

EMISSION TEST REPORT

Test Report No. : **22AE0045-YW**

Applicant: Sony Corporation

Type of Equipment: MPEG Transmitter

Model No.: DLXA-002

FCC ID: AK8DLXA002

Test standard: Fcc Part15 Subpart C, Section 15.247

Test Result: Complied

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The results in this report apply only to the sample tested.

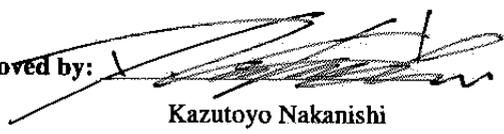
Date of test: September 28, 29 and October 12, 26,27 2001 **Issued date:** October 15, 2001

Revised date: October 29, 2001

Tested by:


Naoki Sakamoto

Approved by:


Kazutoyo Nakanishi

Site Operation Manager of EMC section

Testing Laboratory

A-pex International Co., Ltd.

108 Yokowa-cho, Ise-shi Mie-ken 516-1106 JAPAN

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Test report
FCC ID : AK8DLXA002
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Revised date : 2001-10-29

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1 GENERAL INFORMATION

APPLICANT : Sony Corporation

ADDRESS : 4-14-1, Asahi-cho, Atsugi-shi, Kanagawa-ken,
243-0014, Japan
Tel: +81-46-230-5602
Fax: +81-46-230-6354

REGULATION(S) : FCC Part15 Subpart C, Section 15.247

MODEL NUMBER : DLXA-002

SERIAL NUMBER : 1

KIND OF EQUIPMENT : MPEG Transmitter

TESTED DATE : September 28, 29 and October 12, 26, 27 2001

RECEIPT DATE OF SAMPLE : September 28, 2001

REPORT FILE NUMBER : 22AE0045-YW

TEST SITE : A-PEX Yokowa No.3 Open Test Sites

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1.1 Tested Methodology

The measurement was performed according to the procedures in FCC/ANSI C63.4(1992).

1.2 Test Facility

The open area site measurement facilities used to collect the radiated data are located at 108, Yokowa-cho, Ise-shi, Mie-ken, 516-1106 Japan.

These sites have been fully described in reports submitted to the FCC office.

No.3 test site has filed to the FCC on September 12, 2000 as number: 90412 and is accepted by Industry Canada on February 19, 1998 as number IC2973-3.

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2 PRODUCT DESCRIPTION

Sony Corporation Model DLXA-002 (referred to as the EUT in this report) is a MPEG Transmitter.
The specification is as following :

Frequency Characteristics : 2406MHz to 2474MHz
 Channel Characteristics : 35channels selectable by 2MHz step and 12MHz spacing.
 Modulation : 16QAM-OFDM
 Out Put Power : 100mW(e.i.r.p)
 Antenna type : Dipole Antenna(Antenna Gain 4.0dBi)
 Power Supply : DC11.0-18.0V(Battery)
 ITU Code : 8M00W7WWF

2.1 Test System Details

<u>Model</u>	<u>FCC ID</u>	<u>Description</u>
(1)Sony Corporation M/N: DLXA-002 S/N: 1	AK8DLXA002	MPEG Transmitter
(2) Sony Corporation M/N: BP-L60A S/N: 030672	N/A	Lithium-ion Battery Pack
(3) Sony Corporation M/N: DNW-7 S/N: 10140	N/A	Digital Camcorder DC12V (29W)
(4) Sony Corporation M/N: AC-DN2 S/N: 10088	N/A	AC Adaptor

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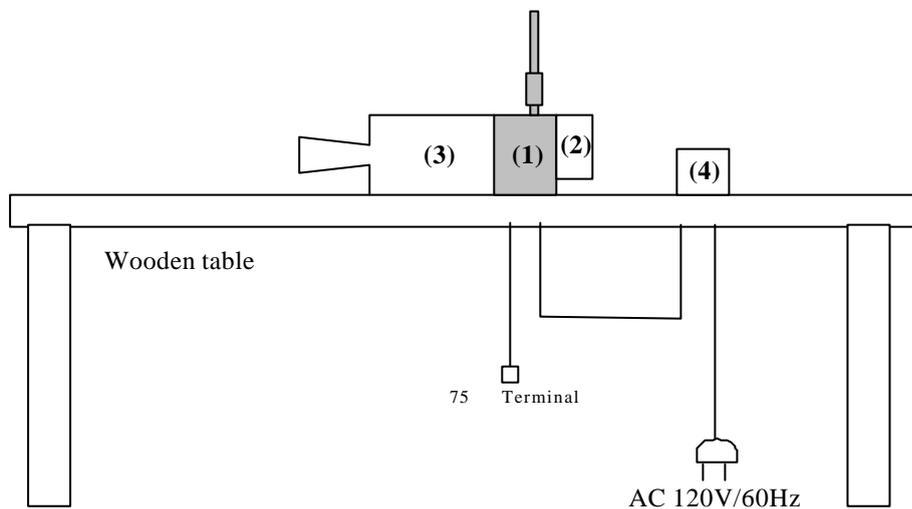
3 SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured in typical fashion (as a customer would normally use it) for testing.

Test mode : Transmitting mode(Out Put Power : High mode)
 Performed the test about channels
 Low : 2406MHz
 Mid : 2442MHz
 High : 2474MHz

3.2 Configuration of Tested System



* Cabling was taken into consideration and test data was taken under worst case conditions.

List of cables used

No.	Name	Length (m)	Shield	Backshell Material	Remark
	AC Power Cable	2.2	N	Polyvinyl chloride	-
	DC Power Cable	2.0	Y	Polyvinyl chloride	-
	Coaxial Cable	6.0	Y	Metal	-

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4 Measurement Uncertainty

Conducted Emission Test

The measurement uncertainty (with a 95% confidence level) for this test was ± 2.0 dB.

The data listed in this test report may exceed the test limit because it does not have enough margin (more than 2.0dB).

The data listed in this test report has enough margin, more than 2.0dB.

Radiated Emission Test

Measurement distance of 3m:

The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is ± 4.4 dB.

The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is ± 4.8 dB.

Measurement distance of 10m:

The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is ± 4.4 dB.

The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is ± 3.2 dB.

The data listed in this test report may exceed the test limit because it does not have enough margin.

The data listed in this test report has enough margin, more than site margin.

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5 TEST EQUIPMENT USED

Name	Manufacturer	Model	Control No.	Calibrated Until
Pre Amplifier	Hewlett Packard	8447D	AF-01	March 30, 2002
Pre Amplifier	Hewlett Packard	8449B	AF-04	November 4, 2001
Attenetor	Anritsu	MP721B	AT-06	March 30, 2002
Attenetor	Weinschel Corp	BF6900	AT-14	May 1, 2002
Biconical Antenna	Schwarzbeck	BBA9106	BA-03	April 30, 2002
Logperiodic Antenna	Schwarzbeck	UHALP9108-A	LA-06	April 30, 2002
LISN (EUT)	Rohde & Schwarz	ESH3-Z5	LS-04	October 30, 2001
Horn Antenna	AH System, Inc	SAS-200/571	HA-01	May 19, 2002
Horn Antenna	Schwarzbeck	BBHA9170	HA-03	November 22, 2001
Spectrum Analyzer	Hewlett packard	8567A	SA-04	March 30, 2002
Spectrum Analyzer	Advantest	R3271	SA-05	January 31, 2002
Test Receiver	Rohde & Schwarz	ESHS-10	TR-05	August 23, 2002
Test Receiver	Rohde & Schwarz	ESVS-10	TR-06	August 23, 2002
Power Sensor	Agilent	E9300A	PS-03	September 1, 2002
Power Metor	Agilent	E4418B	PM-03	September 1, 2002
High Pass Filter	TOKIMEC	HPF-2.4	HF-04	October 14, 2002
Spectrum Analyzer/ Test Receiver	Rhode&Schwarz	ESI40	KTR-01	July 31, 2002

All measurement equipment is traceable to national standards.

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6 SUMMARY OF TESTS

6.1 §15.207 Conducted Emissions

Test Procedure

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane. The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flush with rear of tabletop. All other surfaces of tabletop was at least 80cm from any other grounded conducting surface. I/O cables and AC cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged at a 40cm height to the ground plane. Each EUT current-carrying power lead, except the ground (safety) lead, were individually connected through a LISN to the input power source. All unused 50 connectors of the LISN were resistively terminated in 50 when not connected to the measuring equipment.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT on a shielded room.

The EUT was connected to a Line Impedance Stabilization Network (LISN).

An overview sweep with peak detection has been performed.

The measurements have been performed with a CISPR quasi-peak detector (IF BW 10kHz).

(Measurement range : 450kHz to 30MHz)

Test data : APPENDIX A1 to A4
Photographs of test setup : Page 13
Test result : Pass
Test instruments : LS-04, SA-04, TR-06

6.2 § 15.247(a)(2) 6dB Bandwidth

Test Procedure

The minimum 6dB bandwidth was measured with a spectrum analyzer connected to the antenna port.

2412MHz(Ch 1) : 8.3714MHz > 500kHz
2437MHz(Ch 6) : 8.0000MHz > 500kHz
2462MHz(Ch11) : 8.6857MHz > 500kHz

Test data : APPENDIX A5 to A7
Test result : Pass
Test instruments : SA-05, AT-14

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6.3 § 15.247(b) Maximum Peak Out Put Power

Radiated : Test Procedure

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane. I/O cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged 40cm height to the ground plane. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

The Radiated Electric Field Strength intensity has been measured on an open test site with a ground plane and at a distance of 3m.

The measuring antenna height was varied between 1 to 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization.

Test data : APPENDIX A8 to A14
Photographs of test setup : Page14
Test result : Pass
Test instruments : SA-05, HA-01, AF-04, AT-14

Conducted:Test Procedure

The Maximum Peak Output power was measured with a power meter connected to the antenna port.

* Antenna Gain dose not exceed 6dBi.

Test data : APPENDIX A15
Test result : Pass
Test instruments : PS-03, PM-03, SA-05, AT-14

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6.4 § 15.247(c) Out of Band Emissions(Radiated)

Test Procedure

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane. I/O cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged 40cm height to the ground plane. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

The Radiated Electric Field Strength intensity has been measured on an open test site with a ground plane and at a distance of 3m.

The measuring antenna height was varied between 1 to 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization.

Radiated Spurious emissions

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on a radiated measurement. The result was also satisfied the general limits specified in Sec.15.209(a).

Measurement range : 30MHz to 1000MHz CISPR QP Detector, IF BW 120kHz
: 1GHz to 26GHz PK and AV Detector

Test data : APPENDIX A16 to A18(30-1000MHz)
: APPENDIX A19 to A24(1 - 26GHz)
: APPENDIX A25 to A33(Restricted Band Edges:2390MHz/2483.5MHz)

Photographs of test setup : Page14

Test result : Pass

Test instruments : AF-01, AF-04, BA-03, LA-06, HA-01, HA-03, SA-04, SA-05, TR-06
AT-06, AT-14, KTR-01, HF-04

6.5§ 15.247(c) Out of Band Emissions(Conducted)

Test Procedure

The Out of Band Emissions was measured with a spectrum analyzer connected to the antenna port.

At 100kHz(RBW and VBW 100kHz), spurious emission in the frequency range 30MHz-26GHz which was out of 2400-2483.5MHz was lower 20 dB than radio frequency power.

Test data : APPENDIX A34 to A45
Test result : Pass
Test instruments : SA-05, AT-14

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6.6 § 15.247(d) Power Density(Conducted)

Test Procedure

The Power Density was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX A46 to A49
Test result : Pass
Test instruments : SA-05, AT-14

Testing Laboratory

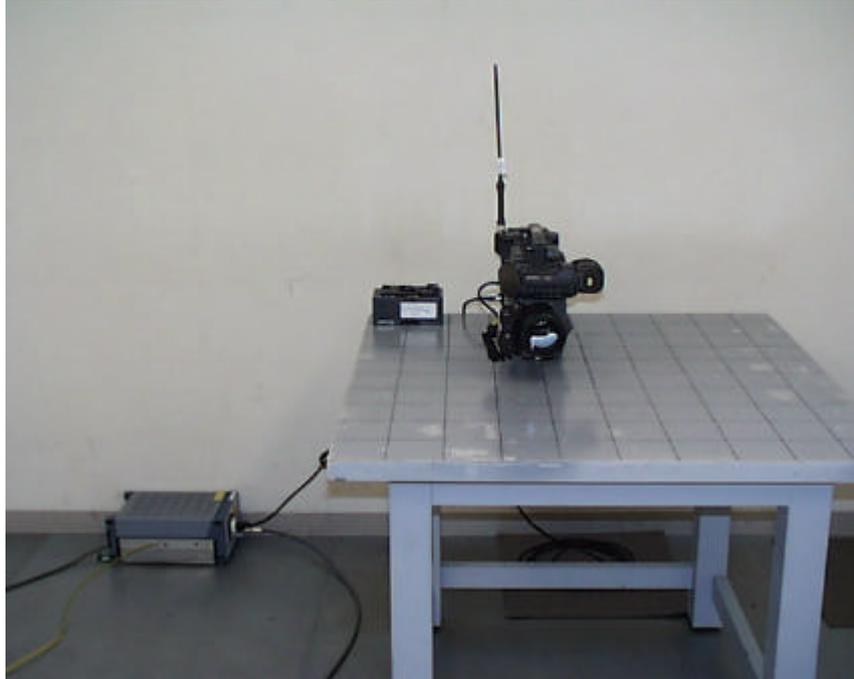
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Photographs of test setup(1)



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Test report
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Photographs of test setup(2)



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APPENDIX

Test Data

6.1 : Conducted Emission	<u>A1 to A4</u>
6.2 : 6dB Bandwidth	<u>A5 to A7</u>
6.3 : Maximum peak output power	<u>A8 to A15</u>
6.4 : Out of band emissions(Radiated)	<u>A16 to A33</u>
6.5 : Out of band emissions(Conducted)	<u>A34 to A45</u>
6.6 : Power density	<u>A46 to A49</u>

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DATA OF CONDUCTION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22AE0045-YW

Applicant : Sony Corporation
 Kind of Equipment : MPEG Transmitter
 Model No. : DLXA-002
 Serial No. :
 Power : AC120V/60Hz
 Mode : Transmitting (2442MHz)
 Remarks : FCC ID : AK8DLXA002
 Date : 10/12/2001
 Phase : Single Phase
 Temperature : 23 °C
 Humidity : 50 %
 Regulation : FCC Part15.207



 Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dBuV]	AV	QP [dBuV]	AV				QP [dBuV]	AV	QP [dBuV]	AV	QP [dB]	AV
1.	0.5888	46.7	-	47.2	-	0.1	0.1	0.0	47.4	-	48.0	-	0.6	-
2.	0.7567	46.6	-	47.4	-	0.2	0.1	0.0	47.7	-	48.0	-	0.3	-
3.	0.9242	45.4	-	47.5	-	0.2	0.1	0.0	47.8	-	48.0	-	0.2	-
4.	1.0115	43.1	-	46.6	-	0.2	0.1	0.0	46.9	-	48.0	-	1.1	-
5.	3.1832	40.7	-	39.7	-	0.2	0.2	0.0	41.1	-	48.0	-	6.9	-
6.	16.0687	53.6	40.4	52.1	39.5	0.9	0.4	0.0	41.9	-	48.0	-	6.1	-
7.	27.4927	36.3	-	40.0	-	1.4	0.5	0.0	41.9	-	48.0	-	6.1	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

