

15.249 Certification
Class II Permissive Change

FCC ID: M72129702593

EMI TEST REPORT

on

Premier Wireless Microphone

Prepared For

Polycom, Inc.
2584 Junction Ave
San Jose, CA 95134
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Prepared by

Electronic Compliance Laboratories, Inc.
1249 Birchwood Drive
Sunnyvale, CA 94089
408/747-1490

Test Report Number: A810009

Date of Test: October 12 and 16, 1998

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1.0 Certification of Compliance

Description: FM Transmitter, Low Power, 902-928 MHz

Serial Number: Rev. 7/ Ser. no. OOO

Applicant: Polycom, Inc.

Type of Test: FCC-15, Class A (Certification) part 15.249

Date of Test: October 12 and 16, 1998

Tested By: Suresh Kondapalli

The above equipment was tested by Electronic Compliance Laboratories, Inc. and found to be in compliance with the requirements set forth in the FCC Rules and Regulations, Part 15, Subpart C (15.203, 15.205, 15.209, 15.249). The equipment, in the configuration described in this report, shows that the maximum emission levels emanating from this equipment are within the compliance requirements.

Chris Byleckie
Technical Director

Date

2.0 General Information

Applicant: Polycom, Inc.
2584 Junction Ave
San Jose, CA 95134-1902

Contact Person: Jeff Rodman

Equipment Under Test: Premier Wireless Microphone

Serial Number: Rev. 7 / Ser. No. OO7

FCC ID#: **M72129702593**

Report Number: A810009

Date of Test: October 12 and 16, 1998

Manufacturer: Polycom, Inc.

Type of Test: FCC part 15, Subpart C, (15.203, 15.205, 15.209, 15.247), Class A Digital Device.

Frequency Range: 30 MHz to 1000 MHz - Radiated Emissions, Class A
902 MHz to 928 MHz - part 15.249
Up to the 10th harmonic of the fundamental (9270 MHz) part 15.35(a)

Summary

Pass/Fail: Passed

15.209 Radiated Emissions:

The Premier Wireless Microphone meet all the requirements for Part 15.209 Class A limit. **See Appendix D for Data Sheet and plots.**

15.249 Operation within the 902 - 928 MHz band:

The Premier Wireless Microphone met all the requirements for 15.249. **See attached data and plots in Appendix A and Appendix B.**

3.0 Test Facility

Name: Electronic Compliance Laboratories

Location: 1249 Birchwood Drive
Sunnyvale, CA 94089

Site Filing: A site description is on file at the Federal Communications Commission
P.O. Box 429
Columbia, MD 21045

Types of Sites: Open Field Radiated and Indoor (Screen Room).
Line Conducted: All sites are constructed and calibrated to meet ANSI C63.4-1994 requirements.
Test facility is recognized by the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations.

NVLAP Code: 20089 effective through: March 31, 1999

4.0 Test Equipment

The following list contains equipment used at EC Laboratories, Inc. for compliance testing. The equipment conforms to the American National Standard Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1000 MHz.

Description	Manufacturer	S/N	Model No.	Cal. Due Date
EMI Receiver	HP	3325A00137	8456A	5/3/99
Pre-amp	HP	313A06829	8447F	5/10/99
Pre-amp	HP	3008A00527	8449B	4/5/99
LISN	EM	2532	ANS-25/2	6/12/99
Spectrum Analyzer	HP	3137A01183	8563A	5/22/99
Plotter	HP	2644V00365	7470A	N/A
Power Meter	HP	2342A07307	435B	4/4/99
Power Sensor	HP	N/A	8482A	4/12/99
Biconical Antenna	EM	677	EM-6912	3/3/99
Log-Periodic Antenna	EM	858	EM-6950	4/18/99
Horn Antenna	EM	6231	RGA-60	6/6/98
1.2 - 4GHz Filter	FSY	001	HM1160-11SS	3/25/99
4 - 10 GHz Filter	FSY	001	HM2950-15SS	3/25/99
10 - 18 GHz Filter	FSY	001	HP8601-7SS	3/25/99

HP = Hewlett Packard
EM = Electro Metrics

The antenna used at the time the data was taken is indicated on each data page. The antenna height and polarization are also noted on the data pages.

The calibration of the measuring instruments, including any accessories that may effect such calibration, are checked frequently to assure their accuracy. Adjustments are made and correction factors applied in accordance with instructions contained in the manual for the measuring instrument.

5.0 Data Reporting Format

The measurement results are expressed in accordance with FCC Part-15, Subpart B Class B limits, where applicable, are presented in tabular or graphical form.

6.0 Detector Functions

On any frequency or frequencies below or equal to 1000 MHz, the limits shown below are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths.

On any frequency or frequencies above 1000 MHz, the radiated limits shown below are based on the use of measuring equipment employing an average detector function.

EC Laboratories uses the Peak detection mode for normal testing and initial screening of the Premier Wireless Microphone. The Peak detection mode will produce a measurement value that is always greater than, or equal to, the quasi-peak or average detection mode. Whenever the measurement value is 6 dB below the applicable limit or greater, the appropriate detector function will be employed and recorded.

7.0 Frequency Range of Investigation

The spectrum was investigated up to the frequency specified in the following table according to the highest clock frequency generated in the device.

<u>Highest Frequency Used (Clock)</u>	<u>Upper Limit of Range Measured</u>
Below 1.705 MHz	30 MHz
1.705 to 108 MHz	1000 MHz
108 to 500 MHz	2000 MHz
500 to 1000 MHz	5000 MHz
Above 1000 MHz	5th Harmonic or 40 GHz (Whichever is Lower)

8.0 FCC Class Types

Class A Digital Device

A digital device that is marketed for use in a commercial, industrial or business environment, exclusive of a device which is marketed for use by the general public or is intended to be used in the home.

Class B Digital Device

A digital device that is marketed for use in a residential environment notwithstanding use in a commercial, business and industrial environments. Examples of such devices include, but are not limited to, personal computers, calculators, and similar electronic devices that are marketed for use by the general public.

Note: The responsible party may also qualify a device intended to be marketed in a commercial, business or industrial environment as a Class B device, and in fact is encouraged to do so, provided the device complies with the technical specifications for a Class B digital device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a device a Class B digital device, regardless of its intended use.

(Code of Federal Regulations, 47, Part 15, Subpart A, Sect. H&I)

(CFR 47, Parts 0 TO 19, Revised as of October 1,1990)

9.0 FCC Limits

9.1 Conducted Emission Limits

For a digital device that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back into the AC power line on any frequency or frequencies within the band 450 kHz to 30 MHz shall not exceed the limits in the following table for the appropriate class. Compliance shall be based on the measurement of the Radio Frequency voltage between each power line and ground at the power terminals. The lower limit applies at the band edges.

<u>Frequency</u> (MHz)	<u>Class A Limit</u> (μ V)	<u>Class A Limit</u> (dB μ V)	<u>Class B Limit</u> (μ V)	<u>Class B Limit</u> (dB μ V)
0.45 to 1.705	1000	60.0	250	48.0
1.705 to 30.0	3000	69.5	250	48.0

9.2 Radiated Emission Limits

The field strength of radiated emissions for a Class A Digital Device, when measured at a distance of 10 meters, shall not exceed the limits given in the table below. The lower limit applies at the band edge.

The field strength of radiated emissions for a Class B Digital Device, when measured at a distance of 3 meters, shall not exceed the limits given in the table below. The lower limit applies at the band edge.

