

2.0 APPLICABLE DOCUMENTS

herein: The following documents form a part of this report to the extent expressed

FCC Code of Federal Regulations Title 47, Part 15,

FCC Procedure for Measuring RF Emissions from Computing
Devices FCC/OET MP-4, July 1987

ANSI C63.4-1992

FCC Characteristics of Open Field Test Sites Bulletin
OET 55, October 1989

3.0 TEST SITE DESCRIPTION

This testing was performed at Rubicom Systems, Inc. 3-meter open area test site. The description of the measurement facility was found to be compliant with the requirements of Section 2.948 of the FCC Rules. A copy of the compliance letter is attached to this report as Appendix A.

3.1 Environmental Conditions

Environmental conditions during testing of the EUT were as follows:

Date: **November 12, 1998**

Date: **November 13, 1998**

Temperature: **82°**

Temperature: **72°**

Barometer: **27.50 inches**

Barometer: **29.78**

Humidity: **75%**

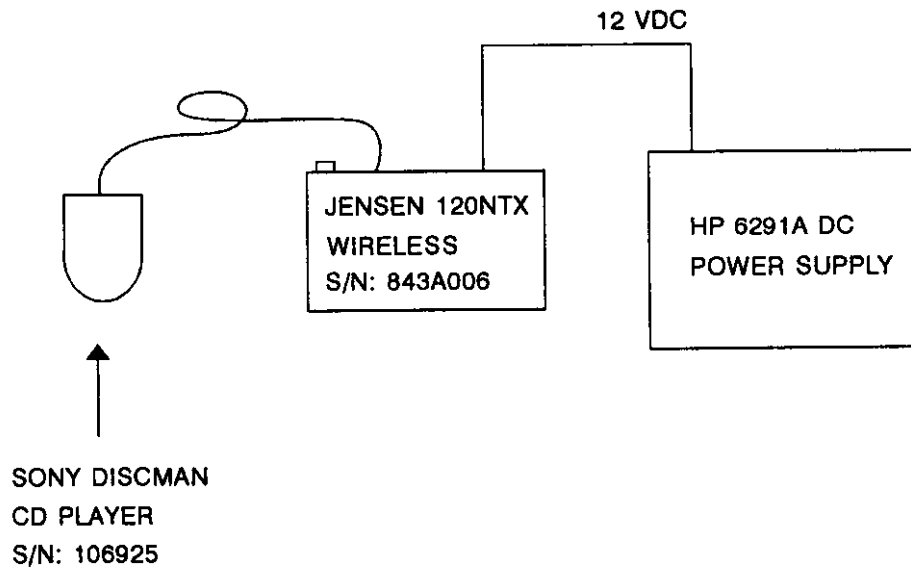
Humidity: **78%**

5.0 TEST SAMPLE SETUP AND CONFIGURATIONS

The Nasaco Electronics Jensen 120NTX Wireless was placed on the nonconductive 80cm high manual turntable. The unit was configured with an HP 6291A power supply. Cables were configured in a normal setup.

Setup for the Jensen 120NTX Wireless is shown below.

The Jensen 120NTX Wireless test setup is shown in Photos 1 through 3.



6.0 PROCEDURES AND RESULTS

6.1 Radiated Emissions

Figures 6.1-1 through 6.1-10 present the pre-scans in the 30MHz-10GHz range during Electric Field testing in the enclosure. There were no signals detected from the transmitter below 914MHz. Tabulated data for all signals detected are listed in this section. Table 6.1-1 for average and Table 6.1-2 for peak values. All testing from 30MHz to 10GHz was performed on the 3 meter site.

An example of calculations are as follows:

Meter Reading	20 dB μ V
Antenna Factor	+16 Conversion Factor
Cable Loss	+2 Correction Factor
Result	+38 dB μ V/m

The spectrum analyzer memory card contains the correction factors for calibrated cables and antenna factors. When external attenuation is required the reference level is offset during test.

Figures 6.1-11 through 6.1-25 present plots of the radiated data over the range of 30MHz-10GHz. The exact levels of signals detected and maximized are presented in the tabulated tables mentioned above.

Figures 6.1-26 through 6.1-41 are the ambient profiles for the 30MHz-10GHz radiated measurements.

6.2 Conducted Emissions

Power line conducted data is presented in Figures 6.2-1 and 6.2-1. No failures were experienced during the conducted testing. No modifications were required throughout this test effort

FCC RADIATED EMISSIONS TABULATED RESULTS

EUT MODEL: **NASACO ELECTRONICS JENSEN 120NTX WIRELESS AUDIO TRANSMITTER**

S/N: **843A0006** DATE: **11/13/98** TESTER: **AB**

<u>MEASURED (MHz)</u>	<u>ANTENNA POL.</u>	<u>EVALUATION</u>	<u>AZIMUTH</u>	<u>MEASURED (dBμV/m) AVG.>1GHz Q.P. <1GHz</u>	<u>Q.P. LIMIT (dBμV/M @ 3 METERS)</u>	<u>MARGIN (dB)</u>
913.5M	H	1.5M	135°	88.5 Q.P.	94	-5.5
913.5M	V	1.75M	112°	83.0 Q.P.	94	-11.0

ALL OTHER SIGNALS WERE GREATER THAN 10dB BELOW THE REQUIREMENT

TABLE 6.1-1



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 30M-100MHZ SPEC: CFR 15.429 INT. RAD. ANT.HT/POL: 1M/ H
 DETECTOR: PEAK LINE UNDER TEST: N/A EUT POSITION: FRONT
 DATE: 11-13-58 TEST SITE: ROOM 1 TESTER: *AB*

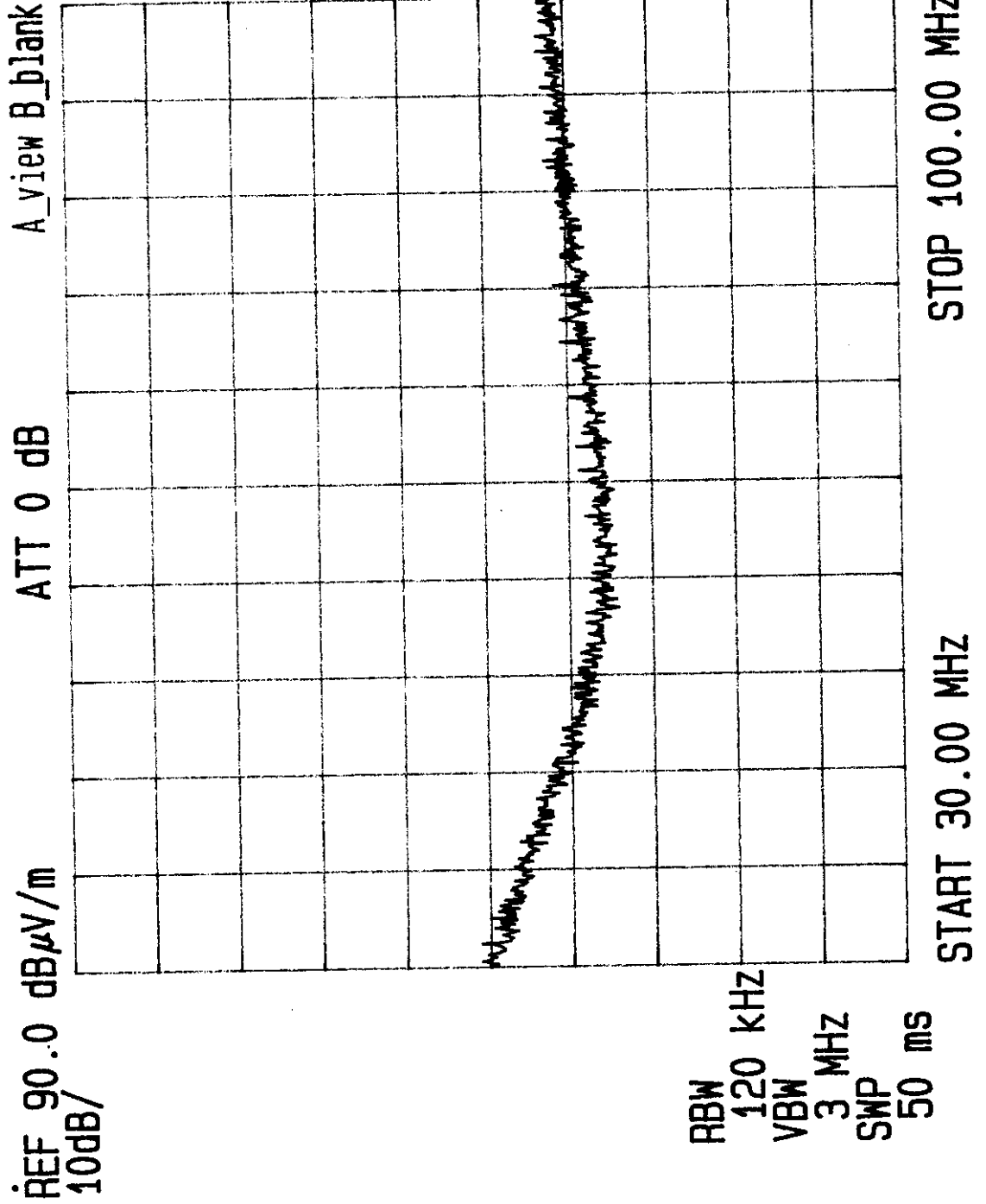


FIGURE 6.1-1



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 100M-200MHZ SPEC: CFR 15.429 INT. RAD. ANT.HT/POL: 1M/ H
 DETECTOR: PEAK LINE UNDER TEST: N/A EUT POSITION: FRONT
 DATE: 11-13-98 TEST SITE: ROOM 1 TESTER: *AB*

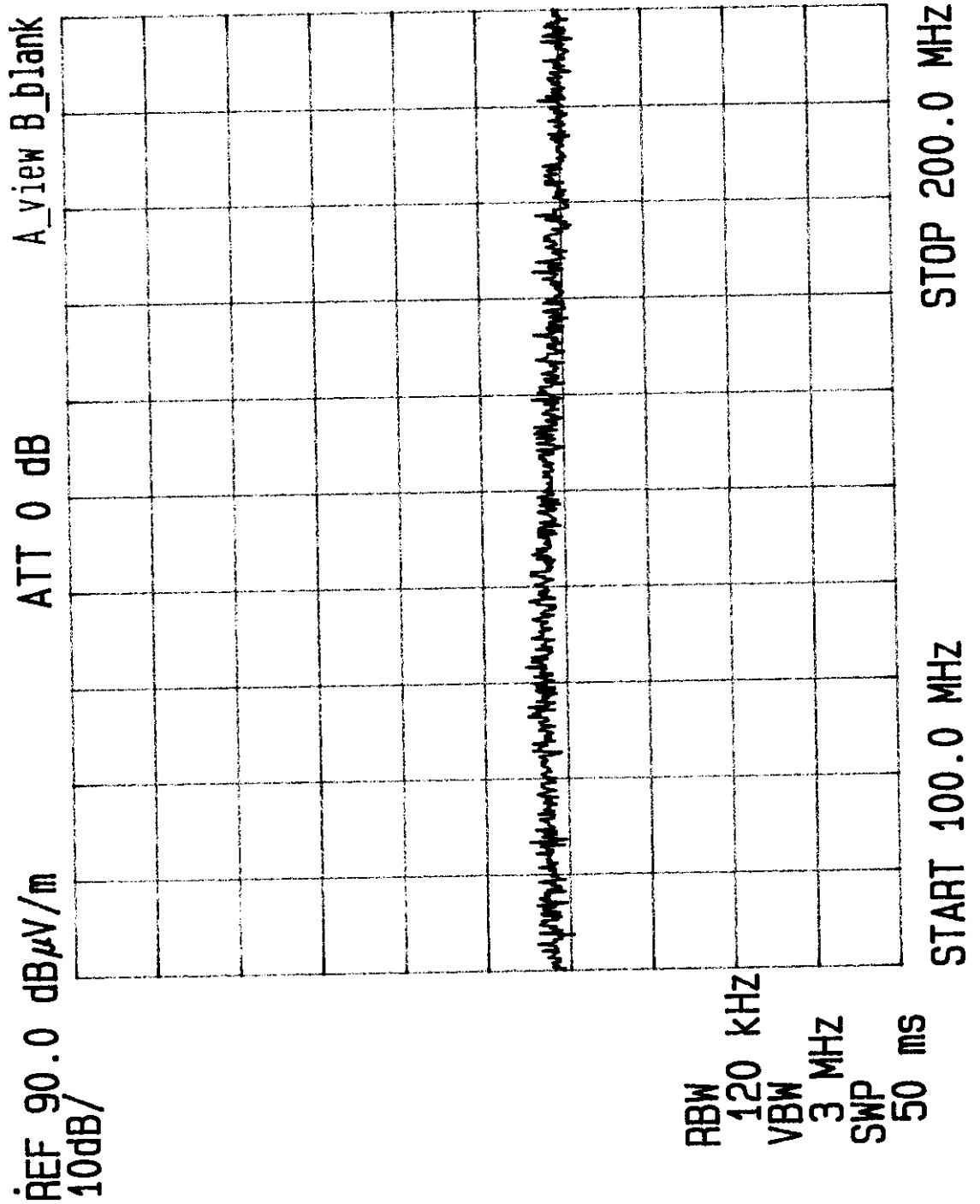


FIGURE 6.1-2



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 30M-100MHZ SPEC: CFR 15.429 INT. RAD. ANT.HT/POL: 1M/ V
 DETECTOR: PEAK LINE UNDER TEST: N/A EUT POSITION: FRONT
 DATE: //13-98 TEST SITE: ROOM 1 TESTER: *[Signature]*

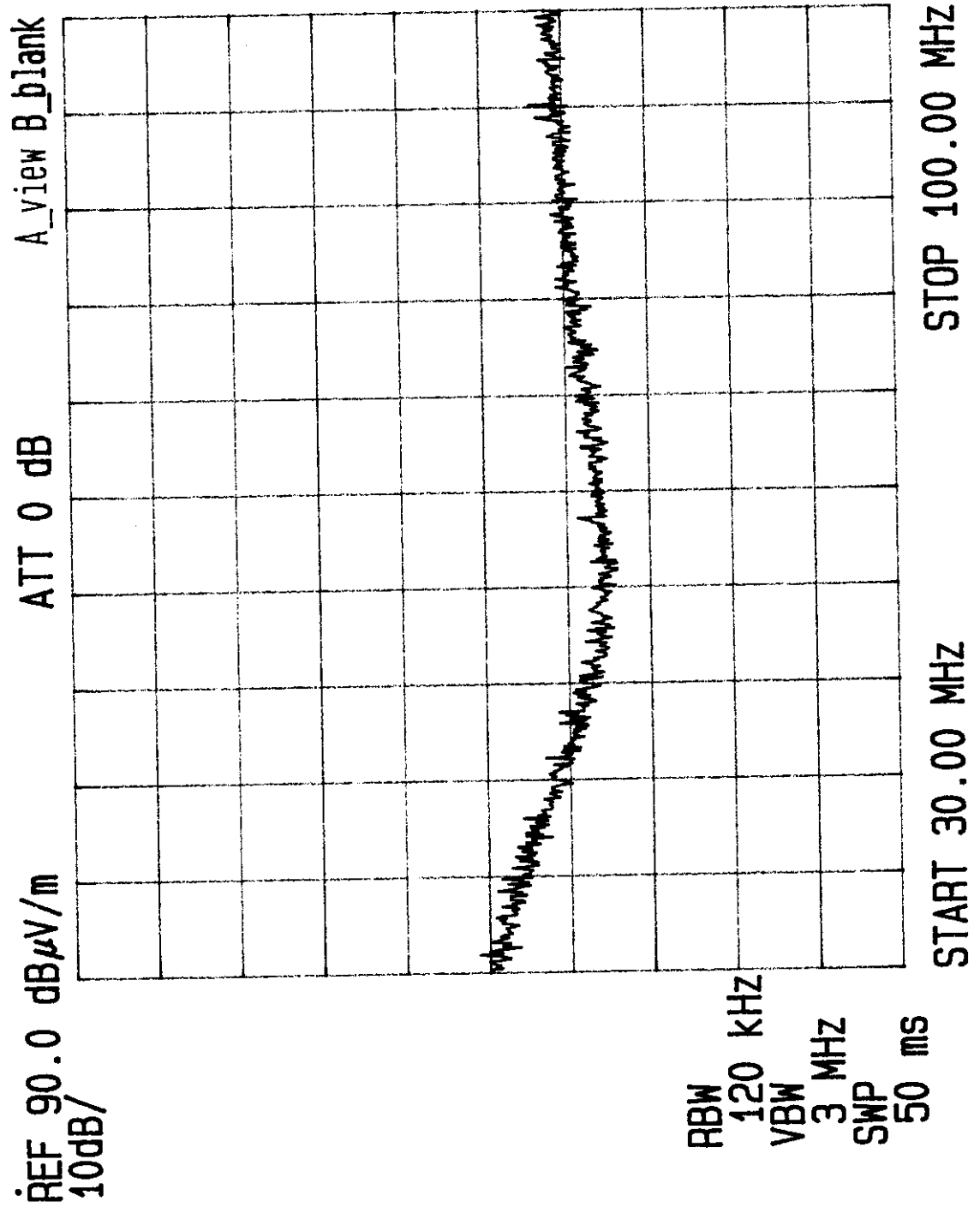


FIGURE 6.1-3



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 100M-200MHZ SPEC: CFR 15.429 INT. RAD. ANT.HT/POL: 1M/ V
 DETECTOR: PEAK LINE UNDER TEST: N/A EUT POSITION: FRONT
 DATE: 11-13-98 TEST SITE: ROOM 1 TESTER: *AB*

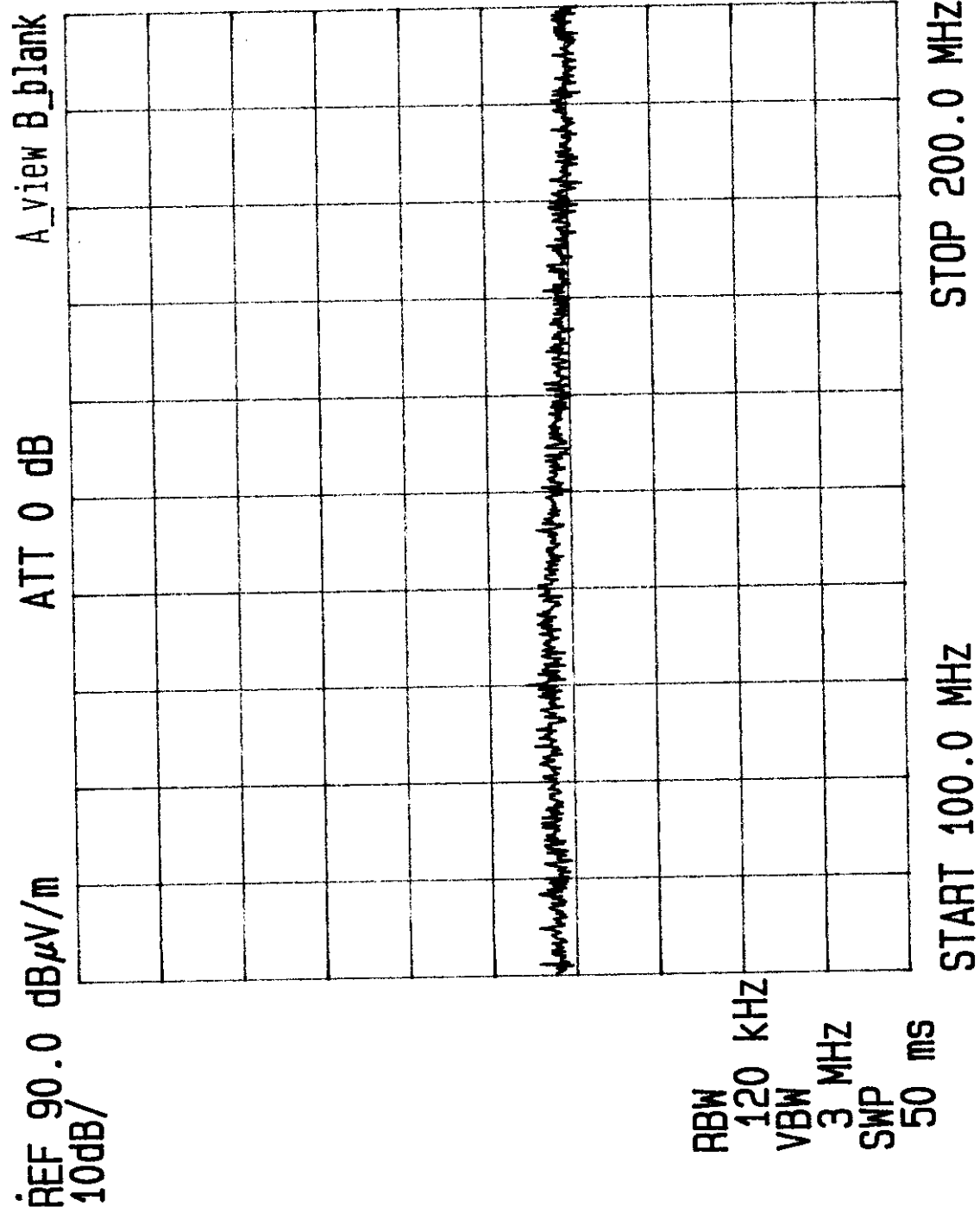


FIGURE 6.1-4



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 200M-1GHZ SPEC: CFR 15.429 INT. RAD. ANT.HT/POL: 1M/ H
 DETECTOR: PEAK LINE UNDER TEST: N/A EUT POSITION: FRONT
 DATE: 11-13-98 TEST SITE: ROOM 1 TESTER: *ATB*