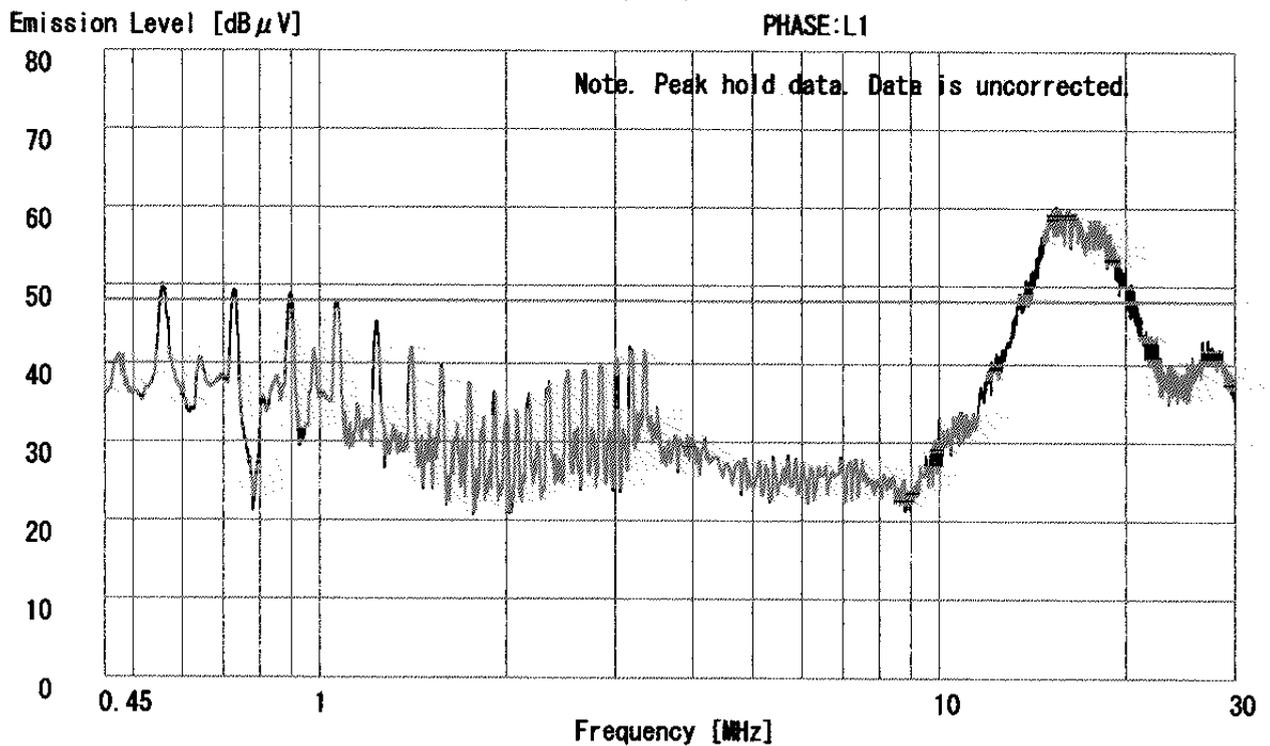
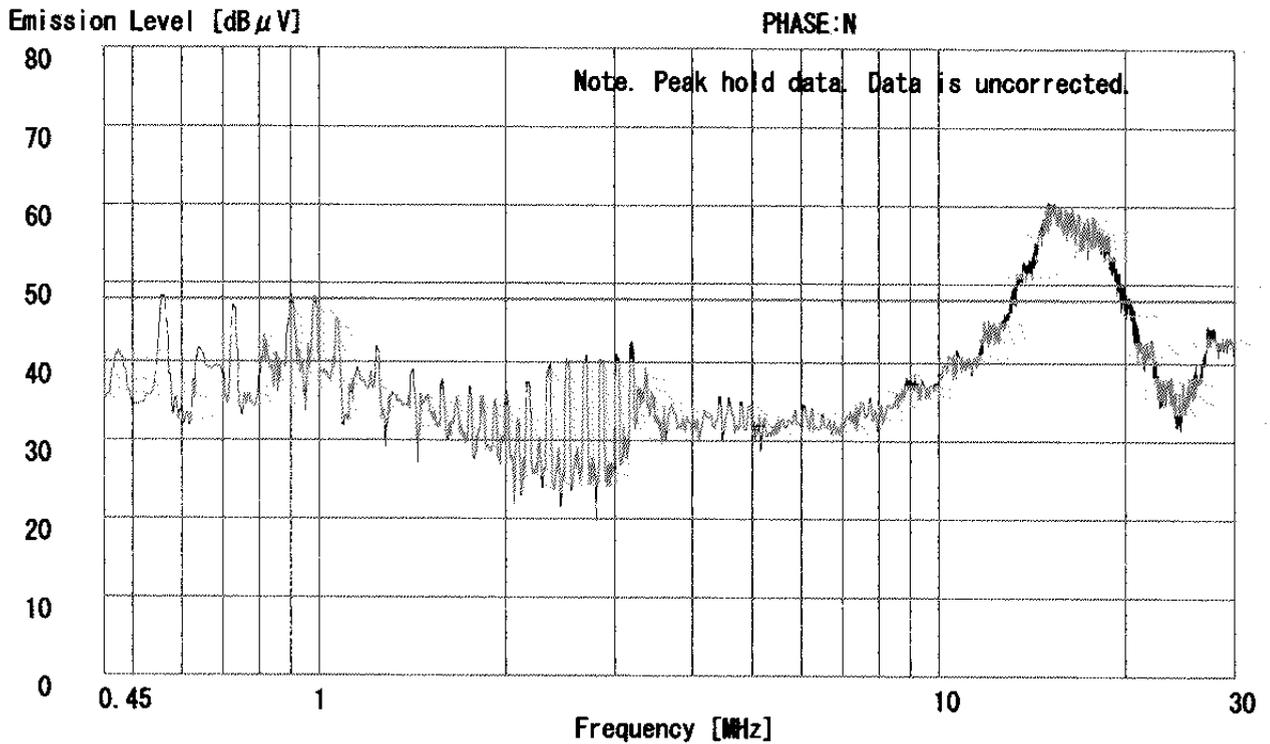
All other spurious emissions are more than 20dB below the limits.

DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22AE0045-YW

Applicant : Sony Corporation
Kind of Equipment : MPEG Transmitter
Model No. : DLXA-002
Serial No. :
Power : AC120V/60Hz
Mode : Transmitting (2406MHz)
Remarks : FCC ID : AK8DLXA002
Date : 10/12/2001
Phase : Single Phase
Temperature : 23 °C
Humidity : 50 %
Regulation 1 : FCC Part15.207
Regulation 2 : None

Engineer : Naoki Sakamoto

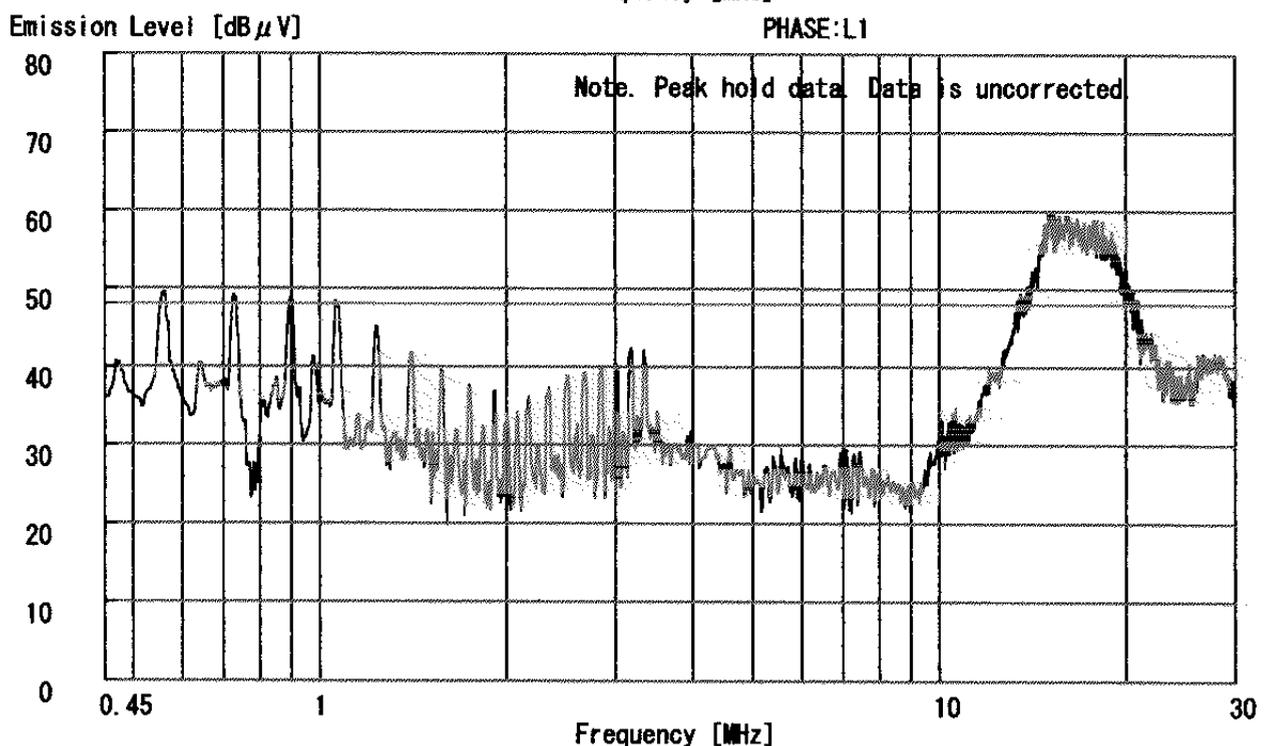
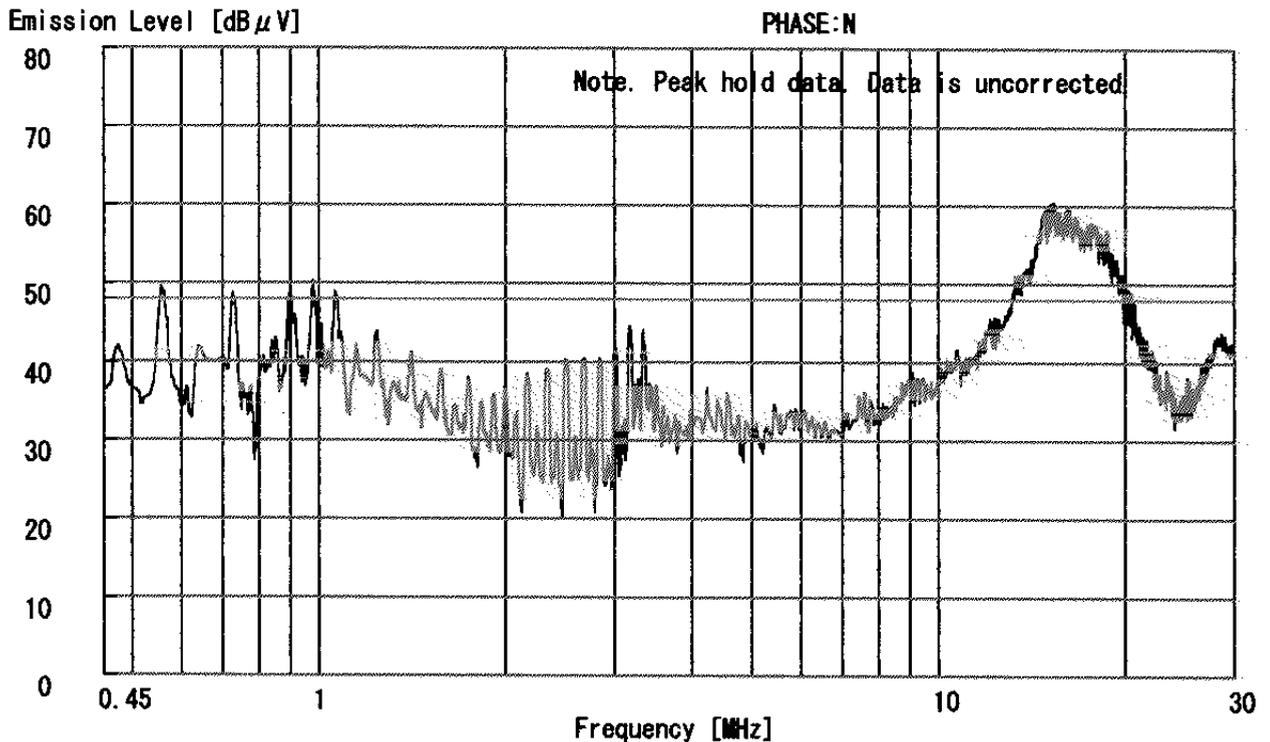


DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22AE0045-YW

Applicant : Sony Corporation
Kind of Equipment : MPEG Transmitter
Model No. : DLXA-002
Serial No. :
Power : AC120V/60Hz
Mode : Transmitting (2442MHz)
Remarks : FCC ID : AK8DLXA002
Date : 10/12/2001
Phase : Single Phase
Temperature : 23 °C
Humidity : 50 %
Regulation 1 : FCC Part15. 207
Regulation 2 : None

Engineer : Naoki Sakamoto

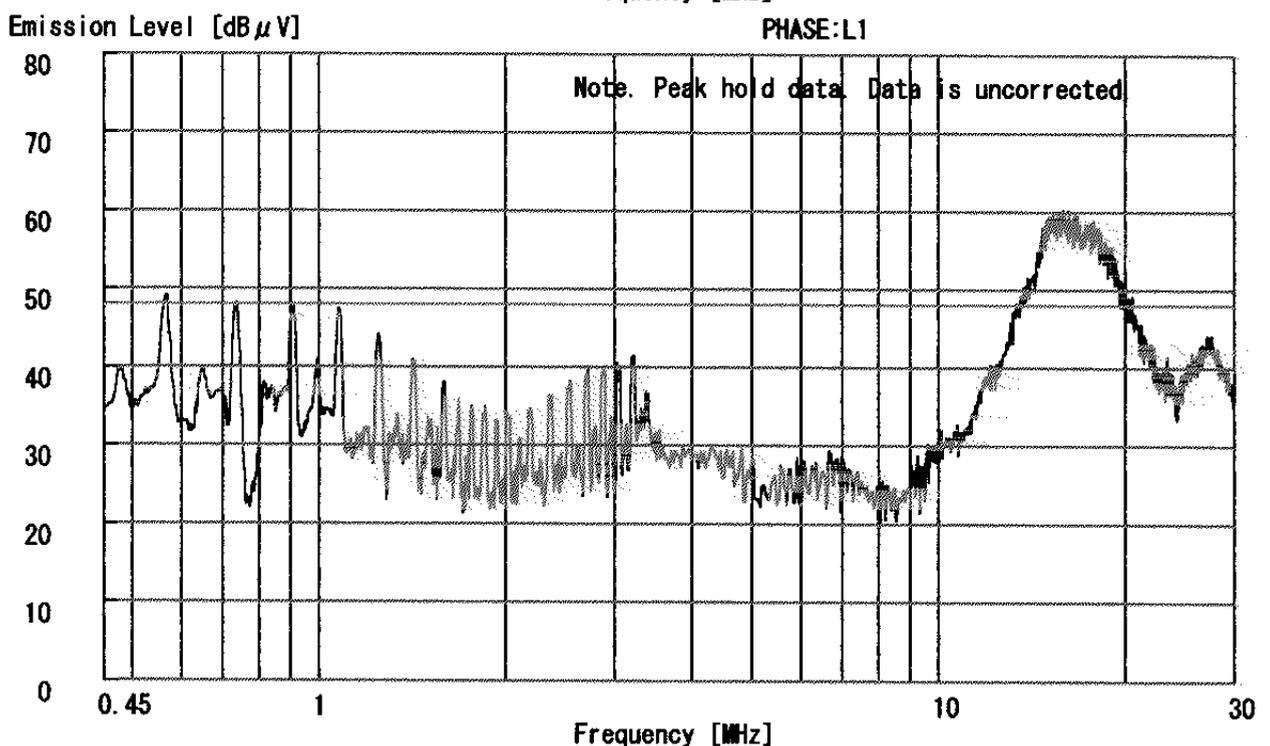
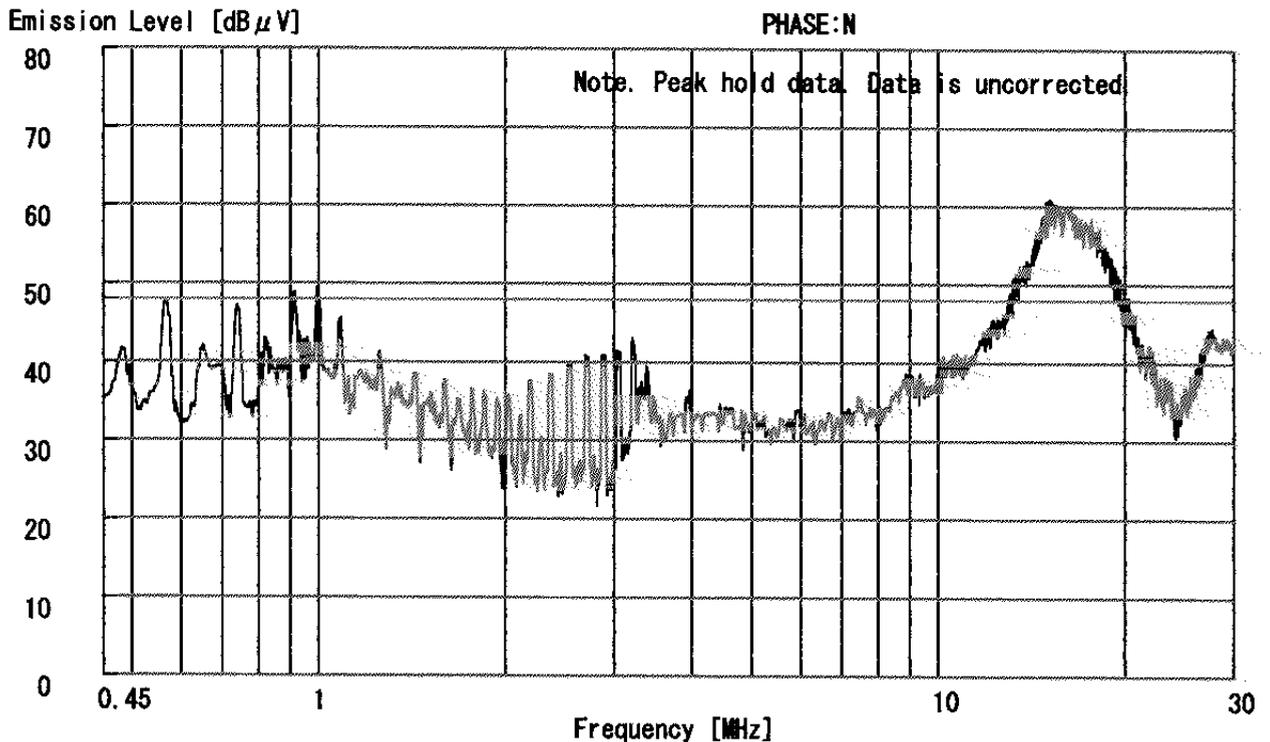


DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.3 OPEN TEST SITE
Report No. : 22AE0045-YW

Applicant : Sony Corporation
Kind of Equipment : MPEG Transmitter
Model No. : DLXA-002
Serial No. :
Power : AC120V/60Hz
Mode : Transmitting (2474MHz)
Remarks : FCC ID : AK8DLXA002
Date : 10/12/2001
Phase : Single Phase
Temperature : 23 °C
Humidity : 50 %
Regulation 1 : FCC Part15. 207
Regulation 2 : None

