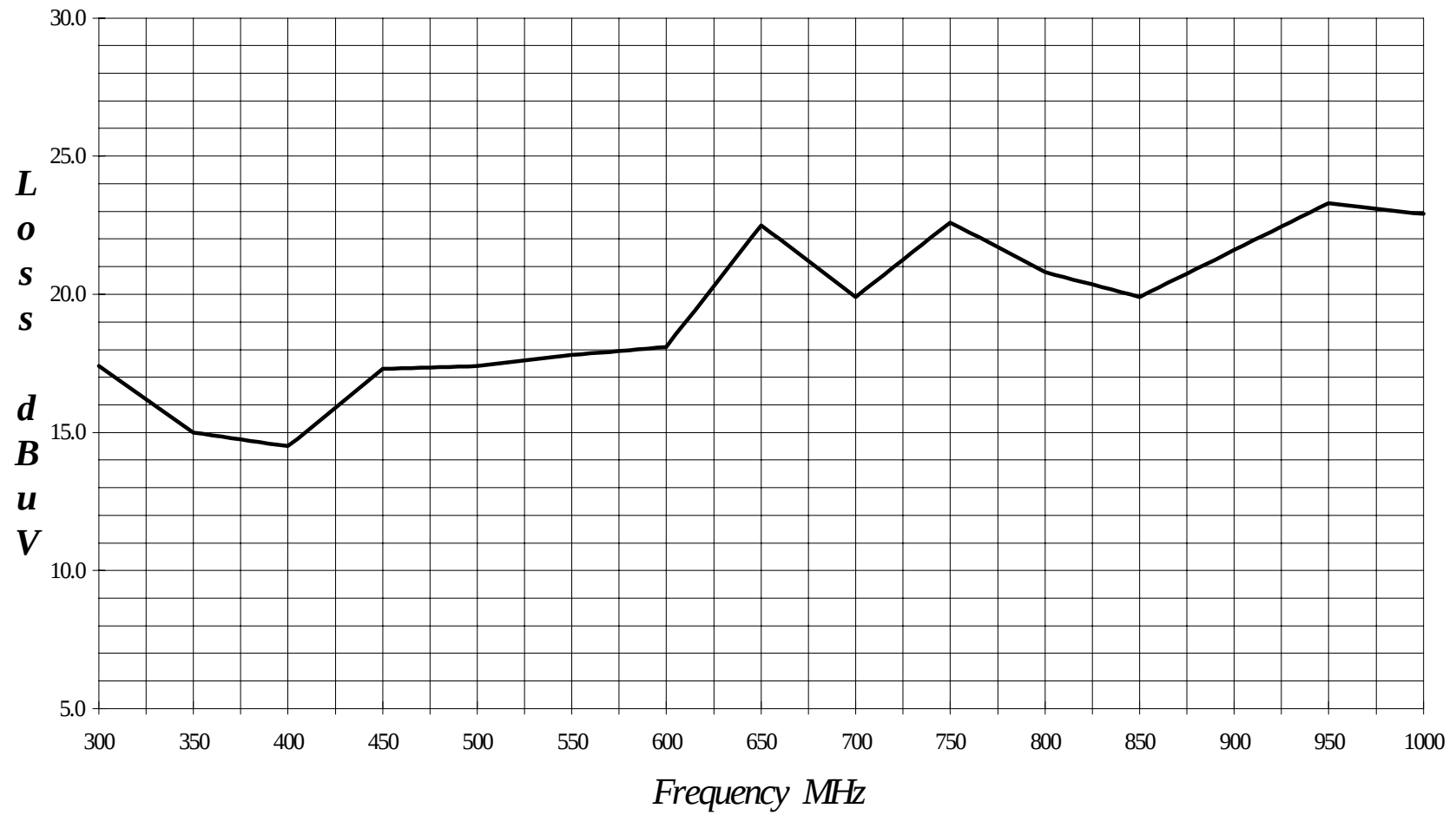
Cal: 10/15/98

LAB "B" BICONICAL ANTENNA AB-100 S/N 01543

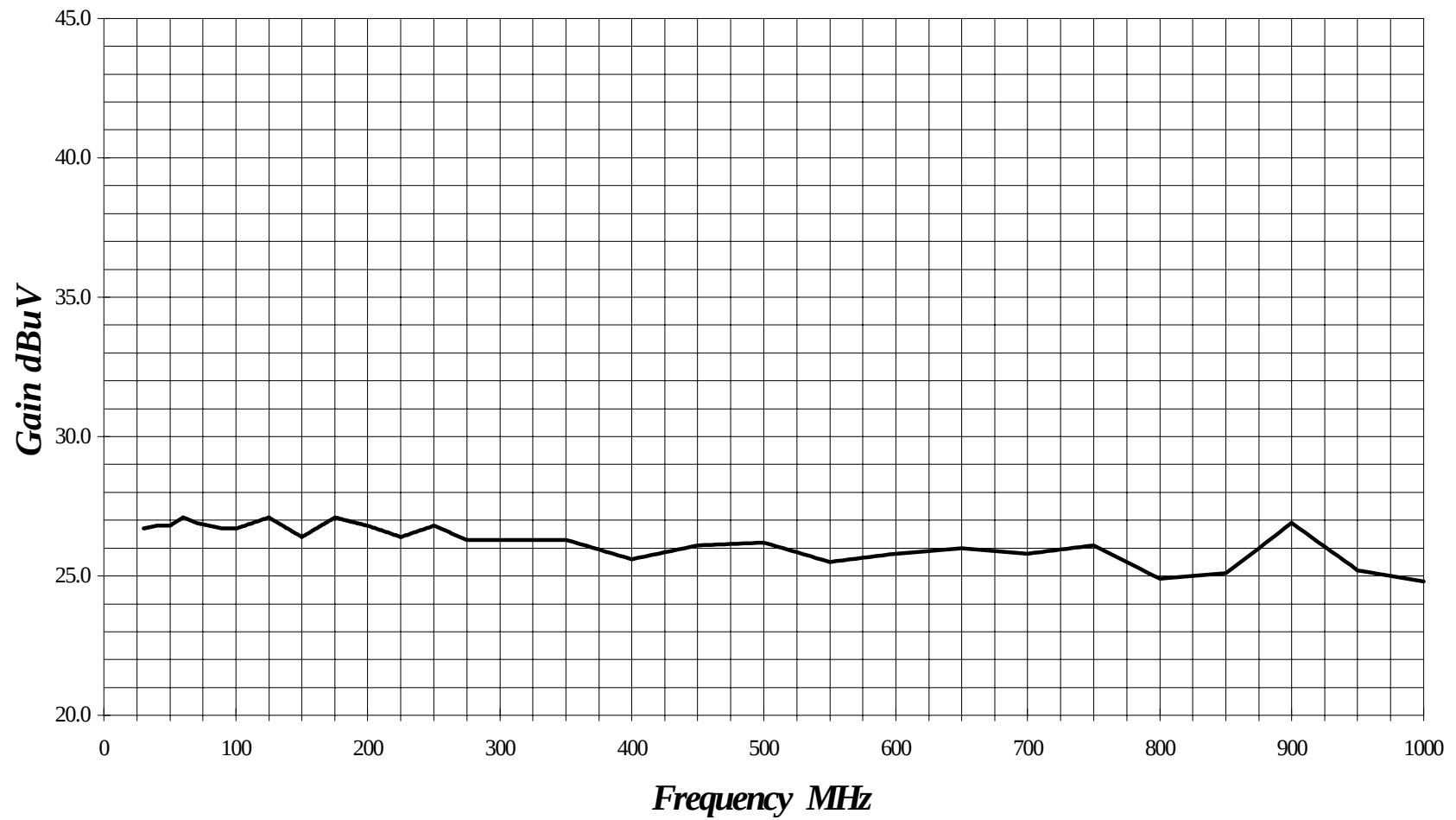


Cal: 10/15/98

LAB "B" LOG PERIODIC ANTENNA AL-100 S/N 01011



PREAMPLIFIER EFFECTIVE GAIN AT 3 METERS PA-102 S/N: 1414



HEWLETT PACKARD 8449B

MICROWAVE PREAMPLIFIER

S/N: 3008A008766

CALIBRATION DATE: JANUARY 30, 1999

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	36.9	9.5	34.3
1.1	36.3	10.0	33.7
1.2	36.4	10.5	34.1
1.3	36.2	11.0	33.7
1.4	36.3	11.5	34.0
1.5	35.7	12.0	33.9
1.6	35.9	12.5	34.4
1.7	35.7	13.0	32.9
1.8	35.6	13.5	31.6
1.9	35.5	14.0	31.8
2.0	35.4	14.5	31.9
2.5	35.6	15.0	32.2
3.0	35.2	15.5	32.8
3.5	35.2	16.0	32.4
4.0	34.3	16.5	32.1
4.5	34.1	17.0	32.3
5.0	34.3	17.5	30.3
5.5	33.0	18.0	31.5
6.0	34.1	18.5	31.2
6.5	34.5	19.0	32.2
7.0	34.3	19.5	32.0
7.5	33.9	20.0	32.0
8.0	34.5	20.5	33.2
8.5	34.5	21.0	30.9
9.0	34.4	22.0	32.1