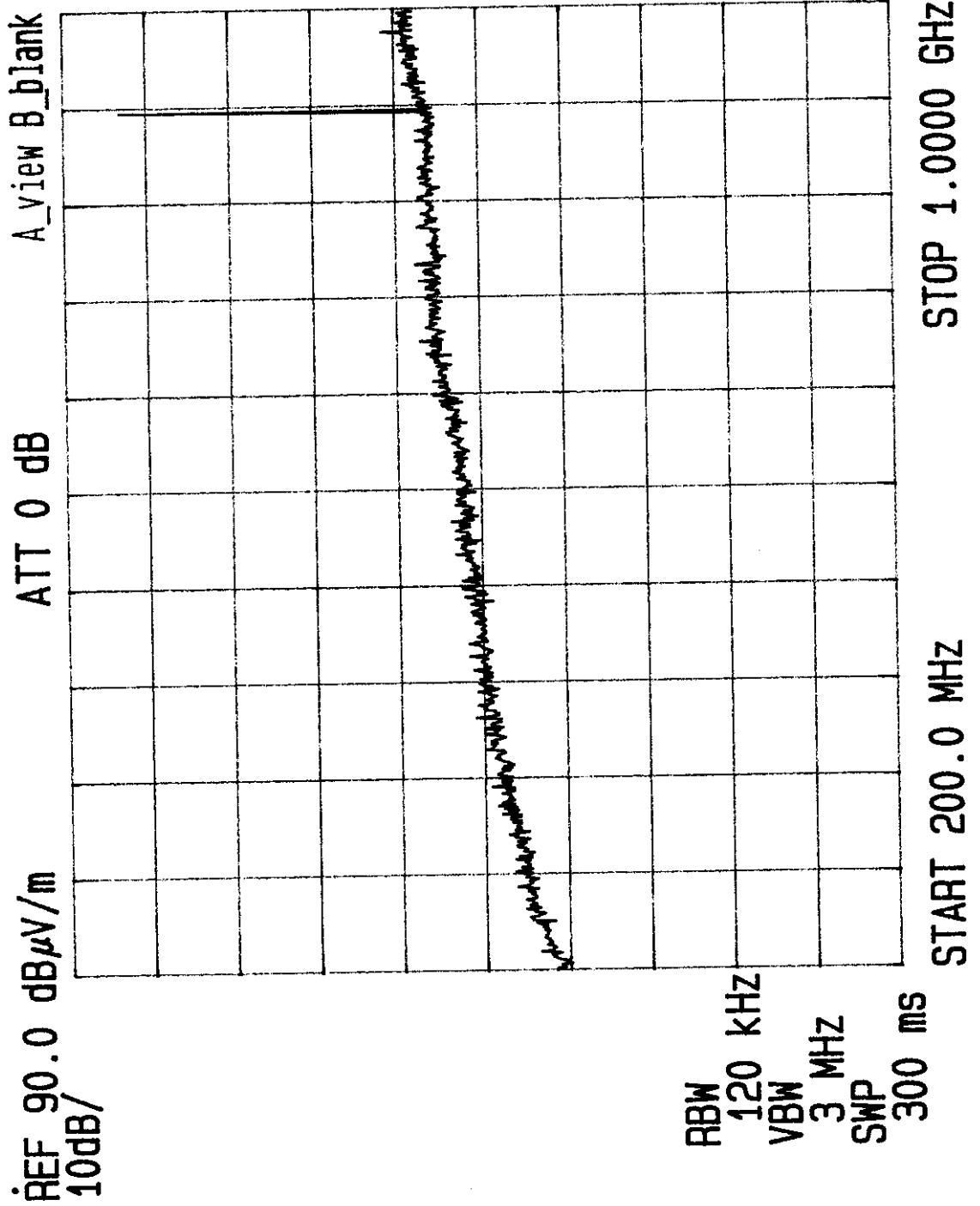


FIGURE 6.1-5



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 200M-1GHZ SPEC: CFR 15.429 INT. RAD. ANT.HT/POL: 1M/ V
 DETECTOR: PEAK LINE UNDER TEST: N/A EUT POSITION: FRONT
 DATE: //13-98 TEST SITE: ROOM 1 TESTER: *[Signature]*

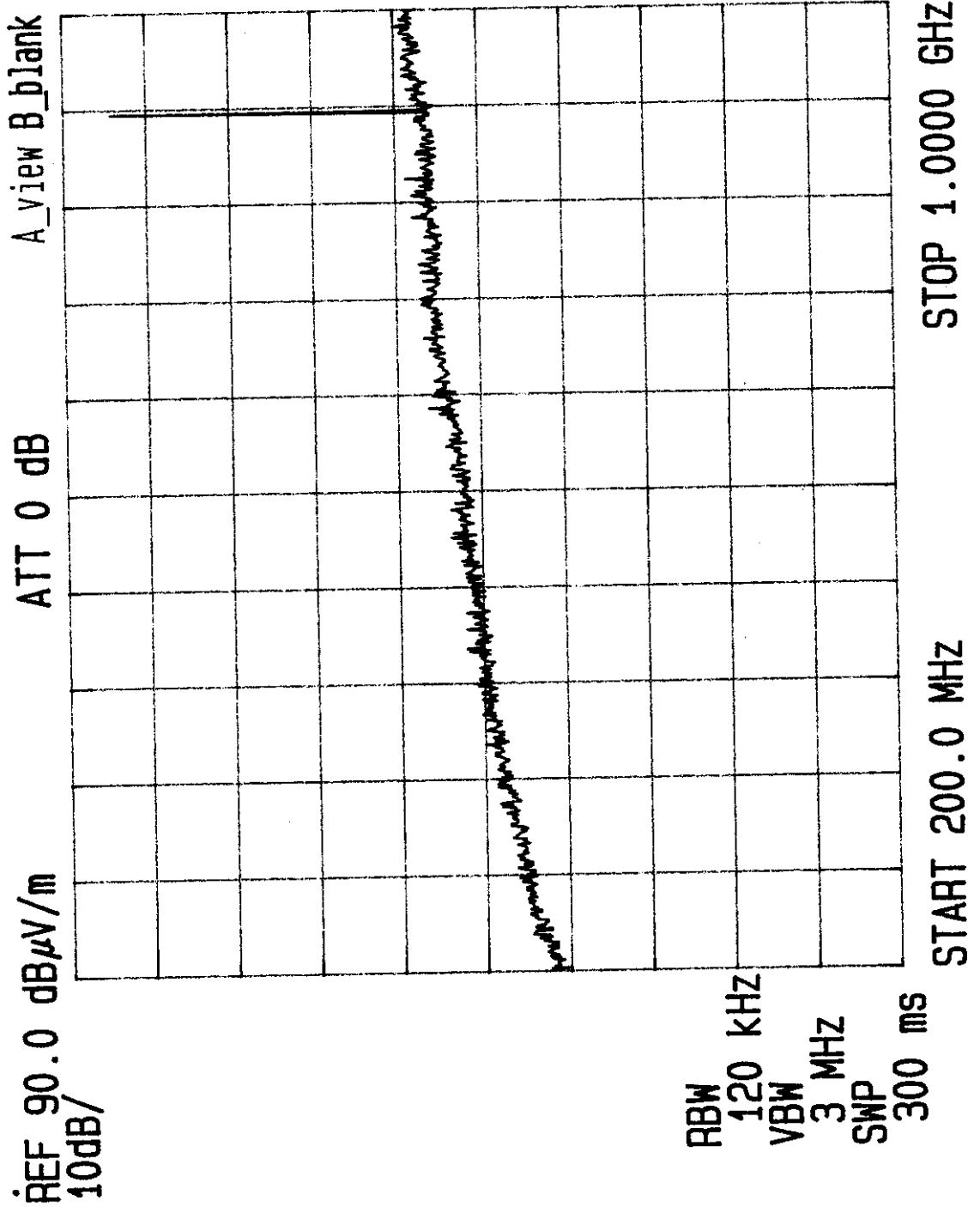


FIGURE 6.1-6



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 1G-8GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT. HT/POL: H
 DETECT: PEAK ANTENNA: N/A EUT POSITION: -
 DATE: 11-13-98 TEST SITE: ROOM 1 TESTER: *[Signature]*

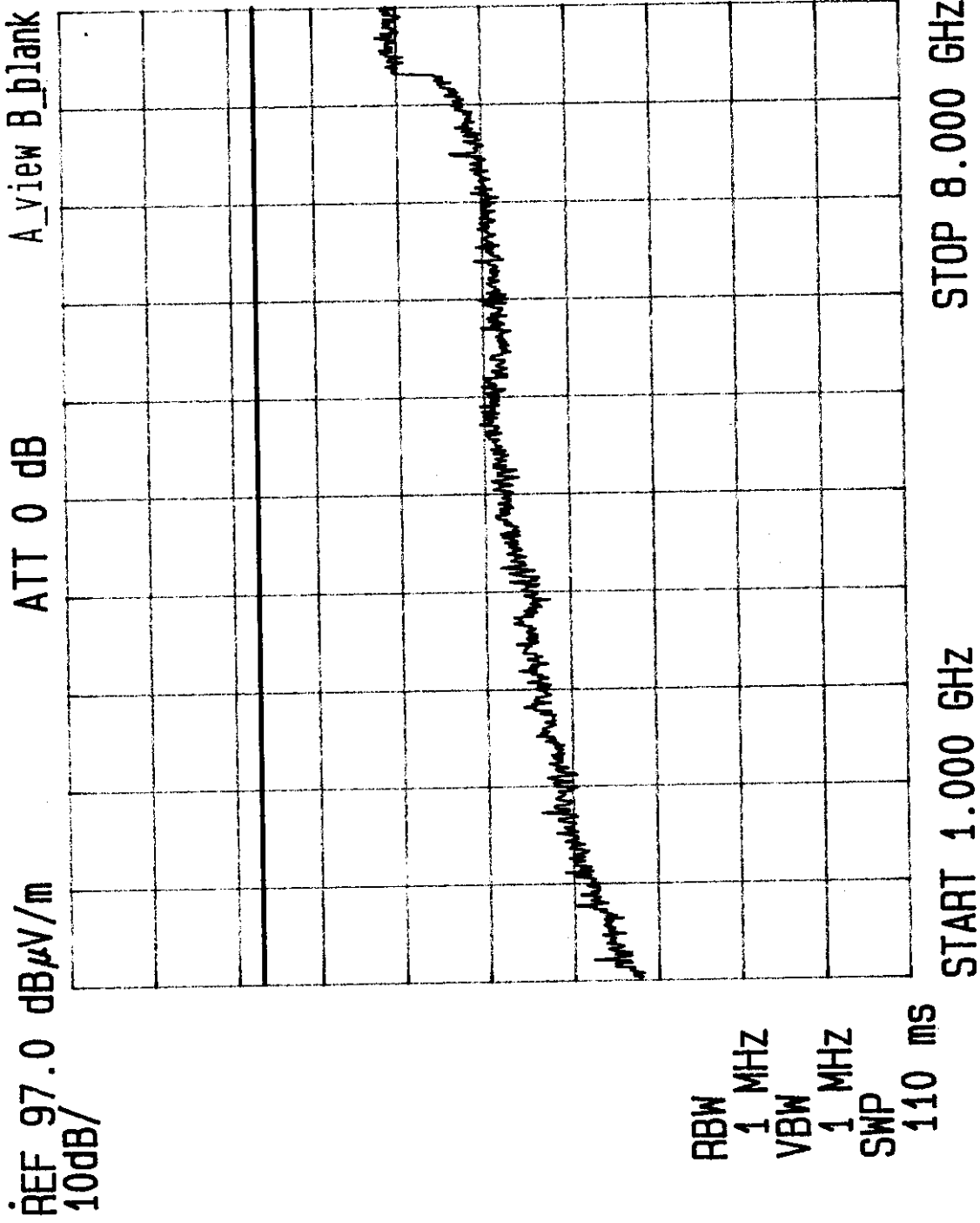
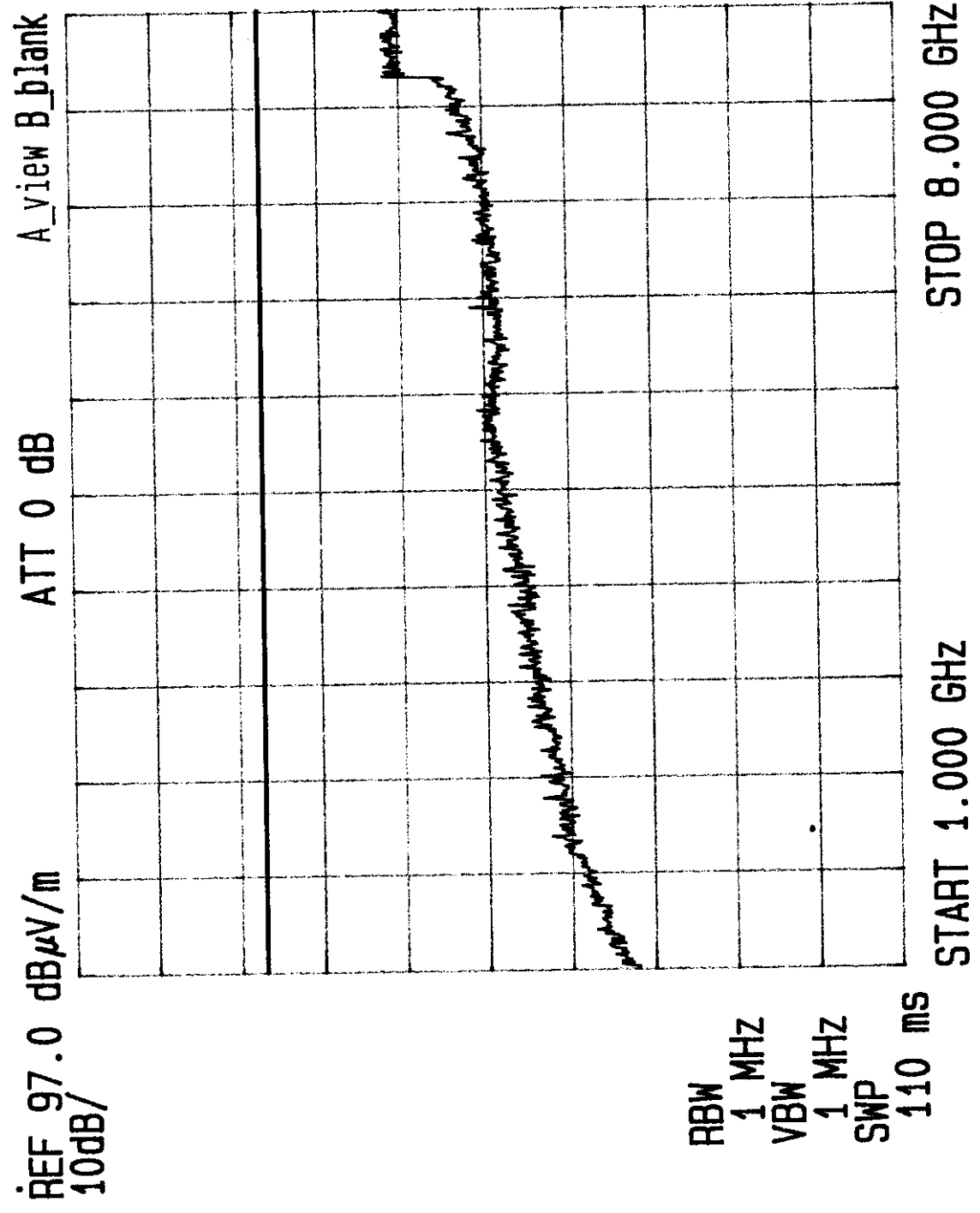


FIGURE 6.1-7



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 1G-8GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT. HT/POL: V
 DETECT: PEAK ANTENNA: N/A EUT POSITION: -
 DATE: 11-13-58 TEST SITE: ROOM 1 TESTER: *[Signature]*



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FIGURE 6.1-8



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 8G-10GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HT/POL: H
 DETECT: PEAK ANTENNA: N/A EUT POSITION:
 DATE: 11-13-98 TEST SITE: ROOM 1 TESTER:

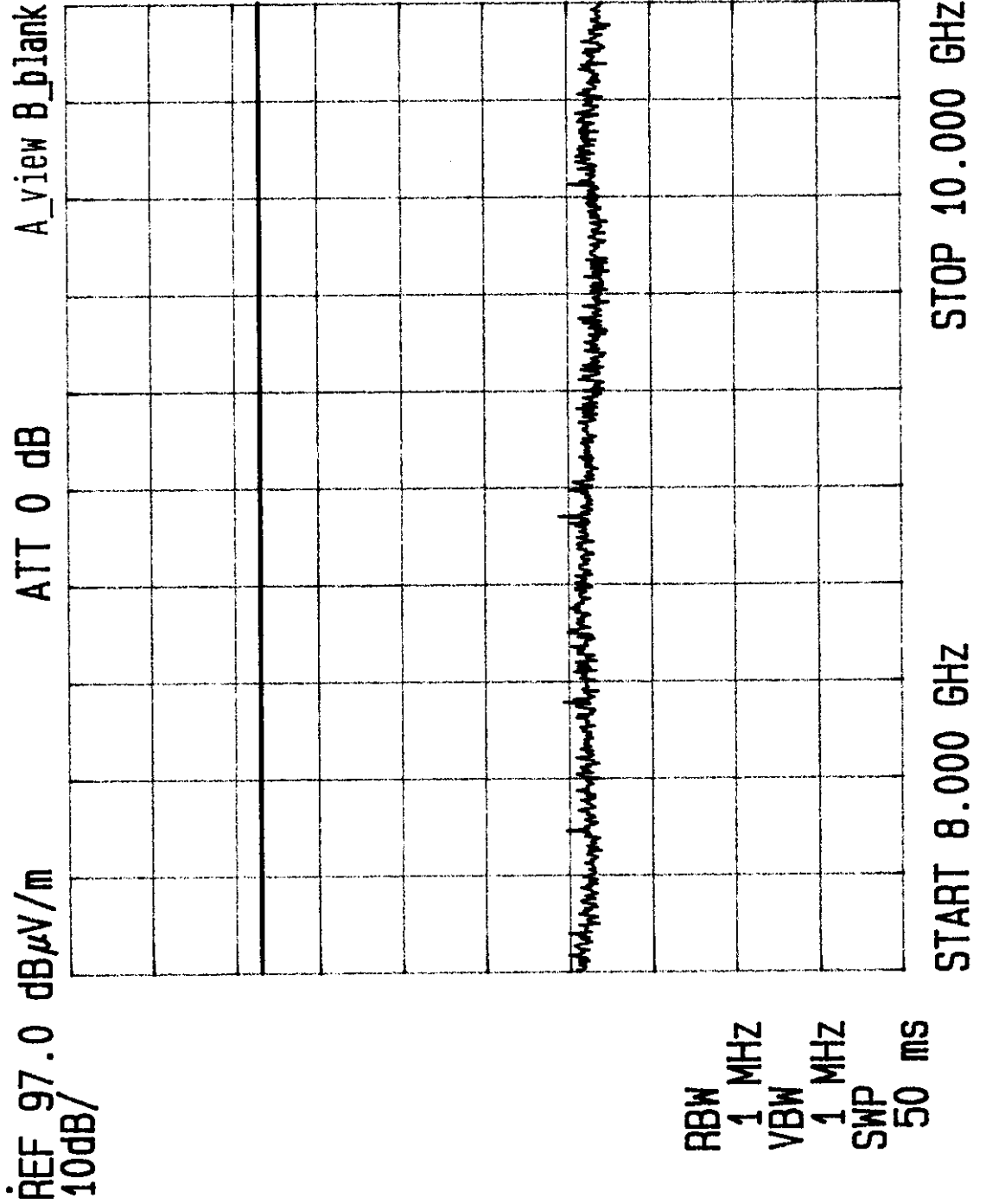


FIGURE 6.1-9



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 8G-10GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT. HT/POL: -- V
 DETECT: PEAK ANTENNA: N/A EUT POSITION: --
 DATE: 11-13-98 TEST SITE: ROOM 1 TESTER: *AB*

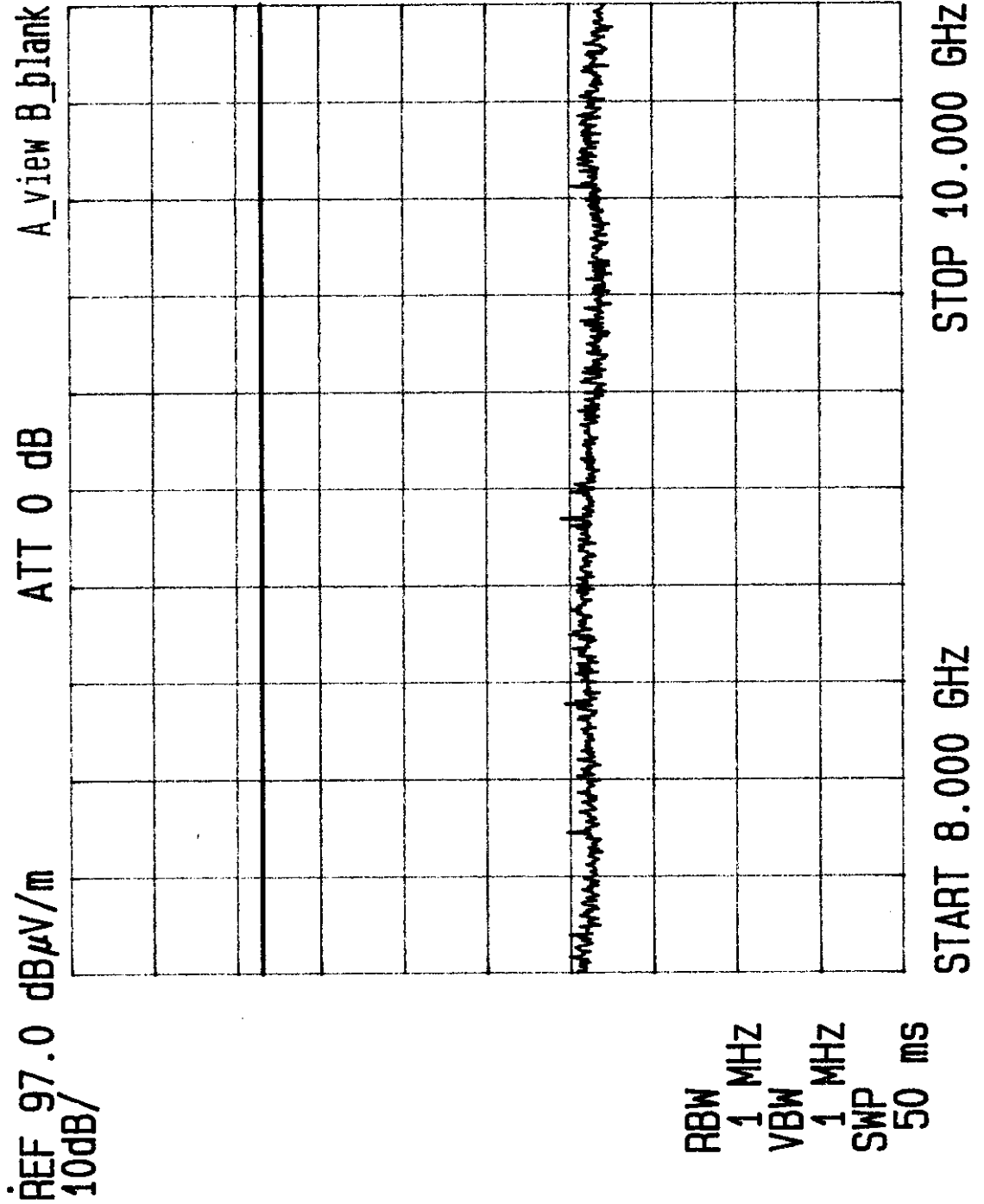


FIGURE 6.1-10



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
FREQ: 30M-100MHZ SPEC: CFR 15.429 INT. RAD. ANT. HT/POL: /5u H
DETECTOR: QUASI PEAK LINE UNDER TEST: N/A EUT POSITION: /80°
DATE: /1-13-78 TEST SITE: 3 METER TESTER: *RB*

