COMPATIBLE ELECTRONICS

FCC PART 15, SUBPART C
TEST METHOD: ANSI C63.4-1992

for

900 MHz 40 CHANNEL ANALOG MODULATION CORDLESS PHONE

Model: CP-750

Prepared for

CASIO PHONEMATE, INC.
P.O. BOX 2914
TORRANCE, CALIFORNIA 90509-2914

Prepared by: Kyle Fujimoto

KYLE FUJIMOTO

Approved by: Scott McCutchan

SCOTT McCUTCHAN

COMPATIBLE ELECTRONICS INC.
114 OLINDA DRIVE
BREA, CALIFORNIA 92823
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DATE: AUGUST 16, 1999

	REPORT	APPENDICES				TOTAL
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GENERAL REPORT SUMMARY

This electromagnetic emission and immunity 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 procedures described in the test specifications 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 with the written permission of Compatible Electronics.

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

Device Tested:	900 MHz 40 Channel Analog Modulation Cordless Phone Model: CP-750 S/N: N/A
Product Description:	The EUT is an analog 900 MHz cordless telephone with Caller ID.
Modifications:	The EUT was not modified during the testing.
Manufacturer:	Casio Phonemate, Inc. P.O. Box 2914 Torrance, California 90509-2914
Test Dates:	August 11 and 12, 1999
Test Specifications:	EMI requirements FCC Title 47, Part 15 Subpart C, Sections 15.205, 15.207 and 15.249
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	Complies with the limits of FCC Title 47, Part 15 Subpart C, section 15.207
2	Radiated RF Emissions, 10 kHz - 9300 MHz	Complies with the of FCC Title 47, Part 15 Subpart C, sections 15.205 and 15.249

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the 900 MHz 40 Channel Analog Modulation Cordless Phone Model: CP-750. 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, 15.207, and 15.249.

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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 92823.

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

Casio Phonemate, Inc.

Lananh T. Tran Compliance 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 August 11, 1999

2.5 Disposition of the Test Sample

The test sample was returned to Casio Phonemate, Inc. on August 16, 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

3. APPLICABLE DOCUMENTS

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

SPEC	TITLE
FCC Title 47, Subpart C.	FCC Rules – Radio frequency devices (including digital devices) – Intentional Radiators.
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 TEST CONFIGURATION

4.1 Description of Test Configuration - EMI

Setup and operation of the equipment under test.

The components of the EUT were tested separately.

Specifics of the EUT and Peripherals Tested

Handset being tested: The 900 MHz 40 Channel Analog Modulation Cordless Phone -- Handset Model: CP-750 (EUT) was placed on the wooden table and tested in three orthogonal axis. The handset was connected to the headset via its headset port. The low, middle, and high channels were tested. The handset was transmitting to and receiving from the 900 MHz 40 Channel Analog Modulation Cordless Phone -- Base. The EUT was investigated for emissions while off hook. The radiated data was taken in this mode of operation. All initial investigations were performed with the EMI receiver in manual mode scanning the frequency range continuously. The cables were bundled and routed as shown in the photographs in Appendix C.

Base being tested: The 900 MHz 40 Channel Analog Modulation Cordless Phone -- Base Model: CP-750 (EUT) was placed on the wooden table. The low, middle, and high channels were tested. The base was connected to the line simulator and an AC adapter via its line 1 and power ports, respectively. The line simulator was also connected to a Conair telephone via its line port. The base was transmitting and receiving from the 900 MHz 40 Channel Analog Modulation Cordless Phone -- Handset. The 900 MHz 40 Channel Analog Modulation Cordless Phone -- Handset was also used to dial out a number on the simulator that caused the Comdial telephone to ring. The conducted as well as radiated data was taken in this mode of operation. All initial investigations were performed with the EMI receiver in manual mode scanning the frequency range continuously. The cables were bundled and routed as shown in the photographs in Appendix C.

4.1.1 Cable Construction and Termination

HANDSET BEING TESTED

Cable 1

This is a 6 foot unshielded cable connecting the headphones to the handset. It has a 1/8 inch stereo connector at the headphones end and is hard wired into the handset.

BASE BEING TESTED

Cable 1

This is a 7 foot unshielded cable connecting the Conair telephone to the test line simulator. It has an RJ-11 connector at each end. The cable was bundled to a length of 1 meter.

Cable 2

This is a 6 foot unshielded cable connecting the base to the test line simulator. It has an RJ-11 connector at the test line simulator end and is hard wired into the base. The cable was bundled to a length of 1 meter.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
900 MHz 40 Channel Analog Modulation Cordless Phone – Handset (EUT)	CASIO PHONEMATE, INC.	CP-750	N/A	AAL-CP750
900 MHz 40 Channel Analog Modulation Cordless Phone – Base (EUT)	CASIO PHONEMATE, INC.	CP-750	N/A	AAL-CP750
PHONE	CONAIR CORPORATION	SW2502	N/A	N/A
TEST LINE SIMULATOR	TELTONE	TLS 3	N/A	N/A
AC ADAPTER	CASIO PHONEMATE, INC.	M/N-80	N/A	N/A

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. DUE DATE
Spectrum Analyzer	Hewlett Packard	8566B	3638A08789	July 28, 1999	July 28, 2000
Preamplifier	Com Power	PA-102	1400	July 9, 1999	July 9, 2000
Quasi-Peak Adapter	Hewlett Packard	85650A	2521A00924	July 27, 1999	July 27, 2000
RF Attenuator	Com-Power	412-10	N/A	Nov. 20, 1998	Nov. 20, 1999
LISN	Com Power	LI-200	1764	Jan. 3, 1999	Jan. 3, 2000
LISN	Com Power	LI-200	1771	Jan. 3, 1999	Jan. 3, 2000
LISN	Com Power	LI-200	1775	Jan. 3, 1999	Jan. 3, 2000
LISN	Com Power	LI-200	1780	Jan. 3, 1999	Jan. 3, 2000
Biconical Antenna	Com Power	AB-100	1543	Oct. 15, 1998	Oct. 15, 1999
Log Periodic Antenna	Com Power	AL-100	1011	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	D5251A 888	US74458128	N/A	N/A
Printer	Hewlett Packard	C5886A	SG7CM1P090	N/A	N/A
Monitor	Hewlett Packard	D7438A	DT91401489	N/A	N/A
Loop Antenna	Com-Power	AL-130	25309	April 13, 1999	April 13, 2000
Horn Antenna	Antenna Research	DRG-118/A	1053	Dec. 8, 1995	N/A
Microwave Preamplifier	Hewlett Packard	8449B	3008A008766	Jan. 30, 1999	Jan. 30, 2000

6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 and 7.1.2 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. Test results are also included in this section.

7.1 RF Emissions

7.1.1 Conducted Emissions Test

The spectrum analyzer was used as a measuring meter along with the quasi-peak adapter. The data was collected with the spectrum analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak detector was used only where indicated in the data sheets. A 10 dB attenuation pad was used for the protection of the spectrum analyzer input stage, and the spectrum analyzer offset was adjusted accordingly to read the actual data measured. The LISN output was read by the spectrum analyzer. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for the conducted emissions test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4: 1992. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The initial test data was taken in manual mode while scanning the frequencies ranges of 0.45 MHz to 1.6 MHz, 1.6 MHz to 5 MHz and 5 MHz to 30 MHz. The conducted emissions from the EUT were maximized for operating mode as well as cable placement. Once a predominant frequency (within 12 dB of the limit) was found, it was more closely examined with the spectrum analyzer span adjusted to 1 MHz.

The final data was collected under program control by the HP 9000/300 in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave.

7.1.2 Radiated Emissions (Spurious and Harmonics) 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 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 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 300 MHz	120 kHz	Biconical Antenna
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna
1 GHz to 9.3GHz	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. Click on the link below to see the radiated data sheets.

8. CONCLUSIONS

The 900 MHz 40 Channel Analog Modulation Cordless Phone Model: CP-750 meets all of the specification limits defined in FCC Title 47, Part 15, Subpart C, sections 15.205, 15.207, and 15.249.

APPENDIX A

MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

No modifications were made to the EUT

APPENDIX B

ADDITIONAL MODELS COVERED UNDER THIS REPORT

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST	900 MHz 40 Channel Analog Modulation Cordless Phone Model: CP-750 S/N: N/A
ADDITIONAL MODEL COVERED UNDER THIS REPORT	900 MHz 40 Channel Analog Modulation Cordless Phone Model: CP-749 S/N: N/A

The CP-749 is the same as the CP-750 except that the “Modem Monitor” feature was disabled on both the base and handset.