E-FIELD ANTENNA FACTOR CALIBRATION

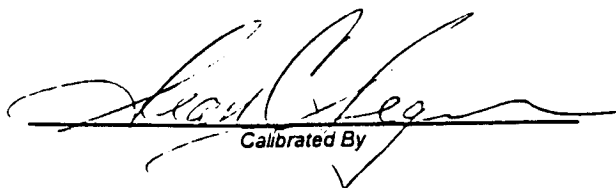
$$E(\text{dB V/m}) = V_o(\text{dB V}) + AFE(\text{dB/m})$$

Model number : DRG-118/A

Frequency GHz	AFE dB/m	Gain dBi
1	22.3	8.0
2	26.7	9.5
3	29.7	10.1
4	29.5	12.8
5	32.3	12.0
6	32.4	13.4
7	36.1	11.0
8	37.4	10.9
9	36.8	12.5
10	39.5	10.7
11	39.6	11.5
12	39.8	12.0
13	39.7	12.8
14	41.8	11.3
15	41.9	11.9
16	38.1	16.3
17	41.0	13.9
18	46.5	8.9

Serial number : 1053
Job number : 96-092
Remarks : 3 meter calibration
Standards : LPD-118/A, TE-1000

Temperature : 72° F
Humidity : 56 %
Traceability : A01887
Date : December 08, 1995


Calibrated By

Com-Power Corporation

(949) 587-9800

Antenna Calibration

Antenna Type:		Loop Antenna	
Model:		AL-130	
Serial Number:		25309	
Calibration Date:		4/13/99	
Frequency MHz	Magnetic (dB/m)	Electric dB/m	
0.01	-40.6	10.9	
0.02	-41.5	10.0	
0.03	-39.9	11.6	
0.04	-40.2	11.3	
0.05	-41.5	10.0	
0.06	-41.1	10.4	
0.07	-41.3	10.2	
0.08	-41.6	9.9	
0.09	-41.7	9.8	
0.1	-41.7	9.8	
0.2	-44.0	7.5	
0.3	-41.6	9.9	
0.4	-41.6	9.9	
0.5	-41.7	9.8	
0.6	-41.5	10.0	
0.7	-41.4	10.1	
0.8	-41.5	10.0	
0.9	-41.6	9.9	
1	-41.2	10.3	
2	-40.5	11.0	
3	-40.8	10.7	
4	-41.0	10.5	
5	-40.5	11.0	
6	-40.5	11.0	
7	-40.7	10.8	
8	-40.8	10.7	
9	-40.1	11.4	
10	-40.4	11.1	
12	-41.0	10.5	
14	-42.1	9.4	
15	-42.3	9.2	
16	-42.7	8.8	
18	-41.0	10.5	
20	-41.1	10.4	
25	-43.4	8.1	
30	-45.3	6.2	

Trans. Antenna Height

2 meter

Receiving Antenna Height

2 meter



DATA SHEETS

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	UNIVERSAL ELECTRONICS	DATE	7/2/99
EUT	HOME PRODUCER 8	DUTY CYCLE	20.00 %
MODEL	URC-9800-B00	PEAK TO AVG	-13.98 dB
S/N	PROTOTYPE	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	B

[illegible]

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	UNIVERSAL ELECTRONICS	DATE	7/2/99
EUT	HOME PRODUCER 8	DUTY CYCLE	20.00 %
MODEL	URC-9800-B00	PEAK TO AVG	-13.98 dB
S/N	PROTOTYPE	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	B

[illegible]

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RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	UNIVERSAL ELECTRONICS	DATE	7/2/99
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TEST ENGINEER	James Ross	LAB	B

[illegible]

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

**COMPATIBLE
ELECTRONICS**

**COMPATIBLE
ELECTRONICS**

**COMPATIBLE
ELECTRONICS**

*** NO EMISSIONS FOUND FOR THIS READING

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RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)