<u>Frequency</u> (MHz)	<u>Class A</u> <u>(3m) Limit</u> (μ V/m)	<u>Class A</u> <u>(3m) Limit</u> (dB μ V/m)	<u>Class A</u> <u>(10m) Limit</u> (μ V/m)	<u>Class A</u> <u>(10m) Limit</u> (dB μ V/m)	<u>Class B</u> <u>(3m)</u> <u>Limit</u> (μ V/m)	<u>Class B</u> <u>(3m)</u> <u>Limit</u> (dB μ V/m)
30-88	300	49.6	90	39.1	100	40.0
88-216	500	54.0	150	43.5	150	43.5
216-960	700	56.0	210	46.4	200	46.0
Above 960	1000	60.0	300	49.5	500	54.0

10.0 Test Methods

10.1 Line Conducted Emissions Test Procedure

1. EUT and any other equipment and cables were placed on a wood table one meter above a ground screen.
2. The EUT's Input Power line cord was connected to a Line Impedance Stabilization Network (LISN) under the table.
3. All other (Non-EUT) equipment received power from a separate AC Power Source. The LISN assembly has two monitoring points: Line 1 (AC-Hot) and Line 2 (AC-Neutral). Each monitoring point was scanned by the measuring equipment (the other point was terminated in 50 ohms) over the frequency range of 450 kHz to 30 MHz for conducted emissions.
4. When an emission is found, the following takes place:
 - a. The emission levels are maximized by equipment/cable placement.
 - b. Frequency and emission level data are entered into computer in dBm.
 - c. The monitoring point (Line 1 or 2) is entered into the computer.
 - d. The computer converts dBm to micro volts and uses a look-up table to find cable losses (in dB) at that frequency, calculates a corrected emission level, and compares the corrected emission level to the appropriate limit. The data is then printed out in tabular form.

An example of the printout and definitions follows below.

10.1 Line Conducted Emissions Test Example

	Site	FCC Limit		EUT Level (L1)	
Freq.	Reading	A	B	A	B
(MHz)	(dB μ V)	(dB μ V)		(dB)	
1.85	-57	69.5	48.0	-4.5	+17

Freq. = Frequency of emission in MHz

Reading dB μ V = Reading at Spectrum Analyzer (Uncorrected)

FCC Limit A/B = Conducted Emission level limit in dB μ V

EUT Level A* = Emission relative to the FCC Class A Limit

EUT Level B* = Emission relative to the FCC Class B Limit

Note = L1 is AC-Hot, L2 is AC-Neutral

QP is a Quasi-Peak value

AV is an average value

*A negative value indicates that the emission is below (or meets) the limit and a positive value indicates that the emission is above (or exceeds) the limit.

10.3 Radiated Emissions Test Procedure

1. EUT and any other equipment and cables used with the EUT were placed on a wood table one-meter above a ground screen.
2. The EUT receives the normal AC Power at the base of the table.
3. All equipment and cables are placed in a manner which tends to maximize their emission characteristics in a typical application.
4. The table was rotated 360 degrees to determine the maximum radial emissions.
5. The antenna was varied in height between 1 meter and 4 meters above the ground plane to determine the maximum emissions. Various antennas are used during the test in both the vertical and horizontal polarization.
6. The Spectrum Analyzer is scanned from 30 MHz to 1000 MHz for emissions. The applicable spectrum analyzer settings are:
 - a. Resolution Bandwidth = 100 kHz,
 - b. Normal Detector Mode = Peak (The Quasi-Peak is used when the emissions are near, or over the limit).
7. When an emission is found and maximized, the following actions are performed:
 - a. The emission frequency is entered into the computer.
 - b. The emission level is read from the spectrum analyzer in dBm and entered into the computer.
 - c. The antenna polarization is entered into the computer.
 - d. The computer converts the level in dBm to dB μ V and uses lookup tables to determine the coax cable loss, antenna factor, and pre-amp gain. A site correction factor is calculated for that particular frequency, and the data is printed out in tabular form.

10.4 Radiated Test Example

	Site	FCC Limit		EUT Level (QP)	
Freq.	Reading	A	B	A	B
(MHz)	(dB μ V)	(dB μ V)		(dB)	
65.4	-58	39.1	40.0	-4.6	-5.5

Freq. = Frequency of emission in MHz.

Reading dB μ V = Reading at Spectrum Analyzer (Uncorrected)

FCC Limit A/B = Limit in dB μ V as stated in Part-15, Subpart B

EUT Level A* = Emission level relative to the FCC Class A limit

EUT Level B* = Emission level relative to the FCC Class B limit.

Note = V/H is the antenna polarization (Vertical or Horizontal)

PK indicates a Peak Value

QP indicates the Quasi-Peak value.

*A negative value indicates that the emission is below (or meets) the limit and a positive value indicates that the emission is above (or exceeds) the limit.

11.0 Labeling Requirements

Product Label:

A Class A Digital Device subject to Certification by the FCC shall bear the following statement in a conspicuous location on the device.

(Name of Grantee)

FCC ID:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label is to be located in a "conspicuous location". This is any location readily visible to the user of the device without the use of tools.

The label is to be permanently attached to the equipment in such a manner that the label can normally be expected to remain fastened and legible during the equipment's expected useful life.

Where the device is constructed in two or more sections connected by wires and marketed together, the statement specified in this section is required to be affixed only to the main control unit.

When the device is so small or for such use that it is not practicable to place the statement specified above on it, this required information shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier must be displayed on the device.

Users Manual Statement:

For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the user's operation manual.

NOTE: This equipment has been tested and found to comply with the limits for Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense:

12.0 Summary of Measurements

CFR Title 47, Part 15.249

Manufacturer: Ploycom, Inc.
2584 Junction Ave
Contact: Jeff Rodman
FCC ID: M72129702593
Test Report Number: A810010

The SoundStation Premier Wireless Microphone is a low-power FM transmitter that operates in the ISM 902-928 MHz frequency band. It can be programmed to any 200 kHz frequency slot from 902.2 to 928 MHz.

15.249 for operation within the 902-928 MHz band

15.249 (a) Maximum Peak Output Power

The Premier Wireless Microphone has an antenna that is an integral part of the output circuit and cannot be removed without affecting the conducted output power. The EUT, constantly transmitting, was placed on the OATS with the receive antenna 3 meters away.

Frequency (MHz)	Field Strength (dBuV)	15.249 Limit (dBuV)	Delta (dB)
910	92.2	93.9	-1.7
924	93.1	93.9	-0.8

15.249 (c) Out Of Band Emissions (Not Falling within Restricted Bands)

The Premier Wireless Microphone was placed in transmit mode at the low (902.2 MHz) middle (915 MHz) and the high (927 MHz) channels. The spectrum analyzer was placed in the MAX HOLD mode. Out of Band emissions were investigated and found to be better than 20 dB (in power) below the highest in-band emission. In addition, out of band emissions (radiated) were below the limits specified in 15.209. **See Plots in Appendix A.**

Plot Title	Frequency Range of Plot, MHz	Purpose of Plot
Out Of band Emissions 902.2 MHz	0 - 1000 1000 - 2750 2750 - 26,500	Show Emissions are down by 20 dB
Out Of band Emissions 915 MHz	0 - 1000 1000 - 2750 2750 - 26,500	Show Emissions are down by 20 dB
Out Of band Emissions 927 MHz	0 - 1000 1000 - 2750 2750 - 26,500	Show Emissions are down by 20 dB

15.205 Restricted Bands - Emissions Within Restricted Bands

The Premier Wireless Microphone was placed on a wooden table resting on a turntable. The wooden table was approximately 1 meter above the ground plane of the 3 meter portion of the 10 meter OATS test site.