Engineer : Naoki Sakamoto

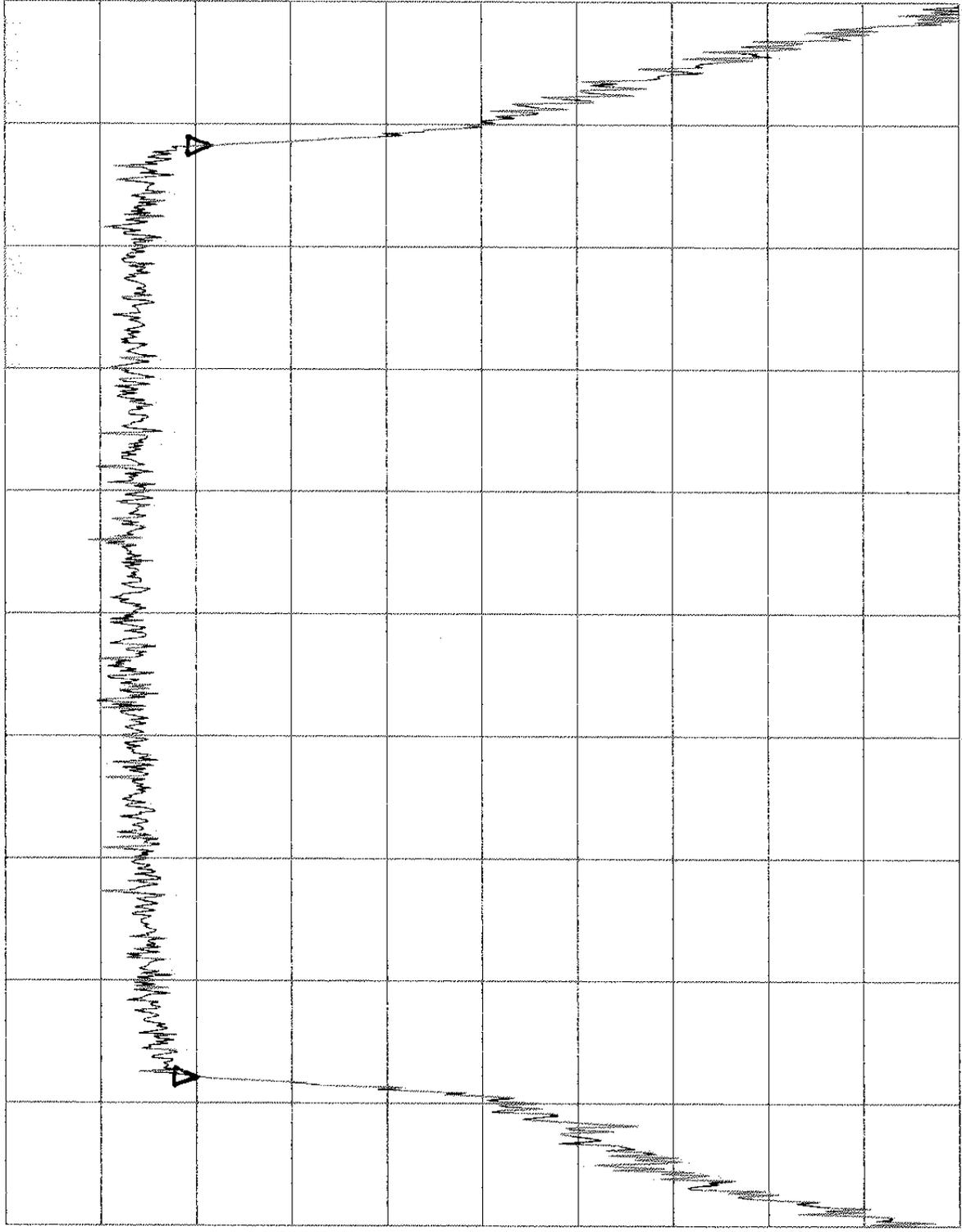


Sony Corporation/Model: DLXA-002/FCC ID: AK8DLXA002
15.247(a) (2) 6dB Bandwidth/2406MHz/22AE0045-YW
REF 107 dBuV
ATT 20 dB

MAKER
2.4098 GHz
96.00 dBuV

Δ MAKER
-7.6143 MHz
.75 dBuV

5dB/



START 2.401000GHZ
RBW 100kHz

VBW 100kHz

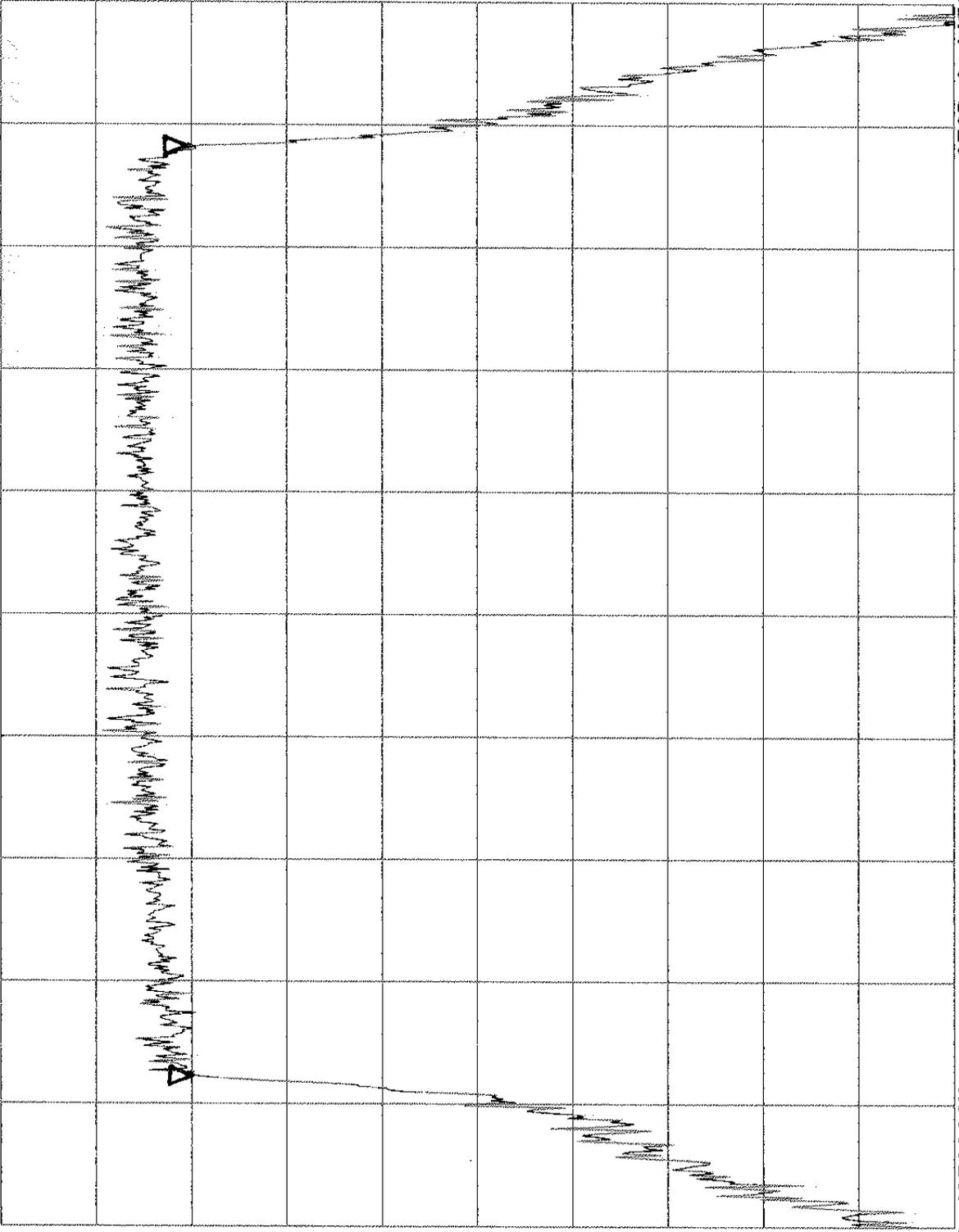
STOP 2.411000GHZ
SWP 100ms

A5

Sony Corporation/Model:DLXA-002/FCC ID:AK8DLXA002
15.247(a) (2)6dB Bandwidth/2442MHz/22AE0045-YW
REF 107 dBuV
ATT 20 dB

MAKER
2.4458 GHz
97.00 dBuV
ΔMAKER
-7.6000 MHz
-.25 dBuV

5dB/



START 2.437000GHZ
RBW 100kHz

STOP 2.447000GHZ
SWP 100ms

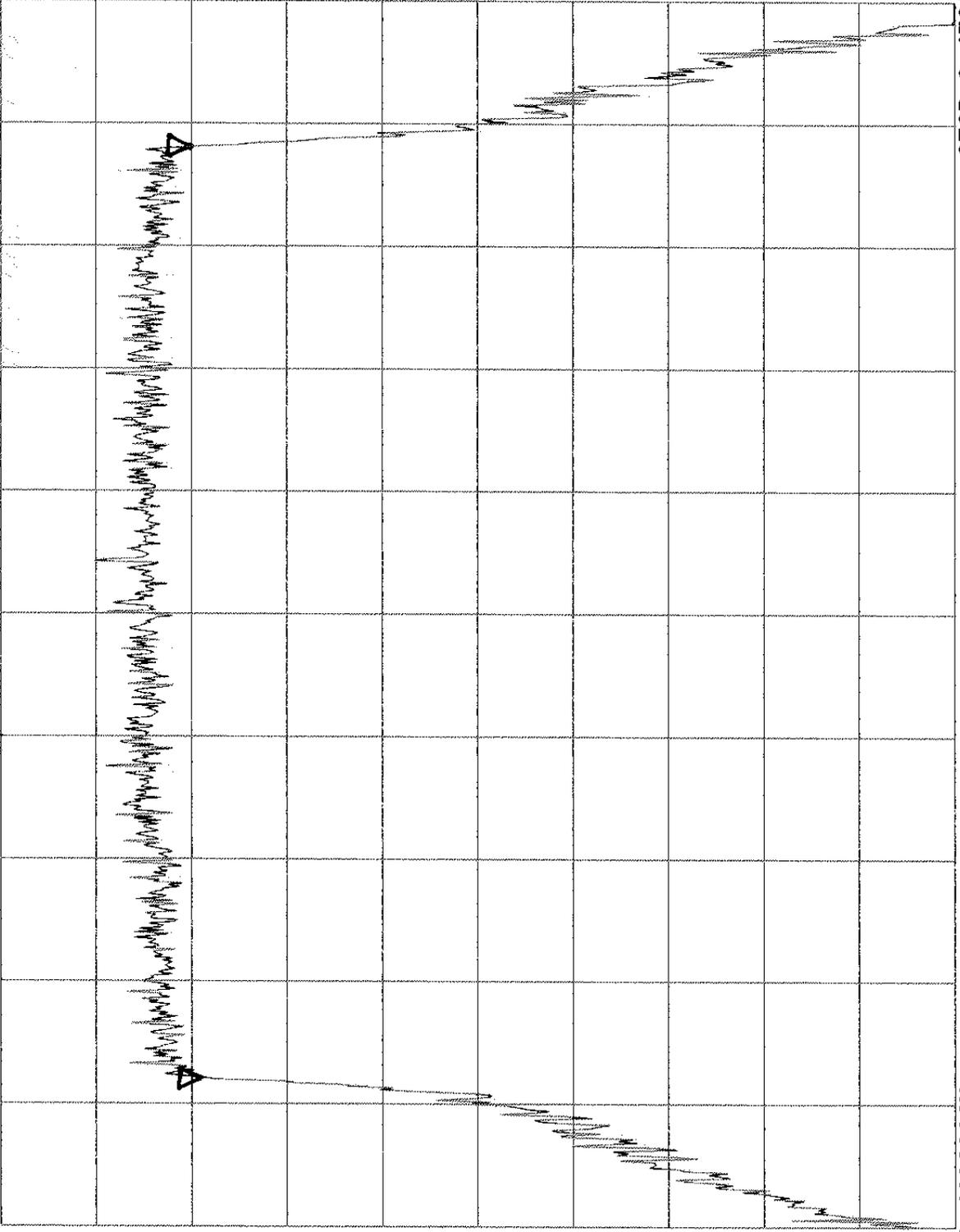
VBW 100kHz

A6

Sony Corporation/Model:DLXA-002/FCC ID:AK8DLXA002
15.247(a) (2) 6dB Bandwidth/2474MHz/22AE0045-YW
REF 107 dBuV
ATT 10 dB

MAKER
2.4778 GHz
96.75 dBuV

ΔMAKER
-7.6000 MHz
-1.50 dBuV



5dB/

START 2.469000GHZ
RBW 100KHZ

VBW 100KHZ

STOP 2.479000GHZ
SWP 100ms

A7

Peak Out Put Power (Radiated)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO. 3 OPEN SITE

COMPANY : Sony Corporation
EQUIPMENT : MPEG Transmitter
MODEL : DLXA-002
FCC ID : AK8DLXA002
POWER : DC12V (AC120V/60Hz)
Mode : Transmitting

REPORT NO : 22AE0045-YW
REGULATION : Fcc Part15SubpartC 247(b)(1)
TEST DISTANCE : 3m
DATE : 2001/10/12
Temp./Humi. : 21°C/52%

ENGINEER : Naoki Sakamoto

PK DETECT (S/A : RBW 1MHz and VBW 1MHz)

Ch	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	ATTEN. [dB]	CABLE LOSS [dB]	E		Limit [mW]	Result	
		HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [mW]	VER [mW]
Low	2.4060	91.1	104.5	31.4	34.5	10.0	5.5	103.5	116.9	1000.0	4.1	89.6
Mid	2.4420	92.2	104.5	31.4	34.5	10.0	5.6	104.7	117.0	1000.0	5.4	91.7
High	2.4740	91.1	104.3	31.5	34.5	10.0	5.7	103.8	117.0	1000.0	4.4	91.7

Sample Calculation :

$E = S/A \text{ Reading} + \text{ANT Factor} - \text{Amp Gain} + \text{ATTEN.} + \text{CABLE LOSS}$

$\text{RESULT} = (E*d) (E*d) / (30G)$

E : Converted to V/m

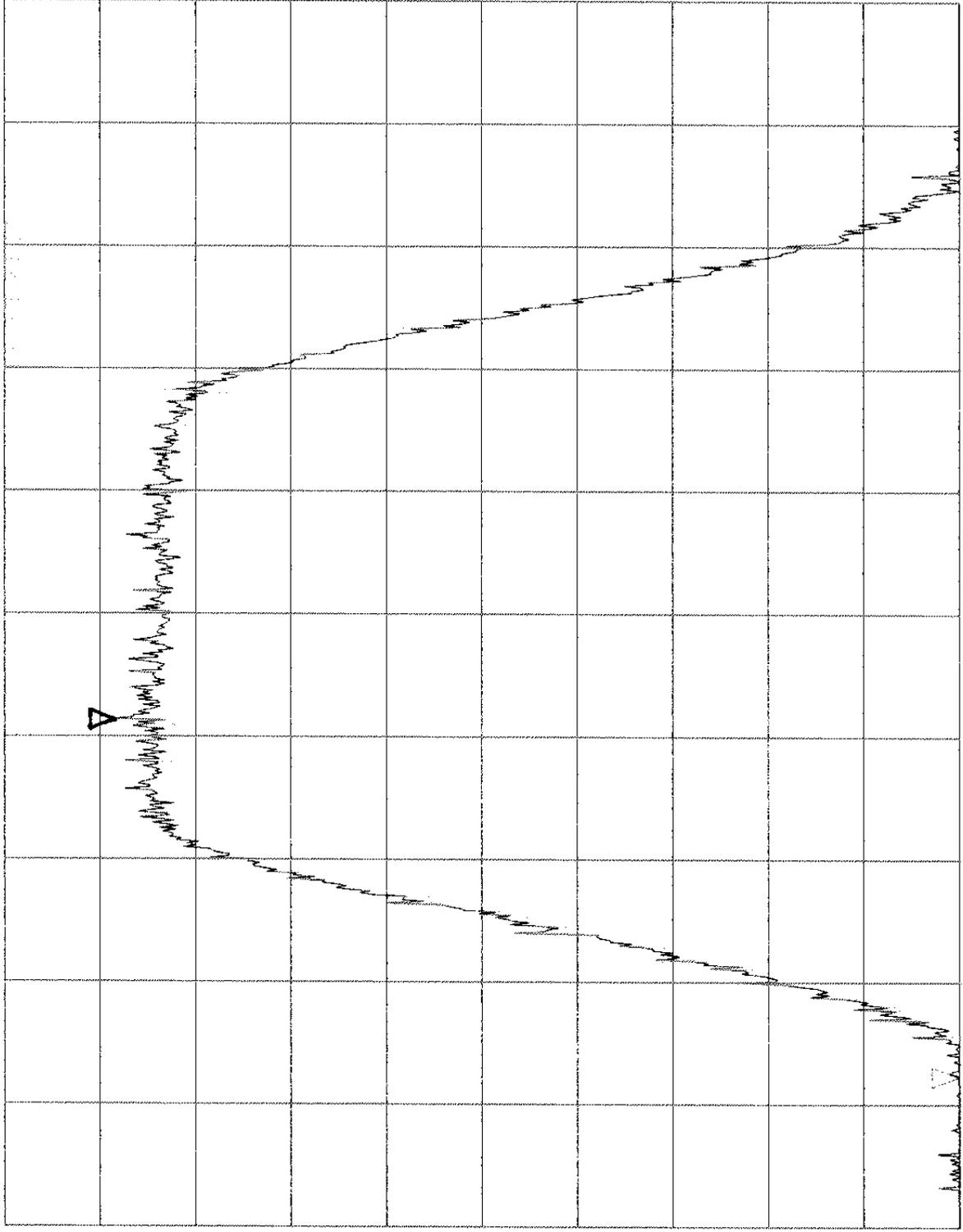
d : Test distance (3.0m)

G : Half Wave dipole Antenna Gain (1.64)

Sony Corporation/Model: DLXA-002/FCC ID: AK8DLXA002
15.247(b) (1) PeakOutPower/2406MHz (HOR) /22AE0045-YW
REF 97 dBuV
ATT 20 dB