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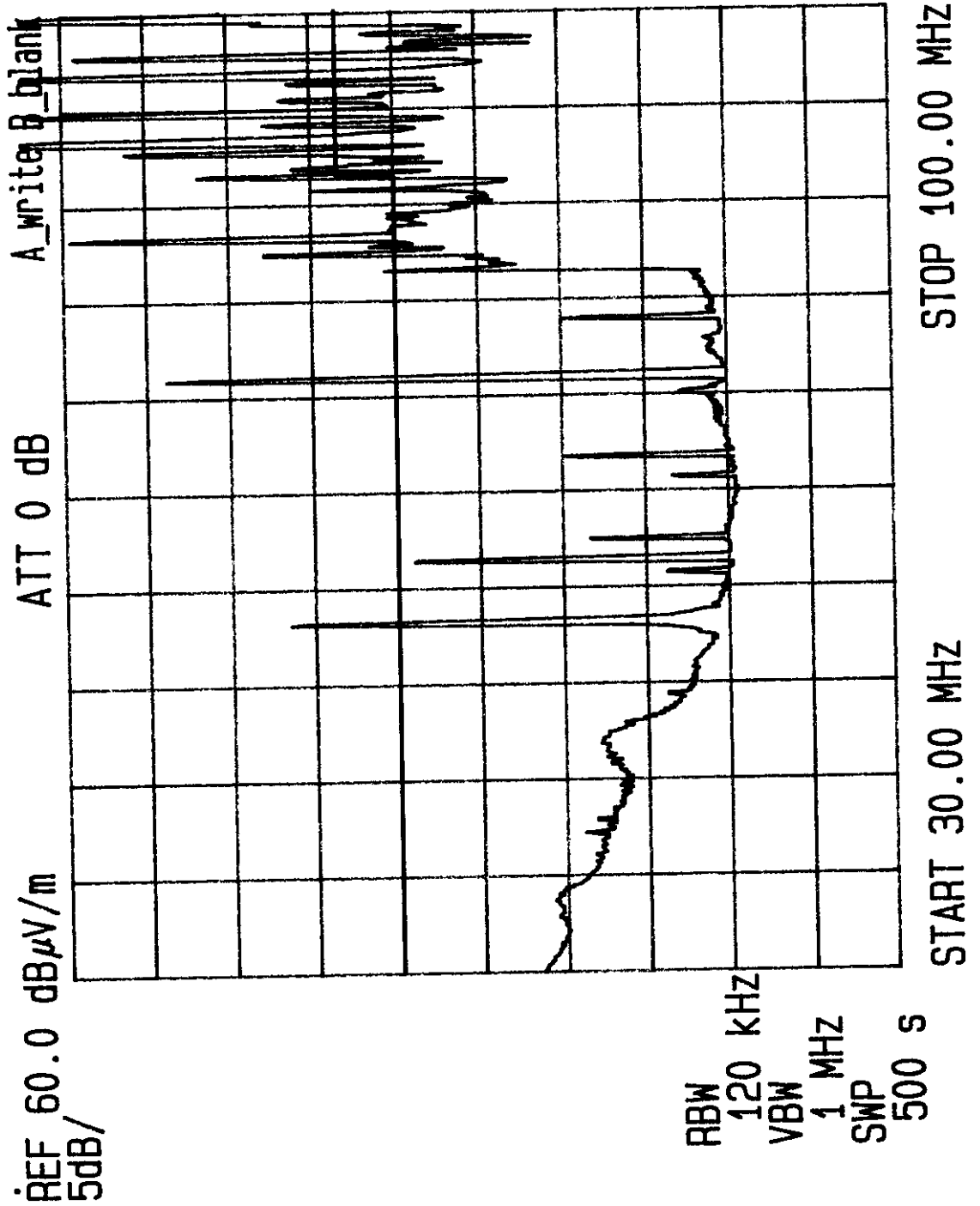


FIGURE 6.1-11



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 30M-100MHZ SPEC: CFR 15.429 INT. RAD. ANT.HT/POL: 1.75m V
 DETECTOR: QUASI PEAK LINE UNDER TEST: N/A EUT POSITION: 180°
 DATE: 11-13-98 TEST SITE: 3 METER TESTER: *[Signature]*

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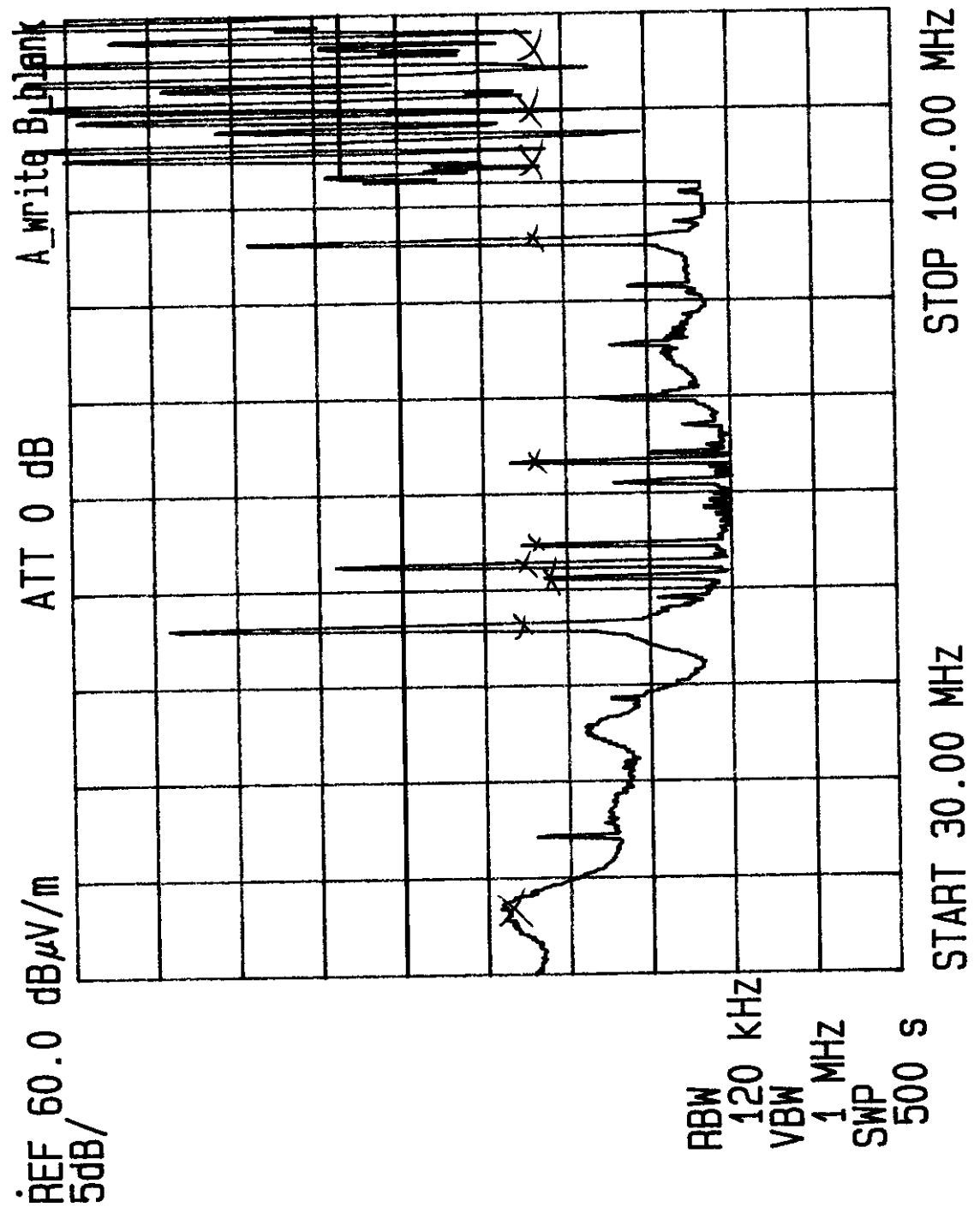


FIGURE 6.1-12



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 100M-200MHz SPEC: CFR 15.429 INT. RAD. ANT.HT/POL: 1.5m \ H
 DETECTOR: QUASI PEAK LINE UNDER TEST: N/A EUT POSITION: 180°
 DATE: 11-13-98 TEST SITE: 3 METER TESTER: *[Signature]*

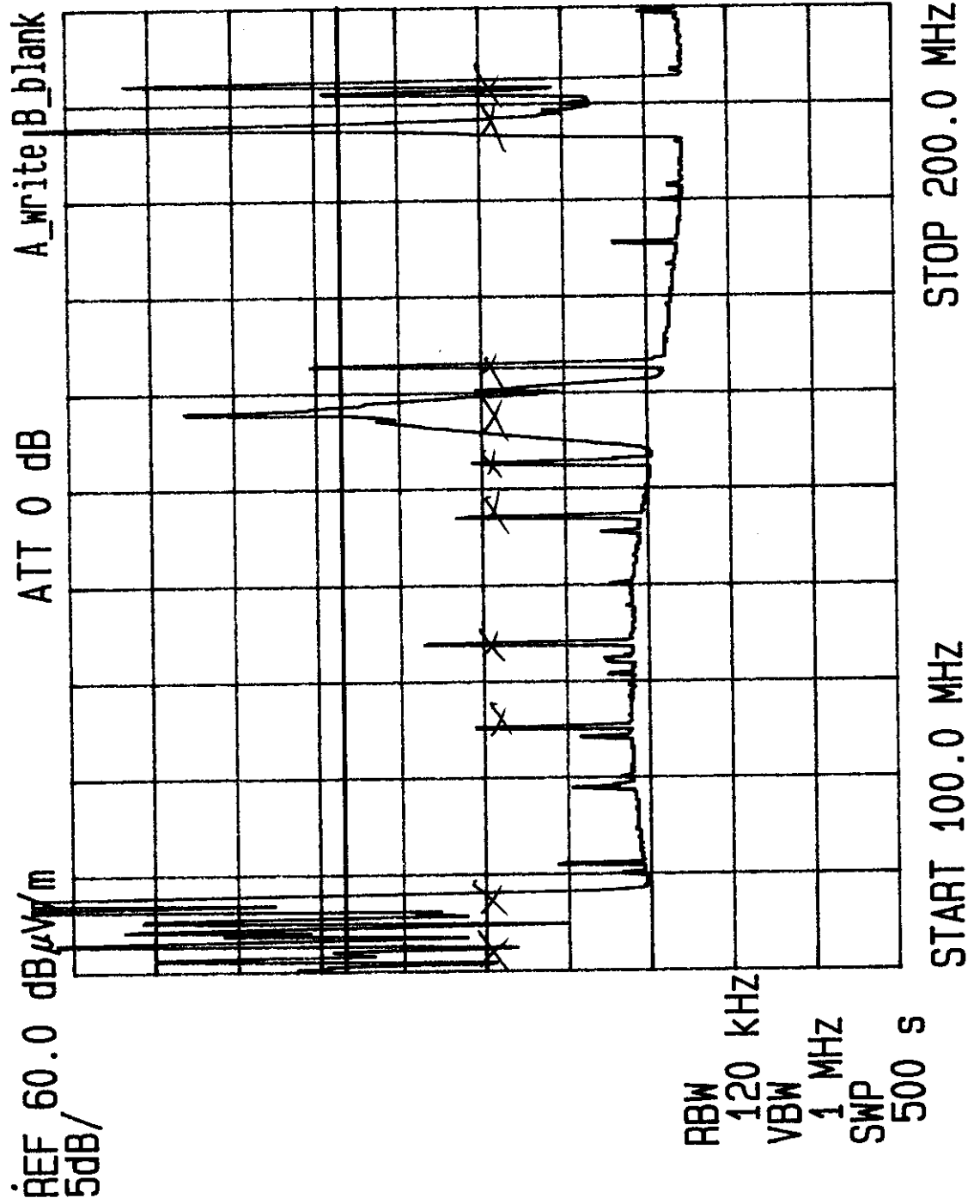


FIGURE 6.1-13



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 100M-200MHZ SPEC: CFR 15.429 INT. RAD. ANT.HT/POL: 1.75m V
 DETECTOR: QUASI PEAK LINE UNDER TEST: N/A EUT POSITION: 180
 DATE: //13-28 TEST SITE: 3 METER TESTER: *[Signature]*

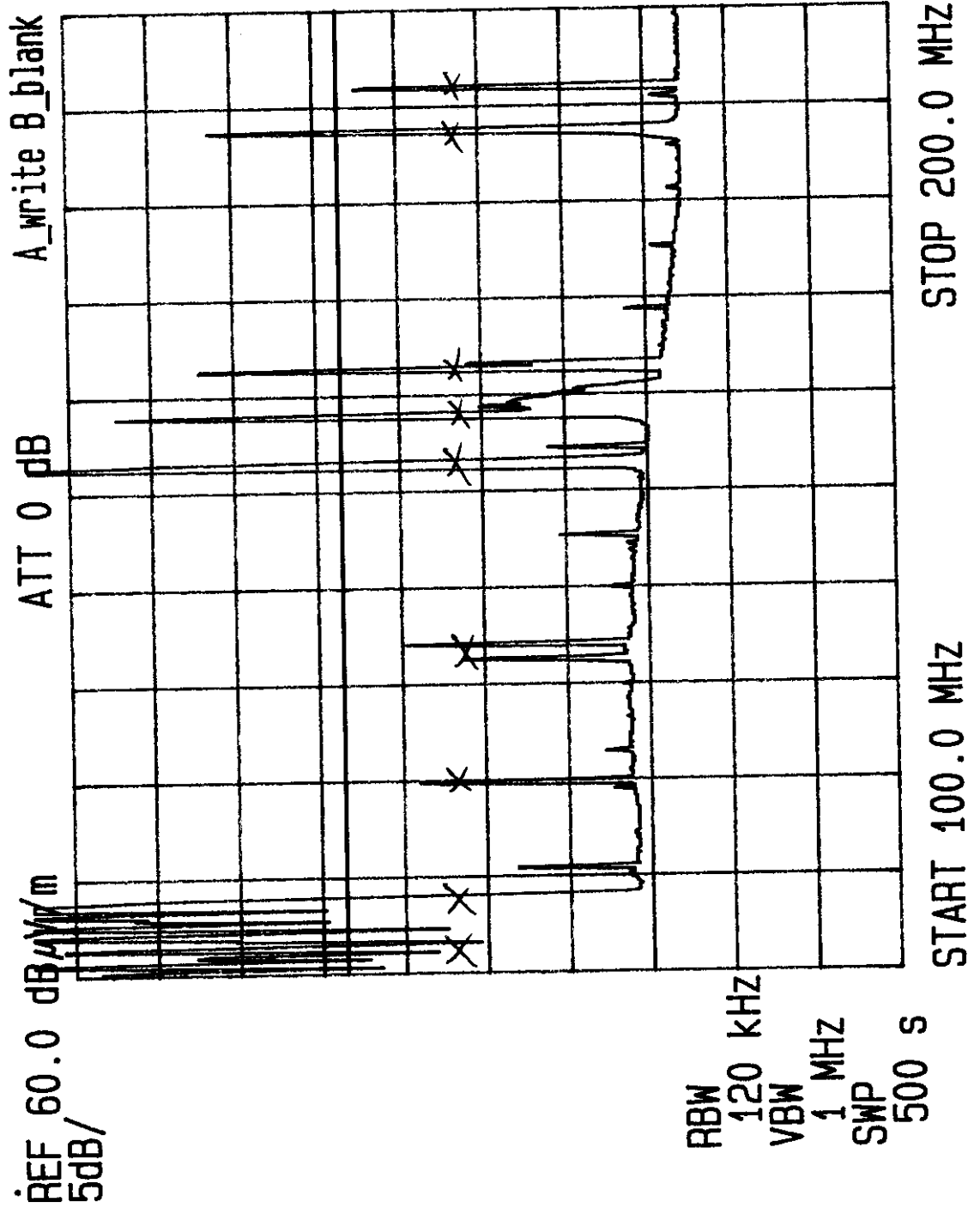


FIGURE 6.1-14



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 200M-1GHZ SPEC: CFR 15.429 INT. RAD. ANT.HI/POL: 1.5m H
 DETECTOR: QUASI PEAK LINE UNDER TEST: N/A EUT POSITION: 0.
 DATE: 11-13-98 TEST SITE: 3 METER TESTER: [Signature]

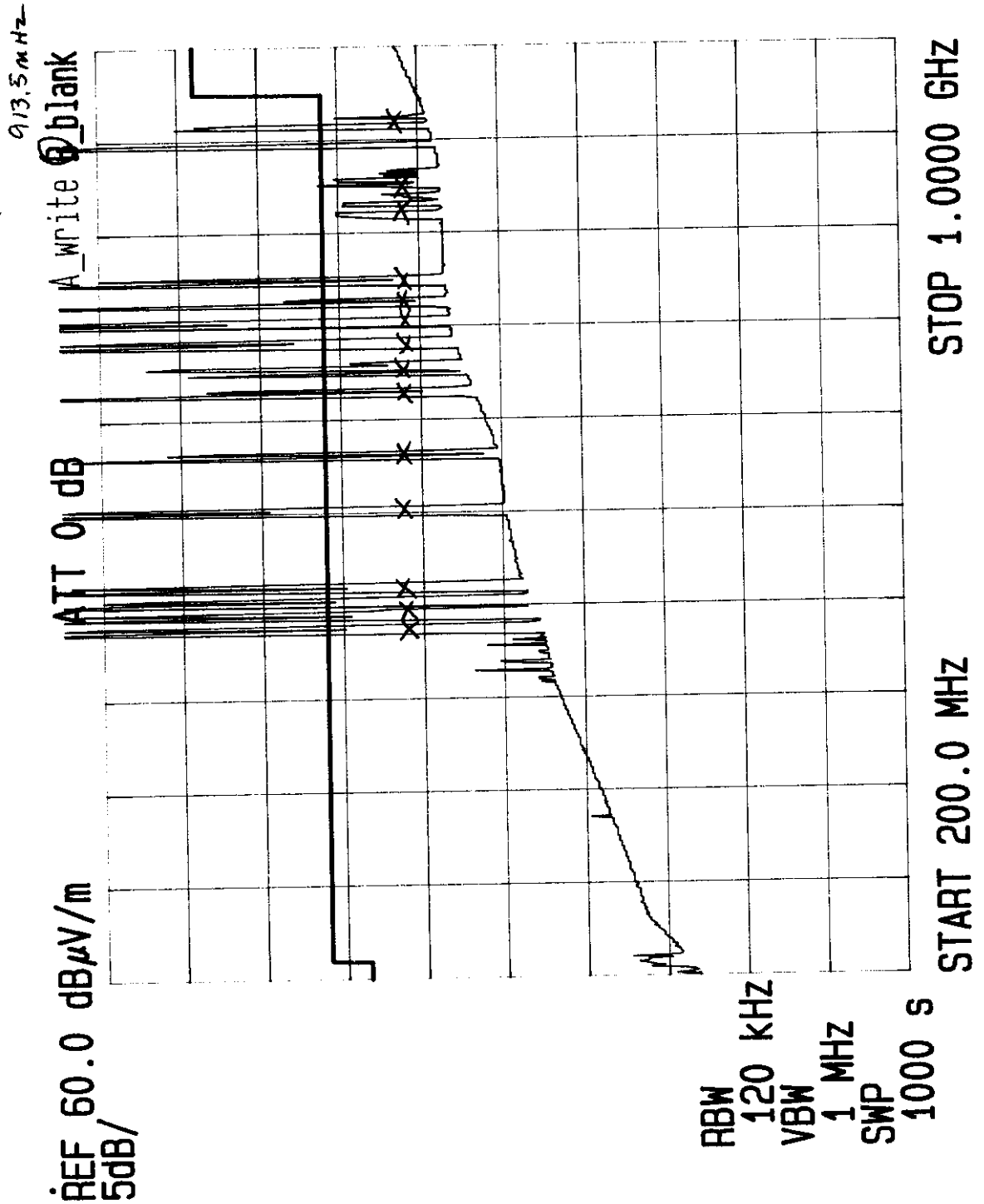


FIGURE 6.1-15



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 200M-1GHZ SPEC: CFR 15.429 INT. RAD. ANT.HT/POL: 1.75m V
 DETECTOR: QUASI PEAK LINE UNDER TEST: N/A EUT POSITION: D.
 DATE: 11-13-98 TEST SITE: 3 METER TESTER: AB

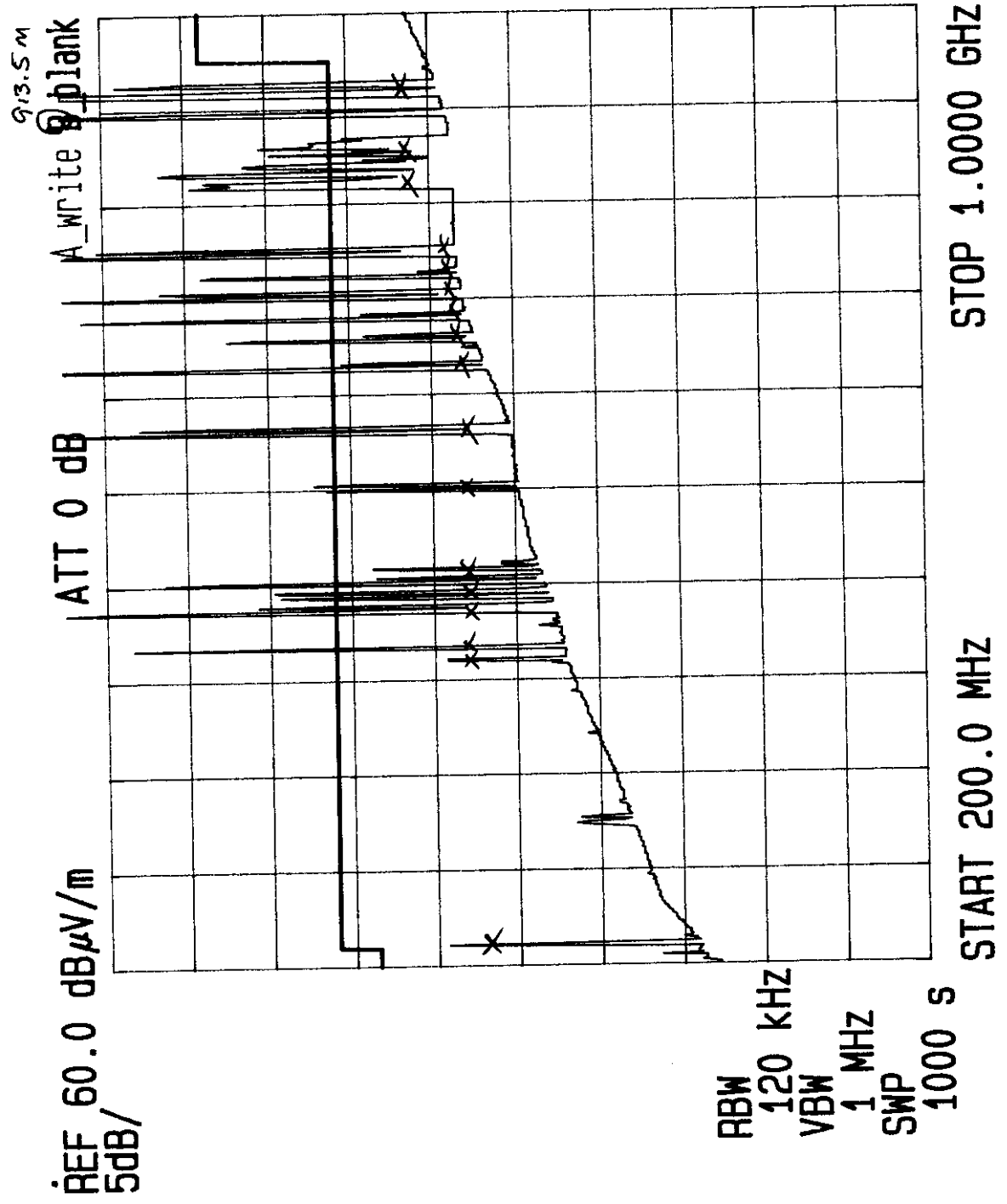


FIGURE 6.1-16



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 1G-8GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT. HT/POL: (0m) H
 DETECT: PEAK ANTENNA: N/A EUT POSITION: /S7-
 DATE: 1/13-98 TEST SITE: 3 METER TESTER: *AS*