APPENDIX C

DIAGRAMS, CHARTS AND PHOTOS

FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

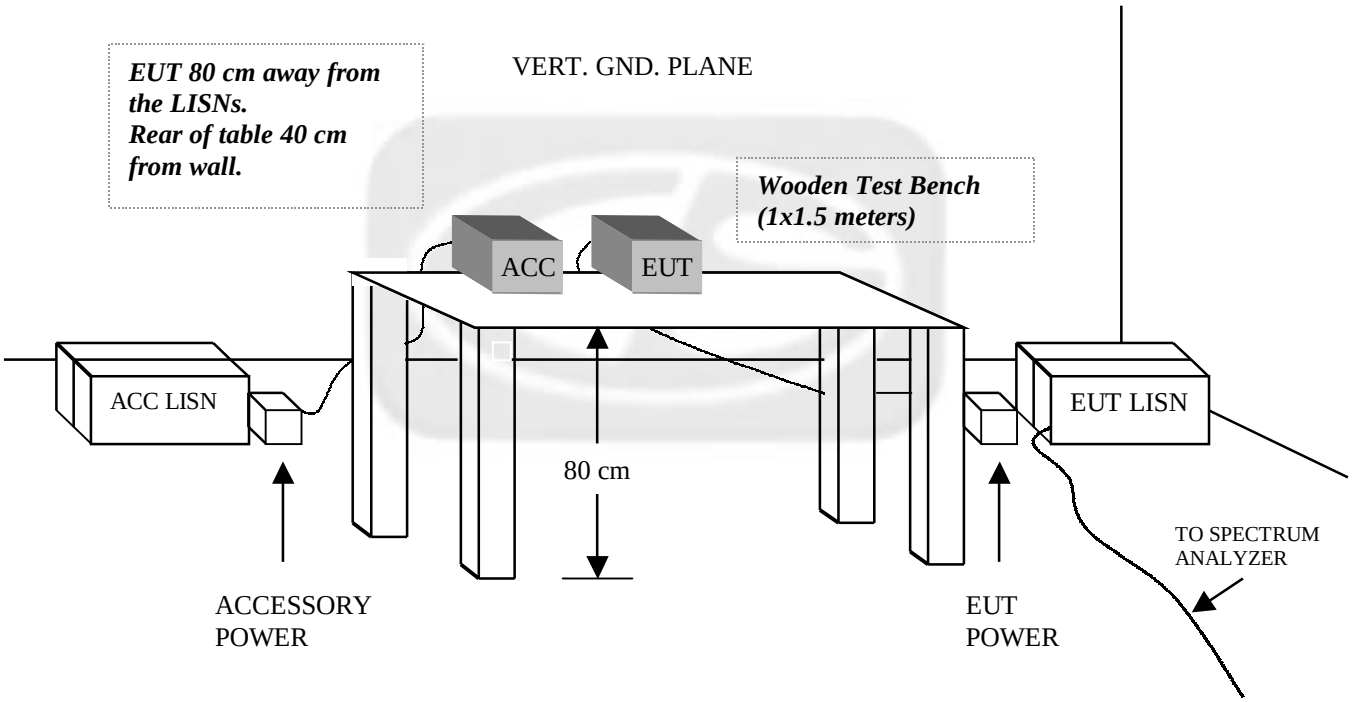
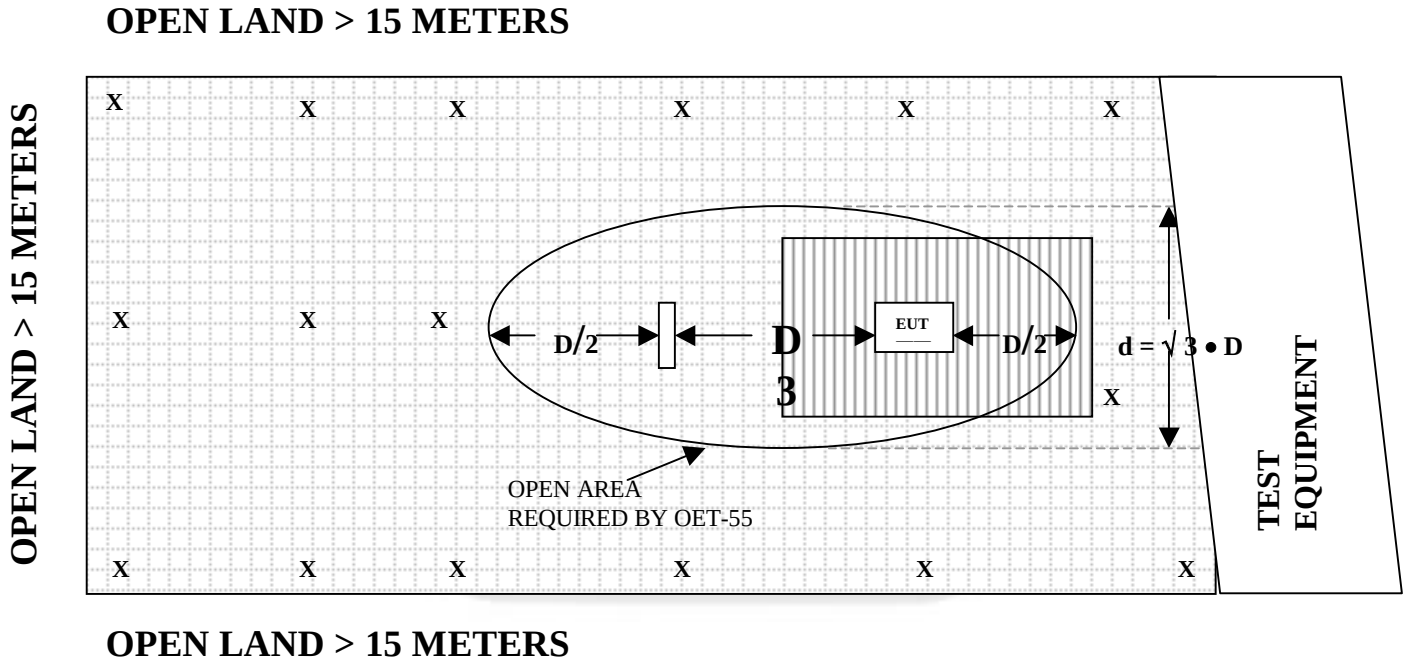
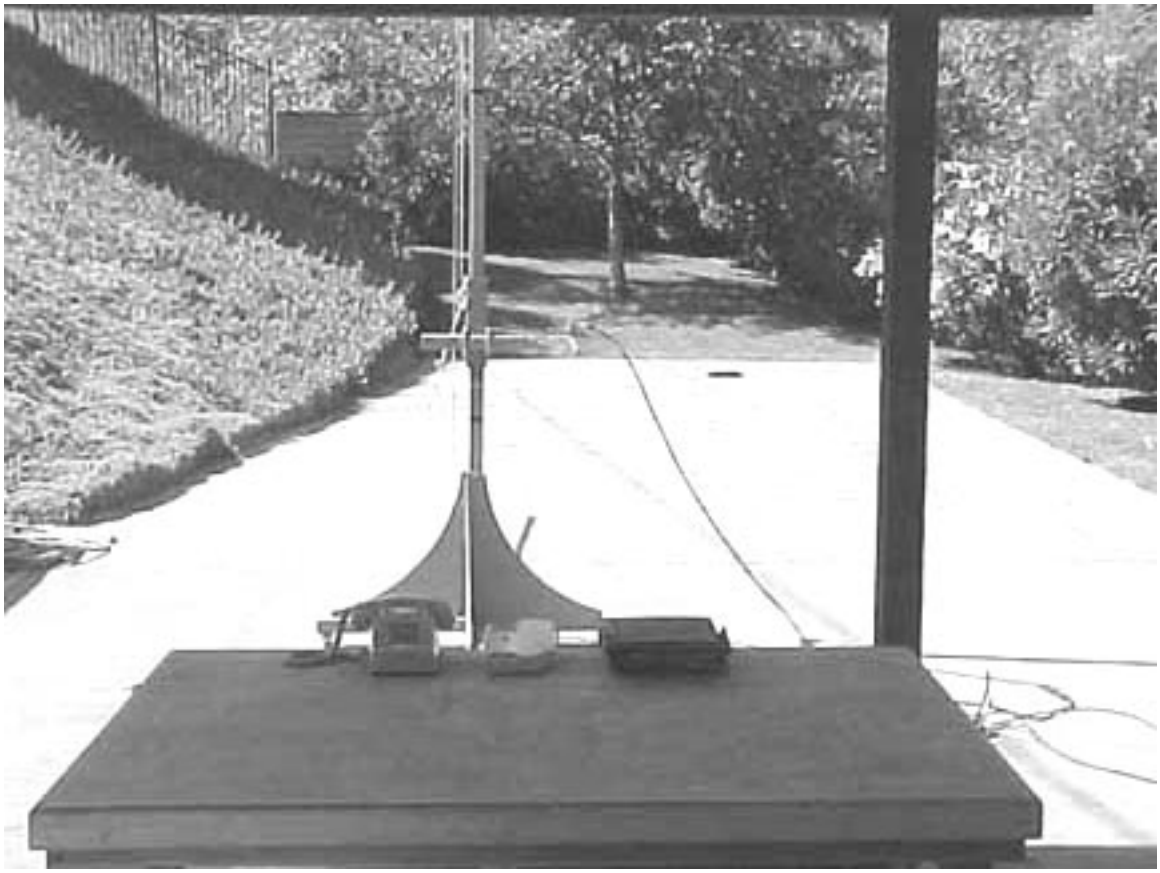