MAKER
2.4043 GHz
91.13 dBuV

5dB/



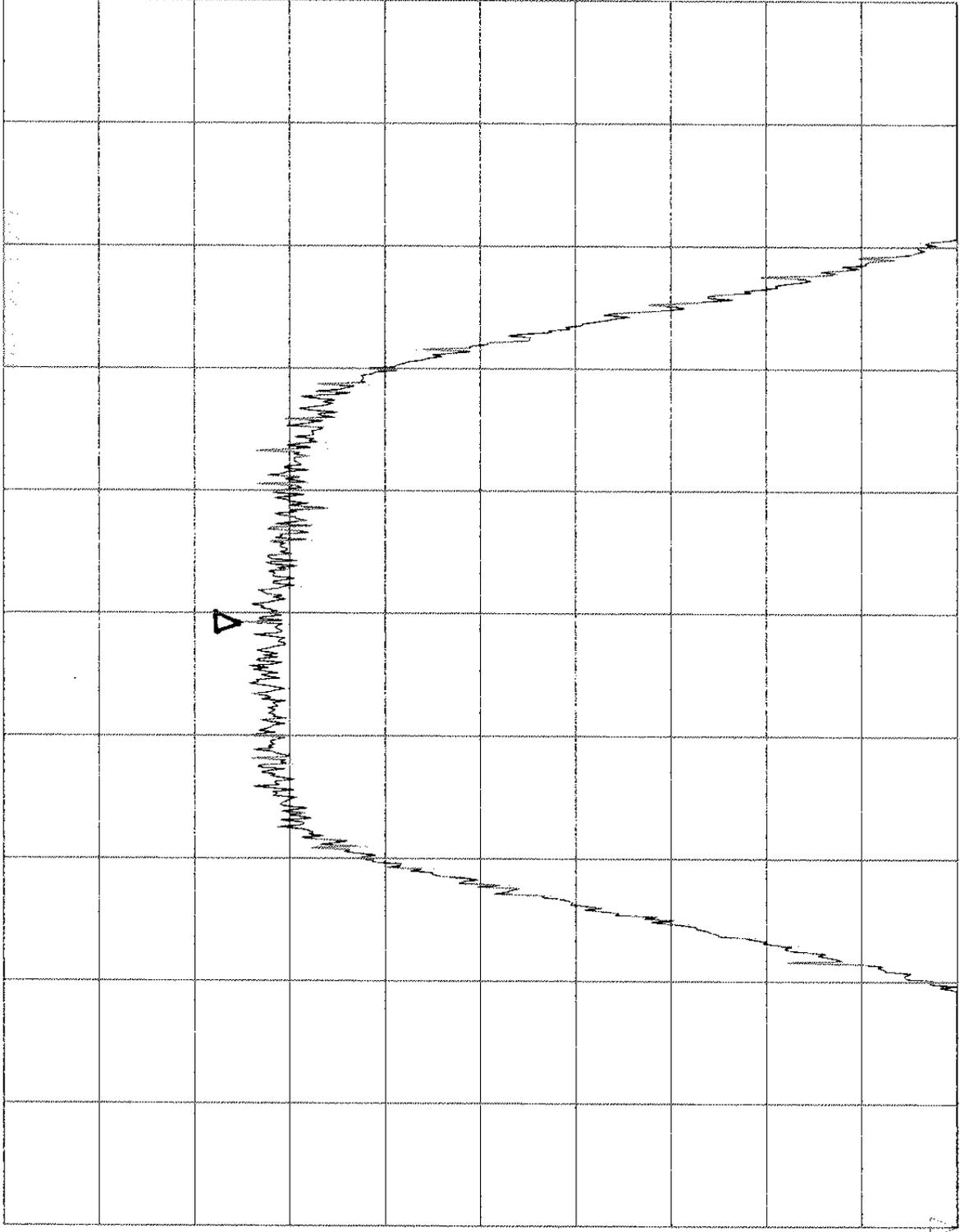
START 2.396000GHZ
RBW 1MHz

VBW 1MHz

STOP 2.416000GHZ
SWP 100ms

Sony Corporation/Model:DLXA-002/FCC ID:AK8DLXA002
15.247(b) (1)PeakOutPower/2406MHz (VER)/22AE0045-YW
REF 117 dBuV
ATT 20 dB

MAKER
2.4059 GHz
104.50 dBuV



5dB/

START 2.396000GHZ
RBW 1MHZ

VBW 1MHZ

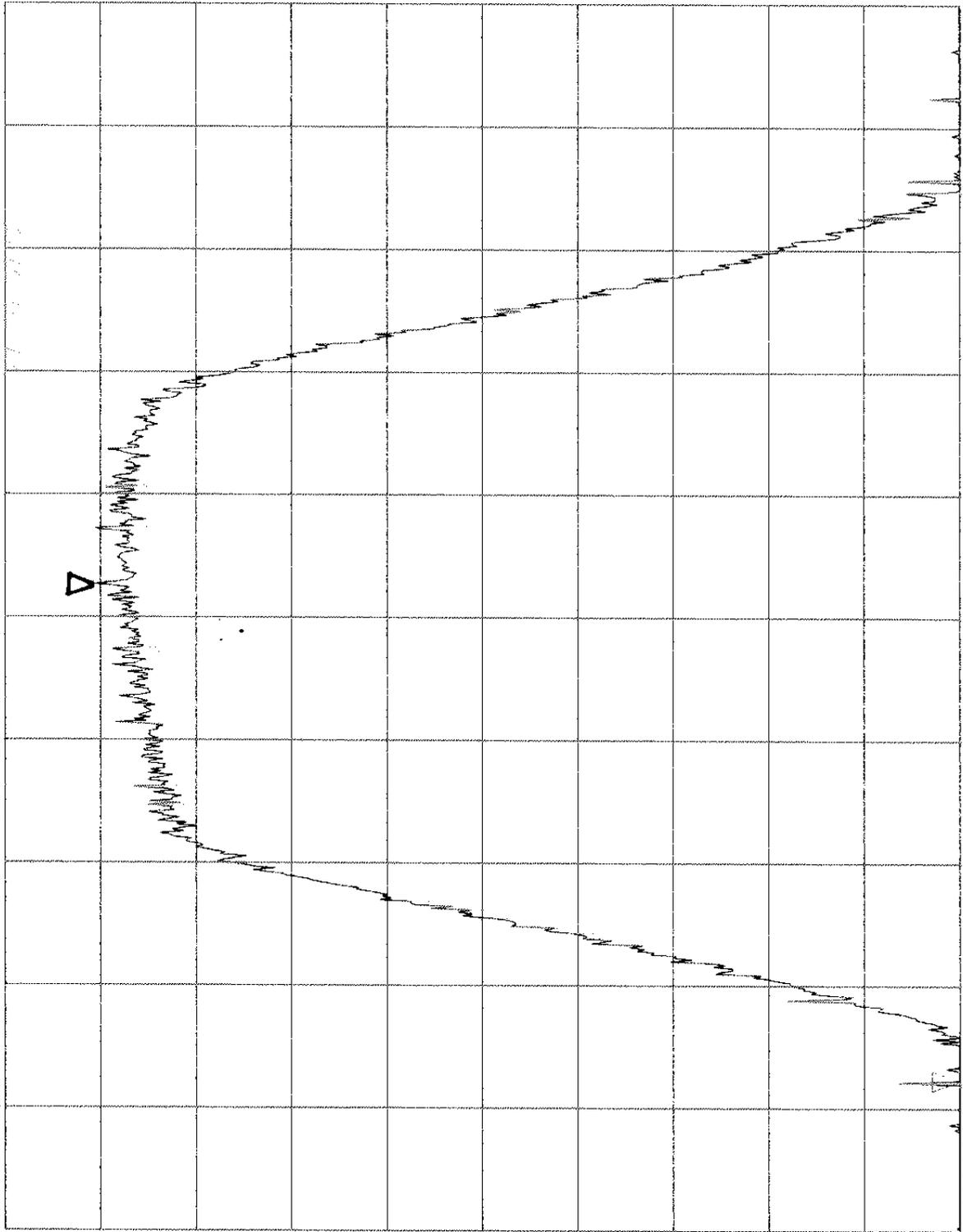
STOP 2.416000GHZ
SWP 100ms

A10

Sony Corporation/Model: DLXA-002/FCC ID: AK8DLXA002
15.247(b) (1) PeakOutPower/2442MHz (HOR) /22AE0045-YW
REF 97 dBuV
ATT 20 dB

MAKER
2.4425 GHz
92.25 dBuV

5dB/



START 2.432000GHZ
RBW 1MHz

VBW 1MHz

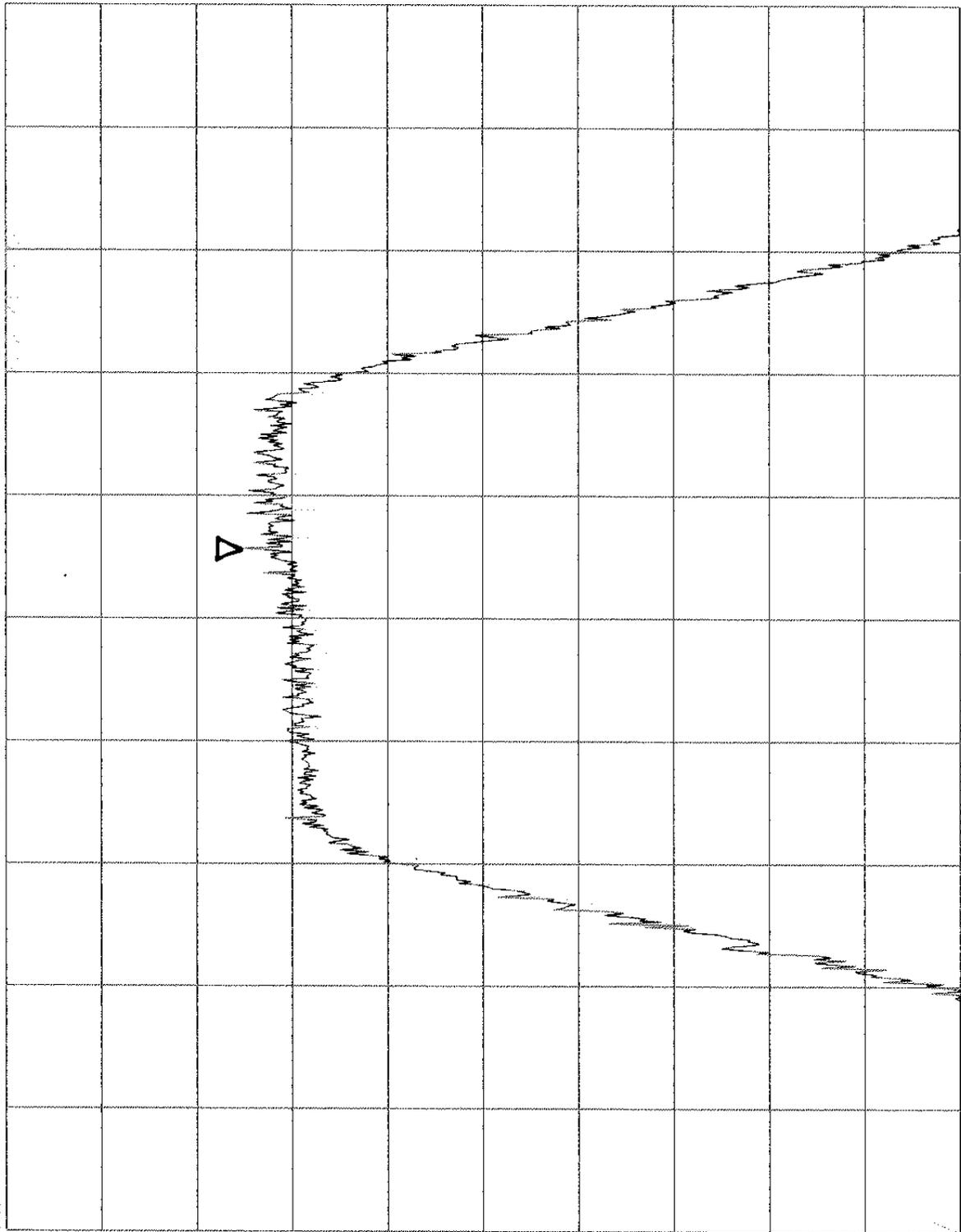
STOP 2.452000GHZ
SWP 100ms

ALL

Sony Corporation/Model:DLXA-002/FCC ID:AK8DLXA002
15.247(b) (1) PeakOutPower/2442MHz (VER)/22AE0045-YW
REF 117 dBuV
ATT 20 dB

MAKER
2.4431 GHz
104.50 dBuV

5dB/



START 2.432000GHZ
RBW 1MHZ

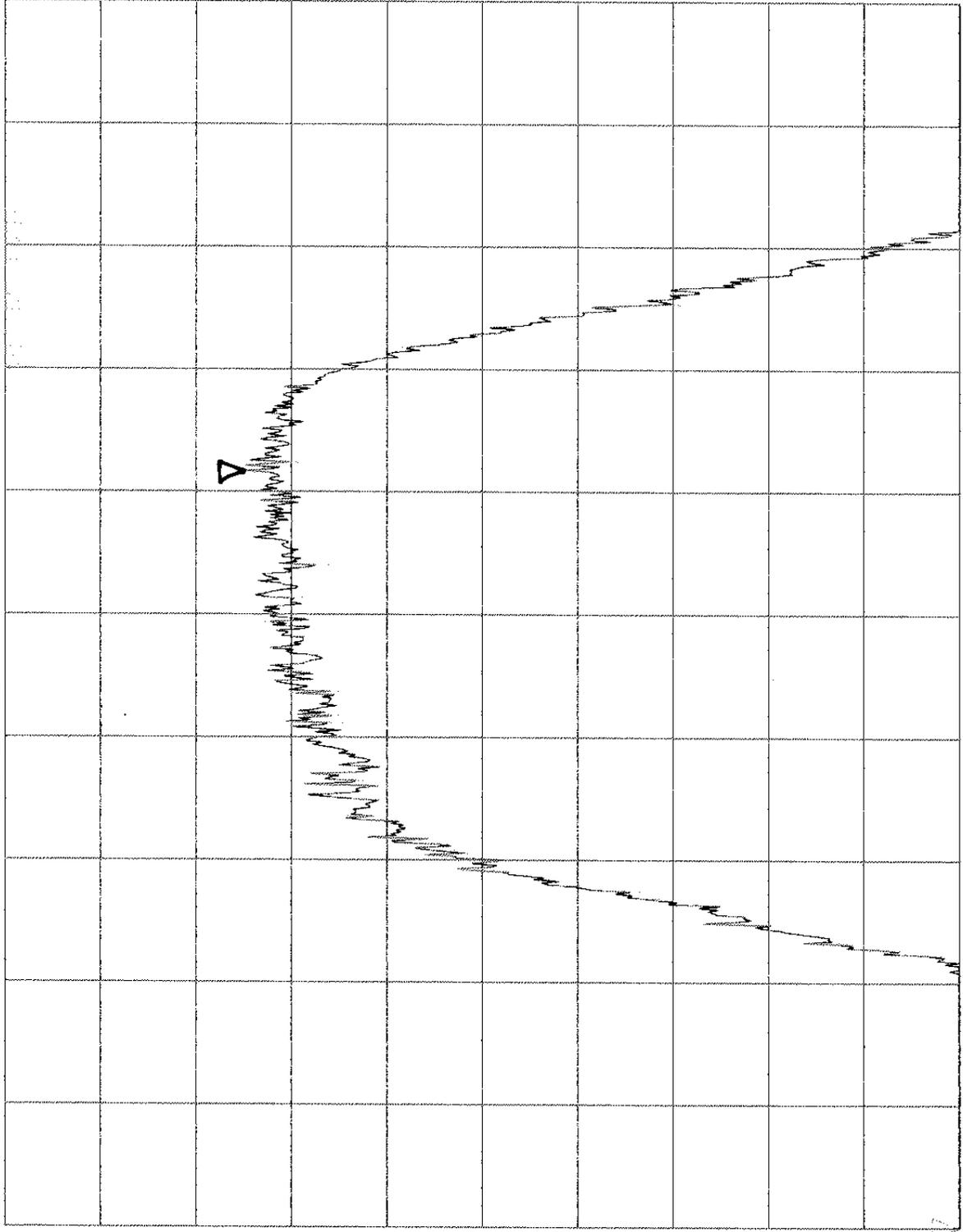
VBW 1MHZ

STOP 2.452000GHZ
SWP 100ms

Sony Corporation/Model:DLXA-002/FCC ID:AK8DLXA002
15.247(b) (1) PeakOutPower/2474MHz (VER)/22AE0045-YW
REF 117 dBuV
ATT 20 dB

MAKER
2.4763 GHz
104.38 dBuV

5dB/



START 2.464000GHZ
RBW 1MHZ

VBW 1MHZ

STOP 2.484000GHZ
SWP 100ms

A14

Peak Out Put Power(Conducted)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Sony Corporation
EQUIPMENT : MPEG Transmitter
MODEL : DLXA-002
FCC ID : AK8DLXA002
POWER : DC12V (AC120V/60Hz)
Mode : Transmitting

REPORT NO : 22AE0045-YW
REGULATION : Fcc Part15SubpartC 247(b) (1)
DATE : 2001/09/29
Temp./Humi. : 20°C/48%

ENGINEER : 
: Naoki.Sakamoto

Ch	FREQ [GHz]	P/M Reading [dBm]	Limit (1W) [dBm]	Margin [dB]
Low	2.4060	15.3	30.0	14.7
Mid	2.4420	15.2	30.0	14.8
High	2.4740	15.1	30.0	14.9

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 22AE0045-YW

Applicant : Sony Corporation
Kind of Equipment : MPEG Transmitter
Model No. : DLXA-002
Serial No. :
Power : DC 12V 18W (AC 120V/60Hz)
Mode : Transmitting (2406MHz)
Remarks : FCC ID : AK8DLXA002
Date : 9/28/2001
Test Distance : 3 m
Temperature : 24 °C
Humidity : 74 %
Regulation : Fcc 15C § 15.209(a)


Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	33.83	BB	23.7	41.3	16.5	28.1	1.0	6.0	19.1	36.7	40.0	20.9	3.3	
2.	57.53	BB	45.1	50.7	8.3	28.1	1.4	5.9	32.6	38.2	40.0	7.4	1.8	
3.	108.01	BB	41.6	41.1	11.4	27.9	2.0	5.9	33.0	32.5	43.5	10.5	11.0	
4.	135.00	BB	43.5	41.4	13.9	27.8	2.2	5.9	37.7	35.6	43.5	5.8	7.9	
5.	189.00	BB	40.8	32.6	16.1	27.8	2.7	5.9	37.7	29.5	43.5	5.8	14.0	
6.	200.44	BB	33.7	28.8	16.4	27.8	2.8	5.9	31.0	26.1	43.5	12.5	17.4	
7.	216.01	BB	29.2	30.2	16.5	27.8	3.0	5.9	26.8	27.8	46.0	19.2	18.2	
8.	432.00	BB	40.2	38.0	16.3	27.6	4.4	5.9	39.2	37.0	46.0	6.8	9.0	
9.	567.00	BB	38.1	39.6	18.6	27.4	5.1	5.9	40.3	41.8	46.0	5.7	4.2	
10.	661.50	BB	39.5	37.3	19.9	27.1	5.6	5.9	43.8	41.6	46.0	2.2	4.4	
11.	715.11	BB	33.8	33.5	20.7	26.9	5.8	5.8	39.2	38.9	46.0	6.8	7.1	

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emission are more than 20dB below the limits.
ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic.