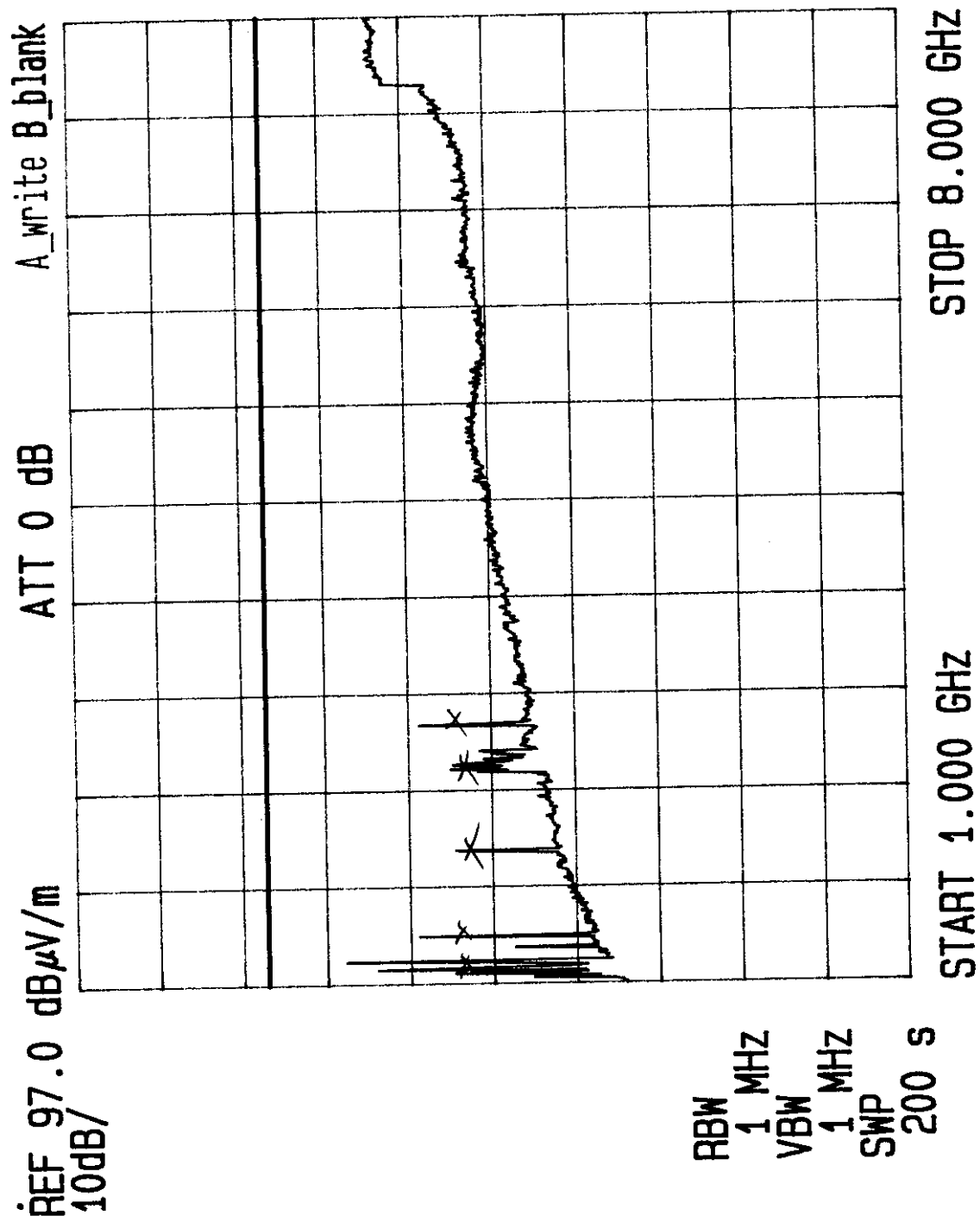
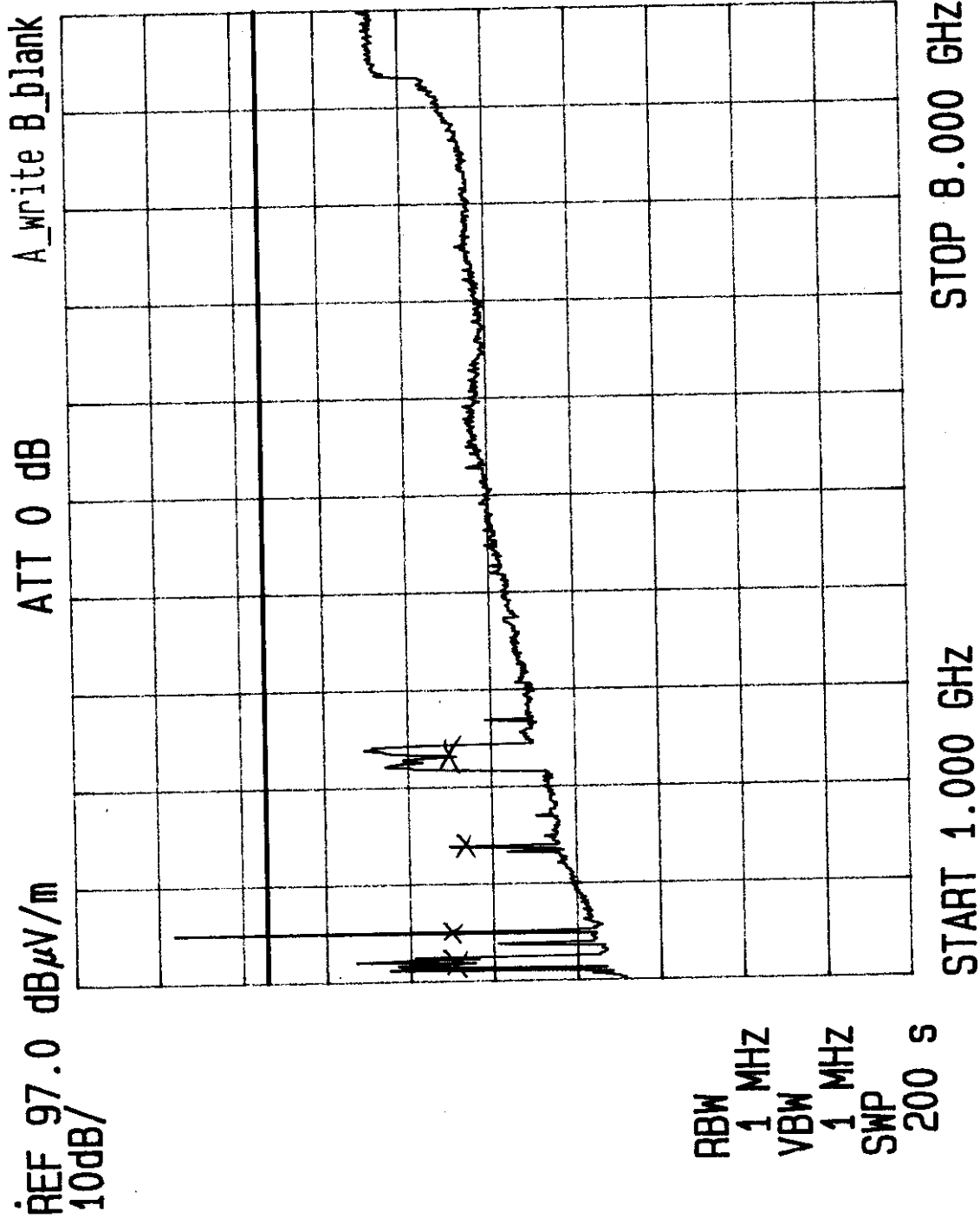


FIGURE 6.1-17



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 1G-8GHz SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HT/POL: 1.0m\ V
 DETECT: PEAK ANTENNA: N/A EUT POSITION: 180°
 DATE: 11-13-98 TEST SITE: 3 METER TESTER: *[Signature]*



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FIGURE 6.1-18



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 8G-10GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HT/POL: 1.0m \ H
 DETECT: PEAK ANTENNA: N/A EUT POSITION: /80°
 DATE: 11-13-98 TEST SITE: 1 METER TESTER: *AS*

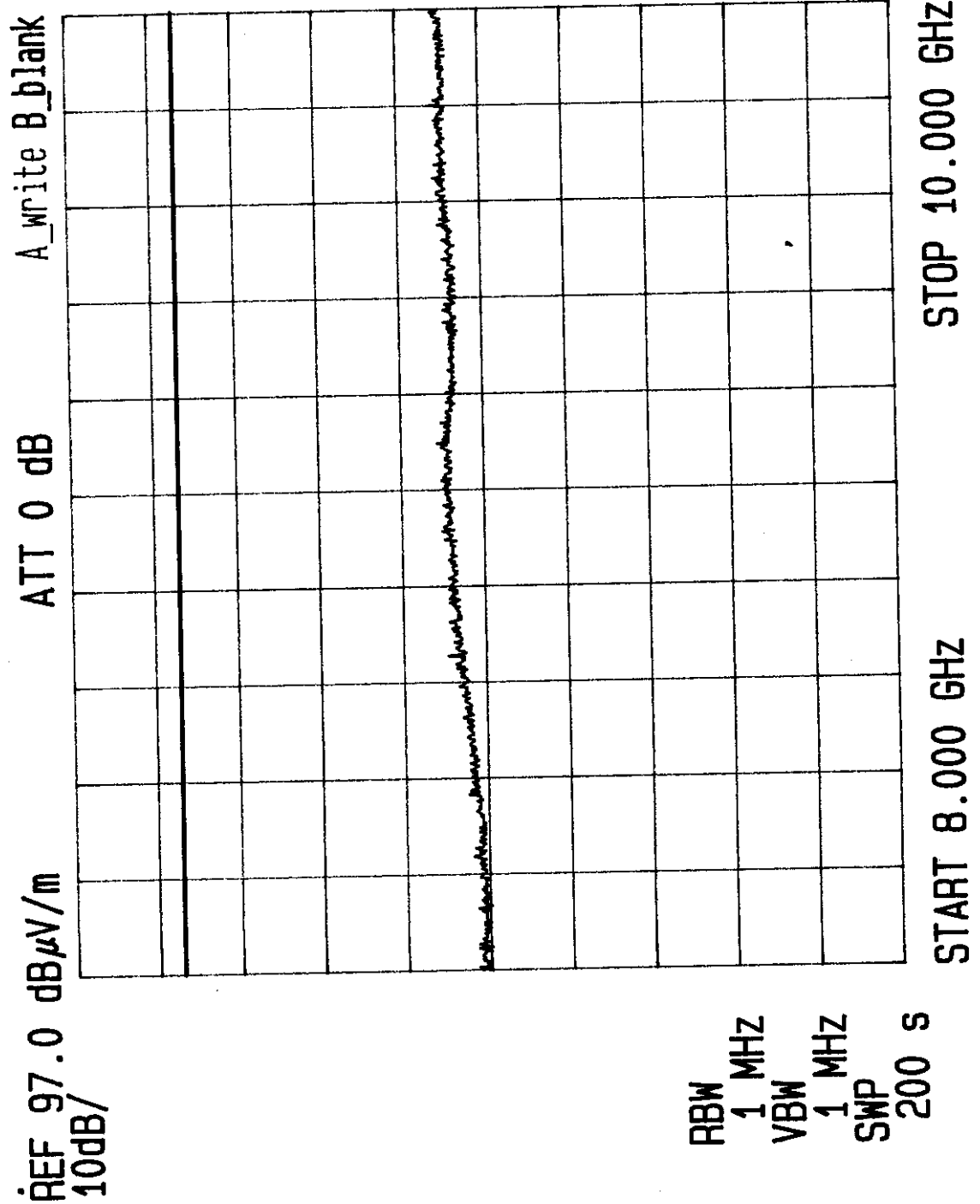


FIGURE 6.1-19



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 8G-10GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HT/POL: 10m \ V
 DETECT: PEAK ANTENNA: N/A EUT POSITION: 180°
 DATE: 11-13-58 TEST SITE: 1 METER TESTER: *AB*

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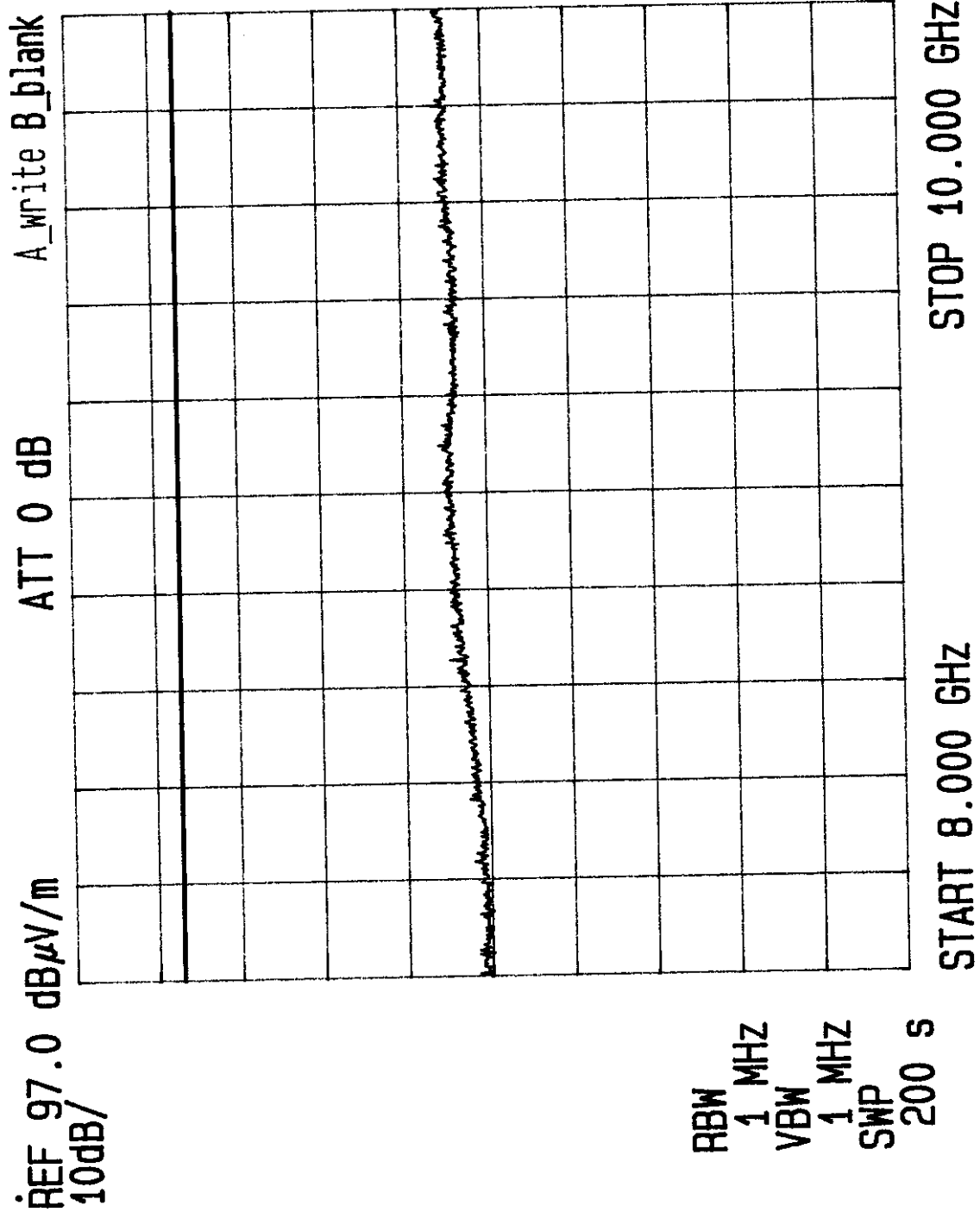


FIGURE 6.1-20



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 1G-4GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HI/POL: /Om\H
 DETECT: AVERAGE ANTENNA: N/A EUT POSITION: /S7°
 DATE: 11-13-98 TEST SITE: 3 METER TESTER: AB

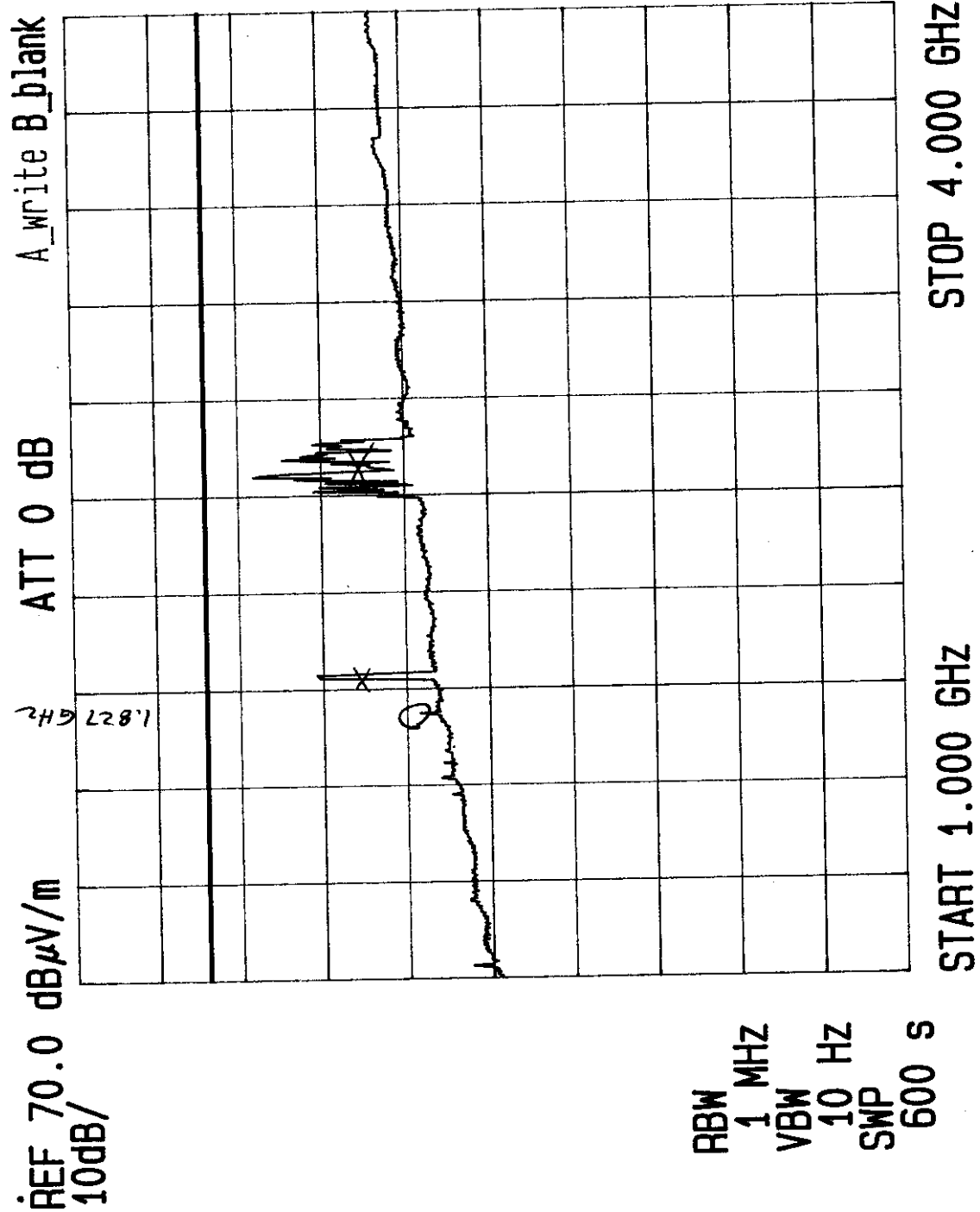


FIGURE 6.1-21



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 4G-8GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT. HT/POL: 1.0m\H
 DETECT: AVERAGE ANTENNA: N/A EUT POSITION: 0°
 DATE: //13-98 TEST SITE: 3 METER TESTER: *[Signature]*

JA-1613

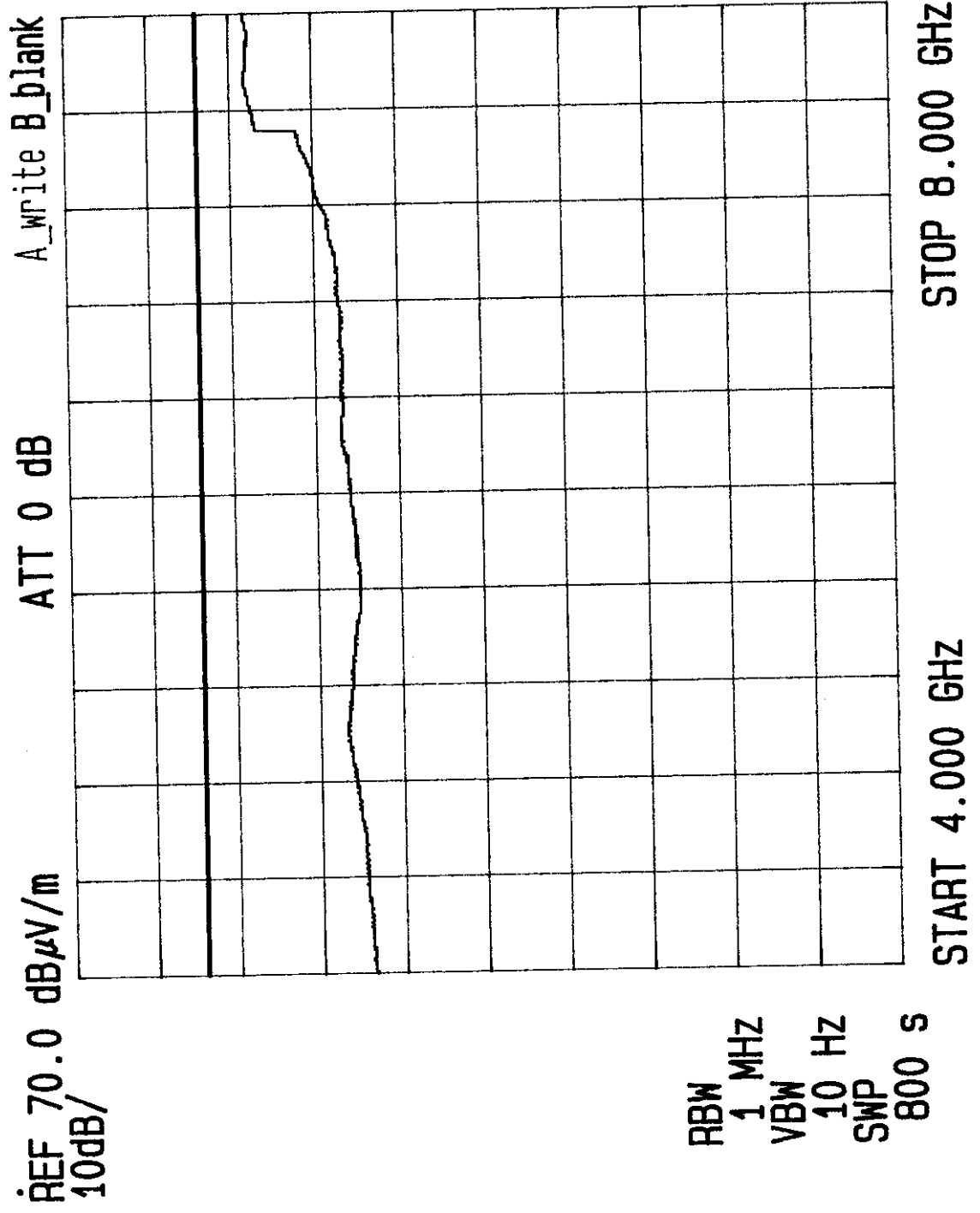


FIGURE 6.1-22



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 4G-8GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT. HT/POL: /Om\ H
 DETECT: AVG. AMBIENT ANTENNA: N/A EUT POSITION: -
 DATE: 11-13-58 TEST SITE: 3 METER TESTER:

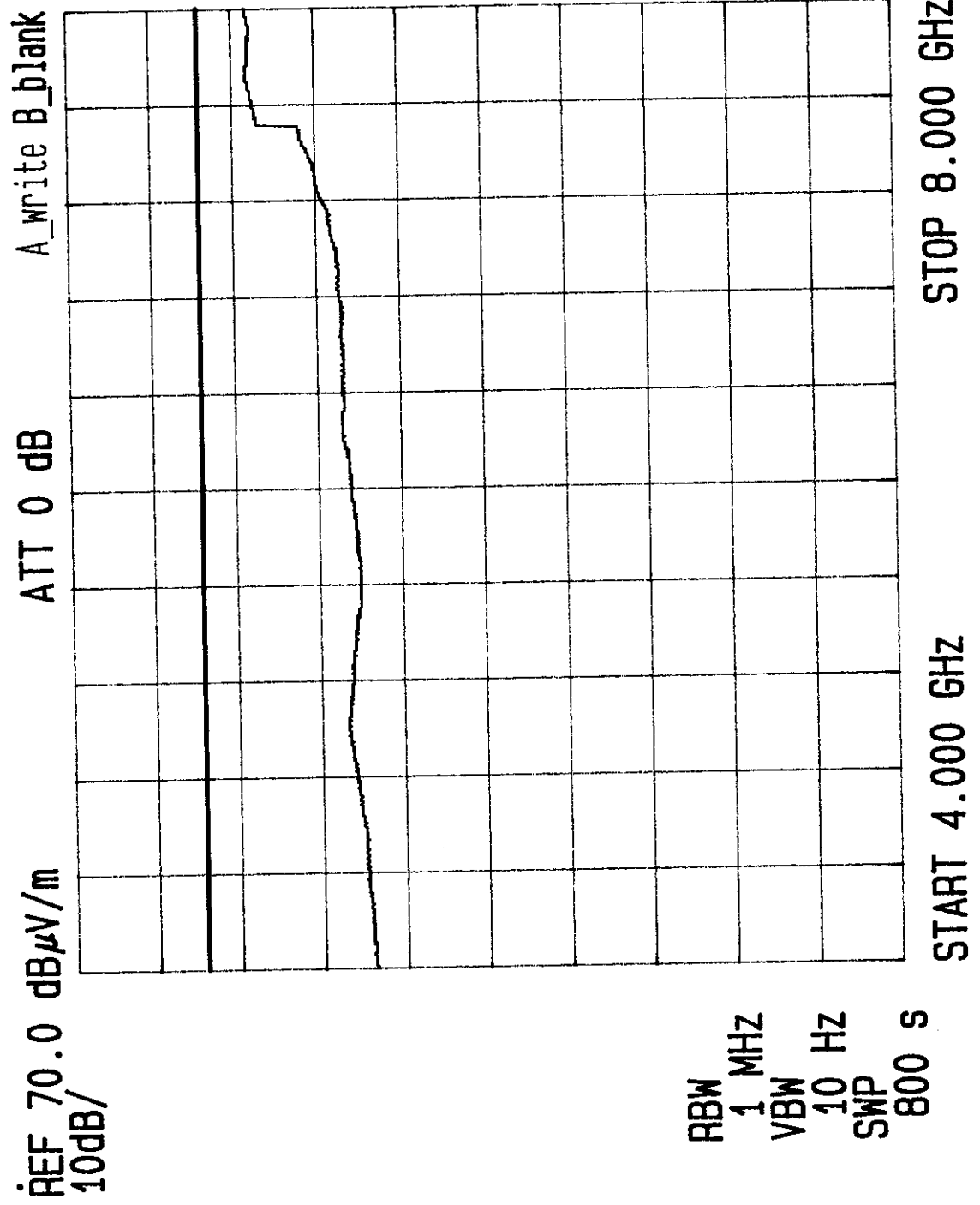


FIGURE 6.1-23



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 4G-8GHz SPEC: PARAGRAPH 15.249 INT. RAD. ANT. HT/POL: 1.0m \ V
 DETECT: AVERAGE ANTENNA: N/A EUT POSITION: 0°
 DATE: 11-13-98 TEST SITE: 3 METER TESTER: *[Signature]*

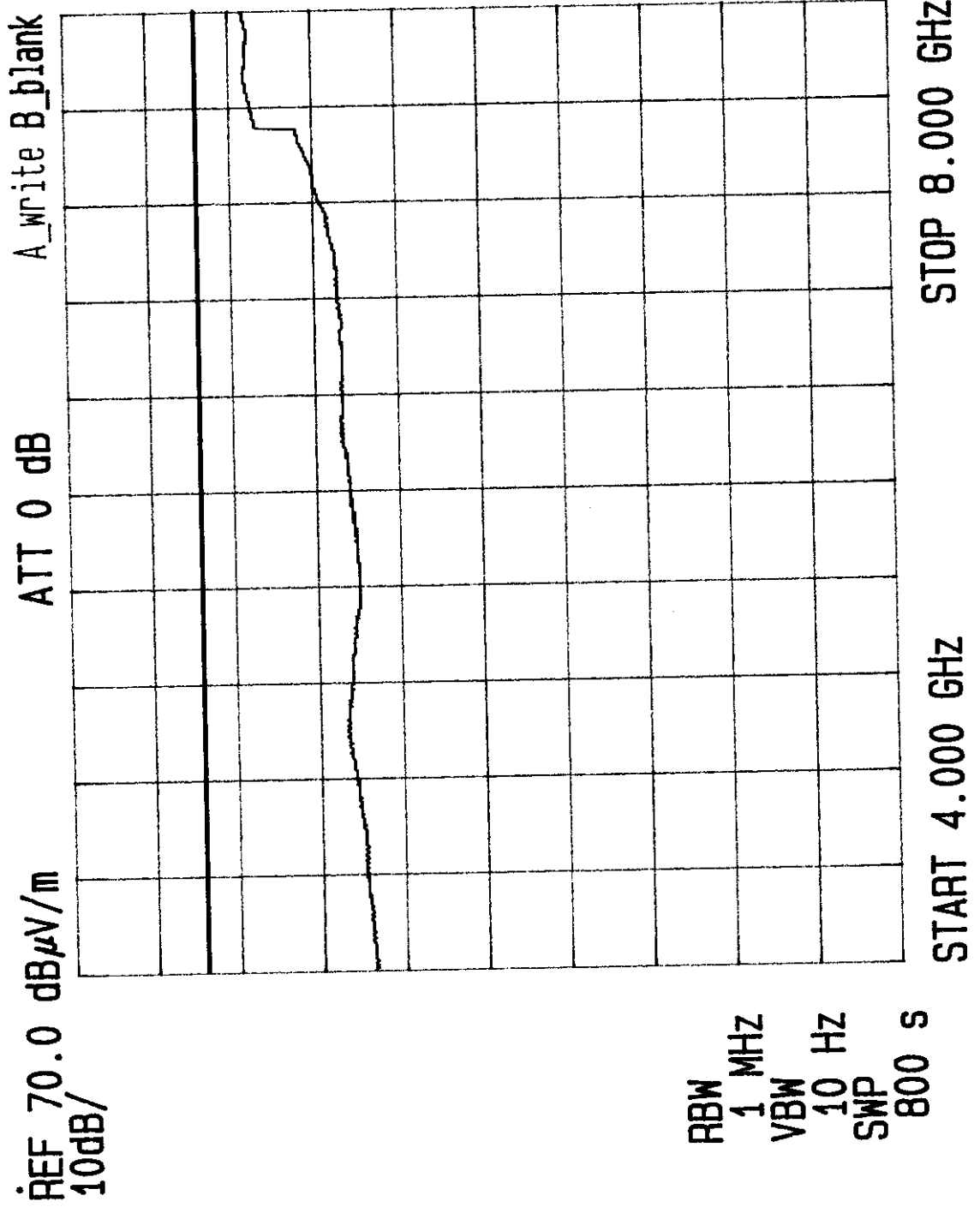


FIGURE 6.1-24



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 4G-8GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HT/POL: /Om V
 DETECT: AVG. AMBIENT ANTENNA: N/A EUT POSITION:
 DATE: //13-98 TEST SITE: 3 METER TESTER: *AD*

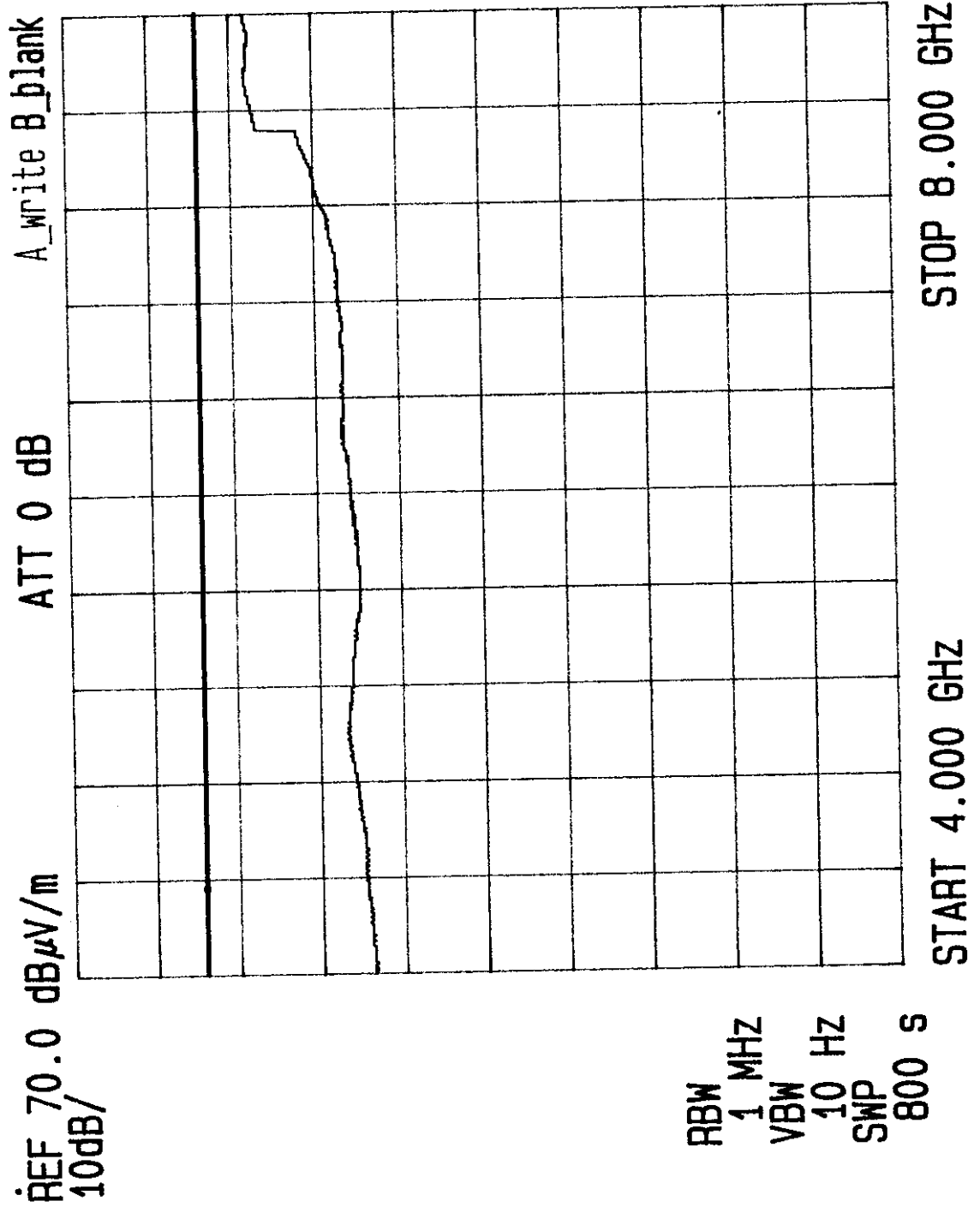


FIGURE 6.1-25



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 8G-10GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HT/POL: /Om' H
 DETECT: AVERAGE ANTENNA: N/A EUT POSITION: 18"
 DATE: 11-13-77 TEST SITE: 1 METER TESTER: *AB*

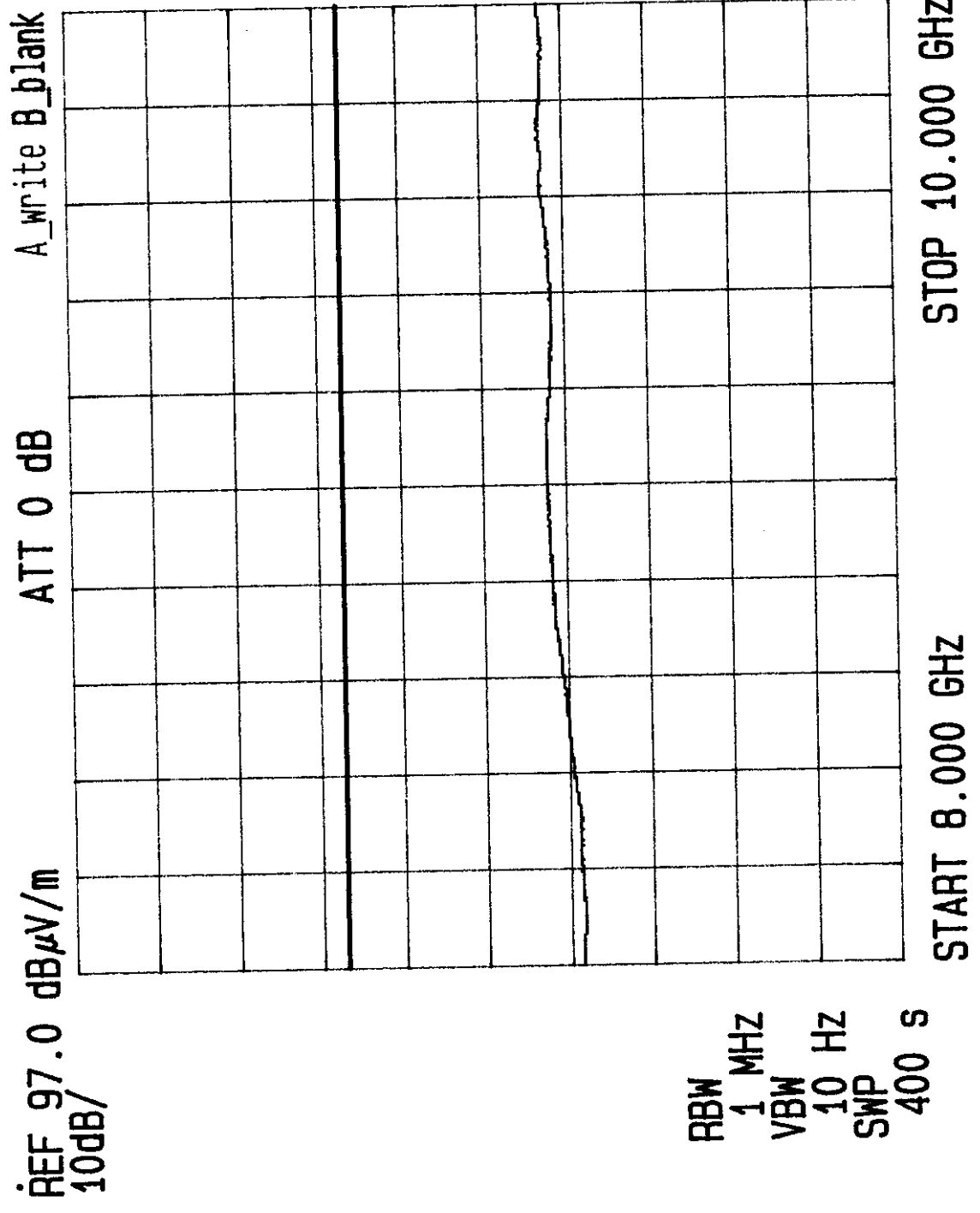


FIGURE 6.1-26



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 8G-10GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HI/POL: 1.0m V
 DETECT: AVERAGE ANTENNA: N/A EUT POSITION: 180
 DATE: 11-13-78 TEST SITE: 1 METER TESTER: *[Signature]*

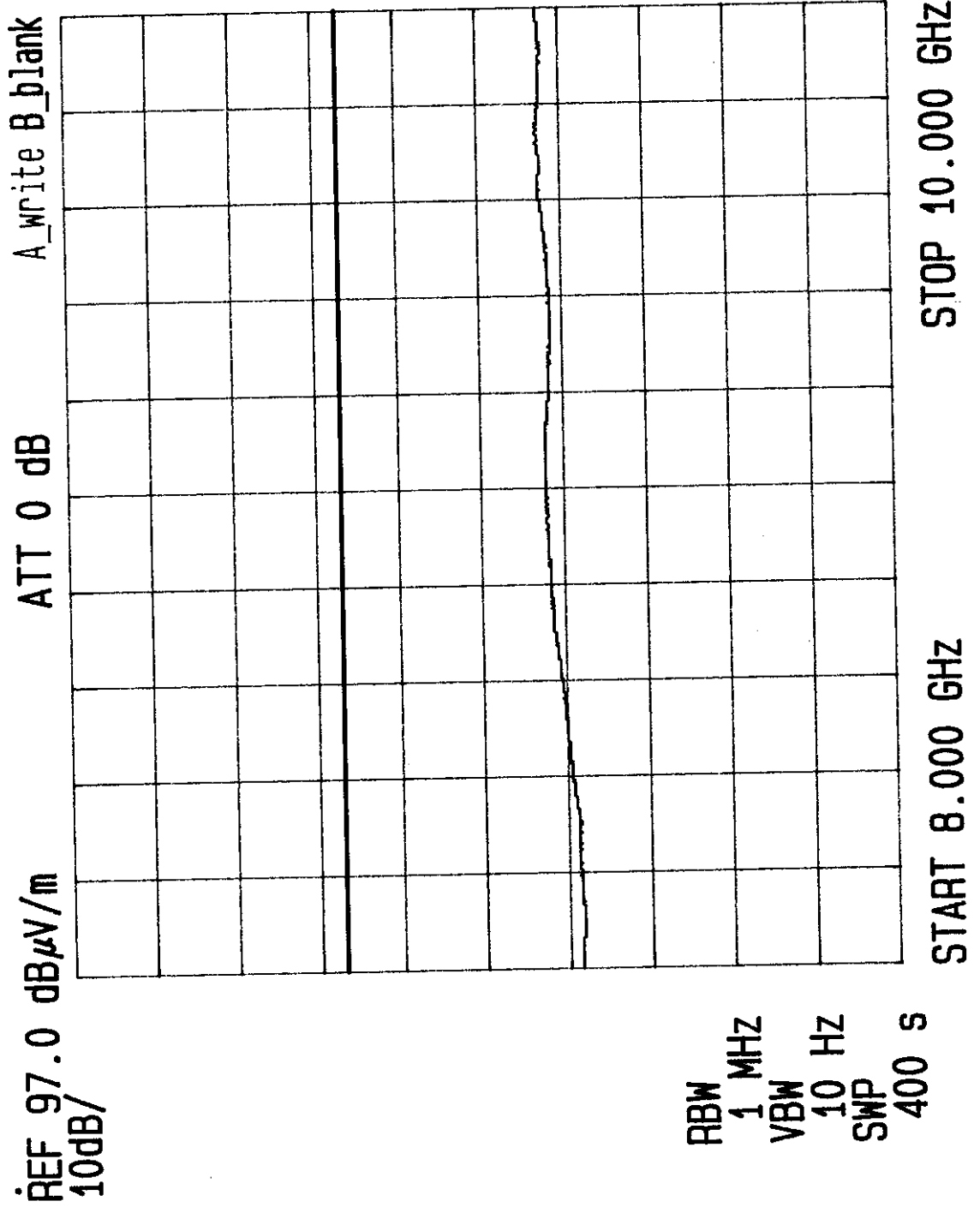


FIGURE 6.1-27



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 30M-100MHZ SPEC: CFR 15.429 INT. RAD. ANT. HT/POL: / .5m \ H
 DETECTOR: O P AMBIENT LINE UNDER TEST: N/A EUT POSITION: ---
 DATE: 11-13-98 TEST SITE: 3 METER TESTER: *AB*

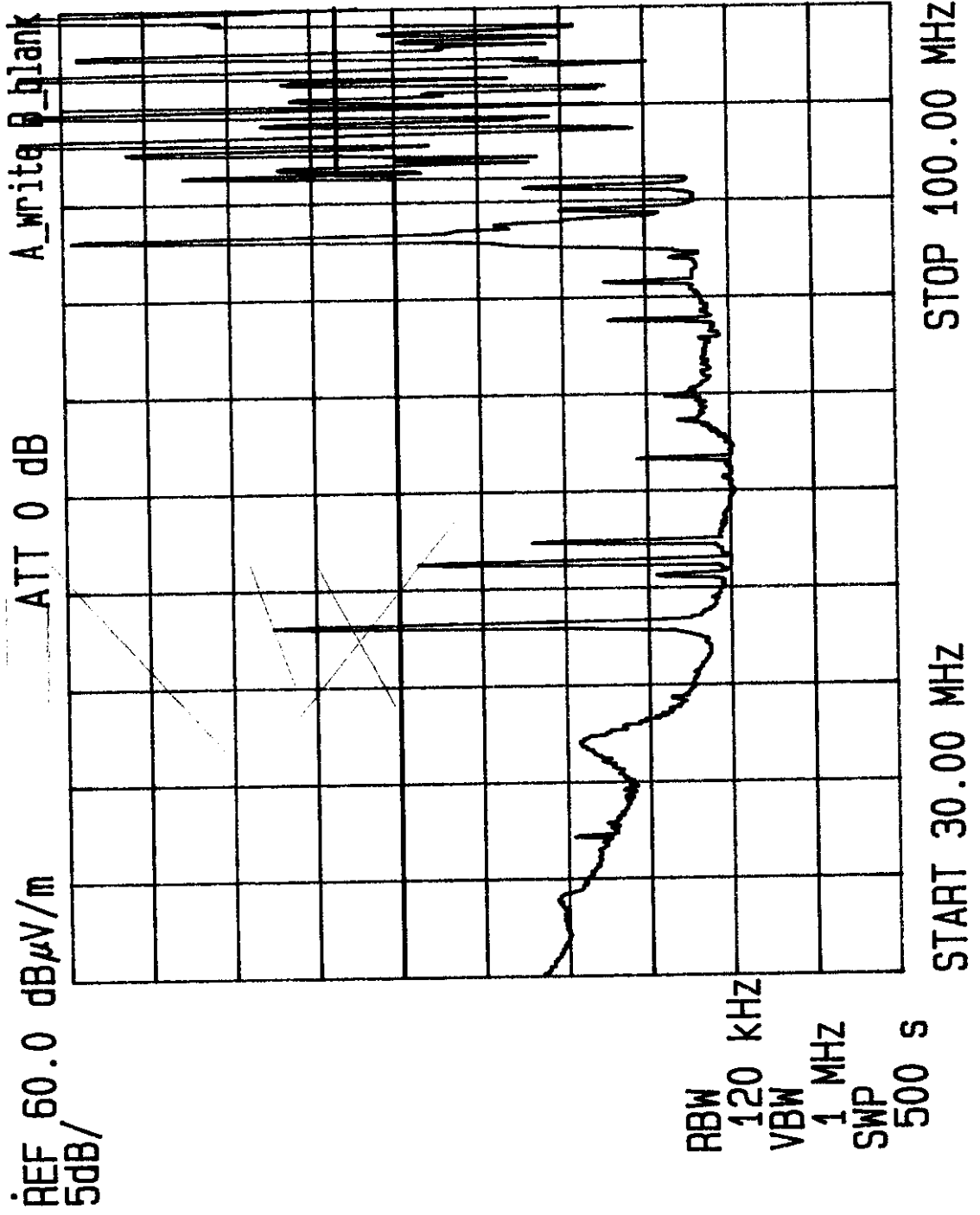


FIGURE 6.1-28



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 30M-100MHZ SPEC: CFR 15.429 INT. RAD. ANT. HT/POL: 1.75m \ V
 DETECTOR: Q P AMBIENT LINE UNDER TEST: N/A EUT POSITION: --
 DATE: 11-13-98 TEST SITE: 3 METER TESTER: *[Signature]*