The search antenna was located 3 meters from the Premier Wireless Microphone . With the Premier Wireless Microphone in the TRANSMIT mode and transmitting continuously, with the spectrum analyzer in the MAX HOLD mode, the turntable was rotated and the search antenna was raised and lowered in a attempt to maximize the received radiated emissions level. The DUT was set in the continuous transmit mode at the low (902.2MHz) middle (915 MHz) and the high (927 MHz) channels. The attached chart entitled "FCC Radiated Data Sheet" shows that emissions falling into restricted bands are below the limit of 54 dB_v/m. Peak measurements were made using RBW = VBW = 1MHz. Avg. measurements were made with an RBW = 1MHz and VBW=10Hz. **Data Sheets are in Appendix B**

15.209 Radiated Emissions

The attached table shows that the Class A radiated limits from 30 - 1000 MHz are not exceeded by the Premier Wireless Microphone. The Premier Wireless Microphone was operating normally during this test. The Premier Wireless Microphone was placed near one edge of a wooden table resting on a turntable. The wooden table was approximately 1 meter above the groundplane of the 3 meter test site. The search antennas were located at 3 meters. Measurements were made in accordance with ANSI C63.4-1994. **Test Data is in Appendix C.**

APPENDIX A
Data Plots

OUT OF BAND EMISSIONS 1- 2.75 GHz (902.2 MHz)