FIGURE 2: PLOT MAP AND LAYOUT OF RADIATED SITE

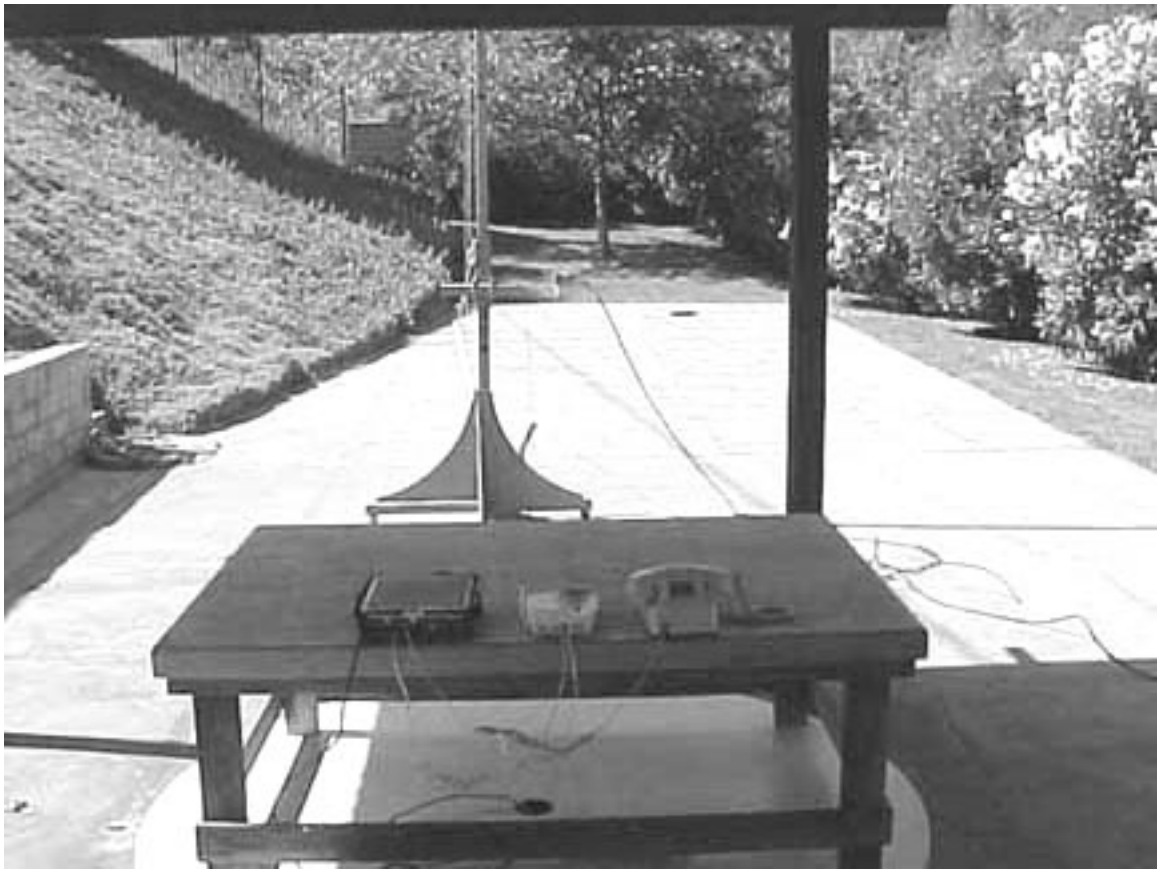




FRONT VIEW

CASIO PHONEMATE, INC.
900 MHz 40 CHANNEL ANALOG MODULATION CORDLESS PHONE - BASE
Model: CP-750
FCC SUBPART C - RADIATED EMISSIONS – 8-11-99 AND 8-12-99

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



REAR VIEW

CASIO PHONEMATE, INC.
900 MHz 40 CHANNEL ANALOG MODULATION CORDLESS PHONE - BASE
Model: CP-750
FCC SUBPART C - RADIATED EMISSIONS – 8-11-99 AND 8-12-99

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

FRONT VIEW

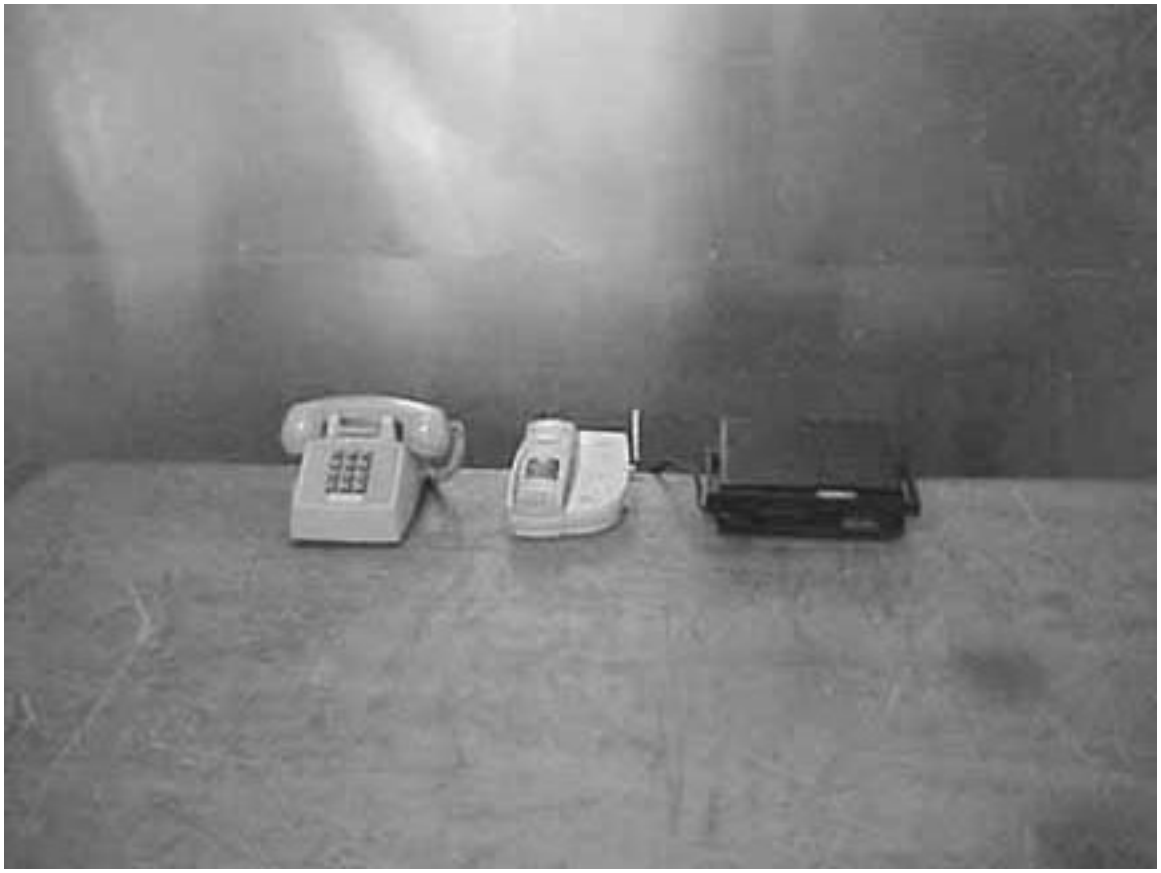
CASIO PHONEMATE, INC.
900 MHz 40 CHANNEL ANALOG MODULATION CORDLESS PHONE - HANDSET
Model: CP-750
FCC SUBPART C - RADIATED EMISSIONS – 8-11-99 AND 8-12-99

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

CASIO PHONEMATE, INC.
900 MHz 40 CHANNEL ANALOG MODULATION CORDLESS PHONE - HANDSET
Model: CP-750
FCC SUBPART C - RADIATED EMISSIONS – 8-11-99 AND 8-12-99

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



FRONT VIEW

CASIO PHONEMATE, INC.
900 MHz 40 CHANNEL ANALOG MODULATION CORDLESS PHONE - BASE
Model: CP-750
FCC SUBPART C - CONDUCTED EMISSIONS – 8-12-99