COMPATIBLE
ELECTRONICS

COMPANY	UNIVERSAL ELECTRONICS	DATE	7/2/99
EUT	HOME PRODUCER 8	DUTY CYCLE	20.00 %
MODEL	URC-9800-B00	PEAK TO AVG	-13.98 dB
S/N	PROTOTYPE	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	B

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)		Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
2580.0000	***	***	A	H	***	***	X	LOW	28.2	3.4	35.5	***	***	60.7	
2580.0000	50.4	36.4	A	H	1.0	0	Y	LOW	28.2	3.4	35.5	32.5	-28.2	60.7	
2580.0000	***	***	A	H	***	***	Z	LOW	28.2	3.4	35.5	***	***	60.7	
2580.0000	47.2	33.2	A	V	2.0	90	X	LOW	28.2	3.4	35.5	29.3	-31.4	60.7	
2580.0000	49.3	35.3	A	V	3.0	90	Y	LOW	28.2	3.4	35.5	31.4	-29.3	60.7	
2580.0000	48.1	34.1	A	V	1.0	90	Z	LOW	28.2	3.4	35.5	30.2	-30.5	60.7	
	</														

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN
 ** DELTA = SPEC LIMIT - CORRECTED READING
 *** NO EMISSIONS FOUND FOR THIS READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	UNIVERSAL ELECTRONICS	DATE	7/2/99
EUT	HOME PRODUCER 8	DUTY CYCLE	20.00 %
MODEL	URC-9800-B00	PEAK TO AVG	-13.98 dB
S/N	PROTOTYPE	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	B

Frequency	Peak	Average (A)		Antenna	Antenna	EUT	EUT	EUT	Antenna	Cable	Amplifier	*Corrected	Delta	Spec	Comments
MHz	Reading	or Quasi-		Polar.	Height	Azimuth	Axis	Tx	Factor	Loss	Gain	Reading	**	Limit	
	(dBuV)	Peak	(QP)	(V or H)	(meters)	(degrees)	(X,Y,Z)	Channel	(dB)	(dB)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	
3010.0000	***	***	A	H	***	***	X	LOW	29.6	4.7	35.6	***	***	60.7	
3010.0000	***	***	A	H	***	***	Y	LOW	29.6	4.7	35.6	***	***	60.7	
3010.0000	***	***	A	H	***	***	Z	LOW	29.6	4.7	35.6	***	***	60.7	
3010.0000	***	***	A	V	***	***	X	LOW	29.6	4.7	35.6	***	***	60.7	
3010.0000	***	***	A	V	***	***	Y	LOW	29.6	4.7	35.6	***	***	60.7	
3010.0000	***	***	A	V	***	***	Z	LOW	29.6	4.7	35.6	***	***	60.7	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

*** NO EMISSIONS FOUND FOR THIS READING

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	UNIVERSAL ELECTRONICS	DATE	7/2/99
EUT	HOME PRODUCER 8	DUTY CYCLE	20.00 %
MODEL	URC-9800-B00	PEAK TO AVG	-13.98 dB
S/N	PROTOTYPE	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	B

[illegible]

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

*** NO EMISSIONS FOUND FOR THIS READING

** DELTA = SPEC LIMIT - CORRECTED READING

COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

*** NO EMISSIONS FOUND FOR THIS READING

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RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)



COMPATIBLE
ELECTRONICS

COMPANY	UNIVERSAL ELECTRONICS	DATE	7/2/99
EUT	HOME PRODUCER 8	DUTY CYCLE	20.00 %
MODEL	URC-9800-B00	PEAK TO AVG	-13.98 dB
S/N	PROTOTYPE	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	B

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi- Peak (QP)		Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
4300.0000	***	***	A	H	***	***	X	LOW	30.0	6.5	34.2	***	***	54.0	
4300.0000	***	***	A	H	***	***	Y	LOW	30.0	6.5	34.2	***	***	54.0	
4300.0000	***	***	A	H	***	***	Z	LOW	30.0	6.5	34.2	***	***	54.0	
4300.0000	***	***	A	V	***	***	X	LOW	30.0	6.5	34.2	***	***	54.0	
4300.0000	***	***	A	V	***	***	Y	LOW	30.0	6.5	34.2	***	***	54.0	
4300.0000	***	***	A	V	***	***	Z	LOW	30.0	6.5	34.2	***	***	54.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

*** NO EMISSIONS FOUND FOR THIS READING



NOTES: SPURIOUS EMISSIONS

[illegible]