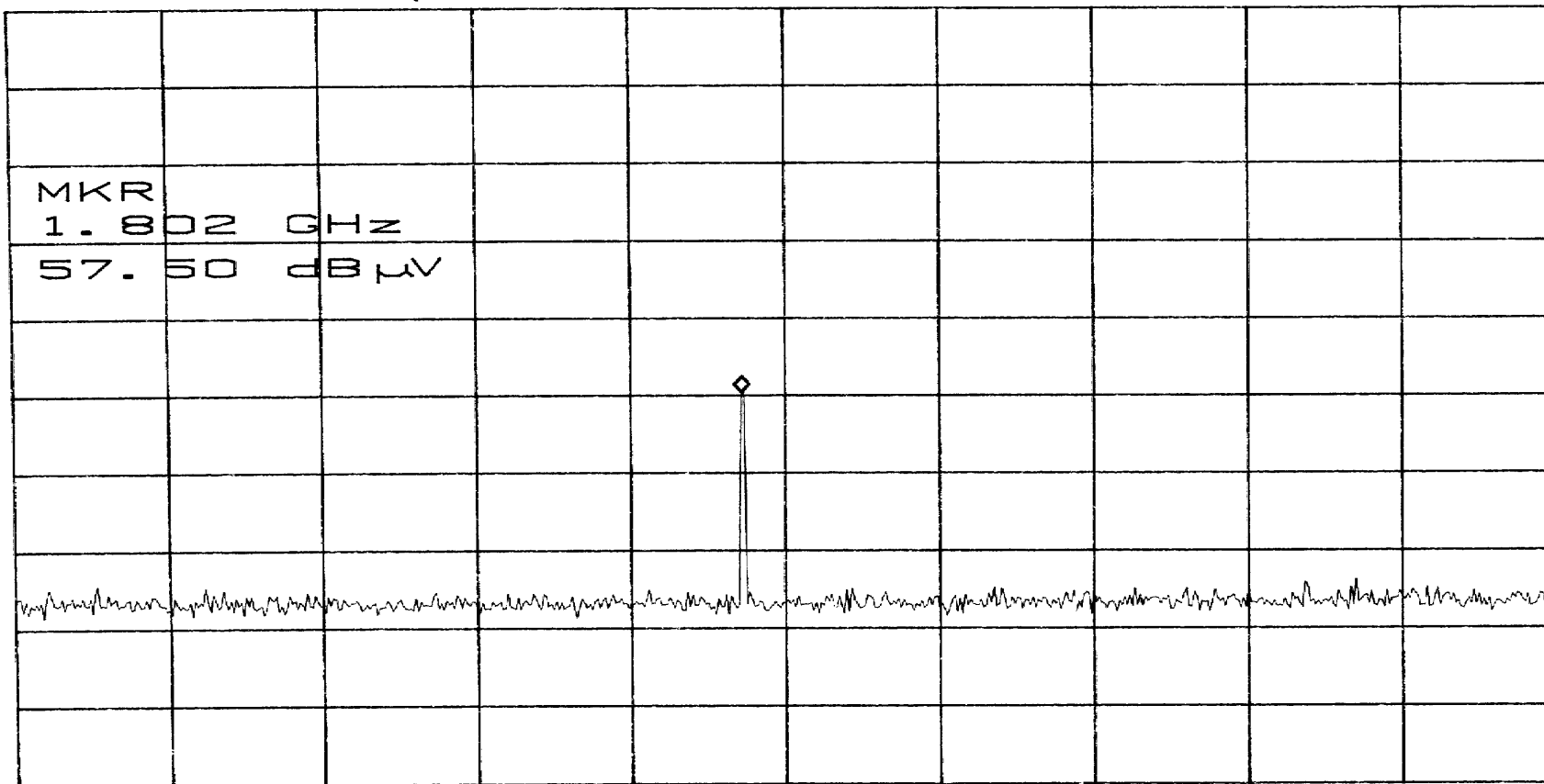
ATTN 10dB

MKR 57.50dB μ V

RL 107.0dB μ V

10dB/

1.802GHz



MKR

1.802 GHz

57.50 dB μ V

START 1.000GHz

STOP 2.700GHz

←RBW 100kHz

VBW 100kHz

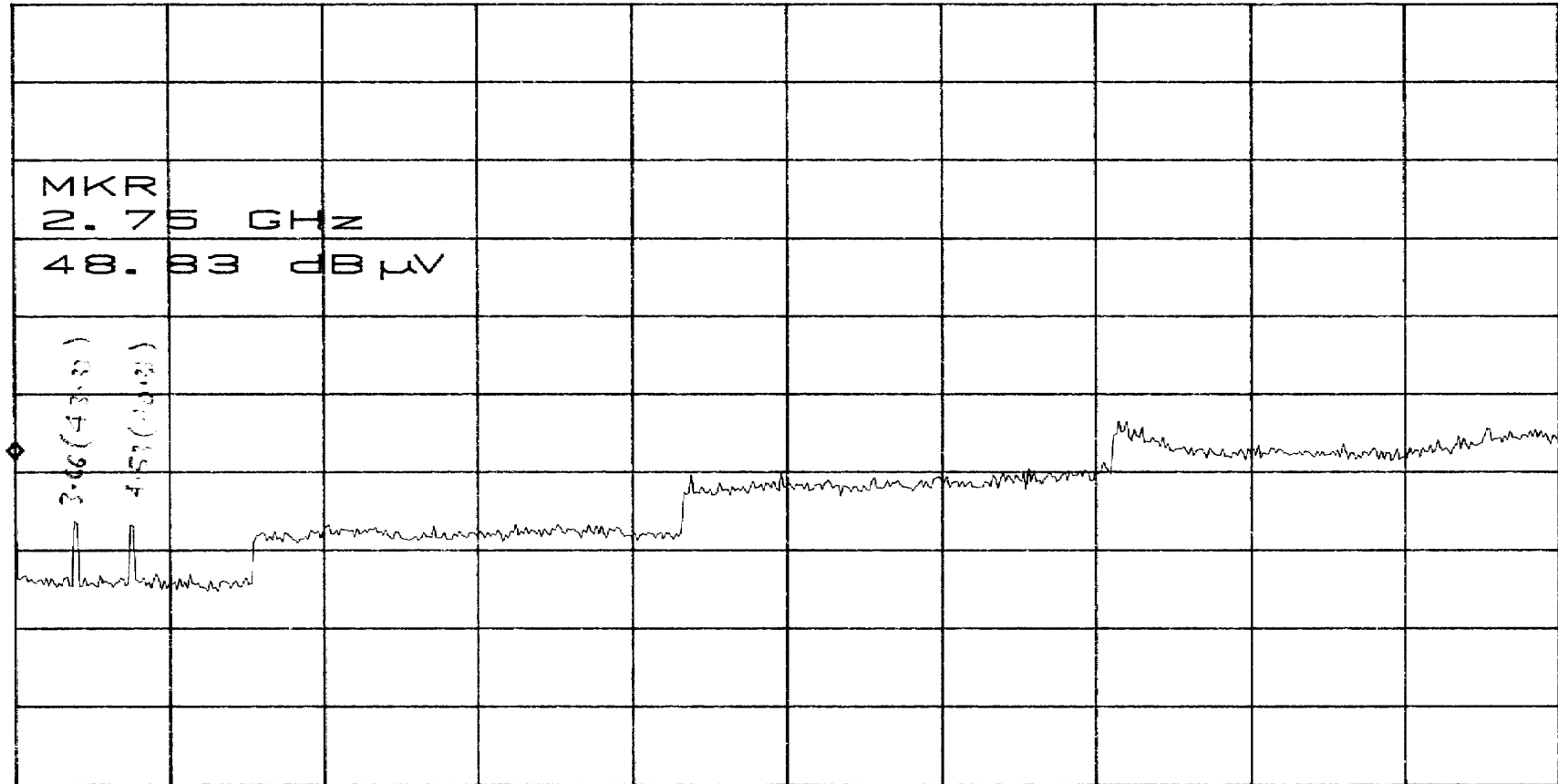
SWP 430ms

OUT OF BAND EMISSIONS 2.75 – 26.5 GHz (902.2 MHz)

ATTN 10dB
RL 107.0dB μ V

/BPO1

MKR 48.83dB μ V
2.75GHz



START 2.75GHz

STOP 26.50GHz

RBW 100kHz

VBW 100kHz

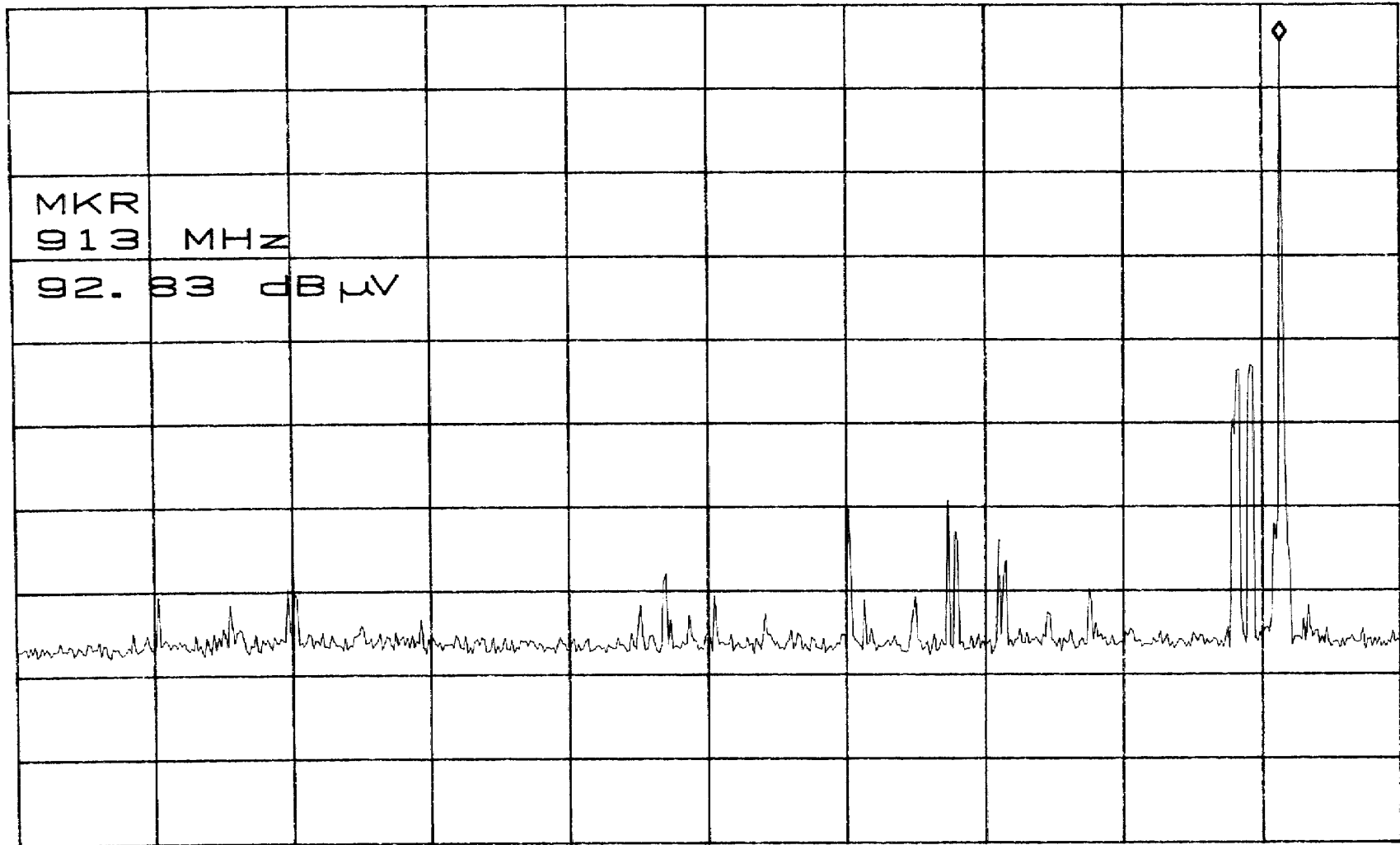
SWP 6.0sec

OUT OF BAND EMISSIONS 0Hz - 1 GHz (911 MHz)