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

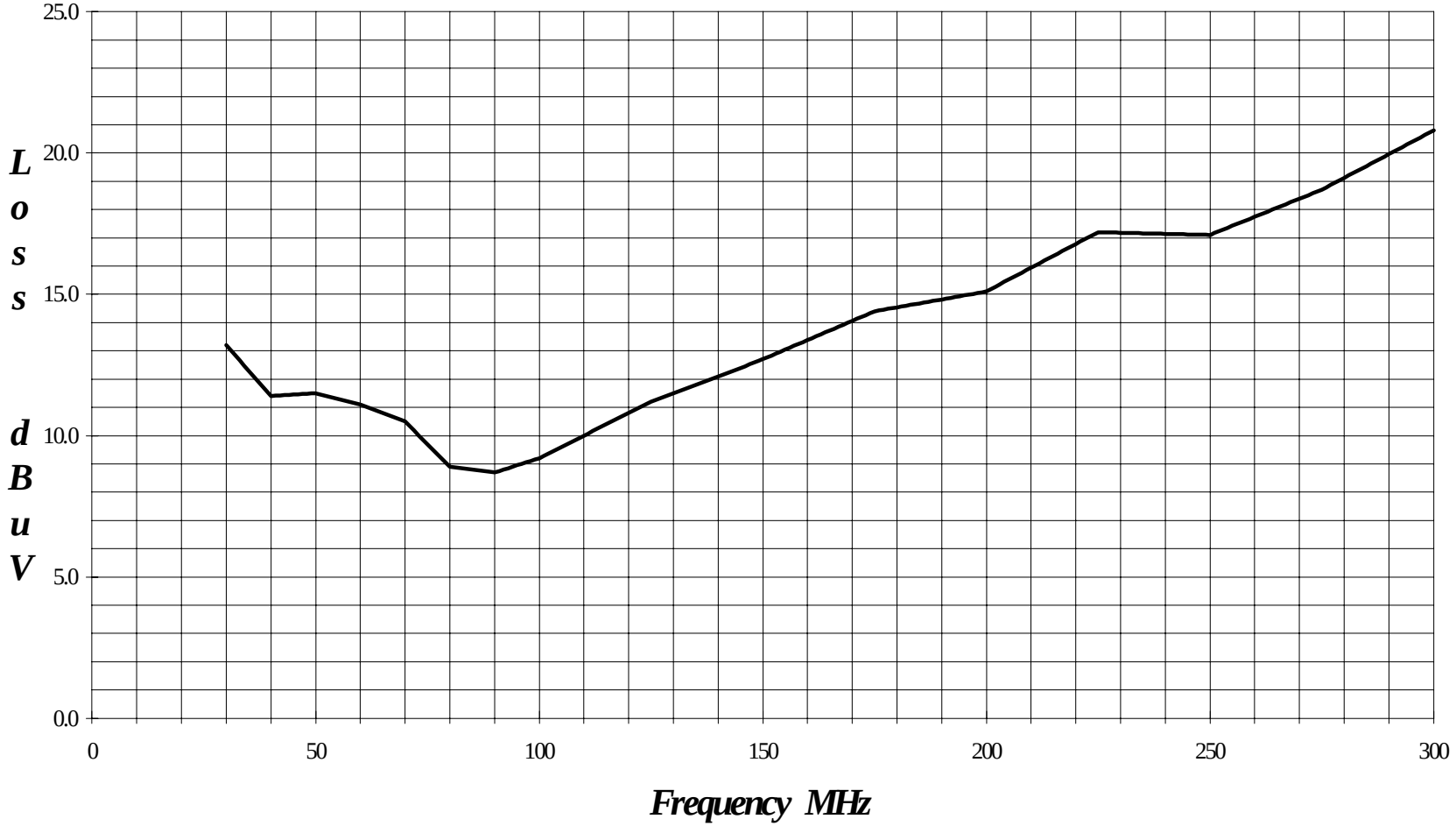
REAR VIEW

CASIO PHONEMATE, INC.
900 MHz 40 CHANNEL ANALOG MODULATION CORDLESS PHONE - BASE
Model: CP-750
FCC SUBPART C - CONDUCTED EMISSIONS – 8-12-99