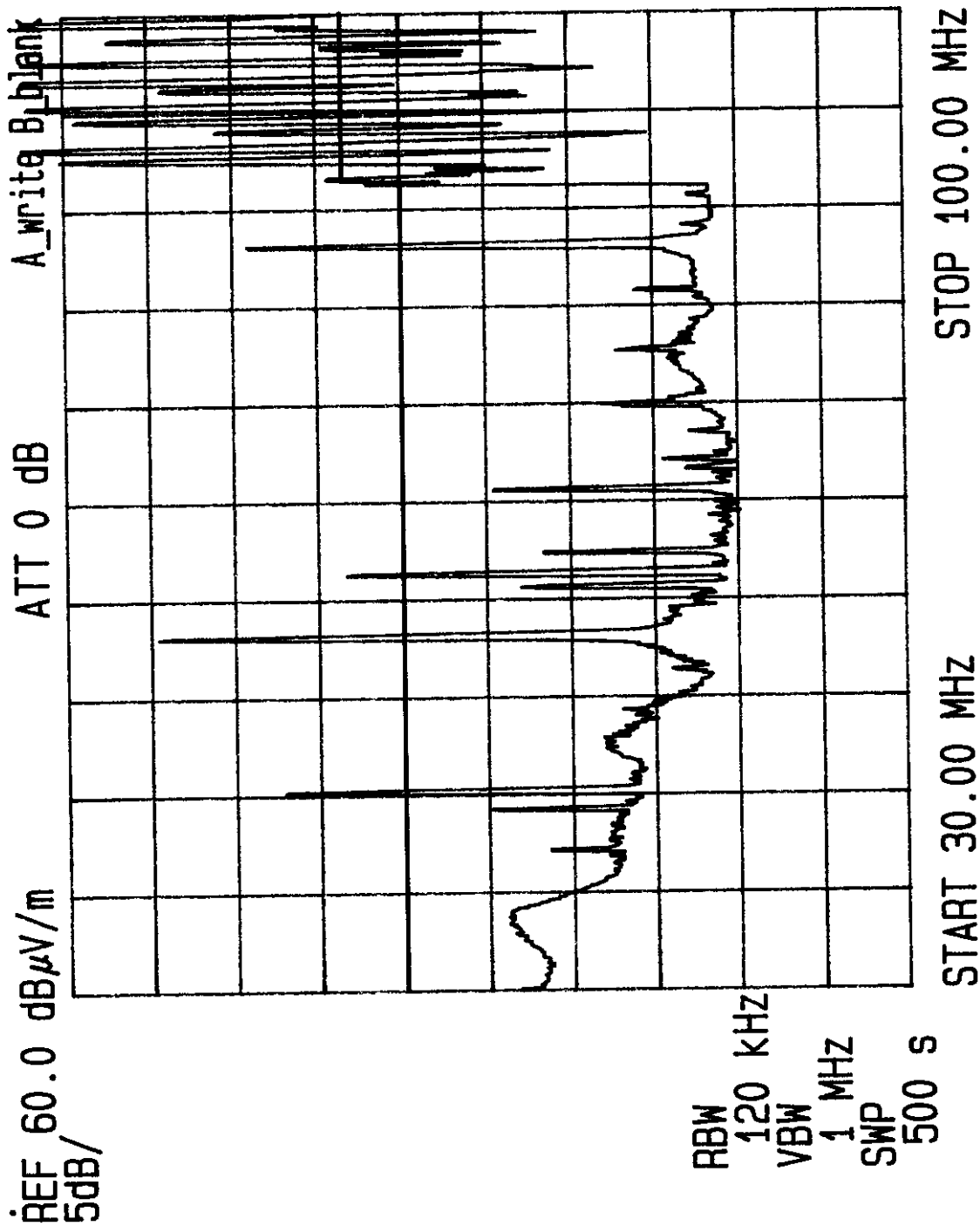


FIGURE 6.1-29



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 100M-200MHZ SPEC: CFR 15.429 INT. RAD. ANT.HT/POL: 1.5m (H)
 DETECTOR: Q P AMBIENT LINE UNDER TEST: N/A EUT POSITION: --
 DATE: 11-13-98 TEST SITE: 3 METER TESTER: *[Signature]*

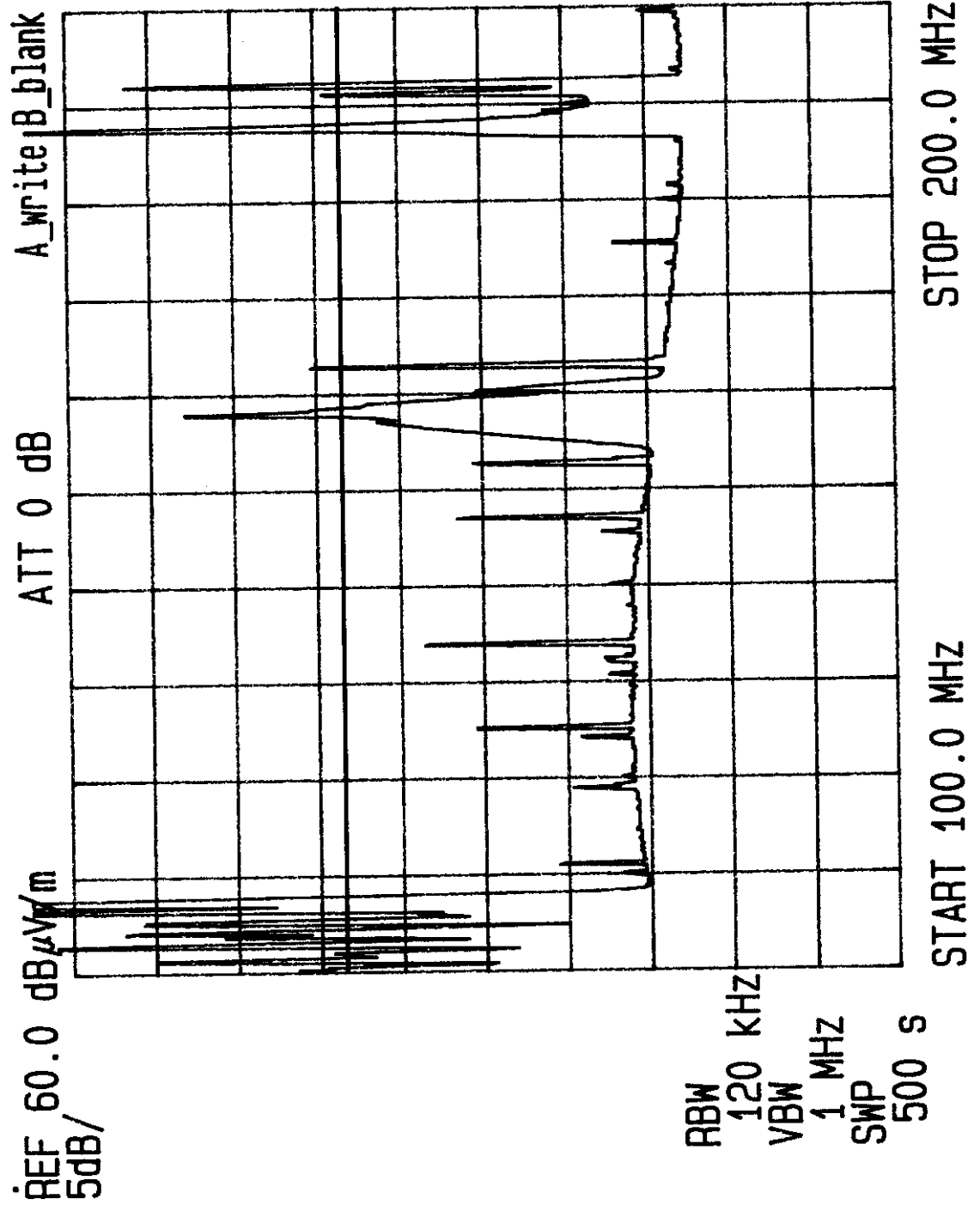


FIGURE 6.1-30



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 100M-200MHZ SPEC: CFR 15.429 INT. RAD. ANT. HT/POL: 1.75m | V
 DETECTOR: Q P AMBIENT LINE UNDER TEST: N/A EUT POSITION:
 DATE: 11-13-98 TEST SITE: 3 METER TESTER: *[Signature]*

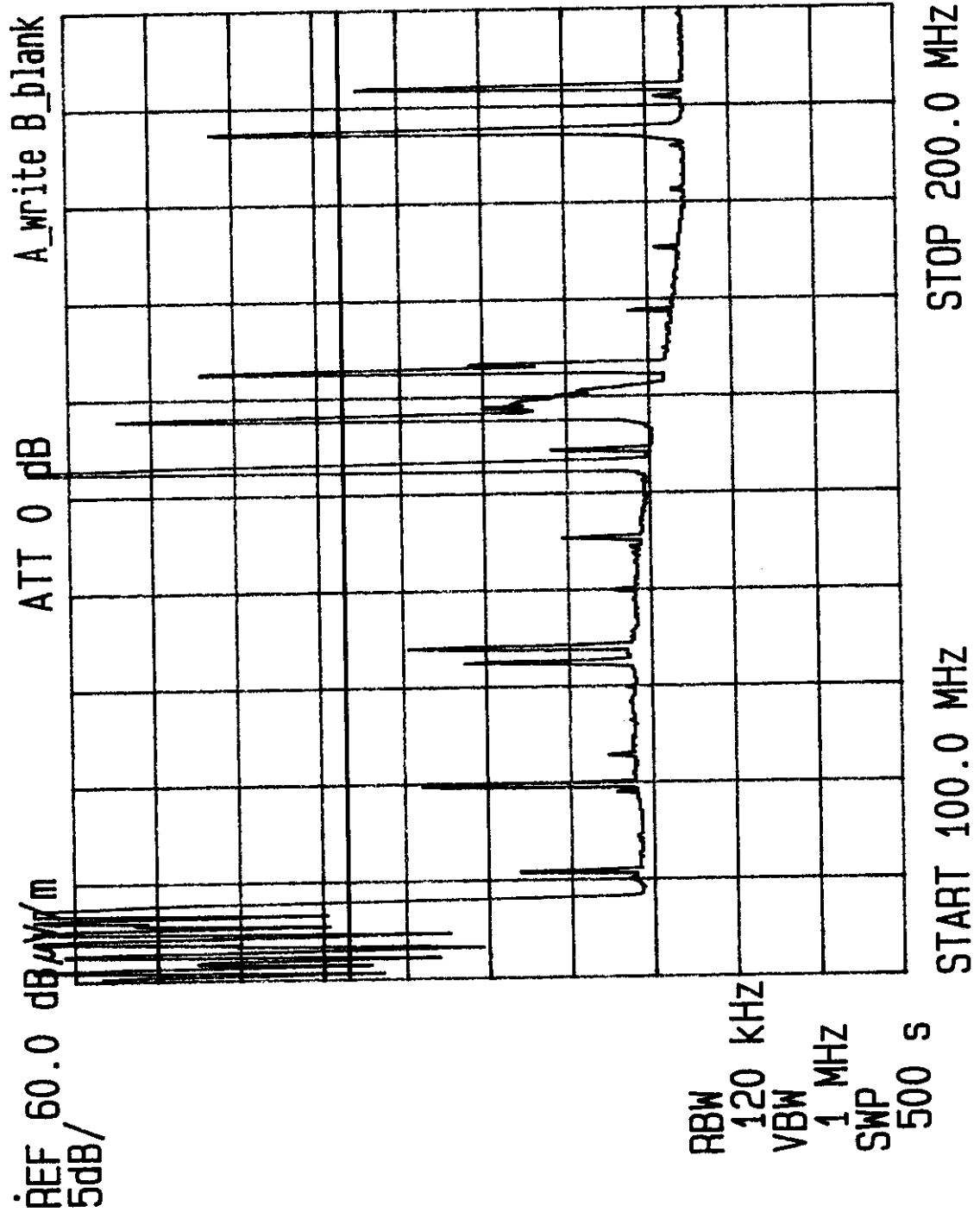


FIGURE 6.1-31



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 SPEC: CFR 15.429 INT. RAD. ANT. HT/POL: (15m) H
 DETECTOR: Q P AMBIENT LINE UNDER TEST: N/A EUT POSITION: 0°
 DATE: 11-13-98 TEST SITE: 3 METER TESTER: *[Signature]*

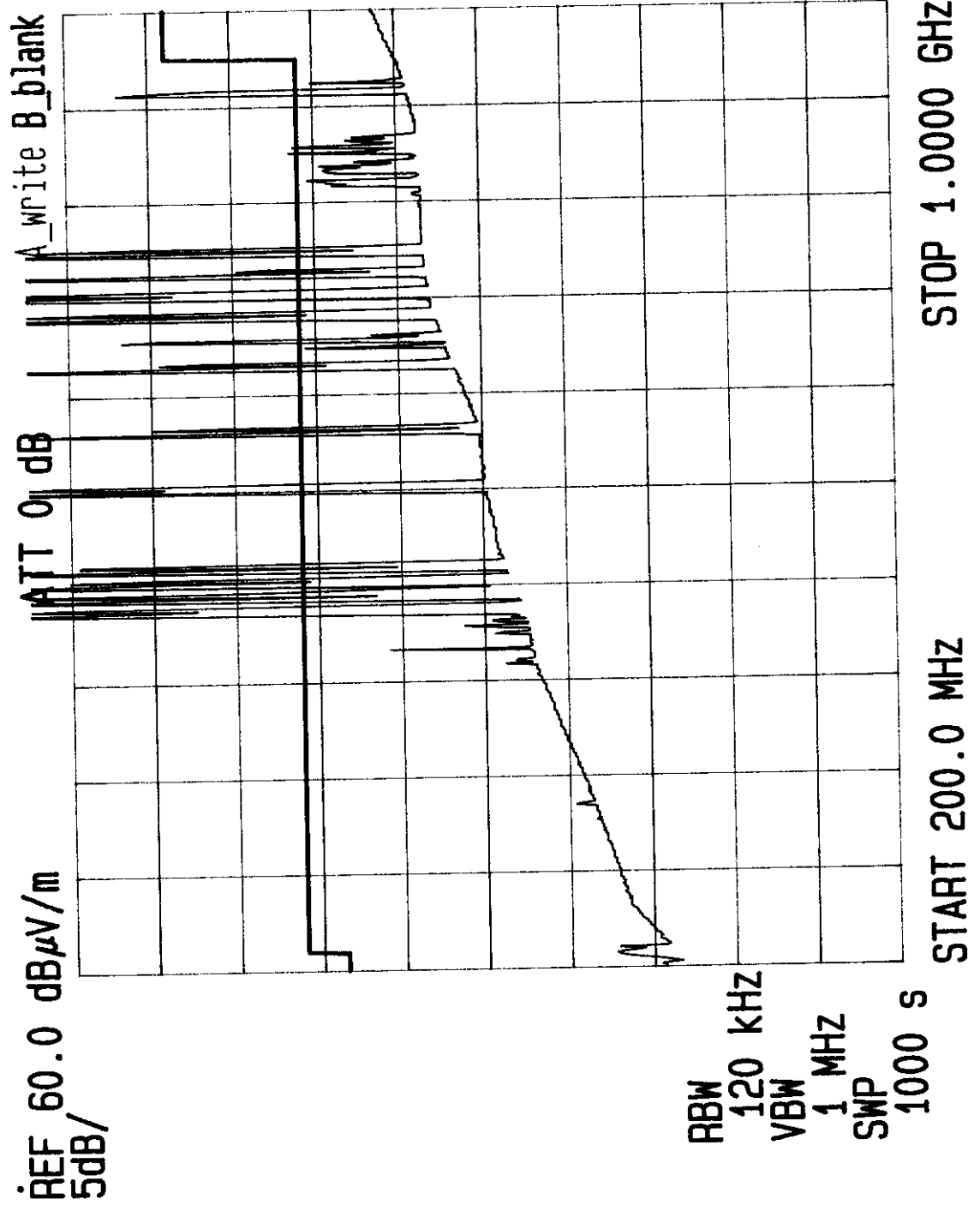


FIGURE 6.1-32



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006 V
 FREQ: 200M-1GHZ SPEC: CFR 15.429 INT. RAD. ANT. HT/POL:
 DETECTOR: Q P AMBIENT LINE UNDER TEST: N/A EUT POSITION:
 DATE: 11-13-58 TEST SITE: 3 METER TESTER:

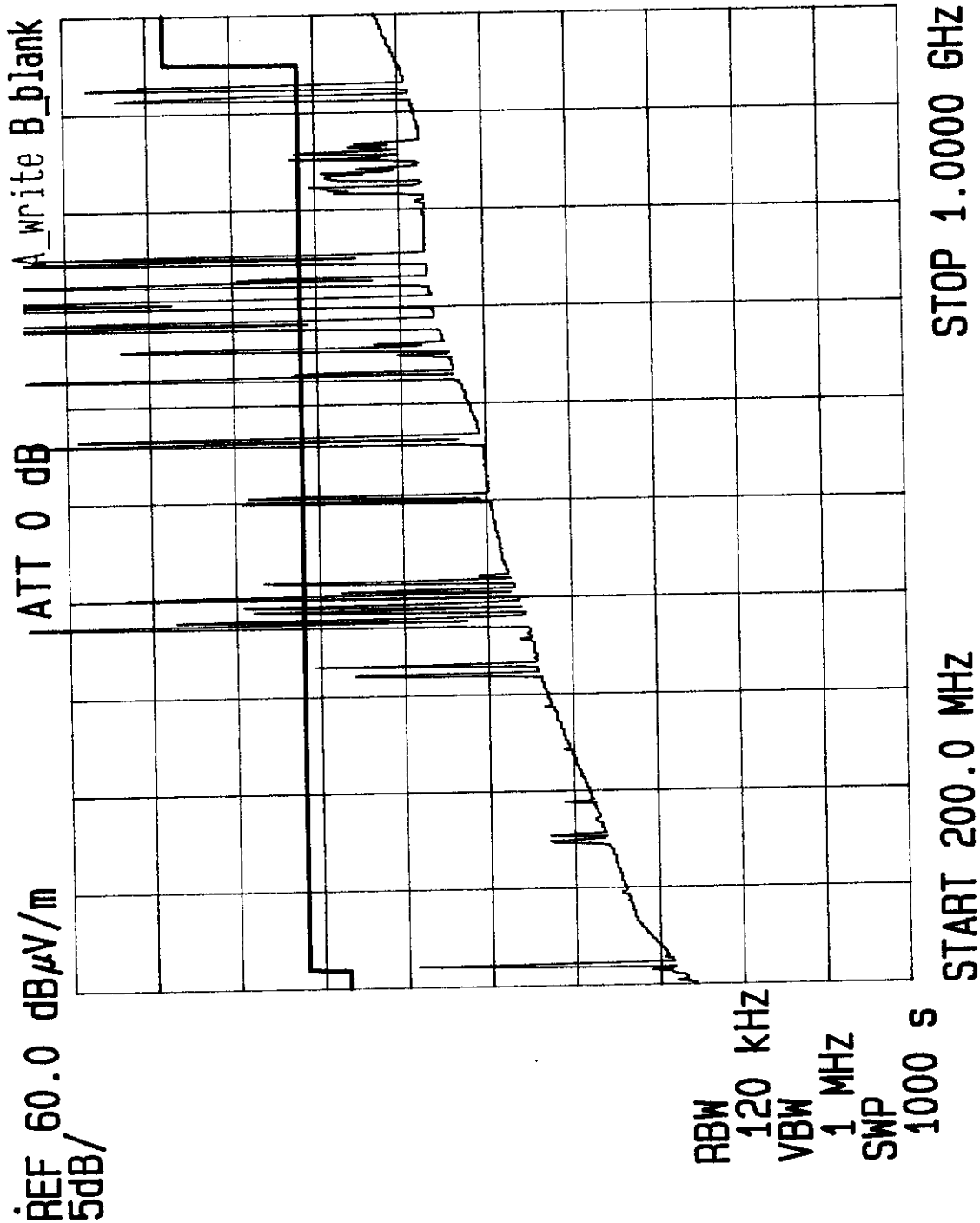
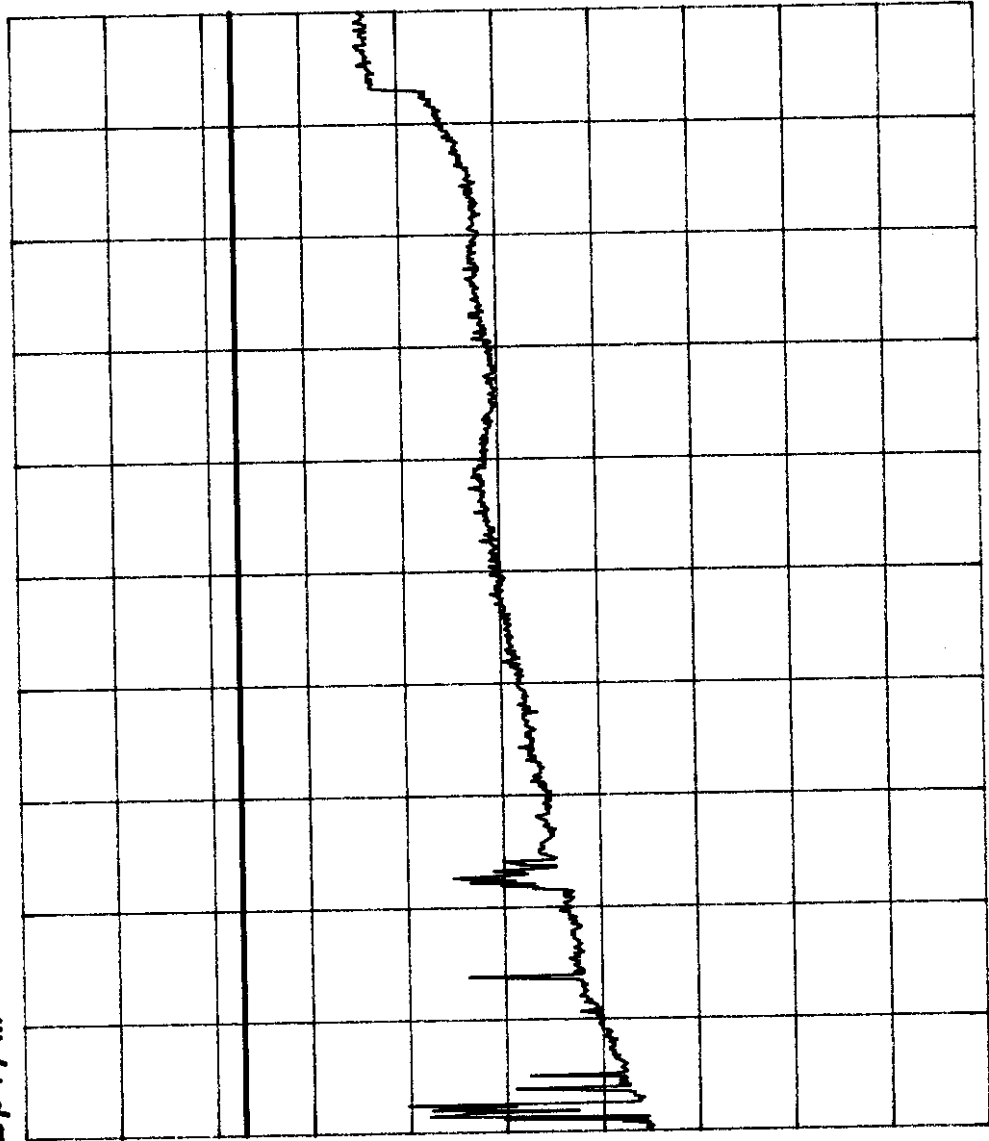