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 22AE0045-YW

Applicant : Sony Corporation
 Kind of Equipment : MPEG Transmitter
 Model No. : DLXA-002
 Serial No. :
 Power : DC 12V 18W (AC 120V/60Hz)
 Mode : Transmitting (2442MHz)
 Remarks : FCC ID : AK8DLXA002
 Date : 9/28/2001
 Test Distance : 3 m
 Temperature : 24 °C
 Humidity : 74 %
 Regulation : Fcc 15C § 15.209(a)



 Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	33.78	BB	29.1	41.0	16.6	28.1	1.0	6.0	24.6	36.5	40.0	15.4	3.5
2.	57.55	BB	41.3	50.8	8.3	28.1	1.4	5.9	28.8	38.3	40.0	11.2	1.7
3.	81.01	BB	49.6	44.8	6.4	27.9	1.7	5.9	35.7	30.9	40.0	4.3	9.1
4.	108.00	BB	40.8	39.7	11.4	27.9	2.0	5.9	32.2	31.1	43.5	11.3	12.4
5.	189.00	BB	39.1	29.6	16.1	27.8	2.7	5.9	36.0	26.5	43.5	7.5	17.0
6.	200.45	BB	34.1	27.8	16.4	27.8	2.8	5.9	31.4	25.1	43.5	12.1	18.4
7.	216.00	BB	27.9	29.8	16.5	27.8	3.0	5.9	25.5	27.4	43.5	18.0	16.1
8.	432.00	BB	42.5	42.0	16.3	27.6	4.4	5.9	41.5	41.0	46.0	4.5	5.0
9.	567.01	BB	41.2	42.5	18.6	27.4	5.1	5.9	43.4	44.7	46.0	2.6	1.3
10.	661.51	BB	37.1	38.7	19.9	27.1	5.6	5.9	41.4	43.0	46.0	4.6	3.0
11.	715.51	BB	32.8	34.3	20.7	26.9	5.8	5.8	38.2	39.7	46.0	7.8	6.3

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emission are more than 20dB below the limits.
 ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic.

DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.
YOKOWA No.2 OPEN TEST SITE
Report No. : 22AE0045-YW

Applicant : Sony Corporation
Kind of Equipment : MPEG Transmitter
Model No. : DLXA-002
Serial No. :
Power : DC 12V 18W (AC 120V/60Hz)
Mode : Transmitting (2474MHz)
Remarks : FCC ID : AK8DLXA002
Date : 10/12/2001
Test Distance : 3 m
Temperature : 20 °C
Humidity : 52 %
Regulation : Fcc 15C § 15.209 (a)



Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	33.39	BB	28.5	44.2	16.7	28.1	1.0	6.0	24.1	39.8	40.0	15.9	0.2	
2.	56.56	BB	39.7	49.8	8.6	28.1	1.4	5.9	27.5	37.6	40.0	12.5	2.4	
3.	85.91	BB	40.9	45.1	7.2	27.9	1.8	5.9	27.9	32.1	40.0	12.1	7.9	
4.	189.01	BB	39.1	32.0	16.1	27.8	2.7	5.9	36.0	28.9	43.5	7.5	14.6	
5.	200.45	BB	35.2	25.7	16.4	27.8	2.8	5.9	32.5	23.0	43.5	11.0	20.5	
6.	432.00	BB	40.9	43.8	16.3	27.6	4.4	5.9	39.9	42.8	46.0	6.1	3.2	
7.	513.00	BB	34.9	38.0	18.2	27.5	4.8	5.9	36.3	39.4	46.0	9.7	6.6	
8.	567.01	BB	41.3	43.0	18.6	27.4	5.1	5.9	43.5	45.2	46.0	2.5	0.8	
9.	661.51	BB	38.5	37.6	19.9	27.1	5.6	5.9	42.8	41.9	46.0	3.2	4.1	

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emission are more than 20dB below the limits.
ANT. TYPE: 30-300MHz Biconical , 300-1000MHz Logperiodic,

DATA OF SUPURIOUS EMISSIONS(1GHz to 5GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Sony Corporation	REPORT NO : 22AE0045-YW
EQUIPMENT : MPEG Transmitter	REGULATION : Fcc Part15SubpartC 247 / 209
MODEL : DLXA-002	TEST DISTANCE : 3m
FCC ID : AK8DLXA002	DATE : 2001/09/28
POWER : DC12V (AC120V/60Hz)	Temp./Humi. : 25°C/65%
Mode : Transmitting(2406MHz)	

ENGINEER : Naoki.Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN [dB]	RESULT		Limit PK [dB μV/m]	MARGIN	
		HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1	4.8120	39.6	38.8	35.4	34.5	7.9	10.0	58.4	57.6	74.0	15.6	16.4

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN [dB]	RESULT		Limit AV [dB μV/m]	MARGIN	
		HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1	4.8120	28.2	28.3	35.4	34.5	7.9	10.0	47.0	47.1	54.0	7.0	6.9

Sample Calculation :

RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + ATTEN.

Except for the above table : All other spurious emissions are more than 20dB below the limit.

DATA OF SUPURIOUS EMISSIONS(5GHz to 26GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Sony Corporation	REPORT NO : 22AE0045-YW
EQUIPMENT : MPEG Transmitter	REGULATION : Fcc Part15SubpartC 247 / 209
MODEL : DLXA-002	TEST DISTANCE : 3m
FCC ID : AK8DLXA002	DATE : 2001/10/27
POWER : DC12V(AC120V/60Hz)	Temp./Humi. : 22°C/43%
Mode : Transmitting(2406MHz)	

ENGINEER : Naoki Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	High Pass Filter [dB]	RESULT		Limit PK [dB μV/m]	MARGIN	
		HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1	7.2180	42.5	42.1	39.1	34.8	5.2	1.0	53.0	52.6	74.0	21.0	21.4
2	9.6240	42.2	42.3	39.3	35.0	5.8	1.3	53.6	53.7	74.0	20.4	20.3
3	12.0300	42.4	43.1	43.6	34.4	7.0	1.5	60.1	60.8	74.0	13.9	13.2
4	14.4360	41.8	42.2	42.1	33.1	7.6	1.1	59.5	59.9	74.0	14.5	14.1
5	16.8420	41.5	42.0	43.7	33.5	8.2	1.1	61.0	61.5	74.0	13.0	12.5
6	19.2480	41.9	42.5	40.2	33.4	9.2	1.0	58.9	59.5	74.0	15.1	14.5
7	21.6540	42.5	43.3	40.3	33.0	10.0	0.8	60.6	61.4	74.0	13.4	12.6
8	24.0600	45.1	45.0	40.3	33.2	10.1	0.7	63.0	62.9	74.0	11.0	11.1

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	High Pass Filter [dB]	RESULT		Limit AV [dB μV/m]	MARGIN	
		HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1	7.2180	30.1	29.9	39.1	34.8	5.2	1.0	40.6	40.4	54.0	13.4	13.6
2	9.6240	30.0	29.8	39.3	35.0	5.8	1.3	41.4	41.2	54.0	12.6	12.8
3	12.0300	29.9	29.8	43.6	34.4	7.0	1.5	47.6	47.5	54.0	6.4	6.5
4	14.4360	29.6	29.4	42.1	33.1	7.6	1.1	47.3	47.1	54.0	6.7	6.9
5	16.8420	30.0	29.8	43.7	33.5	8.2	1.1	49.5	49.3	54.0	4.5	4.7
6	19.2480	30.1	29.9	40.2	33.4	9.2	1.0	47.1	46.9	54.0	6.9	7.1
7	21.6540	30.8	30.5	40.3	33.0	10.0	0.8	48.9	48.6	54.0	5.1	5.4
8	24.0600	31.6	31.4	40.3	33.2	10.1	0.7	49.5	49.3	54.0	4.5	4.7

Sample Calculation :

RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass Filter

Except for the above table:All other spurious emissions are more than 20dB below the limit.

DATA OF SUPURIOUS EMISSIONS(1GHz to 5GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Sony Corporation
EQUIPMENT : MPEG Transmitter
MODEL : DLXA-002
FCC ID : AK8DLXA002
POWER : DC12V (AC120V/60Hz)
Mode : Transmitting (2442MHz)

REPORT NO : 22AE0045-YW
REGULATION : Fcc Part15SubpartC 247 / 209
TEST DISTANCE : 3m
DATE : 2001/09/28
Temp./Humi. : 25°C/65%


ENGINEER : Naoki Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN [dB]	RESULT		Limit PK [dB μV/m]	MARGIN	
		HOR [dB μV]	VER [dB μV]					HOR dB μV/m	VER dB μV/m		HOR [dB]	VER [dB]
1	4.8840	38.8	39.4	35.7	34.5	8.0	10.0	58.0	58.6	74.0	16.0	15.4

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN [dB]	RESULT		Limit AV [dB μV/m]	MARGIN	
		HOR [dB μV]	VER [dB μV]					HOR dB μV/m	VER dB μV/m		HOR [dB]	VER [dB]
1	4.8840	28.1	28.2	35.7	34.5	8.0	10.0	47.3	47.4	54.0	6.7	6.6

Sample Calculation :

RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + ATTEN.

Except for the above table : All other spurious emissions are more than 20dB below the limit.

DATA OF SUPURIOUS EMISSIONS(5GHz to 26GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Sony Corporation
EQUIPMENT : MPEG Transmitter
MODEL : DLXA-002
FCC ID : AK8DLXA002
POWER : DC12V(AC120V/60Hz)
Mode : Transmitting(2442MHz)

REPORT NO : 22AE0045-YW
REGULATION : Fcc Part15SubpartC 247 / 209
TEST DISTANCE : 3m
DATE : 2001/10/27
Temp./Humi. : 22°C/43%

ENGINEER : Naoki.Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	High Pass Filter [dB]	RESULT		Limit PK [dB μV/m]	MARGIN	
		HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1	7.3260	42.0	42.4	39.2	34.9	5.3	1.0	52.6	53.0	74.0	52.6	53.0
2	9.7680	42.7	43.4	39.2	35.0	5.9	1.3	54.1	54.8	74.0	54.1	54.8
3	12.2100	42.3	42.2	43.4	34.3	7.0	1.5	59.9	59.8	74.0	59.9	59.8
4	14.6520	41.1	41.7	42.6	33.1	7.6	1.1	59.3	59.9	74.0	59.3	59.9
5	17.0940	42.3	43.1	43.8	33.2	8.2	1.1	62.2	63.0	74.0	62.2	63.0
6	19.5360	42.5	42.7	40.2	33.4	9.4	1.4	60.1	60.3	74.0	60.1	60.3
7	21.9780	43.7	43.1	40.3	33.0	10.1	0.6	61.7	61.1	74.0	61.7	61.1
8	24.4200	43.6	43.0	40.3	33.2	10.8	0.5	62.0	61.4	74.0	62.0	61.4

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	High Pass Filter [dB]	RESULT		Limit AV [dB μV/m]	MARGIN	
		HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1	7.3260	29.9	29.8	39.2	34.9	5.3	1.0	40.5	40.4	54.0	13.5	13.6
2	9.7680	30.7	29.8	39.2	35.0	5.9	1.3	42.1	41.2	54.0	11.9	12.8
3	12.2100	30.2	30.1	43.4	34.3	7.0	1.5	47.8	47.7	54.0	6.2	6.3
4	14.6520	29.6	29.5	42.6	33.1	7.6	1.1	47.8	47.7	54.0	6.2	6.3
5	17.0940	30.2	30.1	43.8	33.2	8.2	1.1	50.1	50.0	54.0	3.9	4.0
6	19.5360	29.7	29.6	40.2	33.4	9.4	1.4	47.3	47.2	54.0	6.7	6.8
7	21.9780	31.7	31.6	40.3	33.0	10.1	0.6	49.7	49.6	54.0	4.3	4.4
8	24.4200	31.1	31.0	40.3	33.2	10.8	0.5	49.5	49.4	54.0	4.5	4.6

Sample Calculation :

RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass Filter

Except for the above table:All other spurious emissions are more than 20dB below the limit.

DATA OF SUPURIOUS EMISSIONS(1GHz to 5GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Sony Corporation	REPORT NO : 22AE0045-YW
EQUIPMENT : MPEG Transmitter	REGULATION : Fcc Part15SubpartC 247 / 209
MODEL : DLXA-002	TEST DISTANCE : 3m
FCC ID : AK8DLXA002	DATE : 2001/10/12
POWER : DC12V(AC120V/60Hz)	Temp./Humi. : 21°C/52%
Mode : Transmitting(2474MHz)	

ENGINEER : Naoki.Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN [dB]	RESULT		Limit PK [dB μ V/m]	MARGIN	
		HOR [dB μ V]	VER [dB μ V]					HOR dB μ V/m	VER dB μ V/m		HOR [dB]	VER [dB]
1	4.9480	38.9	39.8	35.9	34.5	8.1	10.0	58.4	59.3	74.0	15.6	14.7

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN [dB]	RESULT		Limit AV [dB μ V/m]	MARGIN	
		HOR [dB μ V]	VER [dB μ V]					HOR dB μ V/m	VER dB μ V/m		HOR [dB]	VER [dB]
1	4.9480	28.6	28.3	35.9	34.5	8.1	10.0	48.1	47.8	54.0	5.9	6.2

Sample Calculation :

RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + ATTEN.

Except for the above table : All other spurious emissions are more than 20dB below the limit.

DATA OF SUPURIOUS EMISSIONS(5GHz to 26GHz)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO. 3 OPEN SITE

COMPANY : Sony Corporation	REPORT NO : 22AE0045-YW
EQUIPMENT : MPEG Transmitter	REGULATION : Fcc Part15SubpartC 247 / 209
MODEL : DLXA-002	TEST DISTANCE : 3m
FCC ID : AK8DLXA002	DATE : 2001/10/27
POWER : DC12V(AC120V/60Hz)	Temp. /Humi. : 22°C/43%
Mode : Transmitting(2474MHz)	

ENGINEER : Naoki Sakamoto

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	High Pass Filter [dB]	RESULT		Limit PK [dB μ V/m]	MARGIN	
		HOR [dB μ V]	VER [dB μ V]					HOR dB μ V/m	VER dB μ V/m		HOR [dB]	VER [dB]
1	7.4220	42.3	41.9	39.3	35.0	5.3	0.9	52.8	52.4	74.0	21.2	21.6
2	9.8960	41.6	41.7	39.1	34.9	6.0	1.1	52.9	53.0	74.0	21.1	21.0
3	12.3700	41.5	41.8	43.2	34.2	7.1	1.5	59.1	59.4	74.0	14.9	14.6
4	14.8440	42.1	42.9	43.1	33.0	7.7	1.2	61.1	61.9	74.0	12.9	12.1
5	17.3180	43.1	42.6	43.9	33.0	8.5	0.8	63.3	62.8	74.0	10.7	11.2
6	19.7920	41.8	42.2	40.2	33.4	9.4	1.6	59.6	60.0	74.0	14.4	14.0
7	22.2660	42.5	42.8	40.3	33.0	10.1	0.7	60.6	60.9	74.0	13.4	13.1
8	24.7400	43.7	43.8	40.3	33.2	10.9	0.6	62.3	62.4	74.0	11.7	11.6

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	High Pass Filter [dB]	RESULT		Limit AV [dB μ V/m]	MARGIN	
		HOR [dB μ V]	VER [dB μ V]					HOR dB μ V/m	VER dB μ V/m		HOR [dB]	VER [dB]
1	7.4220	29.8	29.7	39.3	35.0	5.3	0.9	40.3	40.2	54.0	13.7	13.8
2	9.8960	29.6	29.7	39.1	34.9	6.0	1.1	40.9	41.0	54.0	13.1	13.0
3	12.3700	29.8	29.6	43.2	34.2	7.1	1.5	47.4	47.2	54.0	6.6	6.8
4	14.8440	29.9	29.8	43.1	33.0	7.7	1.2	48.9	48.8	54.0	5.1	5.2
5	17.3180	30.2	30.2	43.9	33.0	8.5	0.8	50.4	50.4	54.0	3.6	3.6
6	19.7920	30.1	30.0	40.2	33.4	9.4	1.6	47.9	47.8	54.0	6.1	6.2
7	22.2660	31.0	30.9	40.3	33.0	10.1	0.7	49.1	49.0	54.0	4.9	5.0
8	24.7400	31.6	31.6	40.3	33.2	10.9	0.6	50.2	50.2	54.0	3.8	3.8

Sample Calculation :

RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + High Pass Filter

Except for the above table:All other spurious emissions are more than 20dB below the limit

Restricted Band Edges (Radiated)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Sony Corporation	REPORT NO : 22AE0045-YW
EQUIPMENT : MPEG Transmitter	REGULATION : Fcc Part15SubpartC 247 / 209
MODEL : DLXA-002	TEST DISTANCE : 3m
FCC ID : AK8DLXA002	DATE : 2001/10/27
POWER : DC12V (AC120V/60Hz)	Temp./Humi. : 22°C/43%
Mode : Transmitting (2406/2474MHz)	

ENGINEER : Naoki.Sakamoto

PK DETECT (S/A : RBW 1MHz and VBW 1MHz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN [dB]	RESULT		Limit PK [dB μV/m]	MARGIN	
		HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
*1	2.3900	47.0	49.7	31.3	34.5	2.9	10.0	56.7	59.4	74.0	17.3	14.6
*2	2.4835	46.0	52.7	31.6	34.5	3.0	10.0	56.1	62.8	74.0	17.9	11.2