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

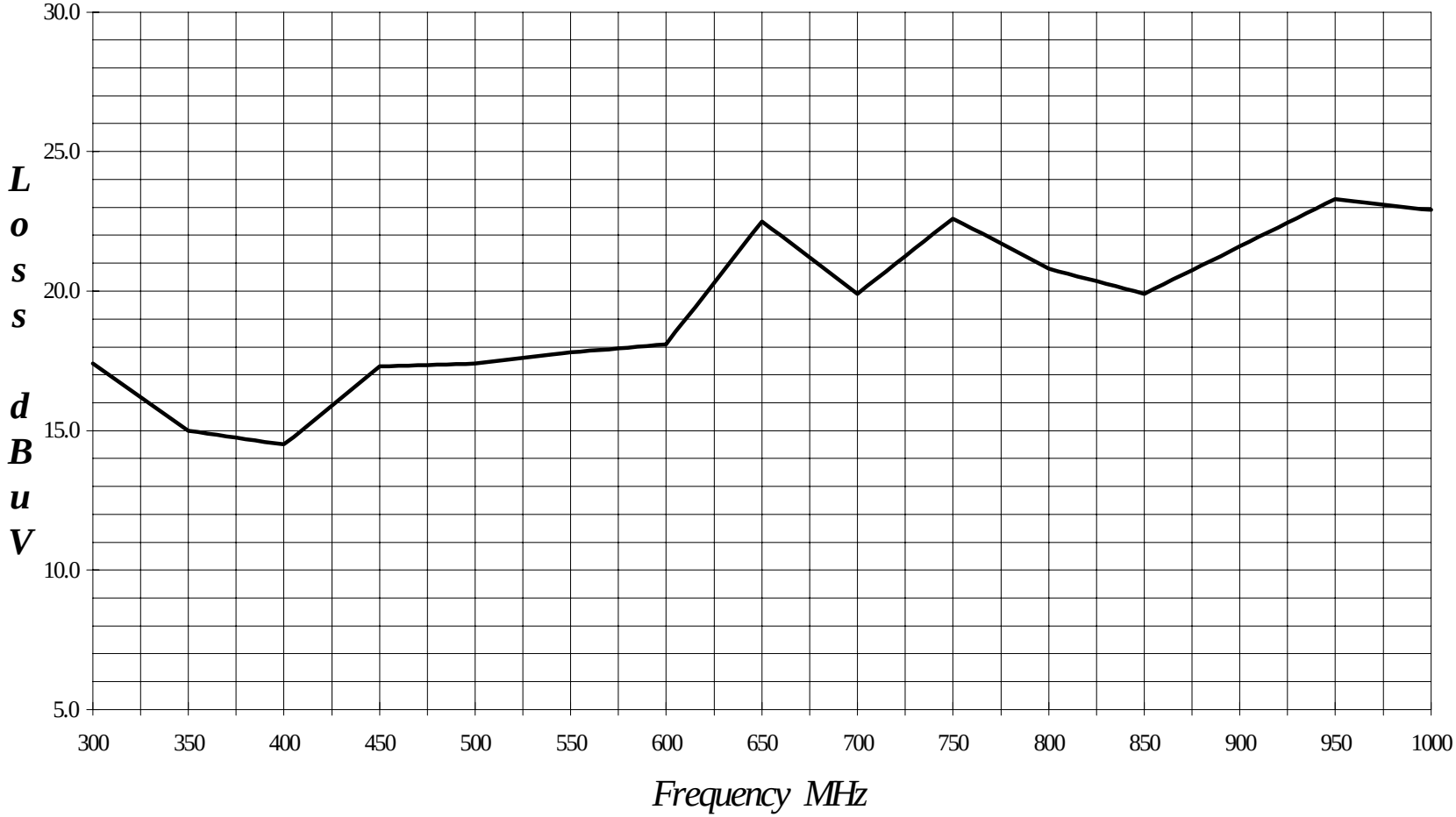
***Cal*: 10/15/98**

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



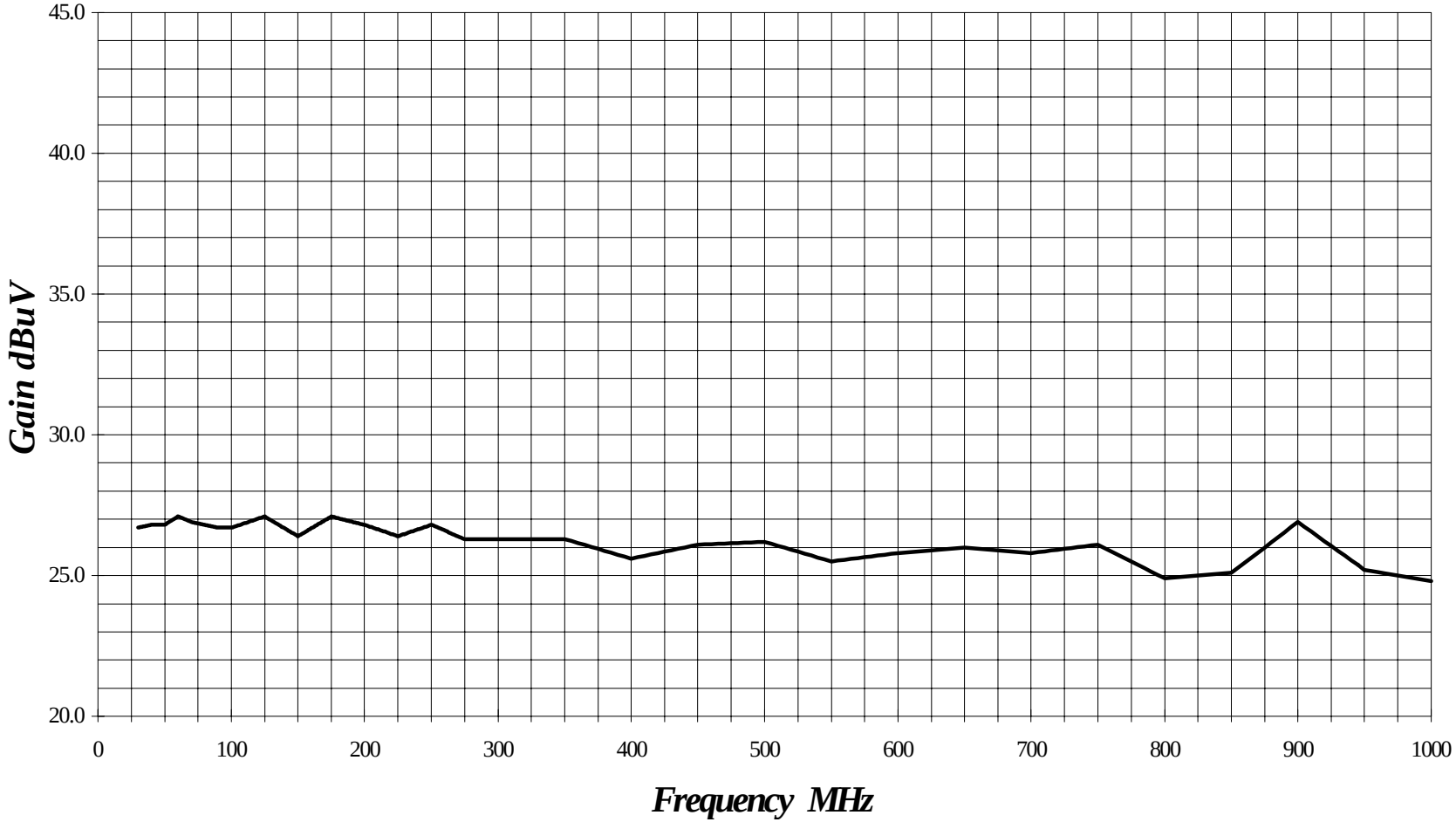
***Cal*: 10/15/98**

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



Lab "B" Effective: **5/3/99** *Effective Gain = Preamplifier Gain – Cable Loss*

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

ANTENNA RESEARCH ASSOCIATES, INC.
11317 Frederick Avenue, Beltsville, MD 20705

E-FIELD ANTENNA FACTOR CALIBRATION

E(dB V/m) = Vo(dB V) + AFE(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

APPENDIX D

DATA SHEETS

CONDUCTED EMISSIONS DATA SHEETS

COMPATIBLE ELECTRONICS

8/12/1999 14:56:10

CASIO PHONEMATE, INC.
900 MHz CORD. PHONE - BASE
CP-750
FCC - B BLACK LEAD
TEST ENGINEER : James Ross
JAMES ROSS

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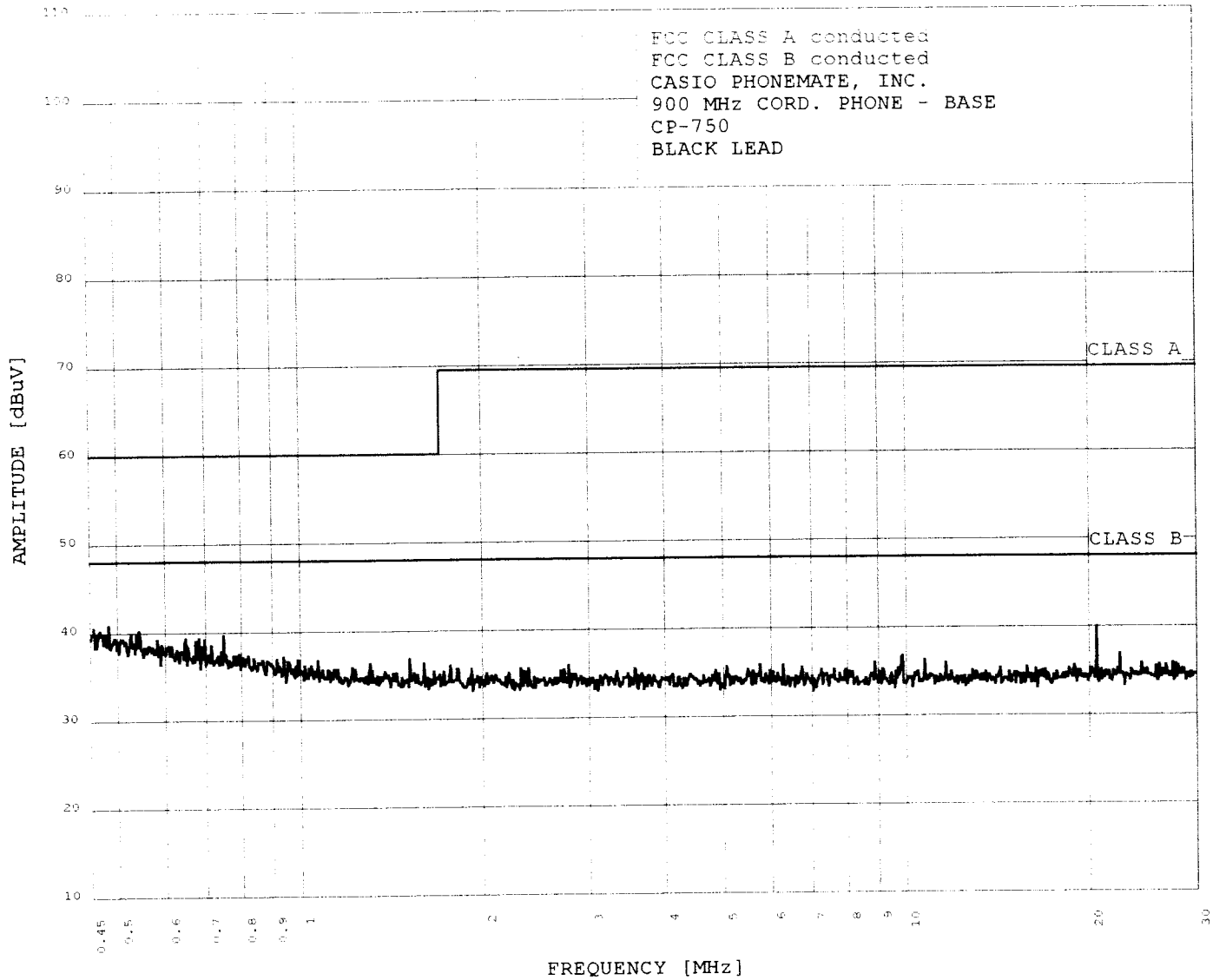
20 highest peaks above -50.00 dB of CLASS B limit line
Peak criteria : 0.50 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.484	40.77	48.00	-7.23
2	0.456	40.47	48.00	-7.53
3	0.542	40.17	48.00	-7.83
4	0.468	40.17	48.00	-7.83
5	20.576	39.92	48.00	-8.08
6	0.537	39.87	48.00	-8.13
7	0.476	39.87	48.00	-8.13
8	0.526	39.77	48.00	-8.23
9	0.460	39.77	48.00	-8.23
10	0.748	39.57	48.00	-8.43
11	0.494	39.37	48.00	-8.63
12	0.682	39.27	48.00	-8.73
13	0.649	39.27	48.00	-8.73
14	0.509	39.27	48.00	-8.73
15	0.697	39.17	48.00	-8.83
16	0.581	39.17	48.00	-8.83
17	0.674	38.97	48.00	-9.03
18	0.500	38.97	48.00	-9.03
19	0.592	38.57	48.00	-9.43
20	0.715	38.47	48.00	-9.53