FIGURE 6.1-33



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 1G-8GHz SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HT/POL: 1.0m | H
 DETECT: PEAK AMBIENT ANTENNA: N/A EUT POSITION:
 DATE: //13-98 TEST SITE: 3 METER TESTER: AB

REF 97.0 dB μ V/m ATT 0 dB A_write B_blank
 10dB/



RBW 1 MHz
 VBW 1 MHz
 SWP 200 s

START 1.000 GHz STOP 8.000 GHz

FIGURE 6.1-34



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 1G-8GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HT/POL: 1.0m V
 DETECT: PEAK AMBIENT ANTENNA: N/A EUT POSITION:
 DATE: 11-13-98 TEST SITE: 3 METER TESTER:

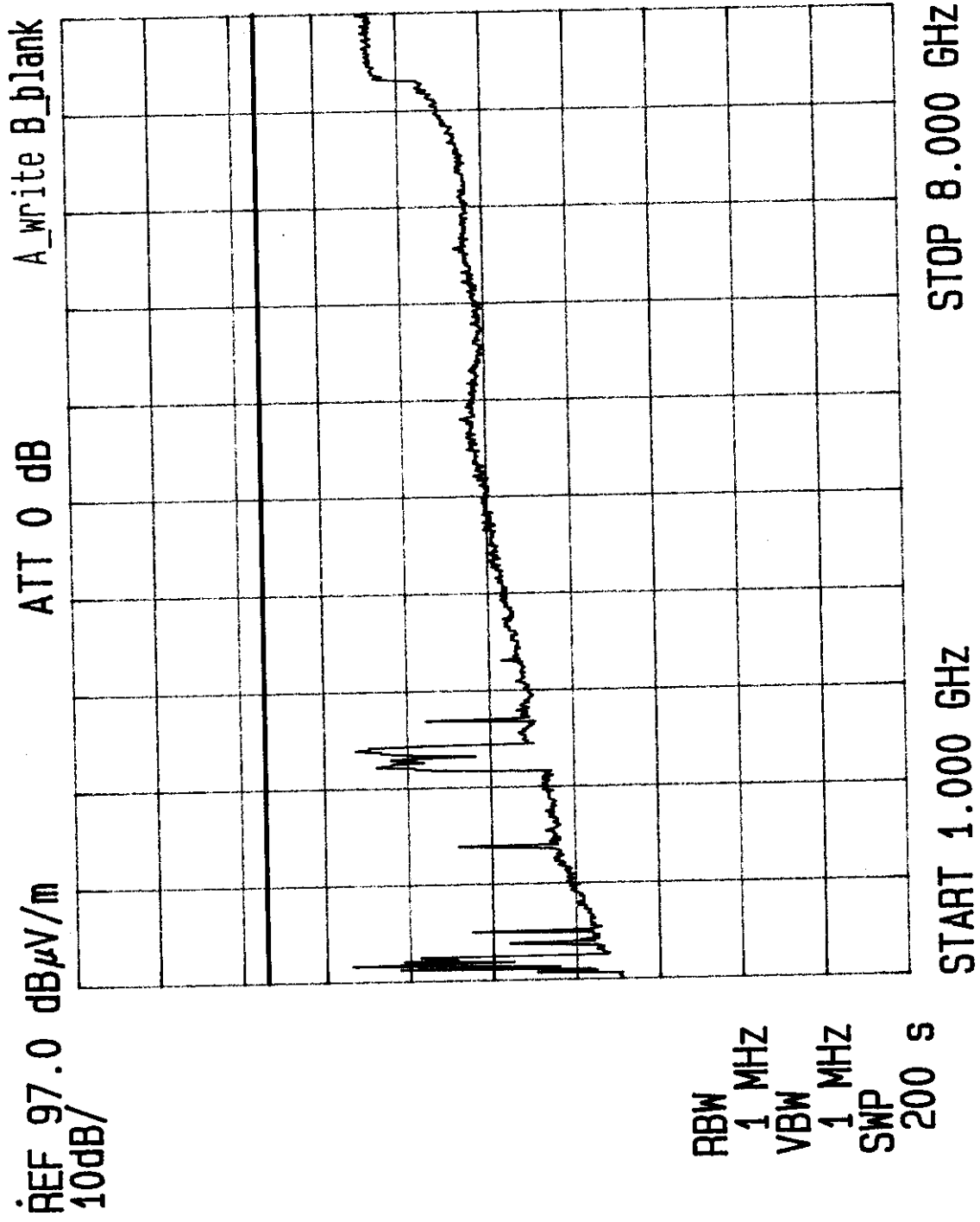


FIGURE 6.1-35



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 8G-10GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HT/POL: 1.0m \ H
 DETECT: PEAK AMBIENT ANTENNA: N/A EUT POSITION: 180°
 DATE: 11-13-98 TEST SITE: 1 METER TESTER: *[Signature]*

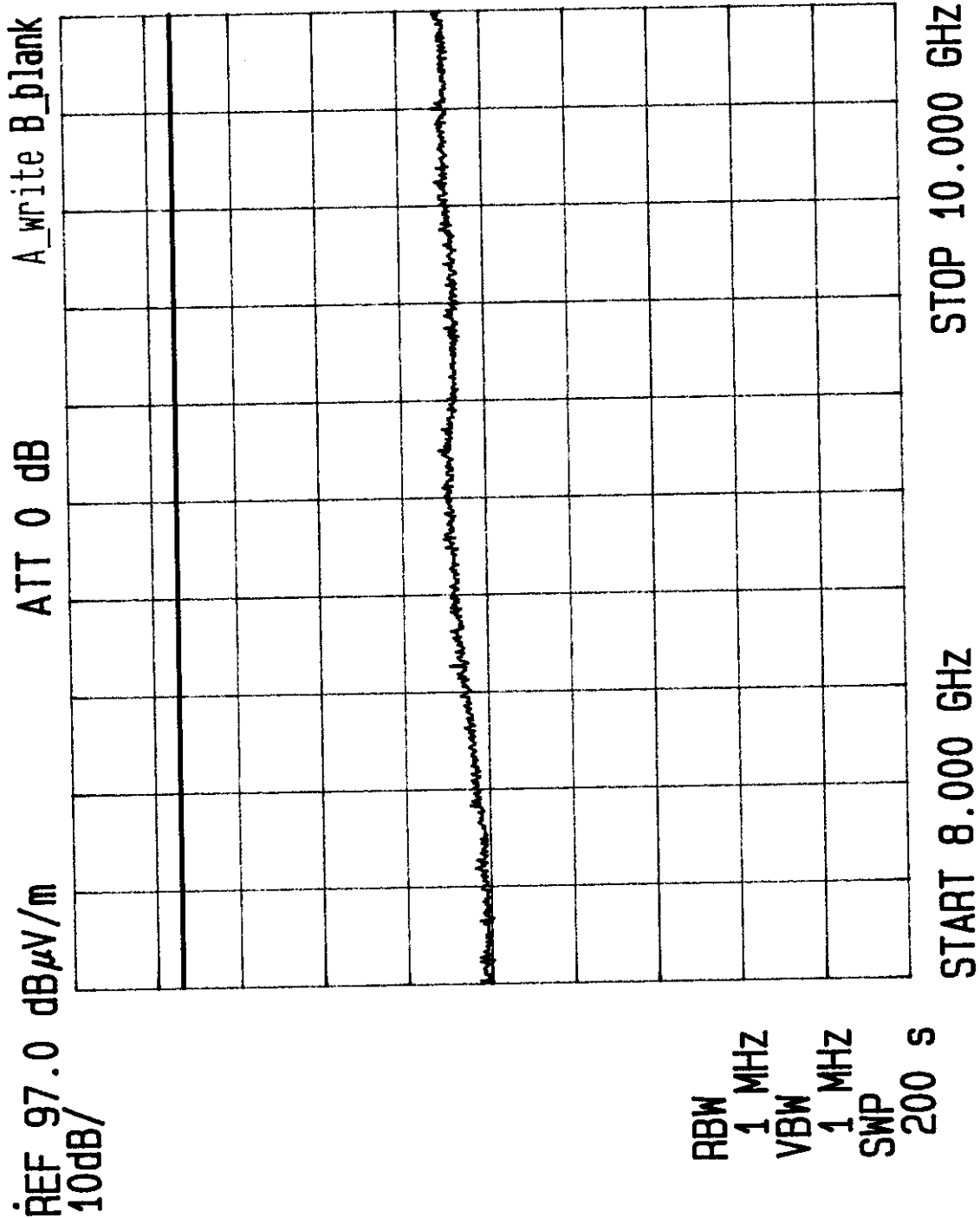


FIGURE 6.1-36



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 8G-10GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HI/POL: /Om\ V
 DETECT: PEAK AMBIENT ANTENNA: N/A EUT POSITION: -
 DATE: /1-13-98 TEST SITE: 1 METER TESTER: *AB*

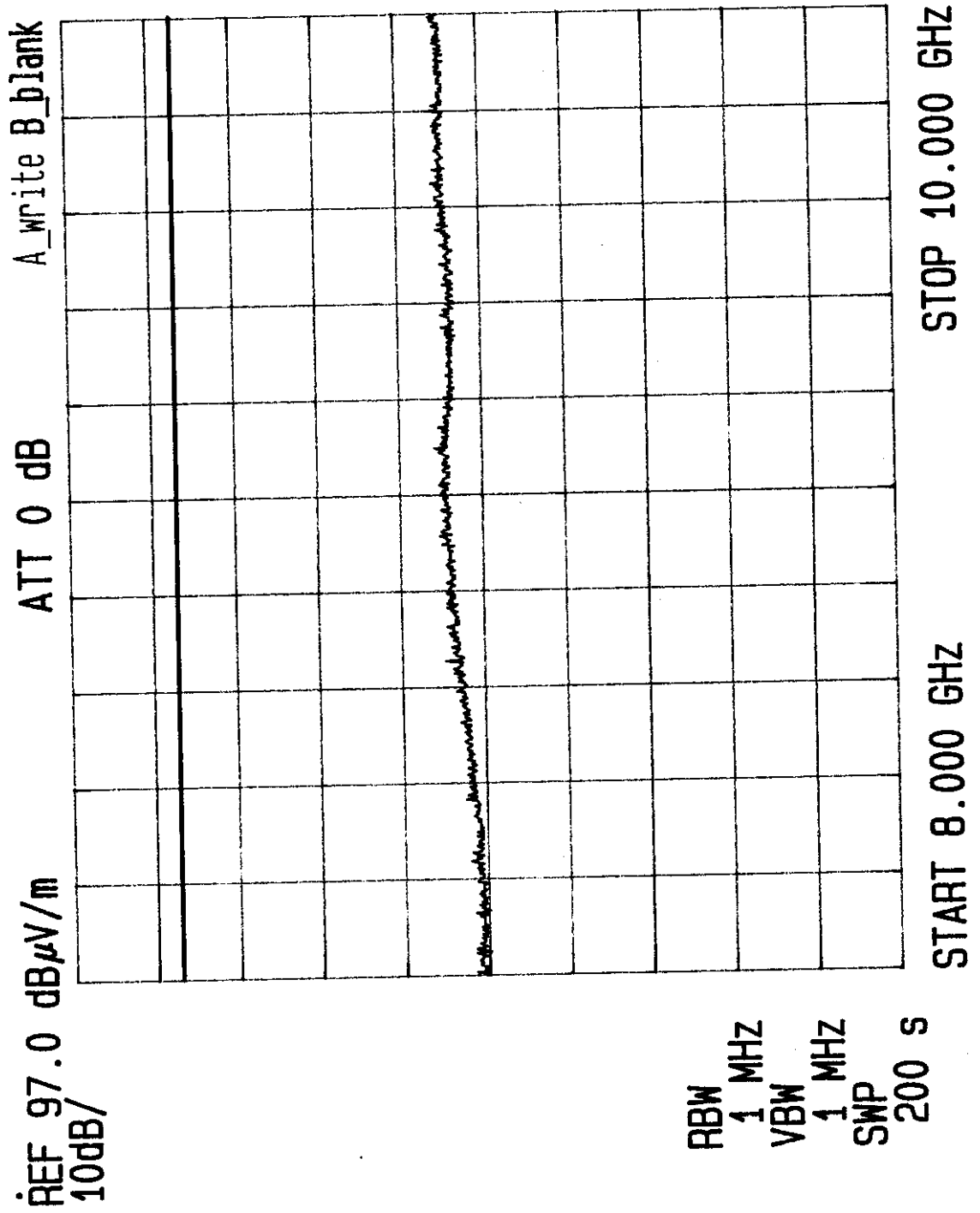


FIGURE 6.1-37



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 1G-4GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT. HT/POL: 1.0m H
 DETECT: AVG. AMBIENT ANTENNA: N/A EUT POSITION: -
 DATE: 11-13-98 TEST SITE: 3 METER TESTER: [Signature]

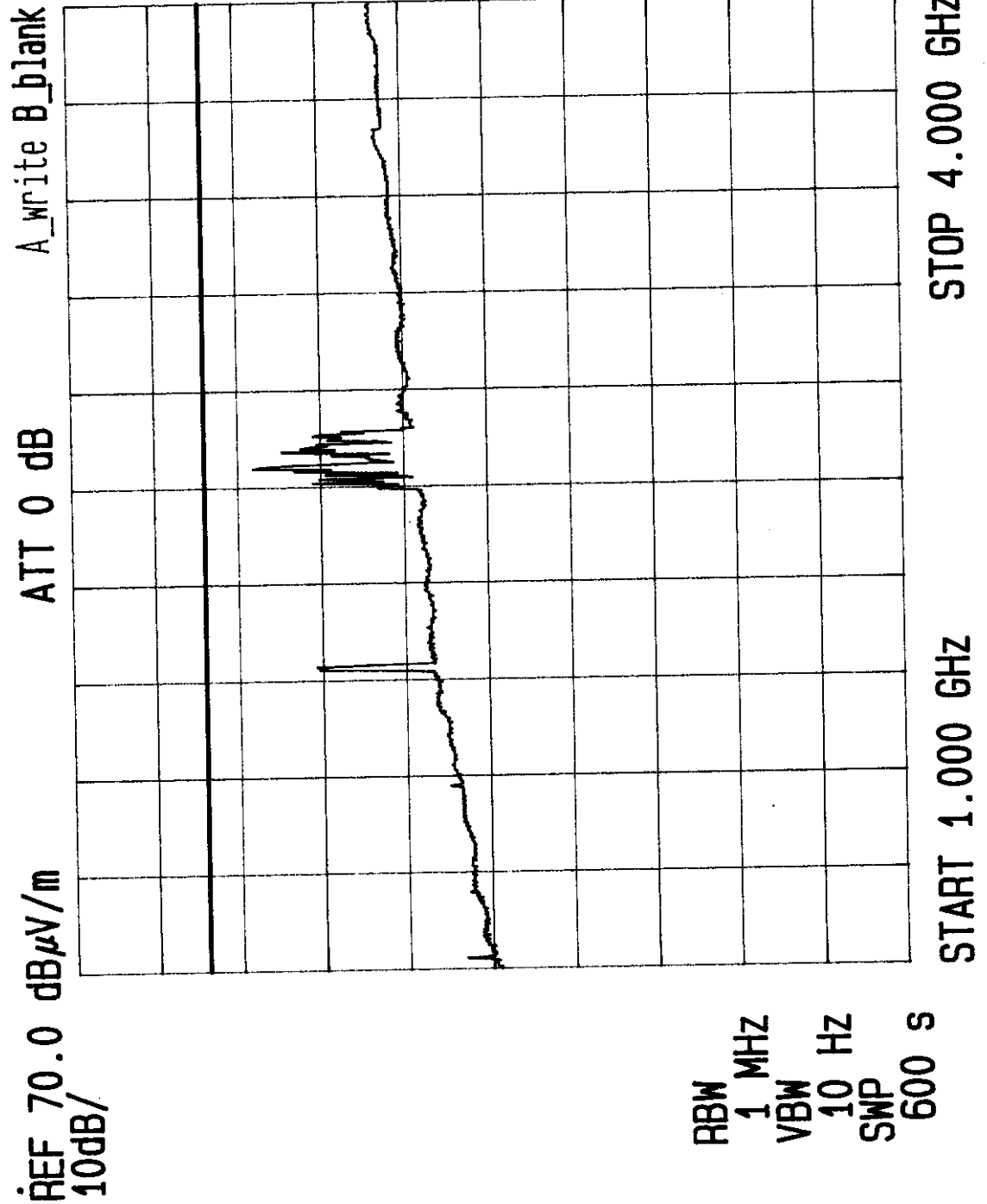


FIGURE 6.1-38



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 1G-4GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HT/POL: /Om\ V
 DETECT: AVG. AMBIENT ANTENNA: N/A EUT POSITION: -
 DATE: /1-13-98 TEST SITE: 3 METER TESTER:

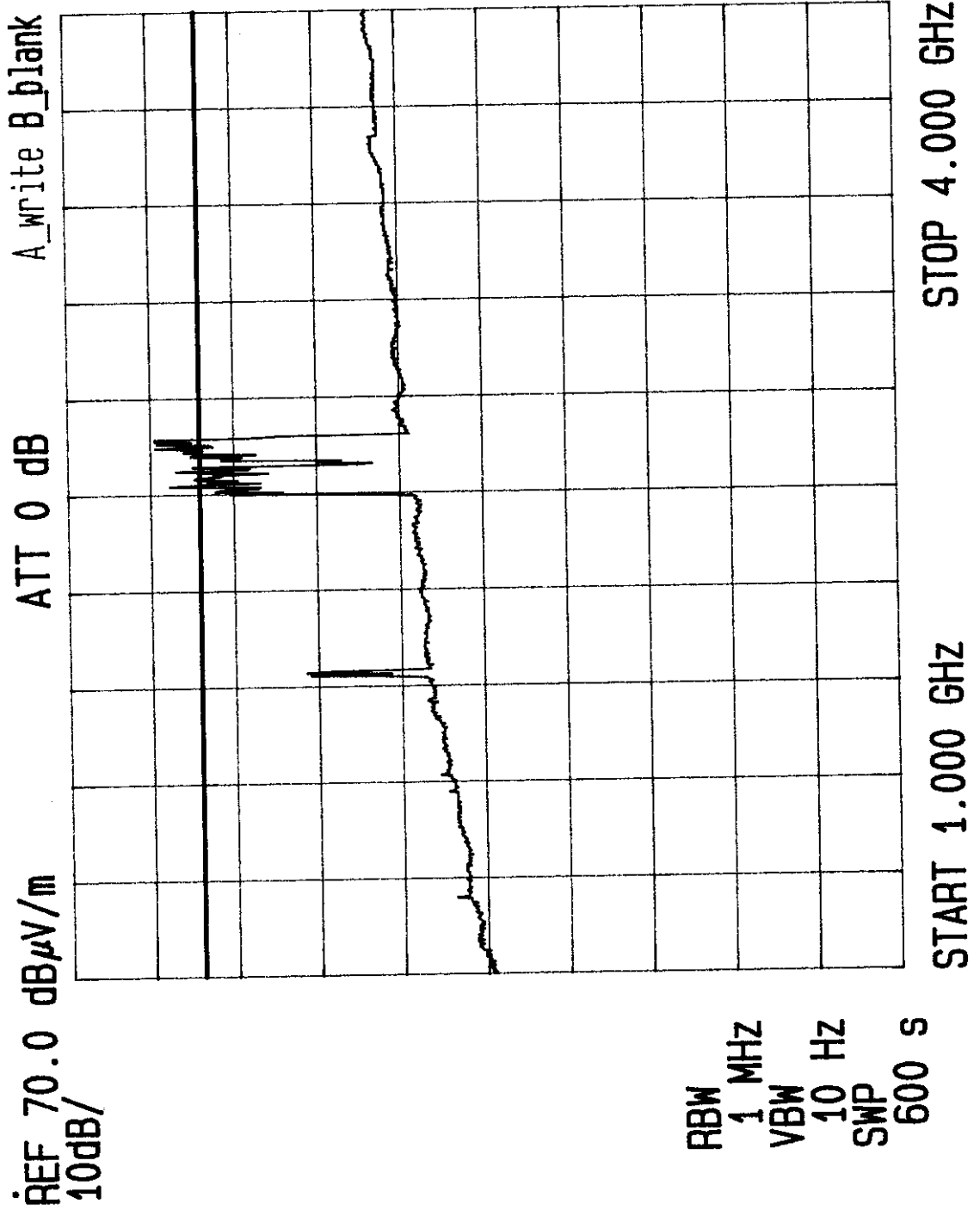


FIGURE 6.1-39



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 1G-4GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HT/POL: 1.0M\ V
 DETECT: AVERAGE ANTENNA: N/A EUT POSITION: 180°
 DATE: 11-13-20 TEST SITE: 3 METER TESTER: *[Signature]*