ATTEN 0dB
RL 97.0dB μ V

10dB/

MKR 92.83dB μ V
913MHz



START 0Hz

STOP 1.000GHz

RBW 100kHz

VBW 100kHz

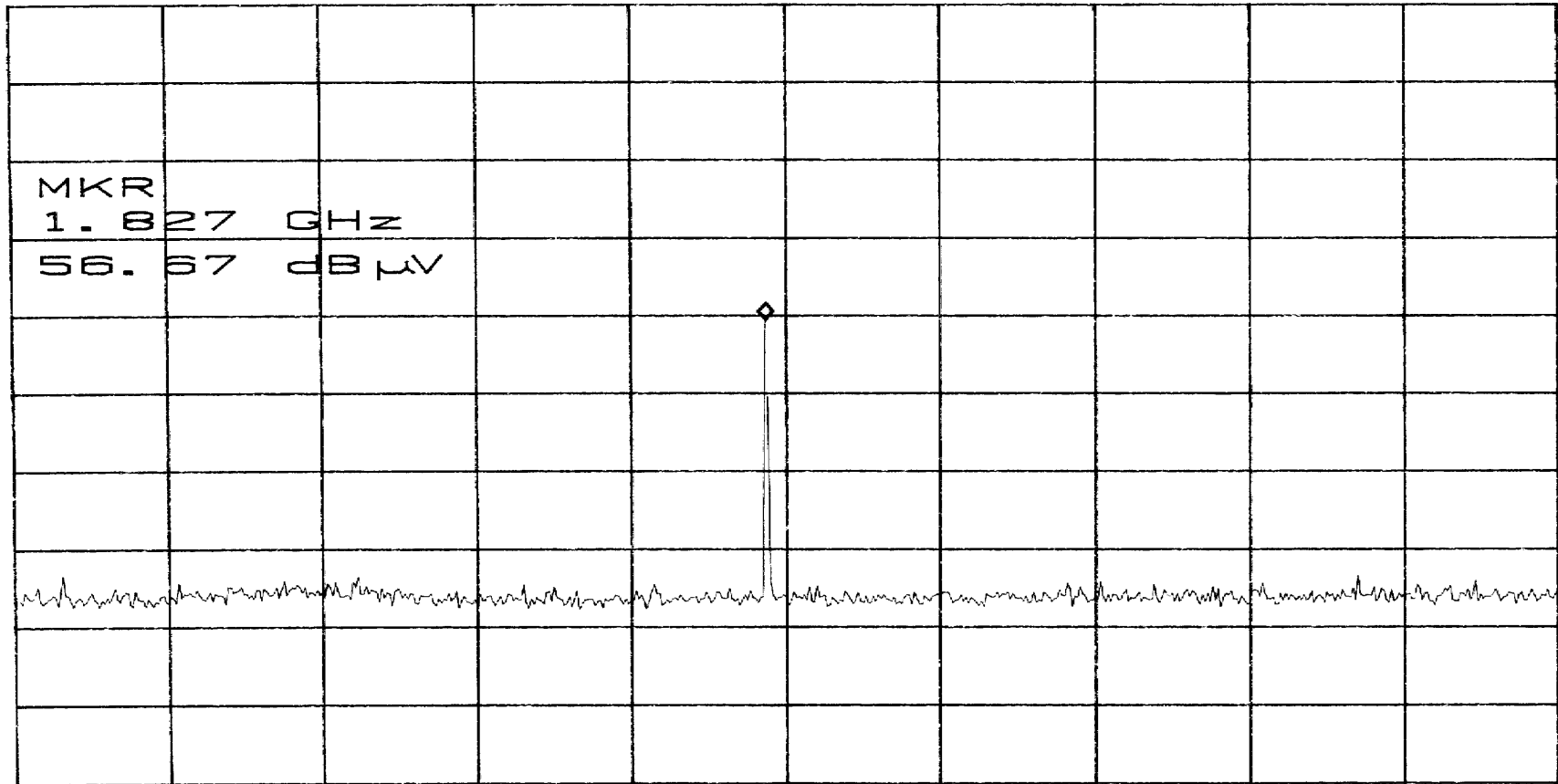
SWP 250ms

OUT OF BAND EMISSIONS 1- 2.75 GHz (911 MHz)

ATTEN 0dB
RL 97.0dB μ V

10dB/

MKR 56.67dB μ V
1.827GHz



MKR
1.827 GHz
56.67 dB μ V

START 1.000GHz

STOP 2.700GHz

RBW 100kHz

VBW 100kHz

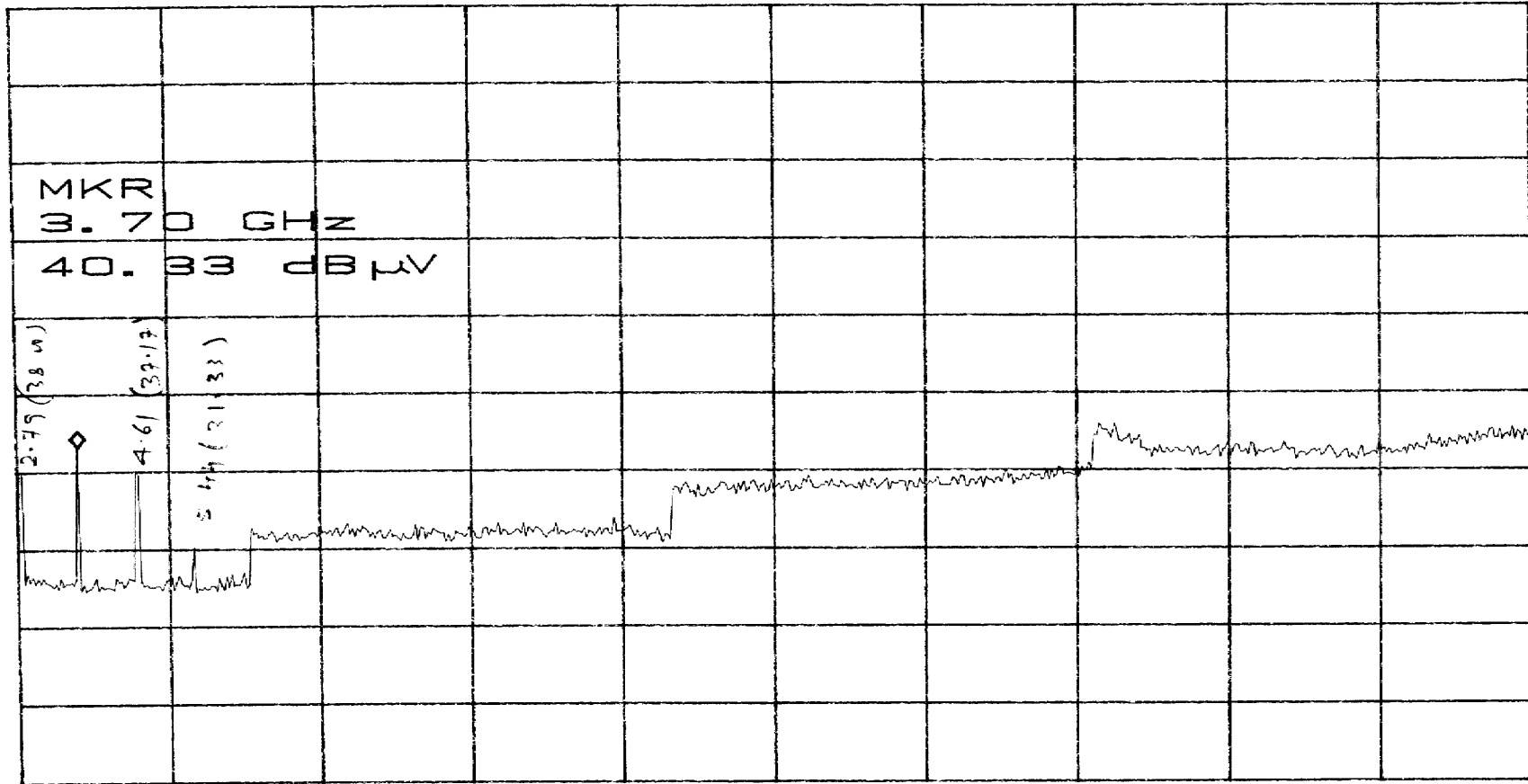
SWP 430ms

OUT OF BAND EMISSIONS 2.75 – 26.5 GHz (911 MHz)