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

8/12/1999 14:56:10



COMPATIBLE ELECTRONICS

COMPATIBLE ELECTRONICS

8/12/1999 14:51:32

CASIO PHONEMATE, INC.
900 MHz CORD. PHONE - BASE
CP-750
FCC - B WHITE LEAD
TEST ENGINEER : James Ross
JAMES ROSS

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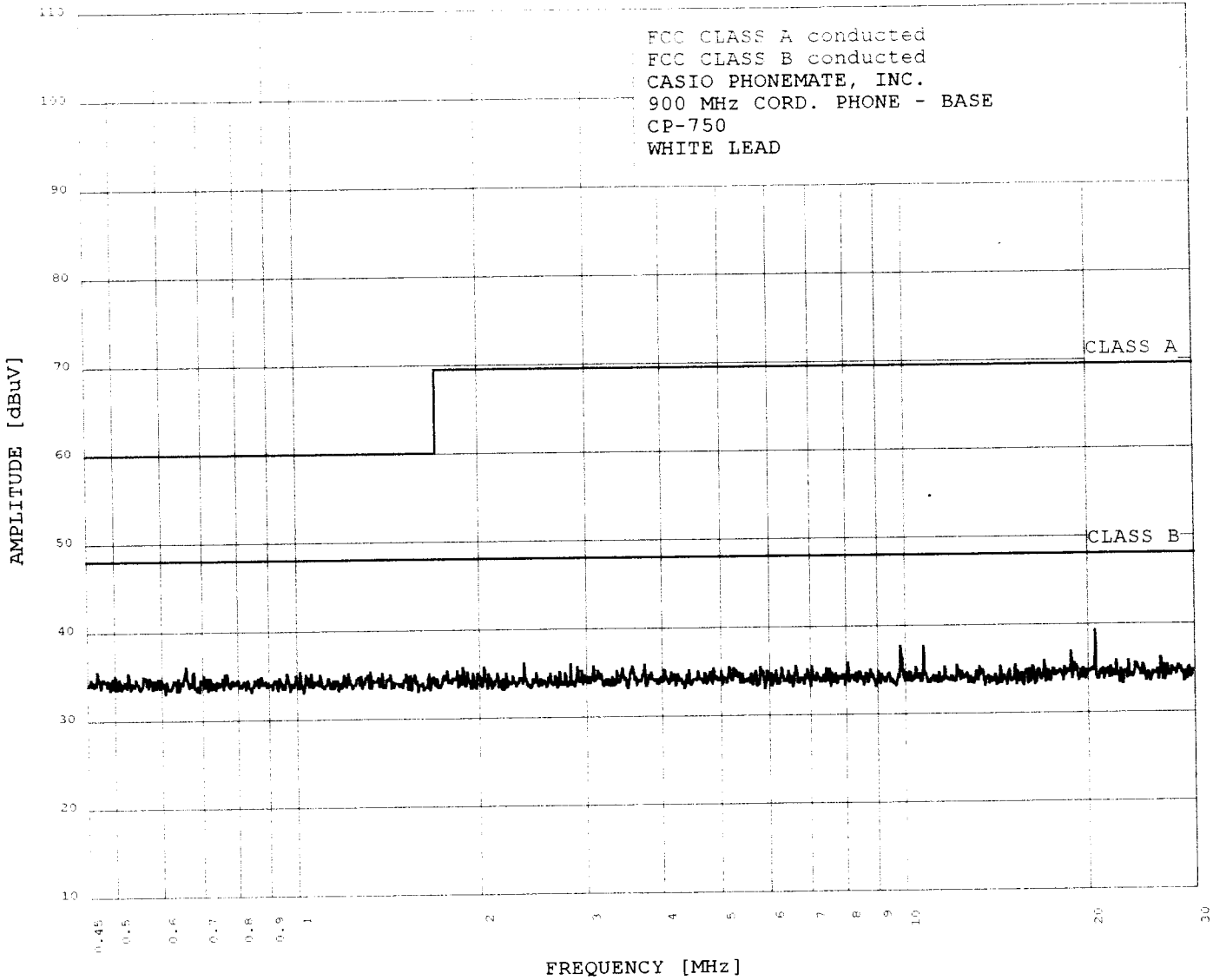
20 highest peaks above -50.00 dB of CLASS B limit line
Peak criteria : 0.50 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	20.576	39.20	48.00	-8.80
2	10.729	37.59	48.00	-10.41
3	9.824	37.58	48.00	-10.42
4	18.759	36.84	48.00	-11.16
5	2.366	36.08	48.00	-11.92
6	26.361	36.08	48.00	-11.92
7	0.657	35.98	48.00	-12.02
8	2.821	35.88	48.00	-12.12
9	16.956	35.84	48.00	-12.16
10	8.065	35.78	48.00	-12.22
11	3.739	35.78	48.00	-12.22
12	22.285	35.78	48.00	-12.22
13	23.318	35.76	48.00	-12.24
14	3.081	35.68	48.00	-12.32
15	2.033	35.68	48.00	-12.32
16	1.876	35.68	48.00	-12.32
17	3.571	35.58	48.00	-12.42
18	2.893	35.58	48.00	-12.42
19	23.931	35.56	48.00	-12.44
20	18.997	35.55	48.00	-12.45

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

8/12/1999 14:51:32



COMPATIBLE ELECTRONICS

RADIATED EMISSIONS
DATA SHEETS FOR THE HANDSET

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	CASIO PHONEMATE, INC.	DATE	8/11/99
EUT	900 MHz 40 Channel Analog Modulation Cordless Phone - HANDSET	DUTY CYCLE	N/A
MODEL	CP-750	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	D

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
925.1000	57.1	57.0 A	H	2.0	180	Y	LOW	21.7	3.8	0.0	**82.5**	**-11.5**	**94.0**	
925.1000	60.9	60.8 A	V	1.5	90	Y	LOW	21.7	3.8	0.0	**86.3**	**-7.7**	**94.0**	
926.2800	55.2	55.1 A	H	2.0	180	Y	MID	21.7	3.8	0.0	**80.6**	**-13.4**	**94.0**	
926.2800	60.2	60.1 A	V	1.0	0	Y	MID	21.7	3.8	0.0	**85.6**	**-8.4**	**94.0**	
927.4780	54..6	54.5 A	H	2.0	90	Y	HI	21.7	3.8	0.0	**80.0**	**-14.0**	**94.0**	
927.4780	58.9	58.8 A	V	1.0	0	Y	HI	21.7	3.8	0.0	**84.3**	**-9.7**	**94.0**	

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

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	CASIO PHONEMATE, INC.	DATE	8/11/99
EUT	900 MHz 40 Channel Analog Modulation Cordless Phone - HANDSET	DUTY CYCLE	N/A
MODEL	CP-750	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	D

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
1850.2000	46.0	A	H	1.5	180	Y	LOW	24.5	3.5	35.5	**38.5**	**-15.5**	**54.0**	
1850.2000	42.9	A	V	1.5	0	Y	LOW	24.5	3.5	35.5	**35.4**	**-18.6**	**54.0**	
1852.5600	46.2	A	H	1.5	180	Y	MID	24.5	3.5	35.5	**38.7**	**-15.3**	**54.0**	
1852.5600	43.4	A	V	1.5	0	Y	MID	24.5	3.5	35.5	**35.9**	**-18.1**	**54.0**	
1854.9560	43.8	A	H	1.0	180	Y	HI	24.5	3.5	35.5	**36.3**	**-17.7**	**54.0**	
1854.9560	44.6	A	V	1.0	0	Y	HI	24.5	3.5	35.5	**37.1**	**-16.9**	**54.0**	

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

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	CASIO PHONEMATE, INC.	DATE	8/11/99
EUT	900 MHz 40 Channel Analog Modulation Cordless Phone - HANDSET	DUTY CYCLE	N/A
MODEL	CP-750	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	D

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
2775.3000	50.9	46.1 A	H	1.5	270	Y	LOW	29.7	4.7	35.2	**45.3**	**-8.7**	**54.0**	
2775.3000	48.9	43.8 A	V	1.5	90	Y	LOW	29.7	4.7	35.2	**43.0**	**-11.0**	**54.0**	
2778.8400	50.8	46.1 A	H	1.5	0	Y	MID	29.7	4.7	35.2	**45.3**	**-8.7**	**54.0**	
2778.8400	49.3	44.6 A	V	1.0	180	Y	MID	29.7	4.7	35.2	**43.8**	**-10.2**	**54.0**	
2782.4340	50.9	46.2 A	H	1.0	270	Y	HI	29.7	4.7	35.2	**45.4**	**-8.6**	**54.0**	
2782.4340	50.7	46.1 A	V	1.0	180	Y	HI	29.7	4.7	35.2	**45.3**	**-8.7**	**54.0**	

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

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	CASIO PHONEMATE, INC.	DATE	8/11/99
EUT	900 MHz 40 Channel Analog Modulation Cordless Phone - HANDSET	DUTY CYCLE	N/A
MODEL	CP-750	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	D

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
3700.4000	42.0	A	H	1.5	90	Y	LOW	29.6	3.8	35.2	40.2	-13.8	54.0	
3700.4000	43.3	A	V	1.0	90	Y	LOW	29.6	3.8	35.2	41.5	-12.5	54.0	
3705.1200	43.3	A	H	1.5	90	Y	MID	29.6	3.8	35.2	41.5	-12.5	54.0	
3705.1200	42.3	A	V	1.0	180	Y	MID	29.6	3.8	35.2	40.5	-13.5	54.0	
3709.9120	42.5	A	H	1.0	0	Y	HI	29.6	3.8	35.2	40.7	-13.3	54.0	
3709.9120	44.6	A	V	1.0	180	Y	HI	29.6	3.8	35.2	42.8	-11.2	54.0	

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

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	CASIO PHONEMATE, INC.	DATE	8/11/99
EUT	900 MHz 40 Channel Analog Modulation Cordless Phone - HANDSET	DUTY CYCLE	N/A
MODEL	CP-750	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	D

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
4625.5000	42.7	33.6 A	H	1.5	90	Y	LOW	30.9	8.4	34.1	**38.8**	**-15.2**	**54.0**	
4625.5000	42.9	33.8 A	V	1.5	90	Y	LOW	30.9	8.4	34.1	**39.0**	**-15.0**	**54.0**	
4631.4000	41.8	33.4 A	H	1.5	90	Y	MID	30.9	8.4	34.1	**38.6**	**-15.4**	**54.0**	
4631.4000	41.9	33.3 A	V	1.0	180	Y	MID	30.9	8.4	34.1	**38.5**	**-15.5**	**54.0**	
4637.3900	41.1	33.5 A	H	1.0	0	Y	HI	30.9	8.4	34.1	**38.7**	**-15.3**	**54.0**	
4637.3900	41.7	33.7 A	V	1.0	180	Y	HI	30.9	8.4	34.1	**38.9**	**-15.1**	**54.0**	

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

** DELTA = SPEC LIMIT - CORRECTED READING

Note: No Emissions Found After The 5th Harmonic

Test location: Compatible Electronics
Customer : CASIO PHONEMATE
Manufacturer : CASIO PHONEMATE
EUT name : 900 MHz 40 CHANNEL ANALOG MODULATION CORDLESS PHONE
Specification: Fcc_B Test distance: 3.0 mtrs
Distance correction factor(20*log(test/spec)) :
Test Mode :