AV DETECT (S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN [dB]	RESULT		Limit AV [dB μV/m]	MARGIN	
		HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
*1	2.3900	36.2	40.0	31.3	34.5	2.9	10.0	45.9	49.7	54.0	8.1	4.3
*2	2.4835	36.5	42.0	31.6	34.5	3.0	10.0	46.6	52.1	54.0	7.4	1.9

Sample Calculation :

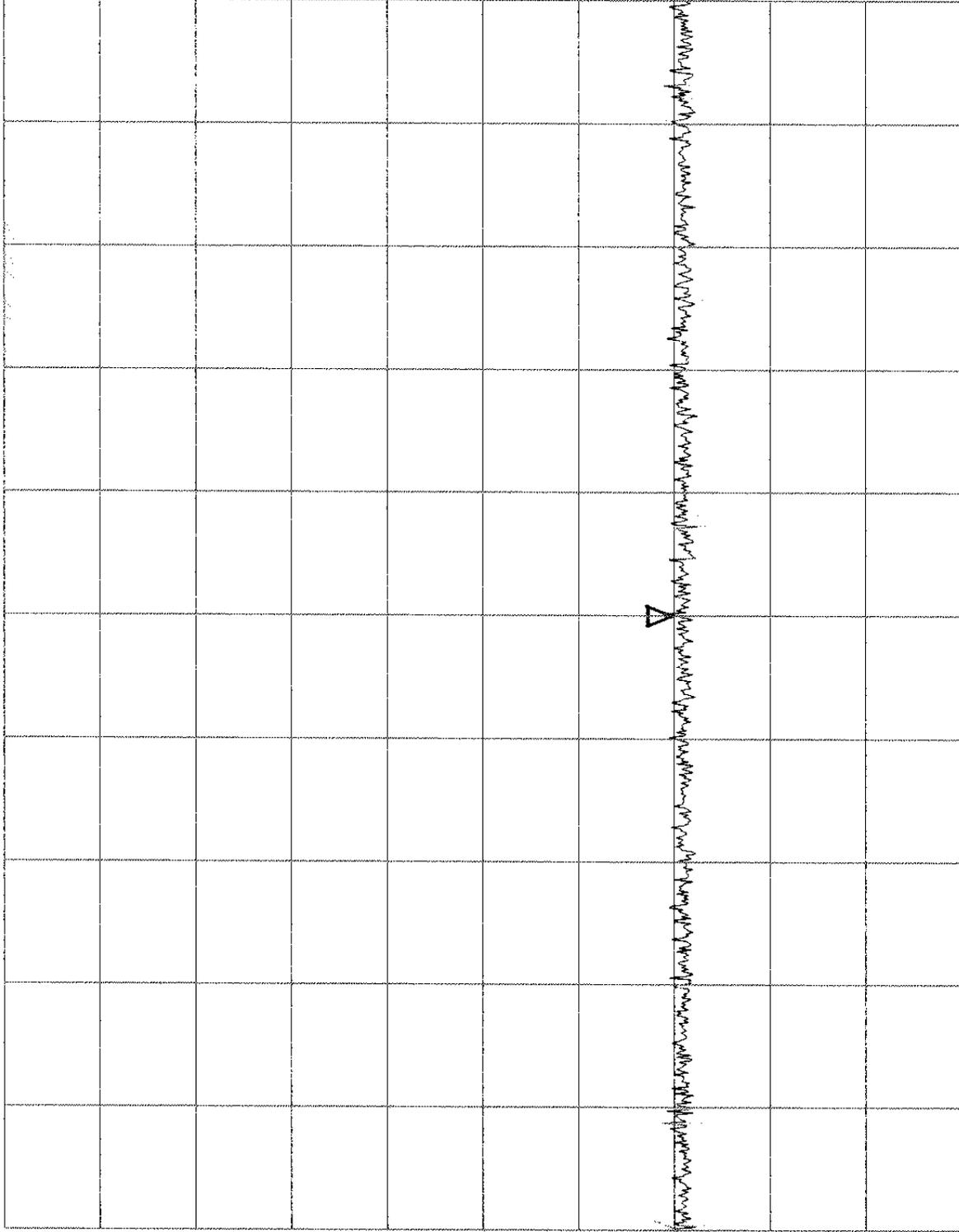
RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + ATTEN.

- *1 : 2406MHz. Transmitting
- 2 : 2474MHz Transmitting

Sony Corporation/Model:DLXA-002/FCC ID:AK8DLXA002
15.247(c)BandEdges/2406MHz (HOR:PK)/22AE0045-YW
REF 117 dBuV
ATT 20 dB

NAKER
2.3900 GHz
47.00 dBuV

10dB/



START 2.385000GHz
RBW 1MHz

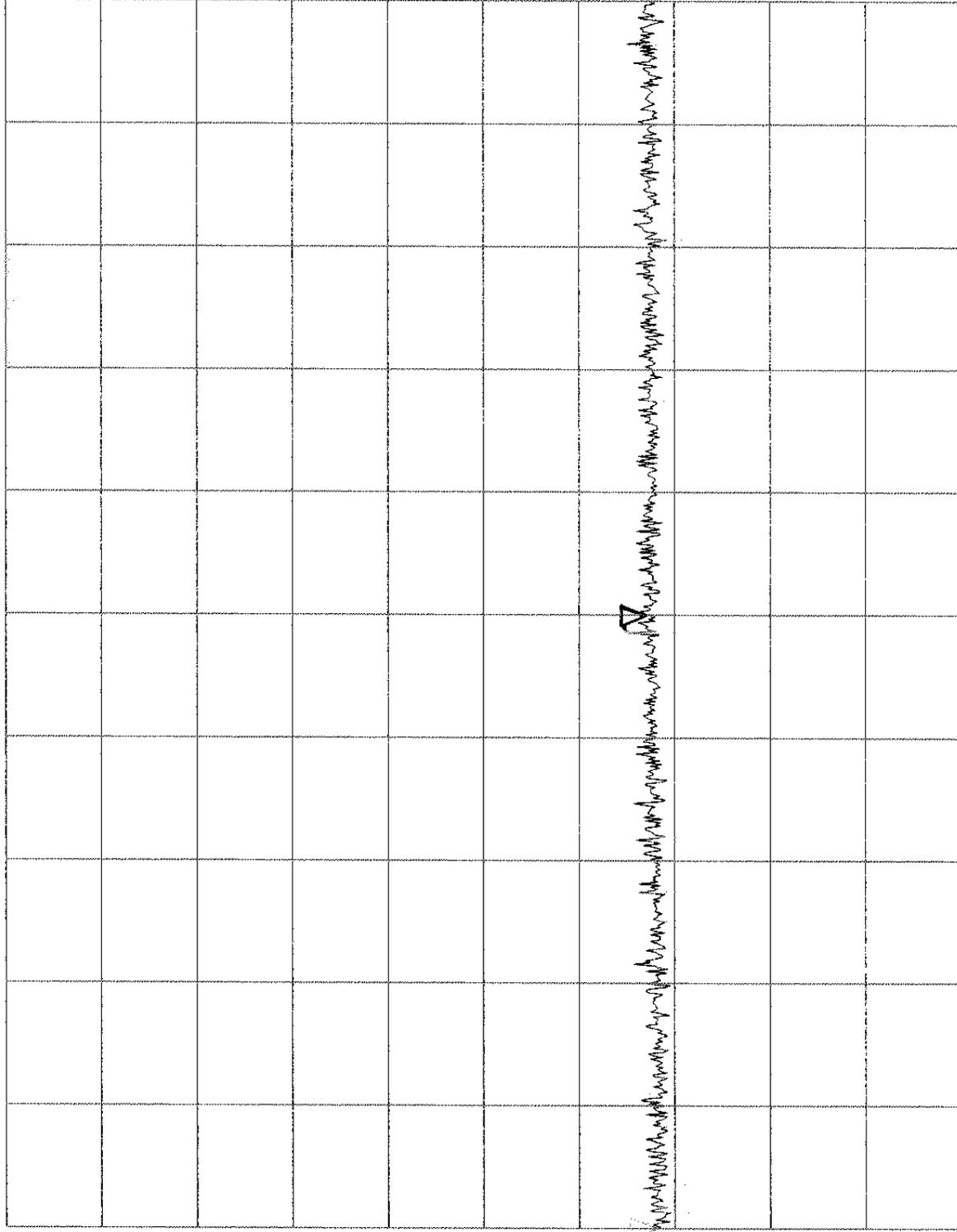
STOP 2.395000GHz
SWP 50ms

VBW 1MHz

Sony Corporation/Model: DLXA-002/FCC ID: AK8DLXA002
15.247(c) BandEdges/2406MHz (VER: PK) /22AE0045-YW
REF 117 dBuV
ATT 20 dB

MAXER
2.3900 GHz
49.75 dBuV

10dB/



START 2.385000GHz
RBW 1MHz

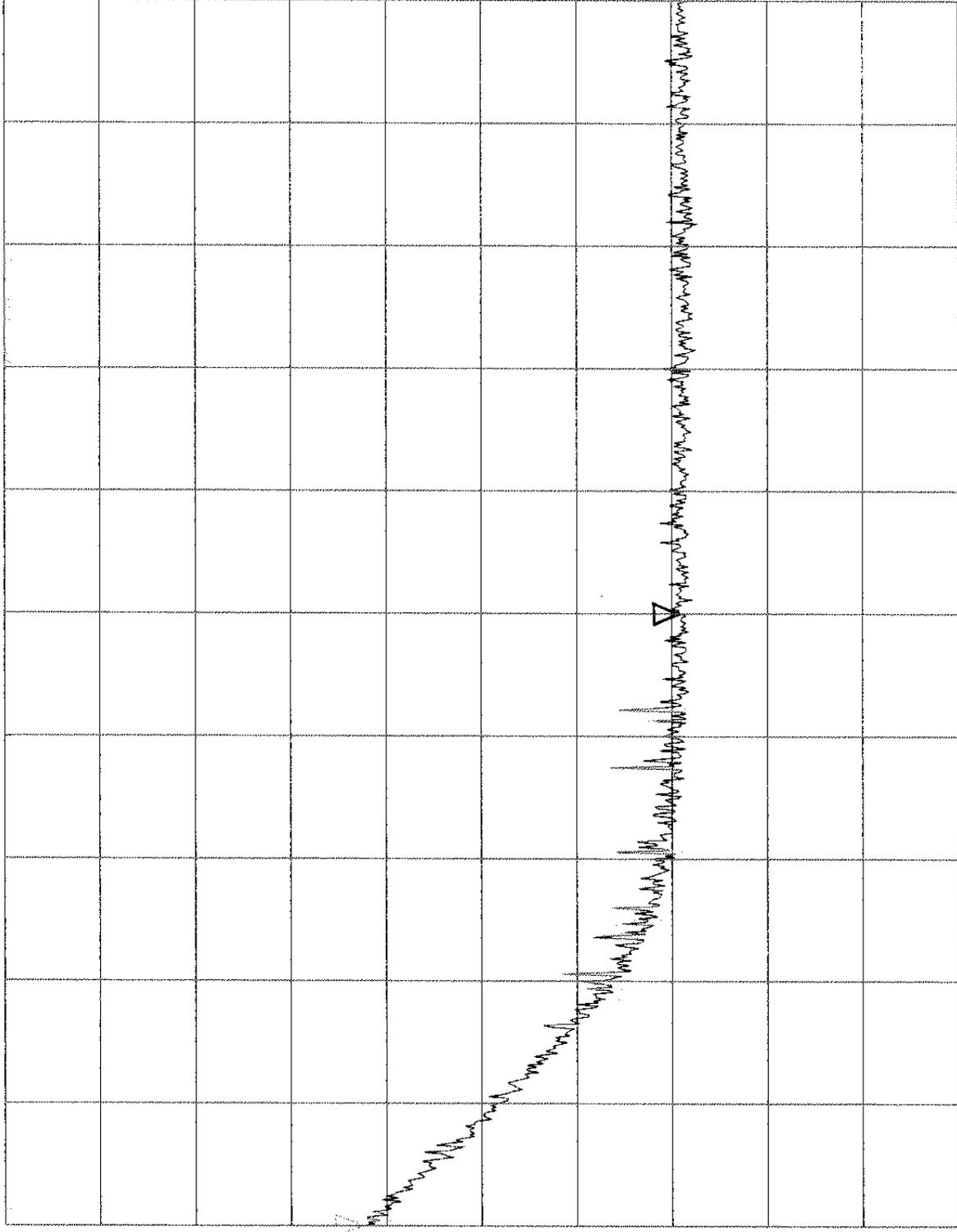
VBW 1MHz

STOP 2.395000GHz
SWP 50ms

A27

Sony Corporation/Model: DLXA-002/FCC ID: AK8DLXA002
15.247(c) BandEdges/2474MHz (HOR:PK) /22AE0045-YW
REF 117 dBuV
ATT 20 dB

MAKER
2.4835 GHz
46.00 dBuV



10dB/

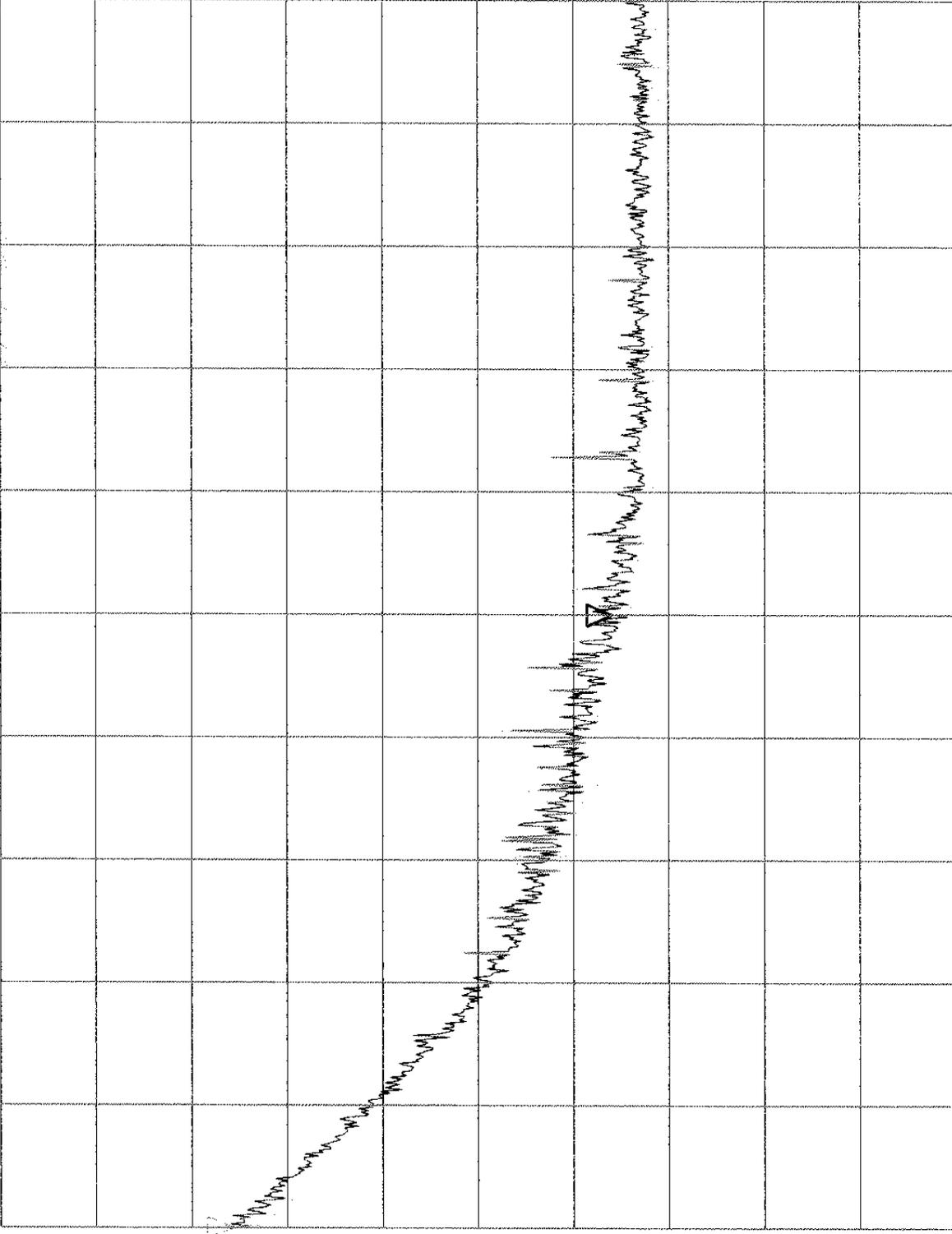
START 2.478500GHZ
RBW 1MHz

VBW 1MHz

STOP 2.488500GHZ
SWP 50ms

Sony Corporation/Model: DLXA-002/FCC ID: AK8DLXA002
15.247(c) BandEdges/2474MHz (VER: PK) /22AE0045-YW
REF 117 dBuV
ATT 20 dB