ATTN 0dB
 BPO 76.0dBμV

10dB/

MKR 40.33dBμV
 3.70GHz



START 2.75GHz

STOP 26.50GHz

RBW 100kHz

VBW 100kHz

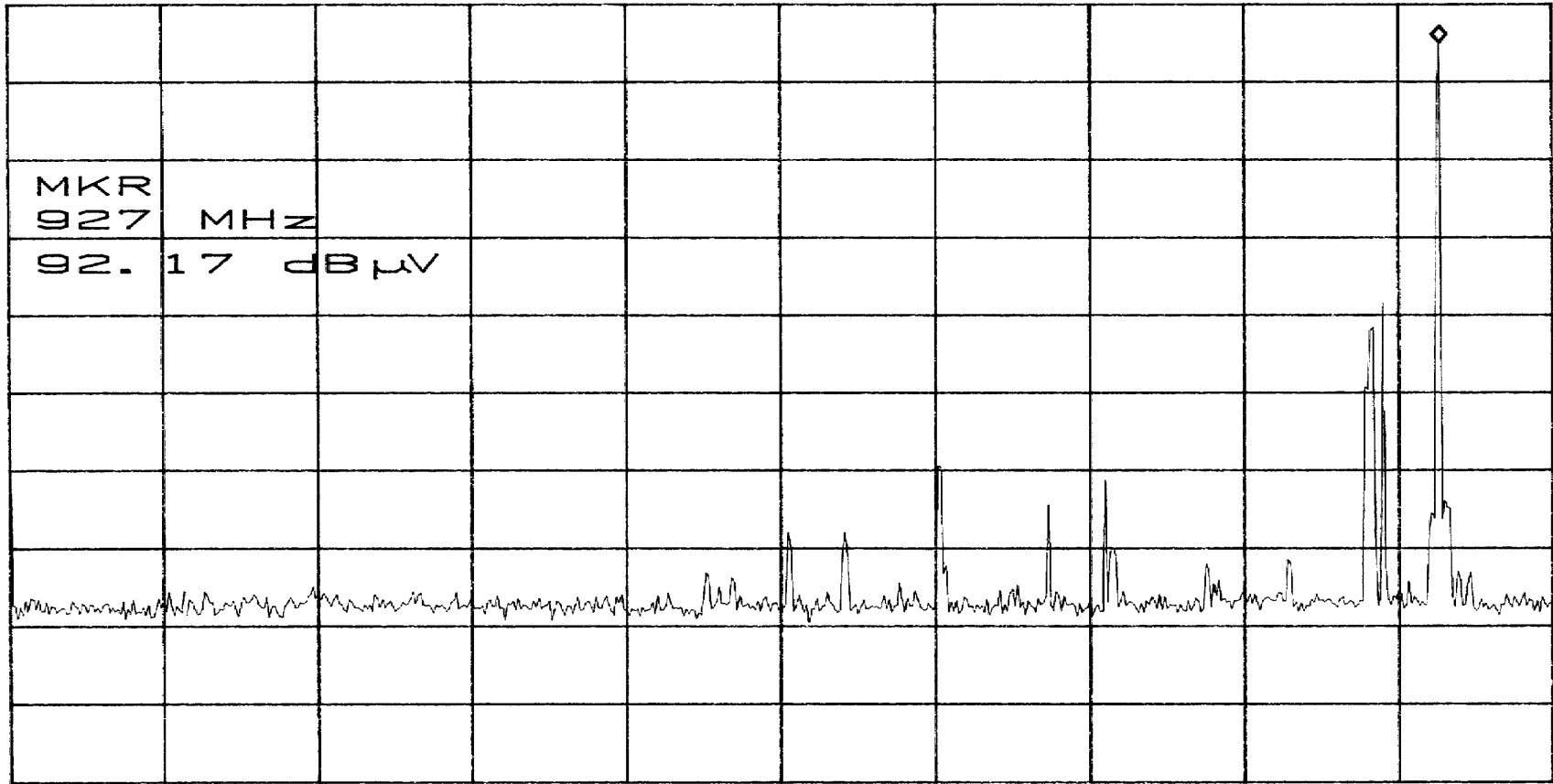
SWP 6.0sec

OUT OF BAND EMISSIONS 0Hz – 1 GHz (927 MHz)

ATTN 0dB
RL 97.0dBμV

1dB/

MKR 92.17dBμV
ZHM26 927MHz



MKR
927 MHz
92.17 dBμV

START 0Hz
RBW 100kHz

VBW 100kHz

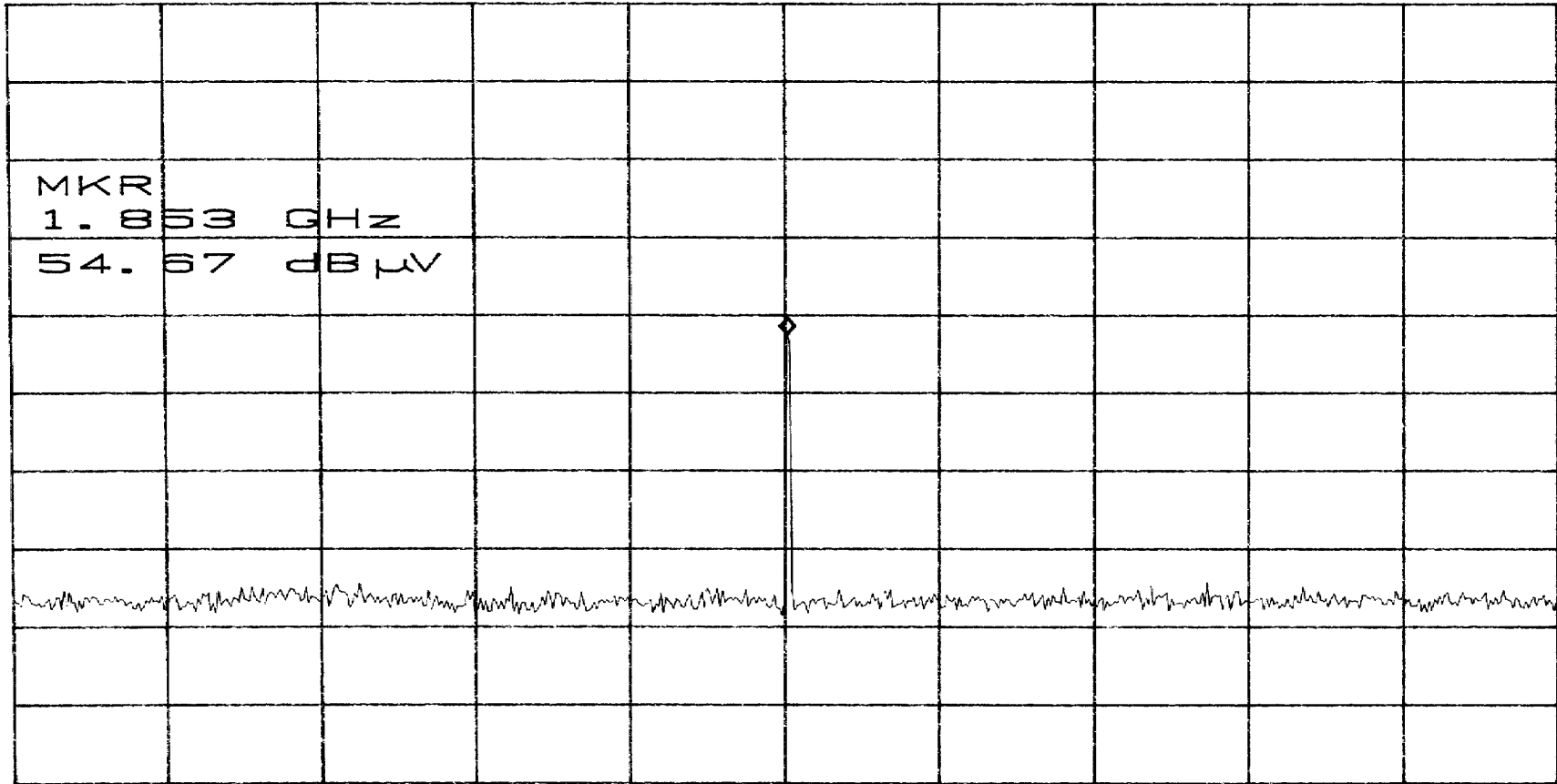
STOP 1.000GHz
SWP 250ms

OUT OF BAND EMISSIONS 1- 2.75 GHz (927 MHz)