**** DELTA - CORRECTED READING - SPECIFICATION LIMIT**

-20dB BANDWIDTH OF FUNDAMENTAL

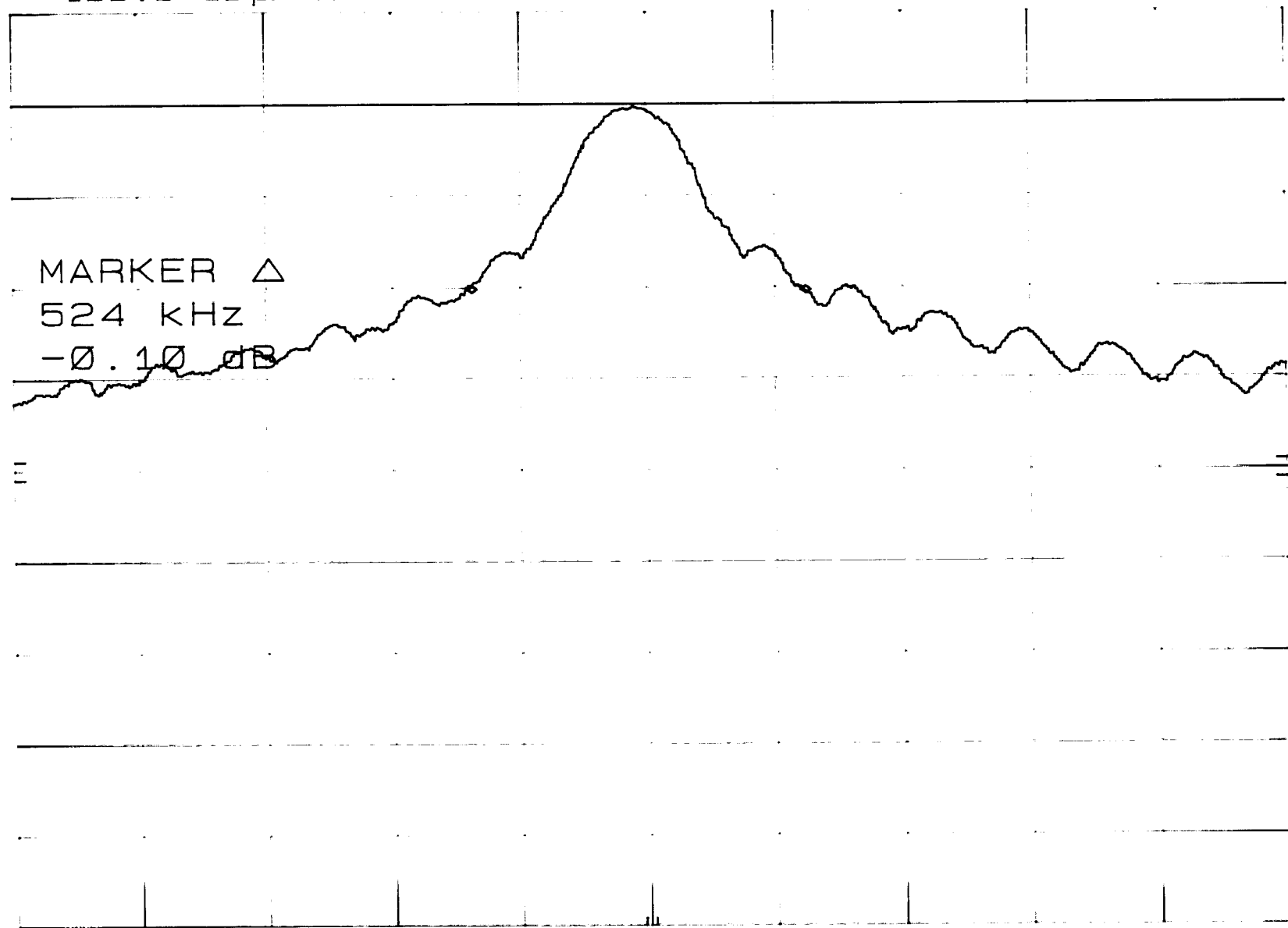
MKR Δ 524 KHz

REF 100.0 dB μ V ATTEN 10 dB

-0.10 dB

hp

10 dB/



MARKER Δ

524 KHz

-0.10 dB

DL

90.0

dB μ V

CORR'D

CENTER 429.81 MHz

RES BW 1 MHz

VBW 1 MHz

SPAN 2.00 MHz

SWP 20.0 msec