MAKER
2.4835 GHz
52.75 dBuV



10dB/

START 2.478500GHZ
RBW 1MHZ

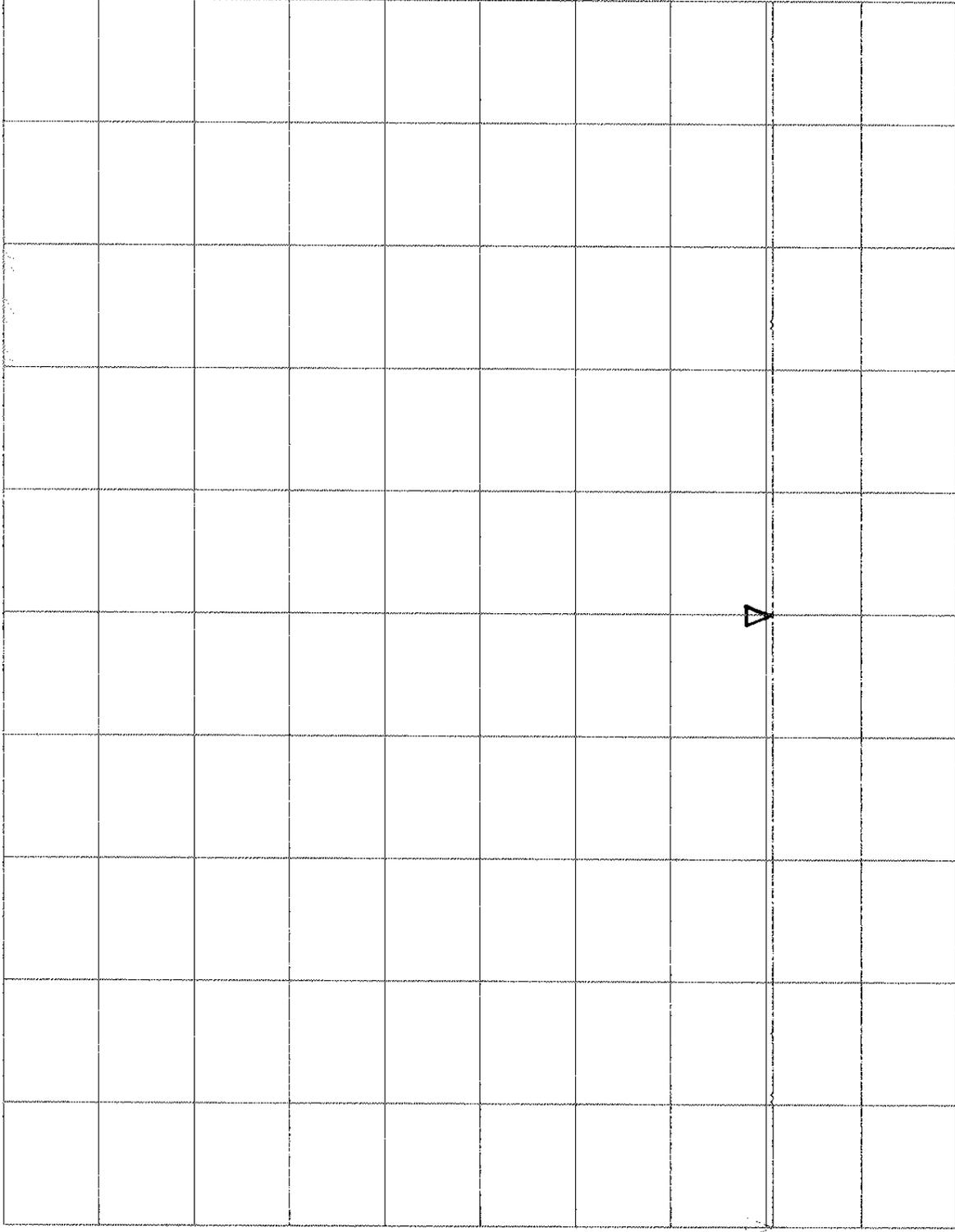
STOP 2.488500GHZ
SWP 50ms

A 29

Sony Corporation/Model:DLXA-002/FCC ID:AK8DLXA002
15.247(c)BandEdges/2406MHz (HOR:AV) /22AE0045-YW
REF 117 dBuV
ATT 20 dB

NAKER
2.3900 GHz
36.25 dBuV

10dB/



START 2.385000GHZ
RBW 1MHz

VBW 10Hz

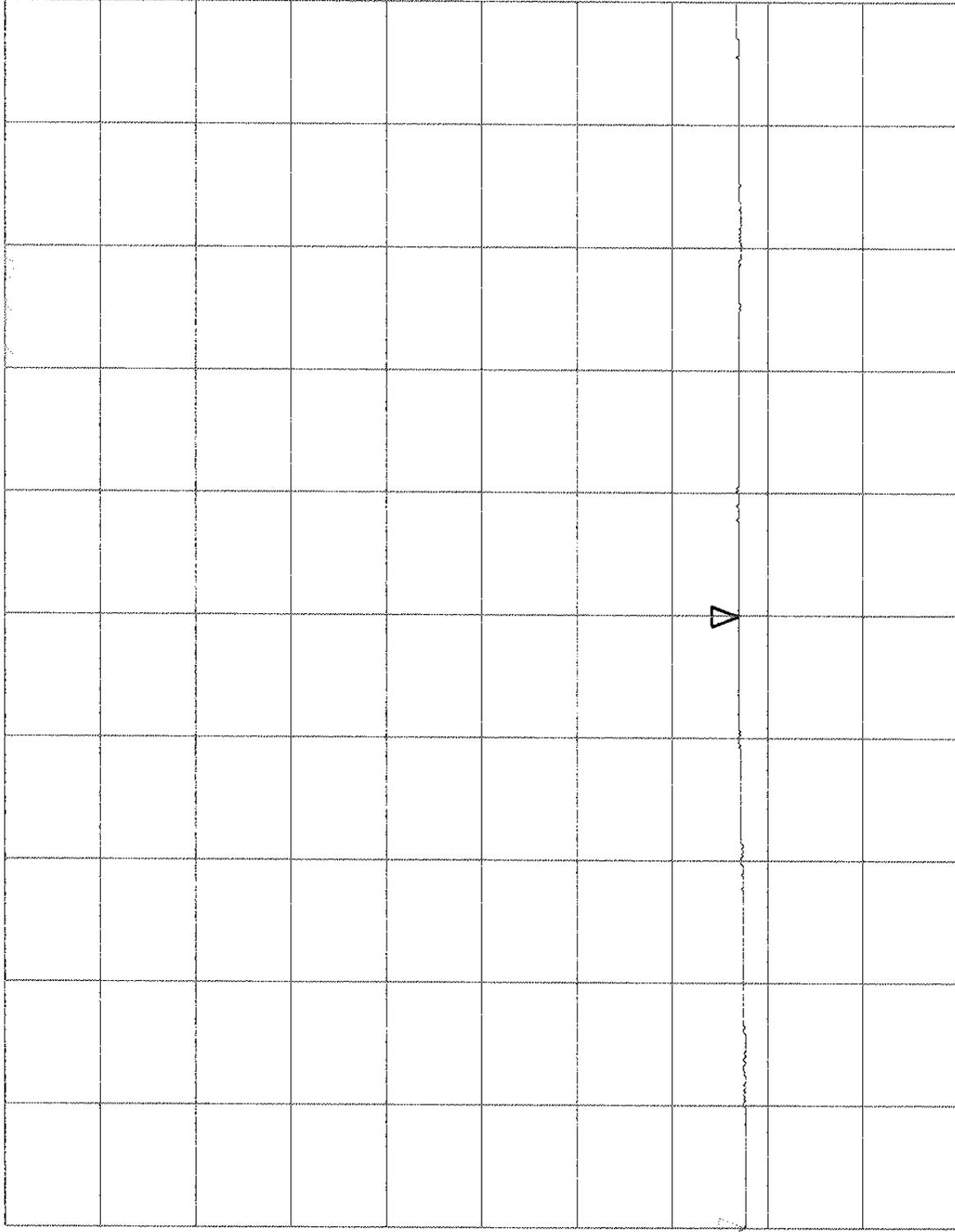
STOP 2.395000GHZ
SWP 2s

A 30

Sony Corporation/Model: DLXA-002/FCC ID: AK8DLXA002
15.247(c) BandEdges/2406MHz (VER: AV) /22AE0045-YW
REF 117 dBuV
ATT 20 dB

MAKER
2.3900 GHz
40.00 dBuV

10dB/



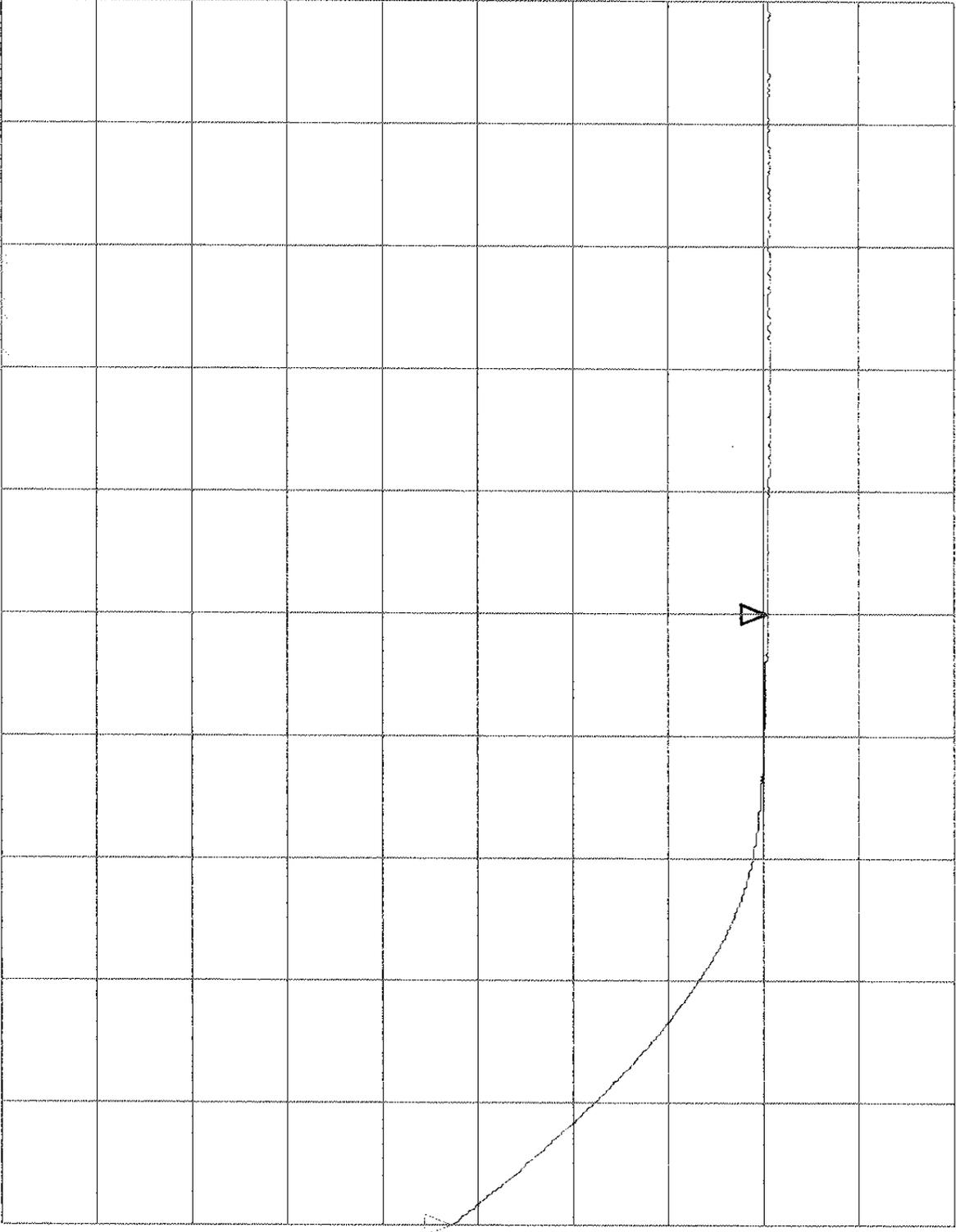
START 2.385000GHz
RBW 1MHz

VBW 10Hz

STOP 2.395000GHz
SWP 2s

Sony Corporation/Model: DLXA-002/FCC ID: AK8DLXA002
15.247(c) BandEdges/2474MHz (HOR: AV) /22AE0045-YW
REF 117 dBuV
ATT 20 dB

MAKER
2.4835 GHz
36.50 dBuV



10dB/

START 2.478500GHz
RBW 1MHz

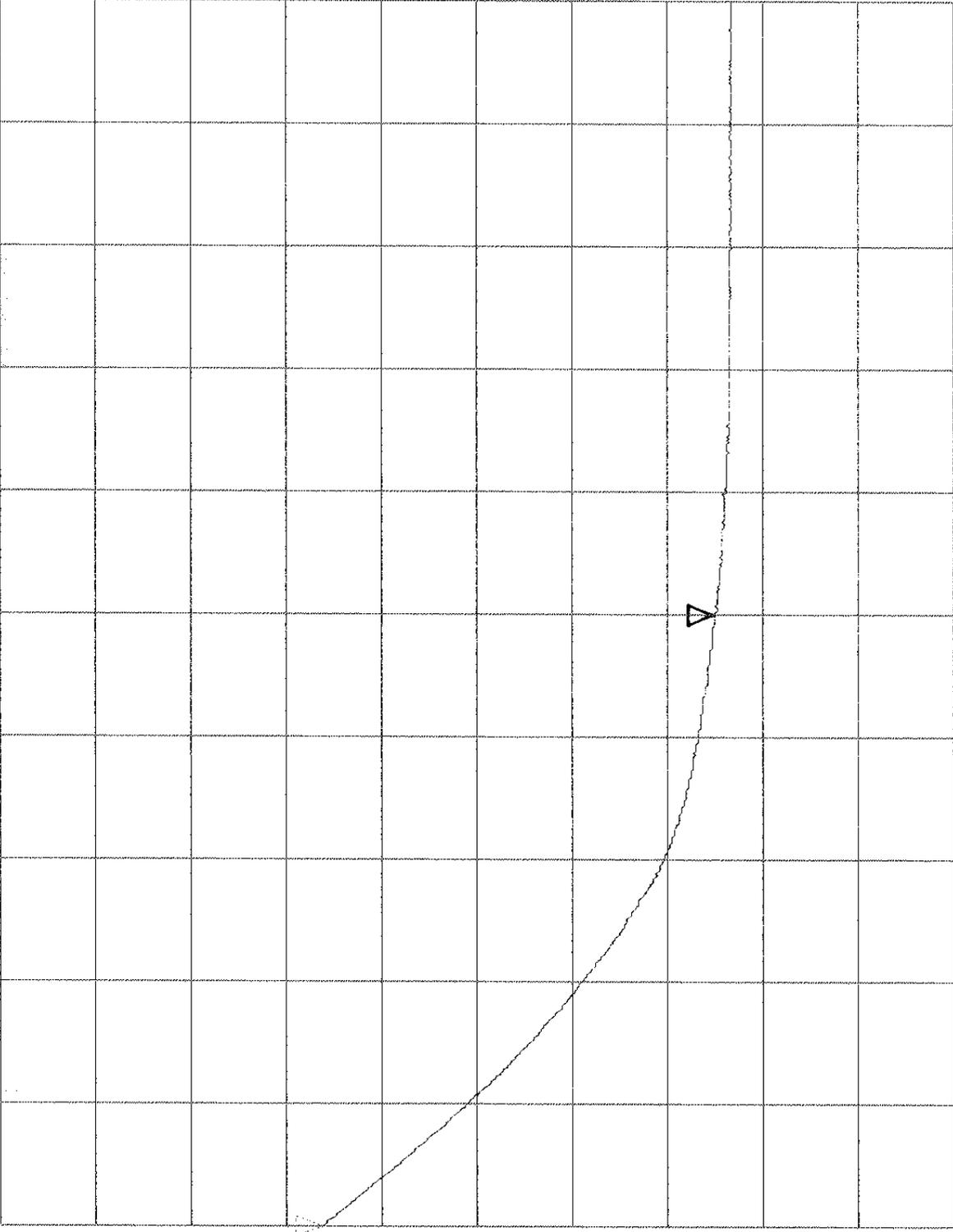
VBW 10Hz

STOP 2.488500GHz
SWP 2s

A 82

Sony Corporation/Model: DLXA-002/FCC ID: AK8DLXA002
15.247(c) BandEdges/2474MHz (VER: AV) /22AE0045-YW
REF 117 dBuV
ATT 20 dB

MAKER
2.4835 GHz
42.00 dBuV



10dB/

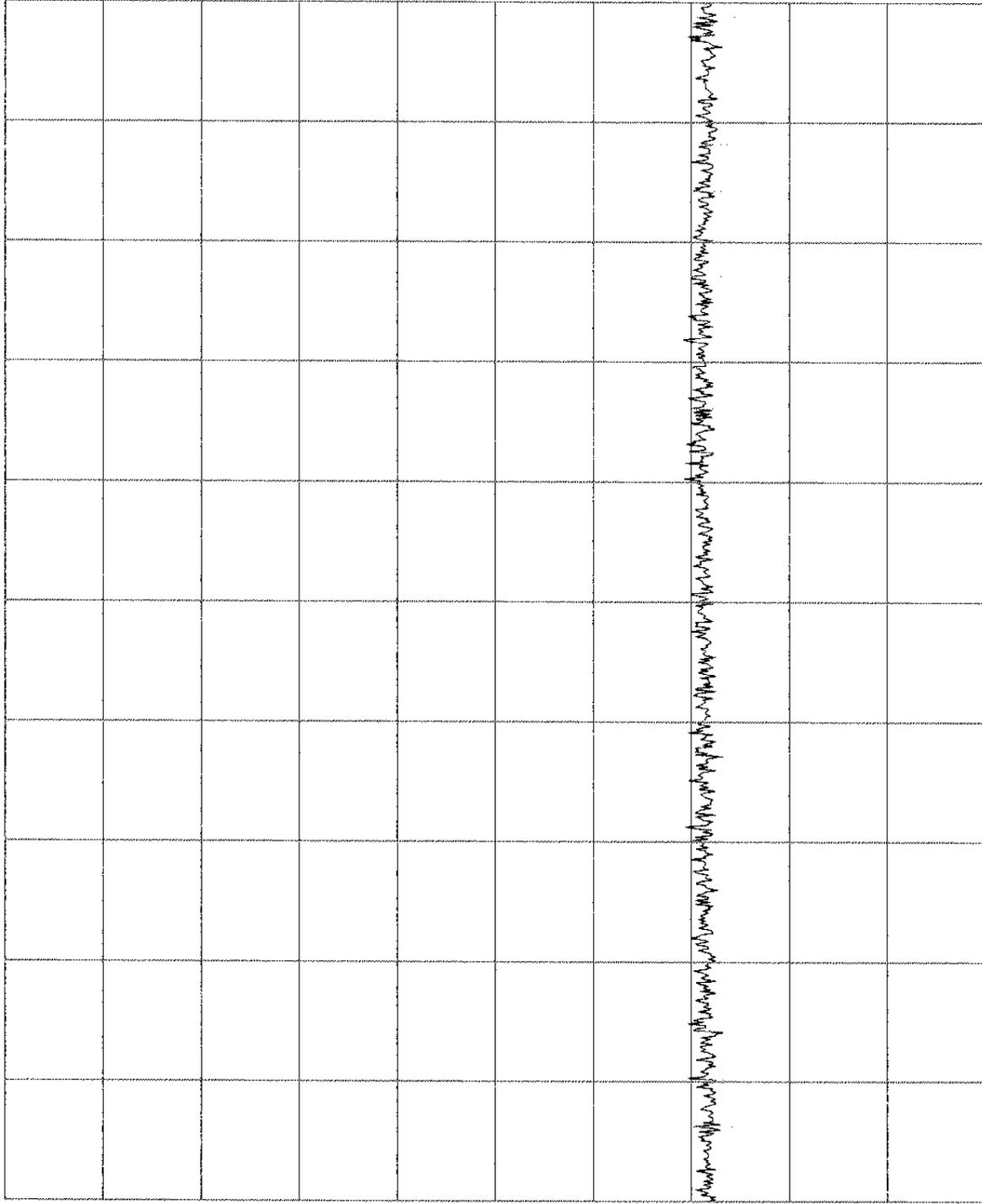
START 2.478500GHz
RBW 1MHz

VBW 10Hz

STOP 2.488500GHz
SWP 2s

Sony Corporation/Model : DLXA-002/FCC ID: AK8DLXA002
15.247(c) OutOfBand (30-1000MHz) / 2406MHz / 22AE0045-YW
REF 117 dBuV
ATT 30 dB