Date : 8/12/1999
Time : 9.00
Model: CP-750
Lab: B
: 0.00

SPURIOUS EMISSONS FOR BOTH THE BASE AND HANDSET 10 kHz - 30 MHz
TEMPERATURE 80 DEGREES, RELATIVE HUMIDITY 55%
TESTED BY: JAMES ROSS

NO EMISSIONS FOUND BETWEEN 10 kHz AND 30 MHz
FOR BOTH THE BASE AND HANDSET IN BOTH POLARIZATIONS

Test location: Compatible Electronics
Customer : CASIO PHONEMATE
Manufacturer : CASIO PHONEMATE
EUT name : 900MHz 40 CHANNEL ANALOG MODULATION CORDLESS PHONE
Specification: Fcc_B Test distance: 3.0 mtrs
Distance correction factor(20*log(test/spec))
Test Mode :
HANDSET UNIT - SPURIOUS EMISSIONS
TEMPERATURE 80 DEGREES, RELATIVE HUMIDITY 55%
TESTED BY: James Ross
JAMES ROSS

Date : 8/12/1999
Time : 10.29
Model: CP-750
Lab: B
: 0.00

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
1V	463.54	53.60	2.55	18.43	34.60	39.99	46.00	-6.01
2H	463.54	41.00	2.55	18.43	34.60	27.39	46.00	-18.61

RADIATED EMISSIONS
DATA SHEETS FOR THE BASE

114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	CASIO PHONEMATE, INC.	DATE	8/11/99
EUT	900 MHz 40 Channel Analog Modulation Cordless Phone - BASE	DUTY CYCLE	N/A
MODEL	CP-750	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	D

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
902.5800	60.9	60.8 A	H	1.0	0	X	LOW	20.8	3.7	0.0	**85.3**	**-8.7**	**94.0**	
902.5800	64.9	64.8 A	V	2.0	90	X	LOW	20.8	3.7	0.0	**89.3**	**-4.7**	**94.0**	
903.7200	59.2	59.1 A	H	1.0	0	X	MID	21.2	3.7	0.0	**84.0**	**-10.0**	**94.0**	
903.7200	62.9	62.8 A	V	2.0	90	X	MID	21.2	3.7	0.0	**87.7**	**-6.3**	**94.0**	
904.9200	58.9	58.8 A	H	1.0	0	X	HI	21.5	3.7	0.0	**84.0**	**-10.0**	**94.0**	
904.9200	62.1	62.0 A	V	2.0	90	X	HI	21.5	3.7	0.0	**87.2**	**-6.8**	**94.0**	

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

** DELTA = SPEC LIMIT - CORRECTED READING

COMPATIBLE ELECTRONICS

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	CASIO PHONEMATE, INC.	DATE	8/11/99
EUT	900 MHz 40 Channel Analog Modulation Cordless Phone - BASE	DUTY CYCLE	N/A
MODEL	CP-750	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	D

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
1805.1600	42.7	A	H	1.5	180	X	LOW	24.5	3.1	35.6	**34.7**	**-19.3**	**54.0**	
1805.1600	43.2	A	V	1.0	180	X	LOW	24.5	3.1	35.6	**35.2**	**-18.8**	**54.0**	
1807.4400	41.9	A	H	1.5	180	X	MID	24.5	3.1	35.6	**33.9**	**-20.1**	**54.0**	
1807.4400	42.9	A	V	1.5	0	X	MID	24.5	3.1	35.6	**34.9**	**-19.1**	**54.0**	
1809.8400	42.3	A	H	1.0	270	X	HI	24.5	3.1	35.6	**34.3**	**-19.7**	**54.0**	
1809.8400	43.0	A	V	1.0	0	X	HI	24.5	3.1	35.6	**35.0**	**-19.0**	**54.0**	

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

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	CASIO PHONEMATE, INC.	DATE	8/11/99
EUT	900 MHz 40 Channel Analog Modulation Cordless Phone - BASE	DUTY CYCLE	N/A
MODEL	CP-750	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	D

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
2707.7400	48.2	41.9 A	H	1.5	0	X	LOW	28.2	3.4	35.6	**37.9**	**-16.1**	**54.0**	
2707.7400	49.0	42.6 A	V	1.5	90	X	LOW	28.2	3.4	35.6	**38.6**	**-15.5**	**54.0**	
2711.1600	49.3	44.2 A	H	1.5	180	X	MID	28.2	3.4	35.6	**40.2**	**-13.8**	**54.0**	
2711.1600	47.5	42.0 A	V	1.5	180	X	MID	28.2	3.4	35.6	**38.0**	**-16.0**	**54.0**	
2714.7600	45.7	39.2 A	H	1.0	270	X	HI	28.2	3.4	35.6	**35.2**	**-18.8**	**54.0**	
2714.7600	47.5	40.5 A	V	1.0	90	X	HI	28.2	3.4	35.6	**36.5**	**-17.5**	**54.0**	

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

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	CASIO PHONEMATE, INC.	DATE	8/11/99
EUT	900 MHz 40 Channel Analog Modulation Cordless Phone - BASE	DUTY CYCLE	N/A
MODEL	CP-750	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	D

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
3610.3200	40.3	A	H	1.5	90	X	LOW	29.6	3.8	35.2	**38.5**	**-15.5**	**54.0**	
3610.3200	39.4	A	V	1.5	180	X	LOW	29.6	3.8	35.2	**37.6**	**-16.4**	**54.0**	
3614.8800	40.5	A	H	1.5	180	X	MID	29.6	3.8	35.2	**38.7**	**-15.3**	**54.0**	
3614.8800	40.2	A	V	1.5	90	X	MID	29.6	3.8	35.2	**38.4**	**-15.6**	**54.0**	
3619.6800	42.0	A	H	1.0	270	X	HI	29.6	3.8	35.2	**40.2**	**-13.8**	**54.0**	
3619.6800	42.4	A	V	1.5	90	X	HI	29.6	3.8	35.2	**40.6**	**-13.4**	**54.0**	

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

** DELTA = SPEC LIMIT - CORRECTED READING

COMPATIBLE ELECTRONICS

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.249)

COMPANY	CASIO PHONEMATE, INC.	DATE	8/11/99
EUT	900 MHz 40 Channel Analog Modulation Cordless Phone - BASE	DUTY CYCLE	N/A
MODEL	CP-750	PEAK TO AVG	N/A
S/N	N/A	TEST DIST.	3 METERS
TEST ENGINEER	James Ross	LAB	D

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
4512.9000	40.1	A	H	1.5	90	X	LOW	30.9	8.4	34.1	**45.3**	**-8.7**	**54.0**	
4512.9000	40.8	A	V	1.5	90	X	LOW	30.9	8.4	34.1	**46.0**	**-8.0**	**54.0**	
4518.6000	40.1	A	H	1.5	0	X	MID	30.9	8.4	34.1	**45.3**	**-8.7**	**54.0**	
4518.6000	40.0	A	V	1.5	180	X	MID	30.9	8.4	34.1	**45.2**	**-8.8**	**54.0**	
4524.6000	40.5	A	H	1.0	90	X	HI	30.9	8.4	34.1	**45.7**	**-8.3**	**54.0**	
4524.6000	41.0	A	V	1.5	0	X	HI	30.9	8.4	34.1	**46.2**	**-7.8**	**54.0**	

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

** DELTA = SPEC LIMIT - CORRECTED READING

Note: No Emissions Found After The 5th Harmonic

COMPATIBLE ELECTRONICS

Test location: Compatible Electronics
Customer : CASIO PHONEMATE Date : 8/12/1999
Manufacturer : CASIO PHONEMATE Time : 9.00
EUT name : 900 MHz 40 CHANNEL ANALOG MODULATION CORDLESS PHONE Model: CP-750
Specification: Fcc_B Test distance: 3.0 mtrs Lab: B
Distance correction factor(20*log(test/spec)) : 0.00
Test Mode :
SPURIOUS EMISSONS FOR BOTH THE BASE AND HANDSET 10 kHz - 30 MHz
TEMPERATURE 80 DEGREES, RELATIVE HUMIDITY 55%
TESTED BY: James Ross
JAMES ROSS

NO EMISSIONS FOUND BETWEEN 10 kHz AND 30 MHz
FOR BOTH THE BASE AND HANDSET IN BOTH POLARIZATIONS

Test location: Compatible Electronics
Customer : CASIO PHONEMATE
Manufacturer : CASIO PHONEMATE
EUT name : 900MHz 40 CHANNEL ANALOG
Specification: Fcc_B Test distance: 3.0 mtrs
Distance correction factor(20*log(test/spec)) : 0.00
Test Mode :
BASE UNIT - SPURIOUS EMISSIONS
TEMPERATURE 80 DEGREES, RELATIVE HUMIDITY 55%
TESTED BY: James Ross
JAMES ROSS

Date : 8/12/1999
Time : 14.30
Model: CP-750
Lab: B

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
1H	452.15	56.20	2.51	18.91	34.60	43.02	46.00	-2.98
2H	452.15	55.76	2.51	18.91	34.60	42.58Qp	46.00	-3.42