ATTEN 0dB
RL 97.0dB μ V

10dB/

MKR 54.67dB μ V
1.853GHz



START 1.000GHz

STOP 2.700GHz

RBW 100kHz

VBW 100kHz

SWP 430ms

OUT OF BAND EMISSIONS 2.75 – 26.5 GHz (927 MHz)

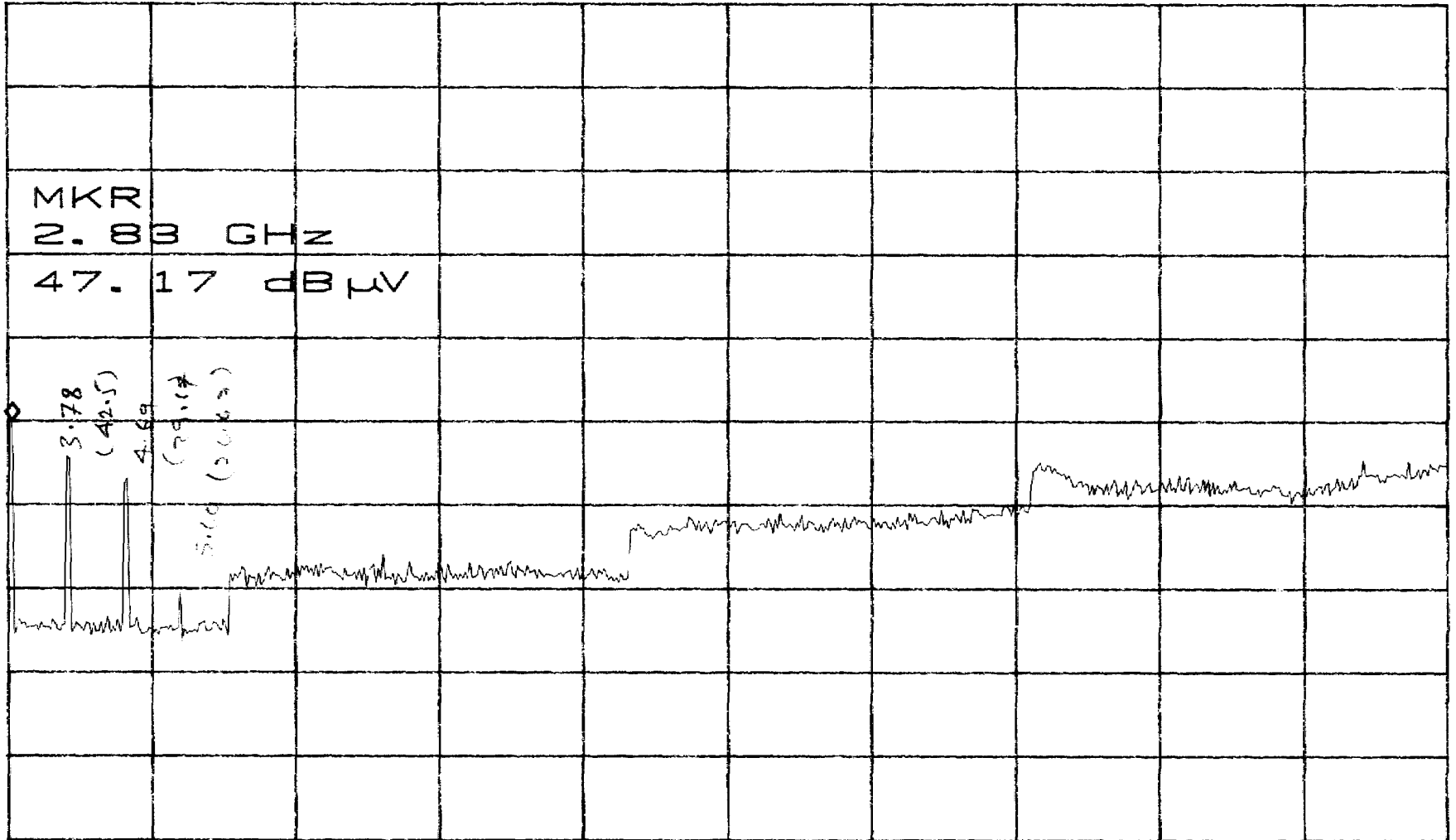
ATTEN 0dB

MKR 47.17 dB μ V

RL 97.0 dB μ V

10dB/

2.83GHz



START 2.75GHz

STOP 26.50GHz

RBW 100kHz

VBW 100kHz

SWP 6.0sec

APPENDIX B

15.205 Restricted Band Data

FCC RADIATED DATA SHEET

EUT:	PREMIER WIRELESS MICROPHONE	DATE:	10/21/98
S/N:	7/002	CUSTOMER NAME:	POLYCOM
RULE PART:	15.205	WORK ORDER:	8101201
		FILE:	8101201A.xls
ANTENNA:	HORN	OTHER CAL FACTORS: ATTN dB:	0
MODULATION TYPE:		DUTY dB:	0
TESTED BY:	SHAWN	HP IL dB:	0
COMMENTS:		DIST dB:	0

FREQ.	READING	Pk, QP,	A.F.	Cable loss	AMP	O.C.F.	TOTAL,	LIMIT	DELTA
MHz	dB(uV)	or Av	dB	dB	dB	dB	dB(uV/m)	dB(uV/m)	dB
Fund = 902.3									
1804.6	49.8	Pk	27.4	4.5	35.0	0.0	46.7	74.0	-27.3
1804.6	41.1	Avg	27.4	4.5	35.0	0.0	38.0	54.0	-16.0
2706.9	50.2	Pk	30.6	5.3	35.0	0.0	51.1	74.0	-22.9
2706.9	40.2	Avg	30.6	5.3	35.0	0.0	41.1	54.0	-12.9
3609.2	43.0	Pk	32.5	6.2	35.0	0.0	46.7	74.0	-27.3
3609.2	32.0	Avg	32.5	6.2	35.0	0.0	35.7	54.0	-18.3
4511.5	42.3	Pk	34.2	7.0	35.0	0.0	48.5	74.0	-25.5
4511.5	32.2	Avg	34.2	7.0	35.0	0.0	38.4	54.0	-15.6
5413.8	42.0	Pk	34.8	8.1	35.0	0.0	49.9	74.0	-24.1
5413.8	31.8	Avg	34.8	8.1	35.0	0.0	39.7	54.0	-14.3
6316.1	44.0	Pk	37.3	9.8	35.0	0.0	56.1	74.0	-17.9
6316.1	32.0	Avg	37.3	9.8	35.0	0.0	44.1	54.0	-9.9
7218.4	43.5	Pk	36.8	10.6	35.0	0.0	55.9	74.0	-18.1
7218.4	33.0	Avg	36.8	10.6	35.0	0.0	45.4	54.0	-8.6
8120.7	43.5	Pk	38.4	11.4	35.0	0.0	58.3	74.0	-15.7
8120.7	32.9	Avg	38.4	11.4	35.0	0.0	47.7	54.0	-6.3
9023	44.0	Pk	40.4	12.1	35.0	0.0	61.5	74.0	-12.5
9023	30.0	Avg	40.4	12.1	35.0	0.0	47.5	54.0	-6.5
Fund = 911.0									
1822	46.5	Pk	27.4	4.5	35.0	0.0	43.4	74.0	-30.6
1822	38.6	Avg	27.4	4.5	35.0	0.0	35.5	54.0	-18.5
2733	41.2	Pk	30.6	5.3	35.0	0.0	42.1	74.0	-31.9
2733	30.5	Avg	30.6	5.3	35.0	0.0	31.4	54.0	-22.6
3644	40.7	Pk	32.5	6.2	35.0	0.0	44.4	74.0	-29.6
3644	30.8	Avg	32.5	6.2	35.0	0.0	34.5	54.0	-19.5
4555	39.6	Pk	34.2	7.0	35.0	0.0	45.8	74.0	-28.2
4555	30.2	Avg	34.2	7.0	35.0	0.0	36.4	54.0	-17.6
5466	37.8	Pk	34.8	8.1	35.0	0.0	45.7	74.0	-28.3
5466	29.3	Avg	34.8	8.1	35.0	0.0	37.2	54.0	-16.8
6377	38.8	Pk	37.3	9.8	35.0	0.0	50.9	74.0	-23.1
6377	29.3	Avg	37.3	9.8	35.0	0.0	41.4	54.0	-12.6
7288	40.7	Pk	36.8	10.6	35.0	0.0	53.1	74.0	-20.9
7288	30.8	Avg	36.8	10.6	35.0	0.0	43.2	54.0	-10.8
8199	42.3	Pk	38.4	11.4	35.0	0.0	57.1	74.0	-16.9
8199	30.3	Avg	38.4	11.4	35.0	0.0	45.1	54.0	-8.9
9110	39.7	Pk	40.4	12.1	35.0	0.0	57.2	74.0	-16.8
9110	29.7	Avg	40.4	12.1	35.0	0.0	47.2	54.0	-6.8