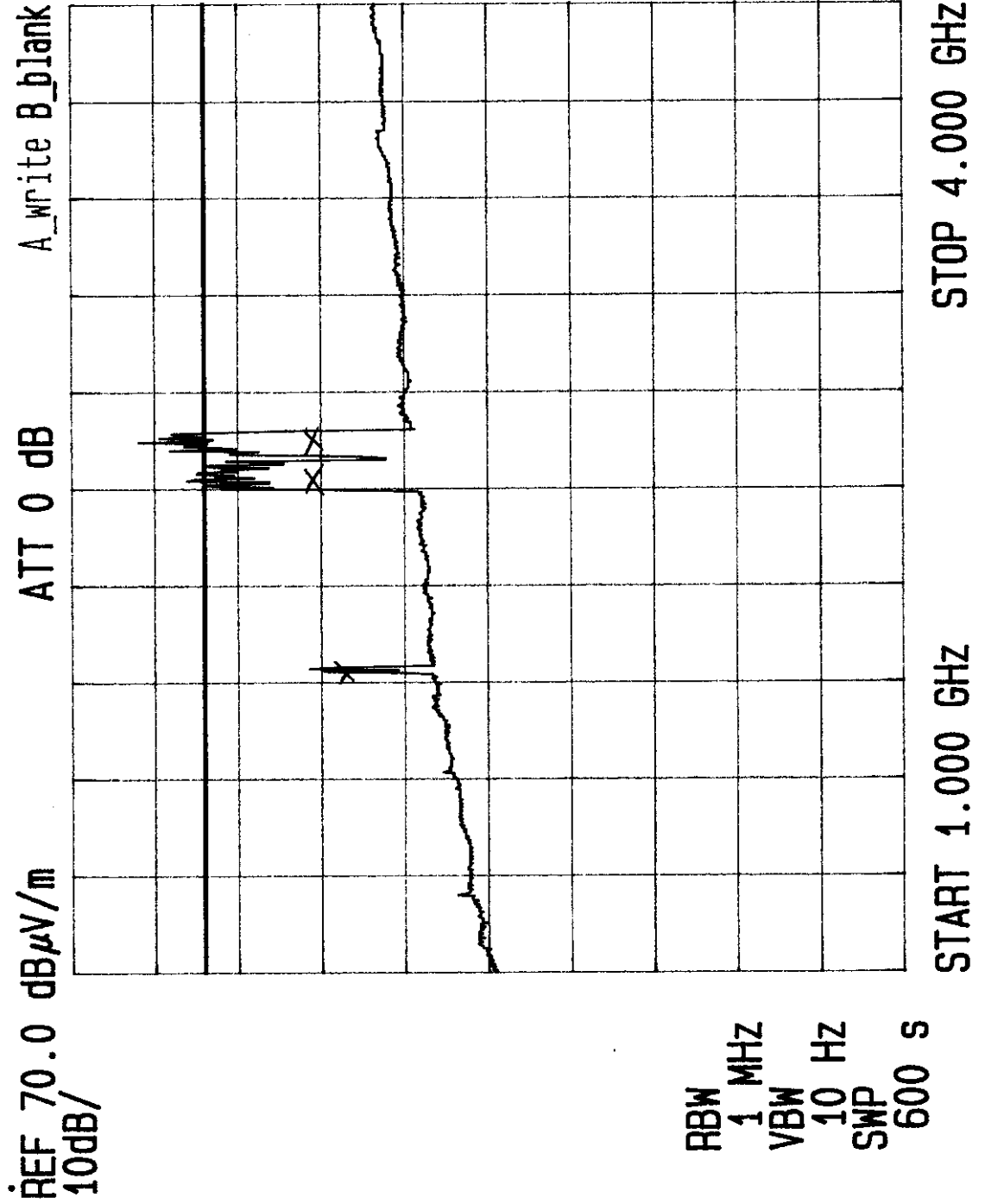


FIGURE 6.1-40



TEST: FCC RADIATED EUT: JENSEN JW 12ONTX S/N: 843A0006
 FREQ: 8G-10GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HT/POL: 1.2m \ H
 DETECT: AVG. AMBIENT ANTENNA: N/A EUT POSITION:
 DATE: 11-13-94 TEST SITE: 1 METER TESTER: *AB*

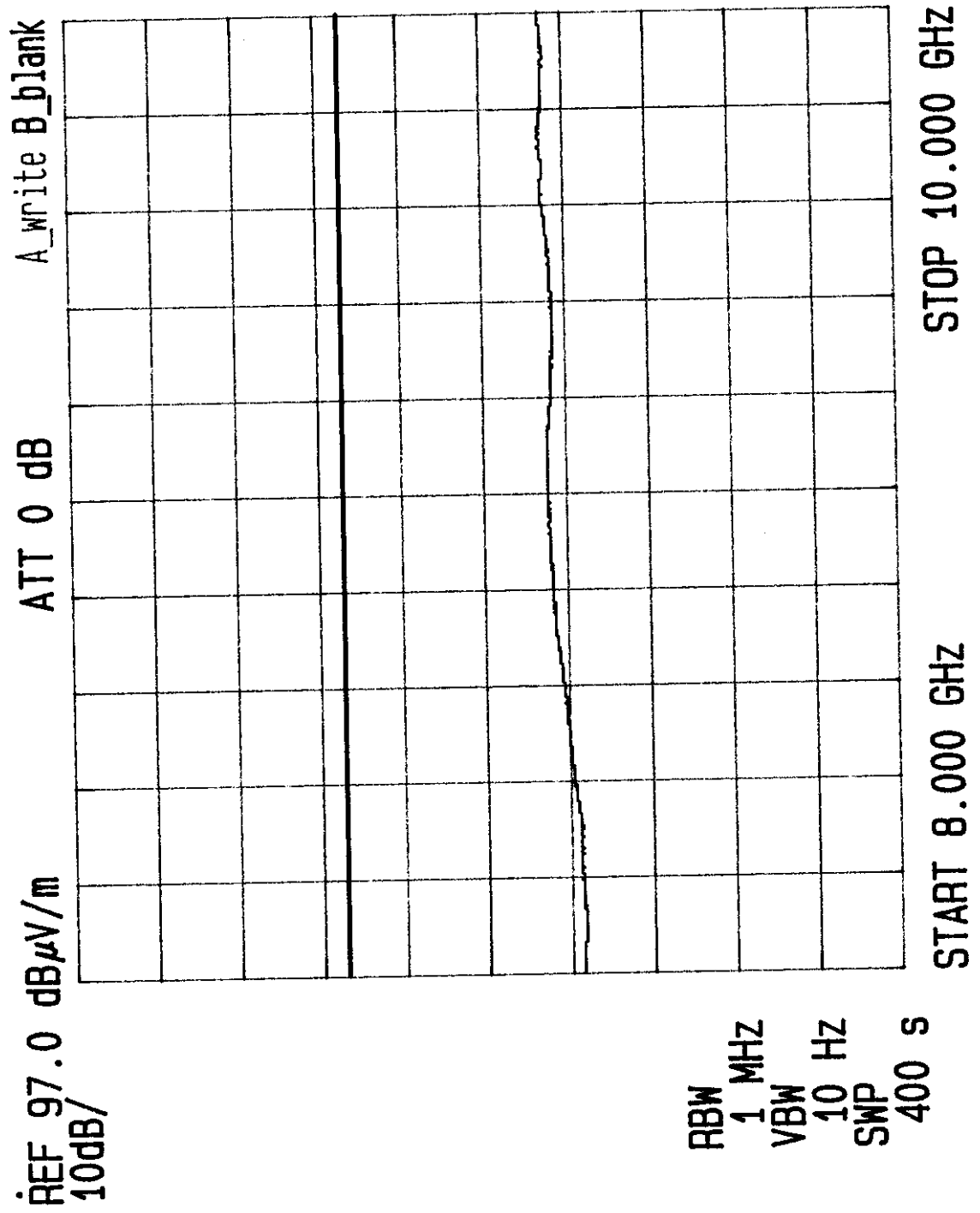


FIGURE 6.1-41



TEST: FCC RADIATED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 8G-10GHZ SPEC: PARAGRAPH 15.249 INT. RAD. ANT.HI/POL: (OM) V
 DETECT: AVG. AMBIENT ANTENNA: N/A EUT POSITION: -
 DATE: 11-13-98 TEST SITE: 1 METER TESTER: *[Signature]*

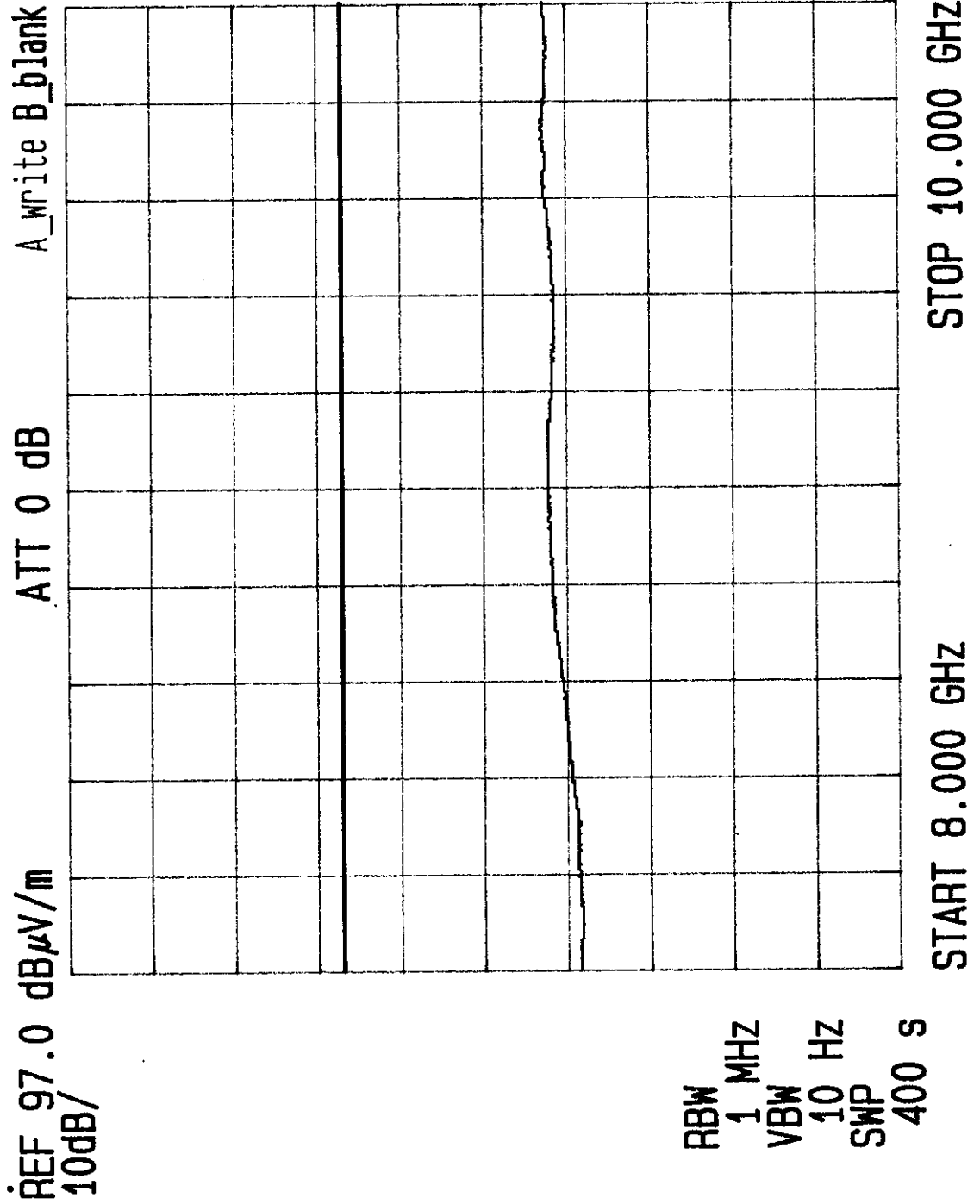


FIGURE 6.1-42



TEST: FCC CONDUCTED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 450K-30MHZ SPEC: CFR 15.429 INT. RAD. ANT.HT/POL: N/A
 DETECTOR: PEAK LINE UNDER TEST: NEUTRAL EUT POSITION: FRONT
 DATE: 11-13-98 TEST SITE: ROOM 1 TESTER: *[Signature]*

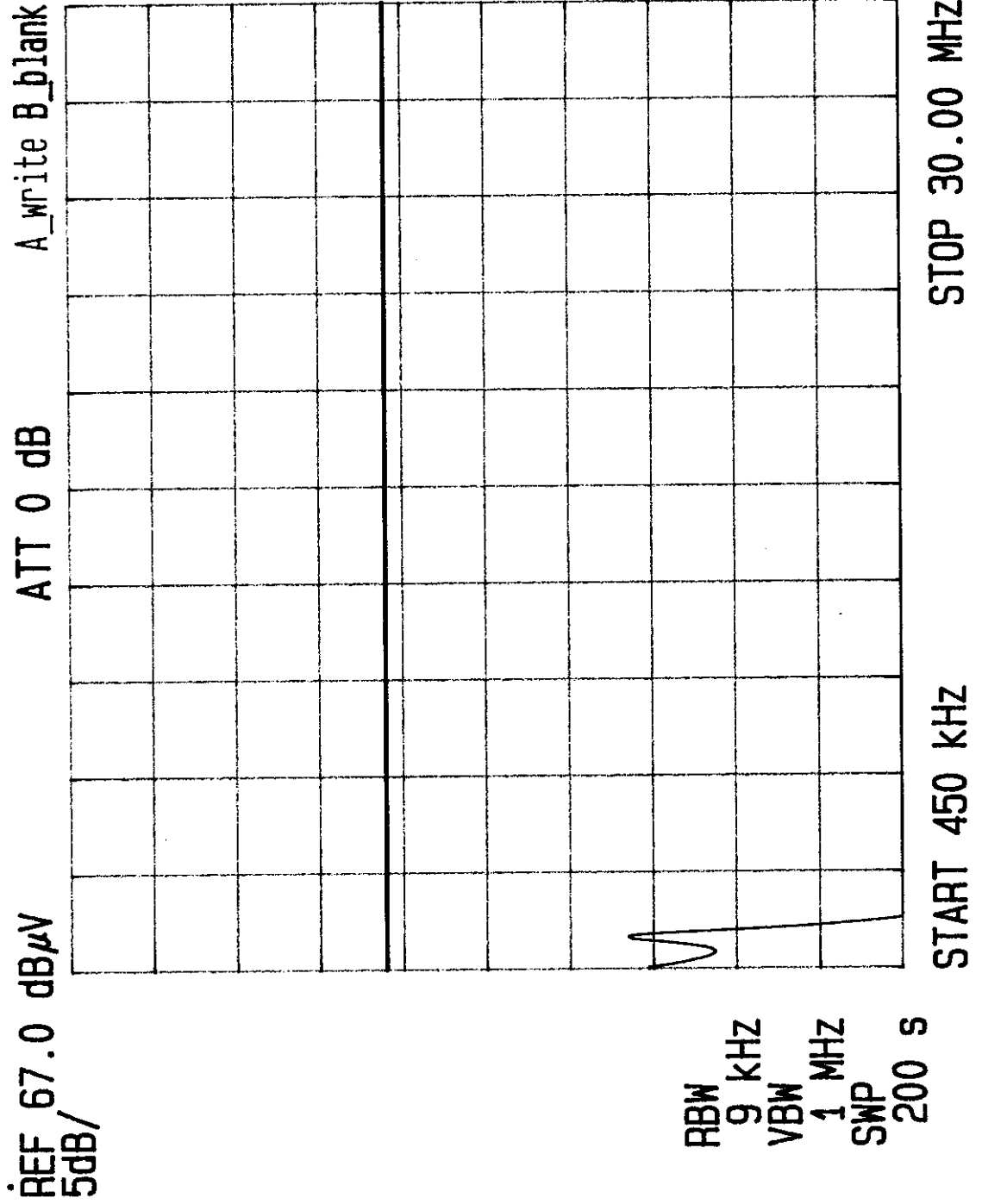


FIGURE 6.2-2



TEST: FCC CONDUCTED EUT: JENSEN JW 120NTX S/N: 843A0006
 FREQ: 450K-30MHZ SPEC: CFR 15.429 INT. RAD. ANT.HT/POL: N/A
 DETECTOR: PEAK LINE UNDER TEST: PHASE EUT POSITION: FRONT
 DATE: 11-13-98 TEST SITE: ROOM 1 TESTER: *AD*

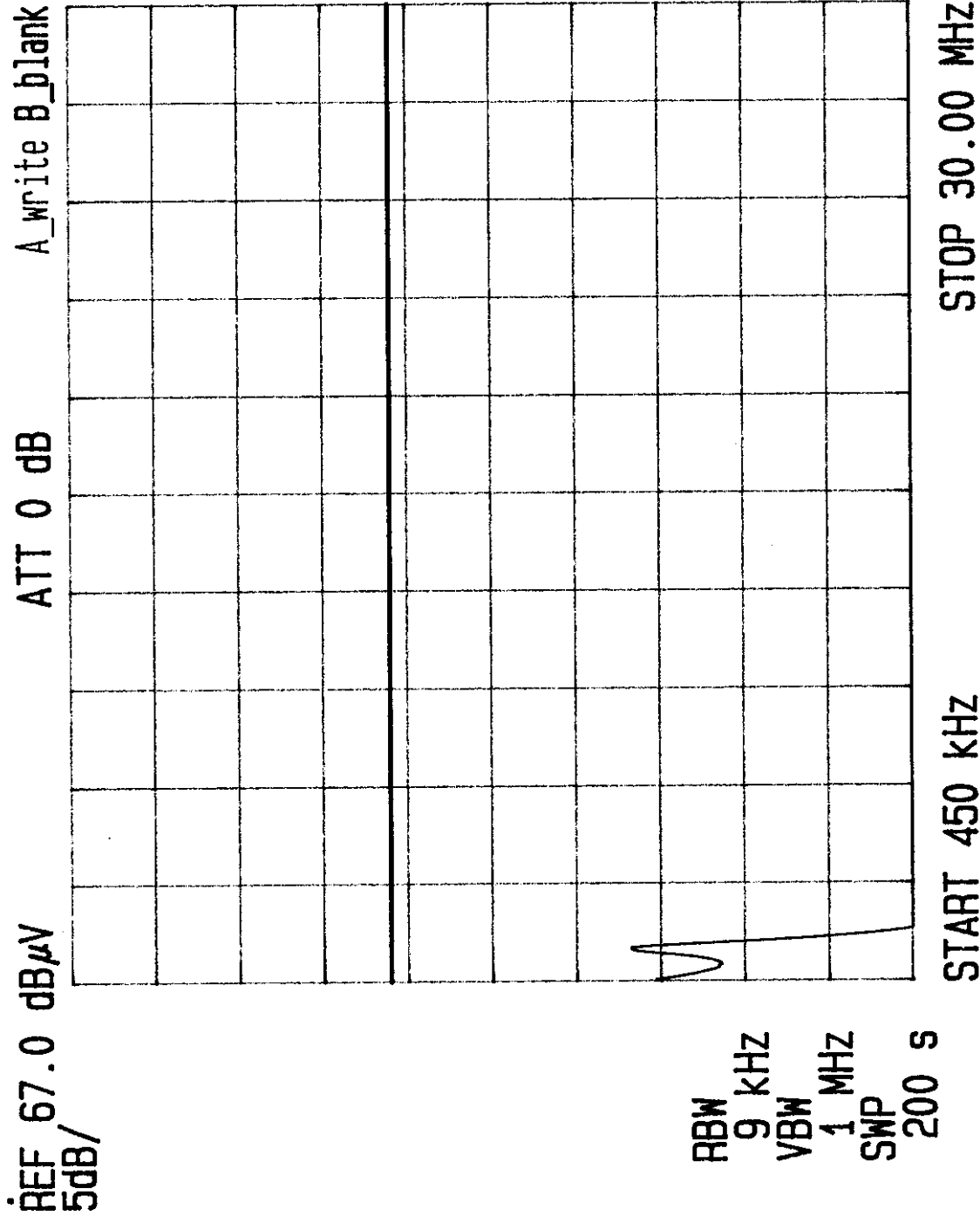


FIGURE 6.2-1

EXHIBIT 3

REPORT OF MEASUREMENTS

PARAGRAPH 2.1033(b)(6)

RUBICOM SYSTEMS, INC.

FCC INTENTIONAL RADIATOR

TEST REPORT

FOR THE

NASACO ELECTRONICS

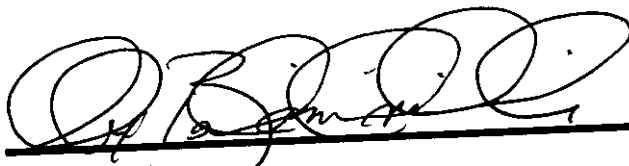
JENSEN 120NTX WIRELESS AUDIO TRANSMITTER

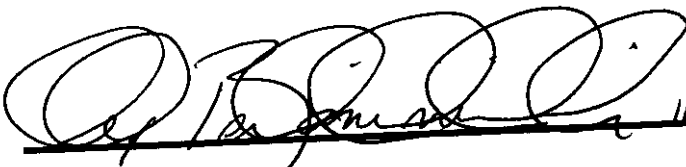


Rubicom Systems, Inc.
284 West Drive, Suite B
Melbourne, FL 32904

THIS REPORT SHALL NOT BE REPRODUCED
EXCEPT IN FULL WITHOUT THE WRITTEN
APPROVAL OF THE TESTING LABORATORY

**FCC INTENTIONAL RADIATOR
TEST REPORT
FOR THE
NASACO ELECTRONICS
JENSEN 120NTX WIRELESS AUDIO TRANSMITTER**

Prepared by:  11-18-98
Alex Belardinelli

Tested by:  11-18-98
Alex Belardinelli

Performed by:
RUBICOM SYSTEMS, INC.
284 West Drive, Suite B
Melbourne, Florida 32904

Performed for:
NASACO ELECTRONICS
11/F, unit 6, Eastern Industrial Ctr.
1065 Kings Road
Quarry Bay, Hong Kong

RECEIVED: November 9, 1998

COMPLETED: November 13, 1998

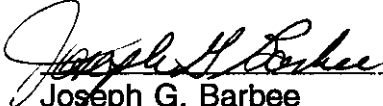
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CERTIFICATION

Rubicom Systems, Inc. (RSI) certifies the information obtained in this report was performed consistent with the requirements of ANSI C63.4-1992. The Nasaco Electronics, Jensen 120NTX Audio Transmitter complies with the requirements of CFR 47 Part 15.249 Subpart C for intentional radiators.

This data was obtained after a prescan of five Jensen 120NTX Wireless units. The Jensen 120NTX, s/n: 843A0006, was selected by Nasaco Electronics and is described in Paragraph 1.3 of this document. Any modifications to the unit as tested may invalidate the data and void this certification.

 11/18/98
Joseph G. Barbee
President

ABSTRACT

This report presents test results of the emanations found emitting from the Nasaco Electronics, Jensen 120NTX Wireless Audio Transmitter and the comparison of these emissions to the requirements of the FCC, Title 47, Part 15.249 Subpart B for intentional Transmitter.

This testing was performed on a 3-meter open area test site at Rubicom Systems, Inc. The testing was performed for Nasaso Electronics under purchase order 60739 and is filed under JA-1613 at RSI. The results of this test effort demonstrate compliance of the Jensen 120NTX Wireless Audio Transmitter to the CFR Title 47, Part 15.249 Subpart B, intentional transmitters.

The unit under test was a Jensen 120NTX Wireless Audio Transmitter, s/n: 843A0006.

1.0 INTRODUCTION

1.1 Purpose

The purpose of this report is to show compliance of the Nasaco Electronics Jensen Wireless Audio transmitter to the requirements of the FCC Rules and Regulations (CFR Title 47, Part 15.249) for intentional transmitters operating in the 902-928MHz range. The tests were performed on a three meter site.

1.2 Requirements

The test requirements are as follows:

RADIATED (15.209a) (15.205)

<u>Freq. (MHz)</u>	<u>3 Meter Field Strength μV/M</u>	<u>3 Meter dBμV/M</u>
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
960 - Above	500	54 Avg 74 Peak

CONDUCTED

<u>Freq. (MHz)</u>	<u>μVolts</u>	<u>dB$>$$\mu$V</u>
.450-30MHz	250	48

RADIATED (CFR 15.249a)

	<u>Field Strength 3 Meter</u>	<u>3 Meter dBμV/m</u>
Fundamental	50 Millivolts	94
Harmonics	500 Microvolts	54

1.3 Unit Under Test Description

The Nasaco Electronics Jensen 120NTX Wireless Transmitter is an audio transmitter operating at 915MHz. The Jensen Wireless transmits audio to wireless speakers or headphones. The unit is powered by 12VDC supplied by an HP 6291A DC power supply.

1.4 Summary of Results

Data is presented in Paragraph 6.0. The Jensen 120NTX Wireless Audio Transmitter was found to be compliant to the requirements of CFR Title 47, Part 15.249.