BAND EDGE
DATA SHEETS

8-12-99

BAND EDGE OF LOW CHANNEL – BASE

MKR 902.000 MHz
39.60 dBµV

REF 107.0 dBµV ATTEN 10 dB

hp

10 dB/

MARKER
902.000 MHz
39.60 dBµV

DL
95.8
dBµV

902 MHz

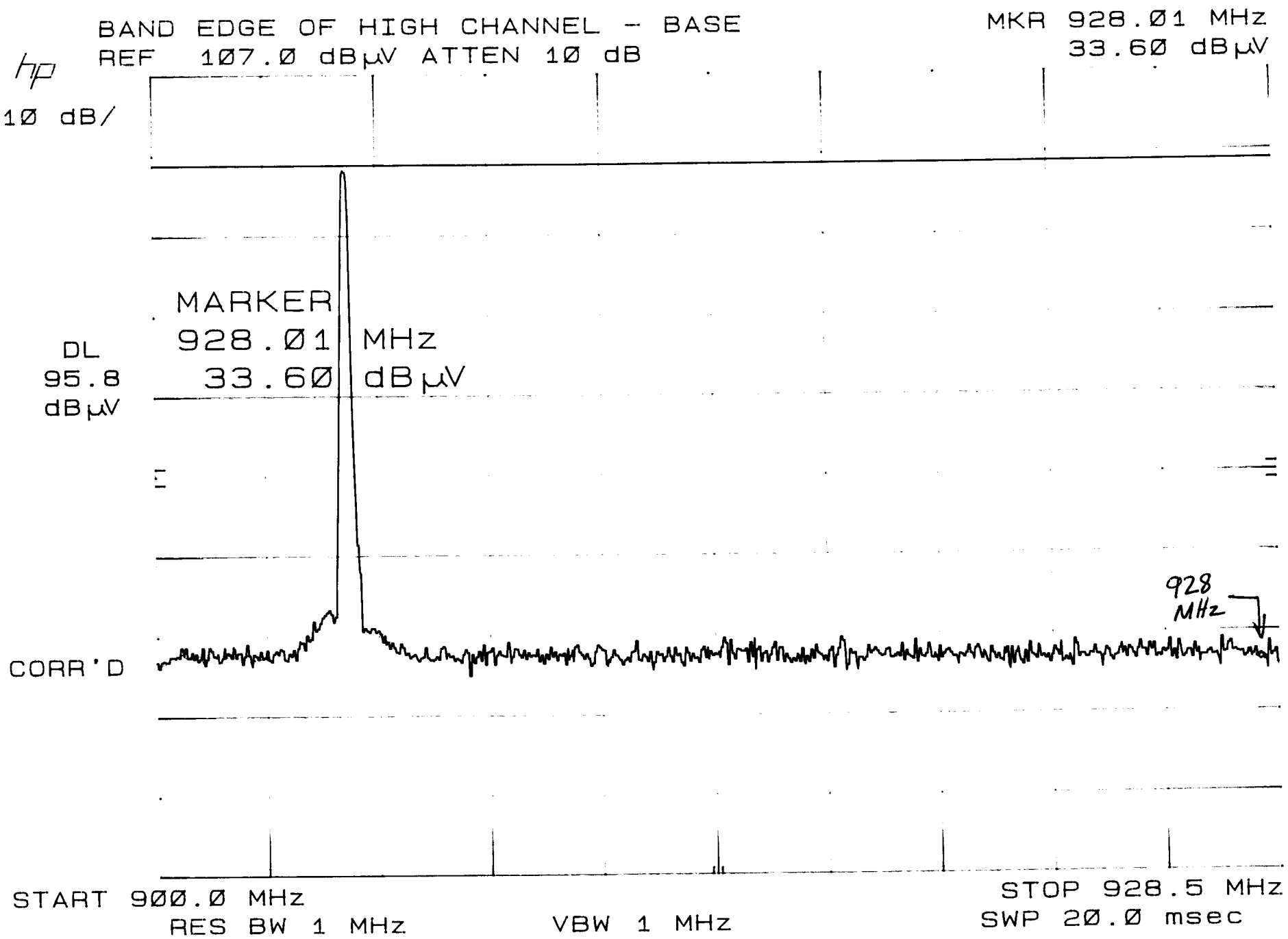
CORR'D

START 901.58 MHz
RES BW 1 MHz

VBW 1 MHz

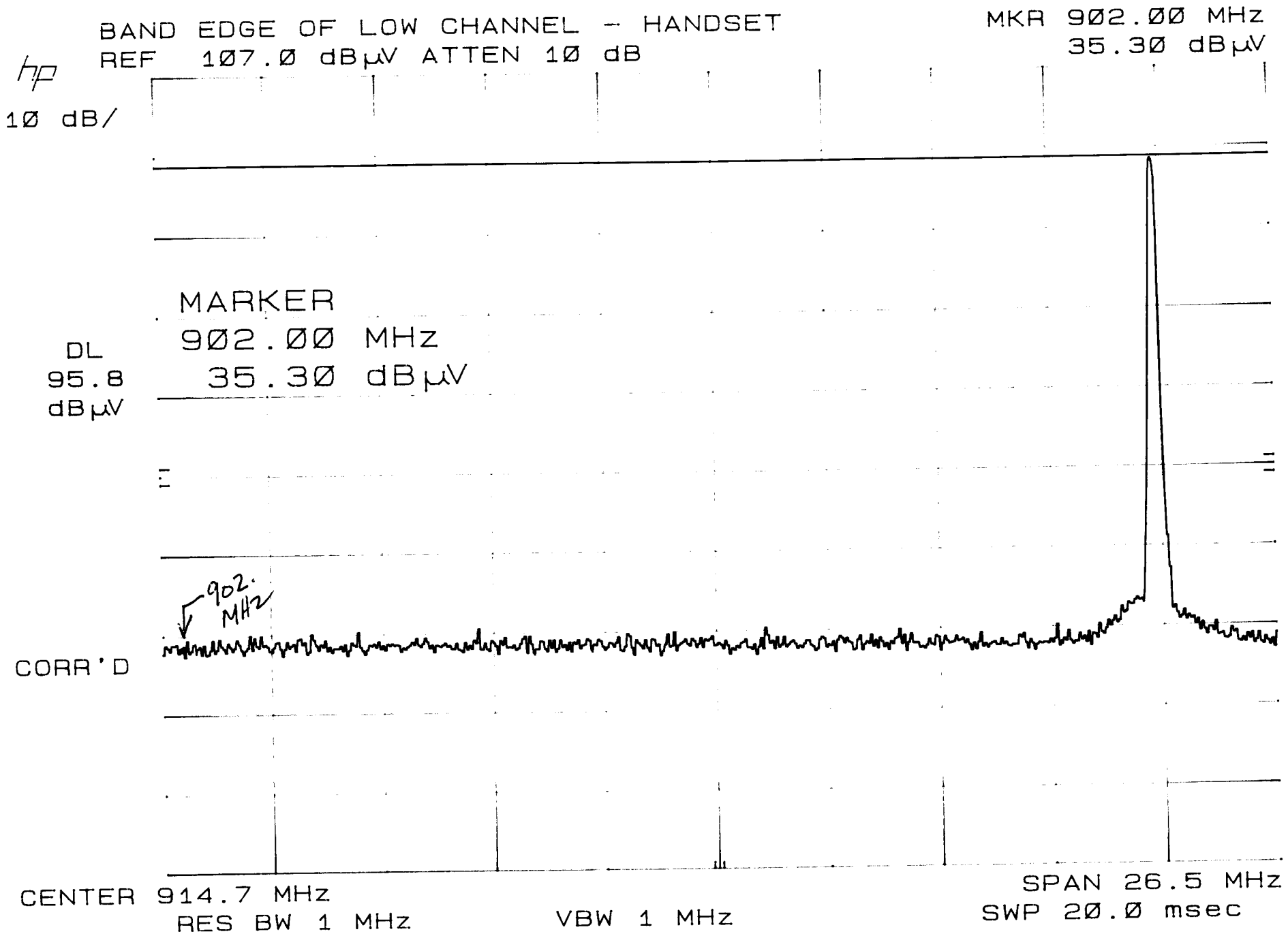
STOP 903.57 MHz
SWP 20.0 msec

08/12/99


BAND EDGE OF HIGH CHANNEL - BASE
REF 107.0 dBμV ATTEN 10 dB
MKR 928.01 MHz
33.60 dBμV
hp
10 dB/
MARKER
928.01 MHz
33.60 dBμV
DL
95.8
dBμV
928
MHz
CORR'D
START 900.0 MHz
RES BW 1 MHz
VBW 1 MHz
STOP 928.5 MHz
SWP 20.0 msec

08/12/99

BAND EDGE OF LOW CHANNEL – HANDSET



8-12-99

BAND EDGE OF HIGH CHANNEL - HANDSET

MKR 928.000 MHz
37.00 dBµV

REF 107.0 dBµV ATTEN 10 dB

hp

10 dB/

DISPLAY LINE
45.7 dBµV

DL
45.7
dBµV

928 MHz

CORR'D

START 926.45 MHz
RES BW 1 MHz

VBW 1 MHz

STOP 928.45 MHz
SWP 20.0 msec