FREQ.	READING	Pk, QP, or Av	A.F.	Cable loss	AMP	O.C.F.	TOTAL,	LIMIT	DELTA
MHz	dB(uV)		dB	dB	dB	dB	dB(uV/m)	dB(uV/m)	dB
FUND = 927.6									
1855.2	49.7	Pk	27.4	4.5	35.0	0.0	46.6	74.0	-27.4
1855.2	40.0	Avg	27.4	4.5	35.0	0.0	36.9	54.0	-17.1
2782.8	51.0	Pk	30.6	5.3	35.0	0.0	51.9	74.0	-22.1
2782.8	36.5	Avg	30.6	5.3	35.0	0.0	37.4	54.0	-16.6
3710.4	41.8	Pk	32.5	6.2	35.0	0.0	45.5	74.0	-28.5
3710.4	31.8	Avg	32.5	6.2	35.0	0.0	35.5	54.0	-18.5
4638	43.0	Pk	34.2	7.0	35.0	0.0	49.2	74.0	-24.8
4638	31.0	Avg	34.2	7.0	35.0	0.0	37.2	54.0	-16.8
5565.6	41.8	Pk	35.6	8.9	35.0	0.0	51.3	74.0	-22.7
5565.6	31.0	Avg	35.6	8.9	35.0	0.0	40.5	54.0	-13.5
6493.2	42.8	Pk	37.3	9.8	35.0	0.0	54.9	74.0	-19.1
6493.2	32.1	Avg	37.3	9.8	35.0	0.0	44.2	54.0	-9.8
7420.8	43.1	Pk	36.8	10.6	35.0	0.0	55.5	74.0	-18.5
7420.8	32.5	Avg	36.8	10.6	35.0	0.0	44.9	54.0	-9.1
8348.4	41.2	Pk	38.4	11.4	35.0	0.0	56.0	74.0	-18.0
8348.4	30.6	Avg	38.4	11.4	35.0	0.0	45.4	54.0	-8.6
9276	42.1	Pk	40.4	12.1	35.0	0.0	59.6	74.0	-14.4
9276	29.6	Avg	40.4	12.1	35.0	0.0	47.1	54.0	-6.9

APPENDIX C

15.209 Radiated Emissions Data

Electronic Compliance Laboratories, Inc.
1249 Birchwood Ave.
Sunnyvale, CA
Radiated Emissions
Frequency range: 30MHz-1000MHz
3 Meter Open Site
Site Calibrated: June 1997

Government Agency and Limit: FCC Class B

QP = Quasi-Peak Note: Ignore peak readings when Quasi-Peak reading exists
PK = Peak

Customer: POLYCOM Operator: SHAWN
Date: 10-12-1998 Time: 14:29:55
Temperature Range: 78 Deg F Percent Humidity: 56
E.U.T.: PREMIER WIRELESS MICROPHONE
Serial Number: 7/002
Support Devices:
Serial Number:
FCC ID:
Exercise Program:
Modifications: None
Report File Name: F:\TESTDATA\8101201.RF

Antenna Type: BICONICAL

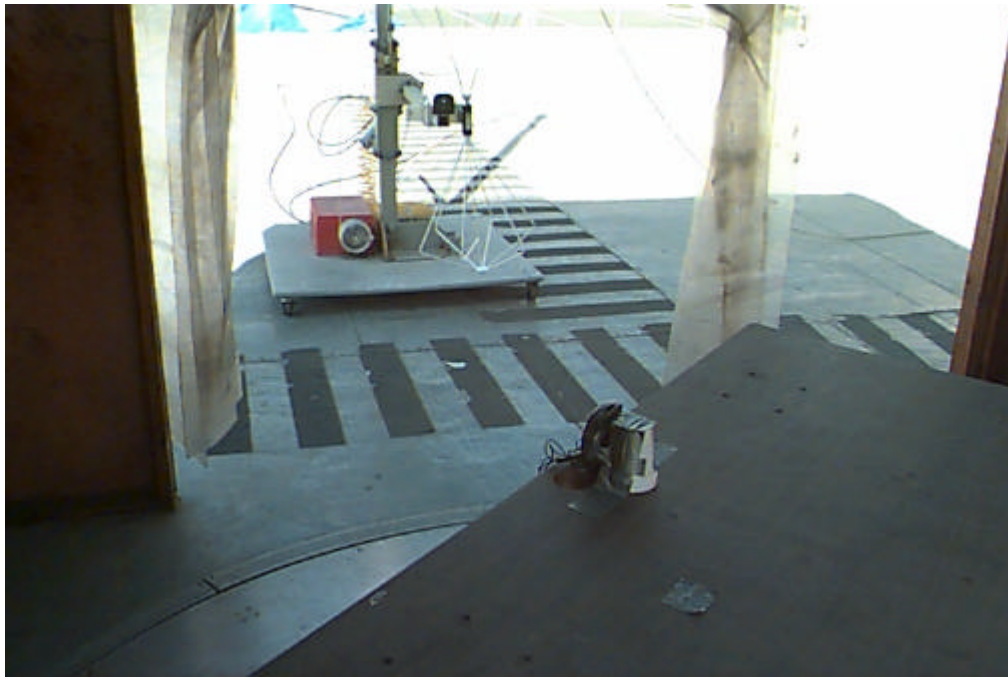
TEST	TEST	ACTUAL	CLASS B	VERSUS	TABLE	ANTENNA	POLAR-	DETECTOR
FREQ	dBuV	dBuV/m	LIMIT	B LIMIT	DEGREES	HEIGHT	IZATION	Type
=====	=====	=====	=====	=====	=====	=====	=====	=====

CHANGED ANTENNA TO LOG PERIODIC

NOTE: NO EMISSION SEEN IN VERTICAL OR HORIZONTAL ORIENTATION
+-----+

APPENDIX D

Test Set-up Photographs



15.209 Radiated Emissions

15.205 Restricted Band