10dB/



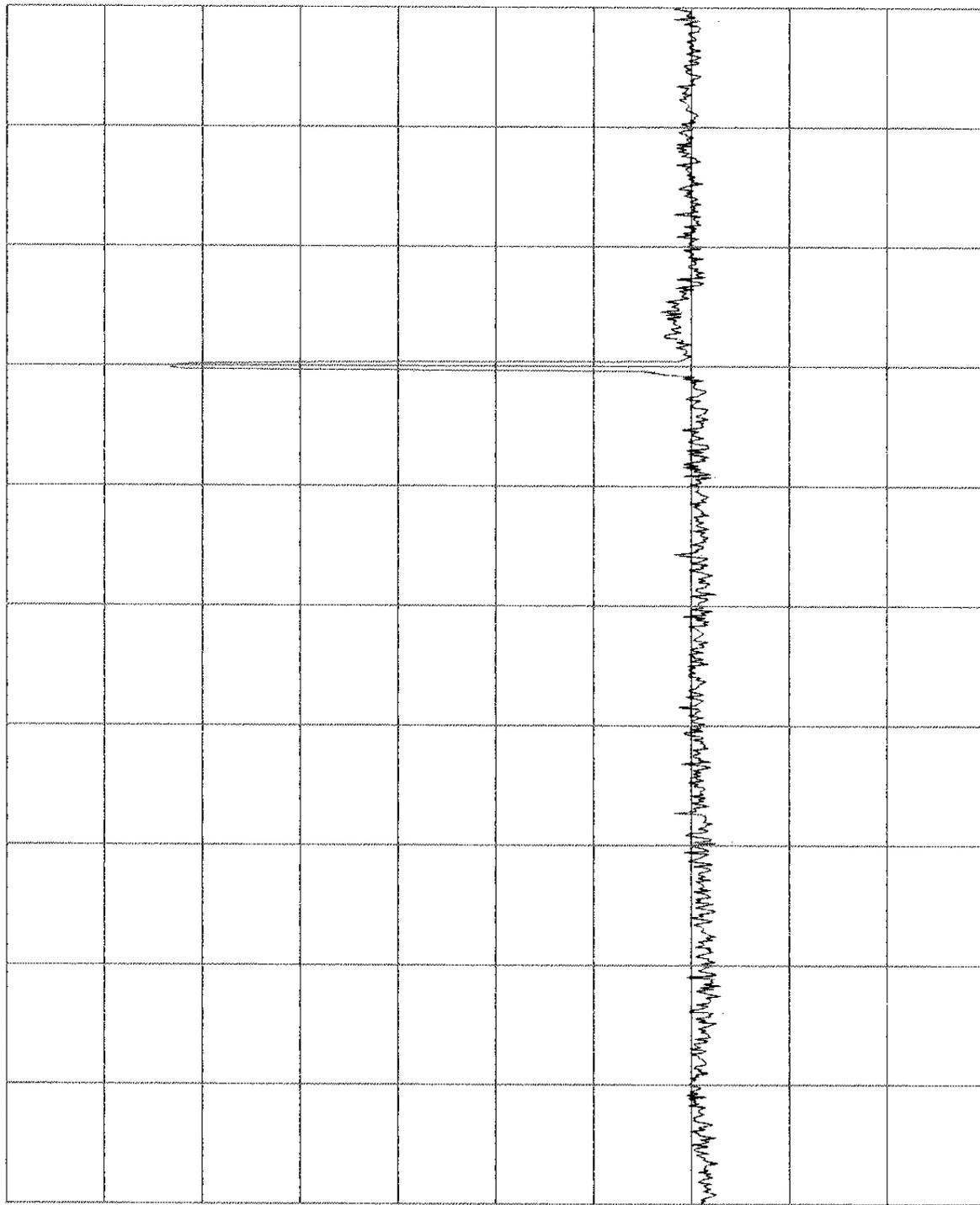
START 30.00MHz
RBW 100kHz

STOP 1.000000GHz
SWP 500ms

VBW 100kHz

Sony Corporation/Model: DLXA-002/FCC ID: AK8DLXA002
15.247(c) OutOfBand (1-3GHz)/2406MHz/22AE0045-YW
REF 117 dBuV
ATT 30 dB

10dB/



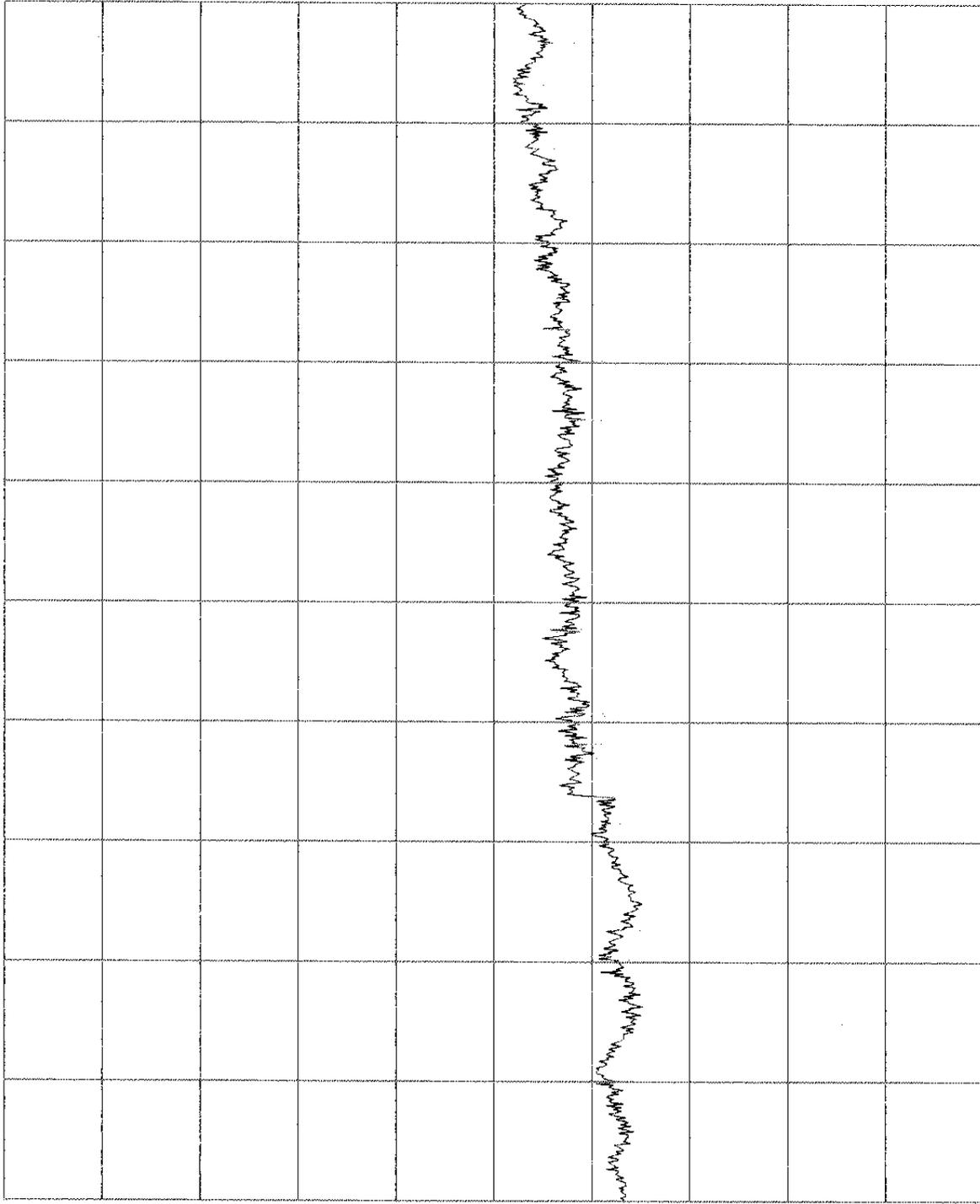
START 1.000000GHZ
RBW 100KHZ

VBW 100KHZ

STOP 3.000000GHZ
SWP 1s

Sony Corporation/Model :DLXA-002/FCC ID:AK8DLXA002
15.247(c) OutOfBand (10-26GHz) /2406MHz/22AE0045-YW
REF 117 dBuV ATT 30 dB

10dB/



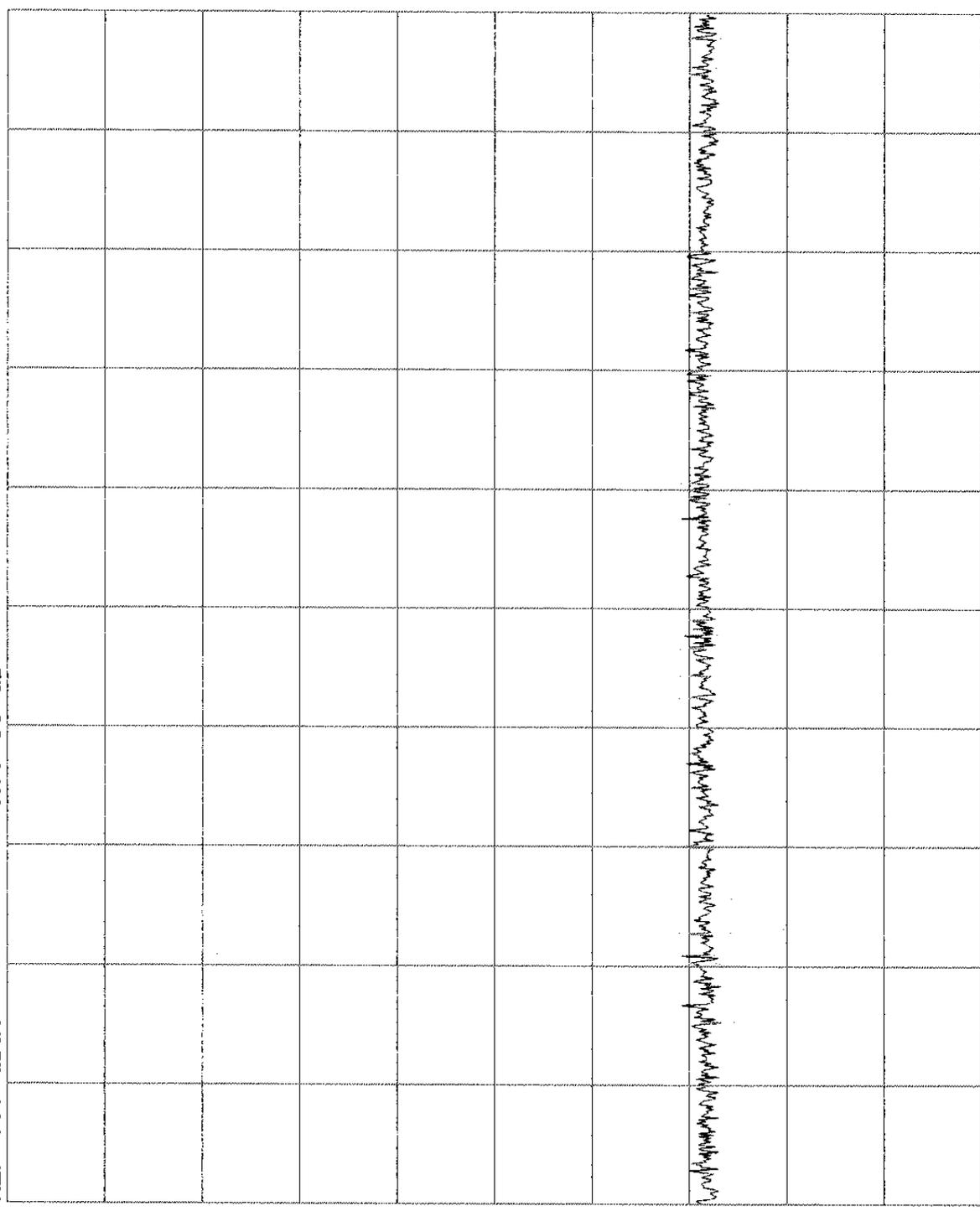
START 10.000000GHZ
RBW 100kHz

STOP 26.000000GHZ
SWP 5s

VBW 100kHz

Sony Corporation/Model:DLXA-002/FCC ID:AK8DLXA002
15.247(G) OutOfBand(30-1000MHz)/2442MHz/22AE0045-YW
REF 117 dBuV
ATT 30 dB

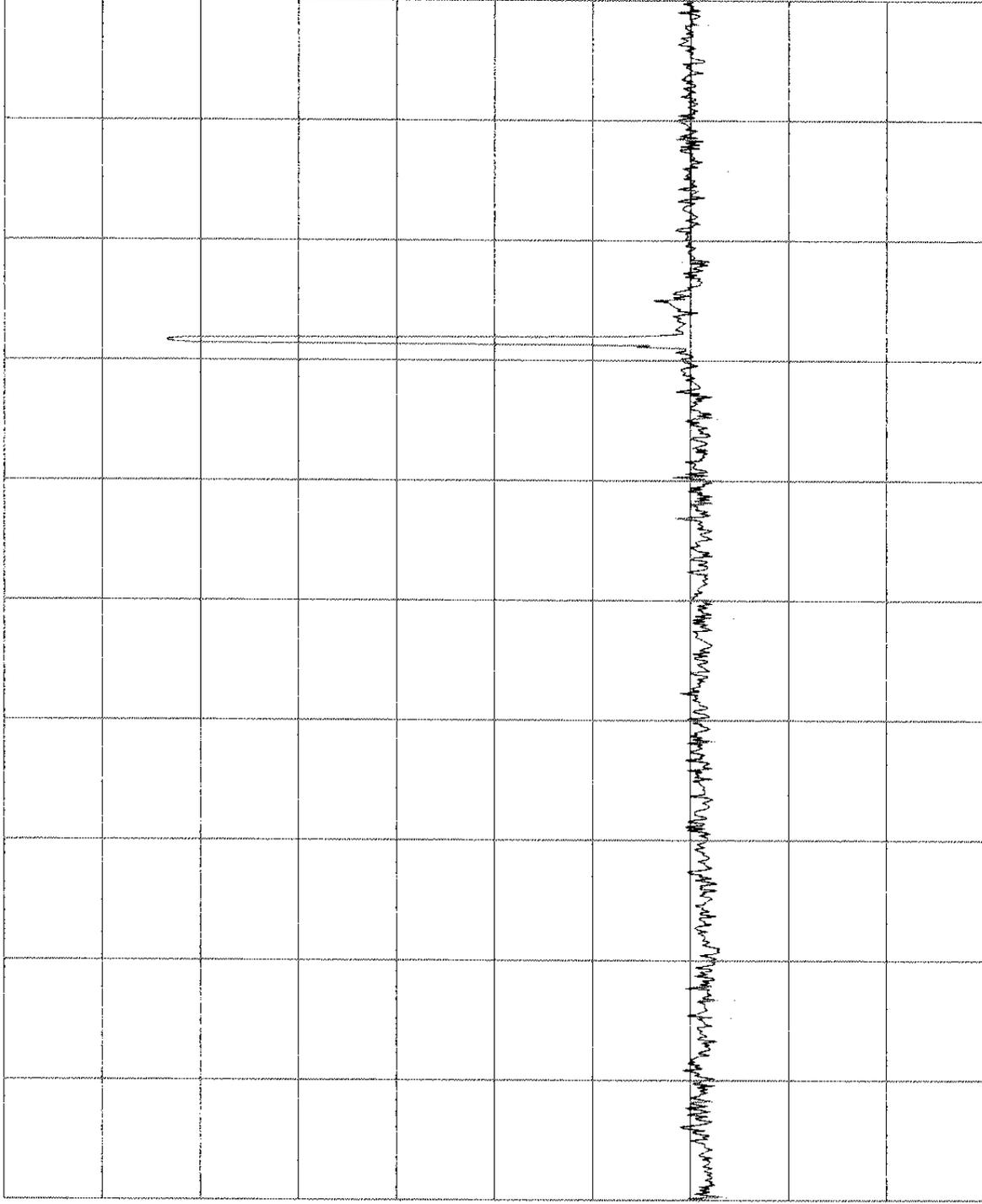
10dB/



START 30.00MHz RBW 100kHz
STOP 1.000000GHz SWP 500ms
VBW 100kHz

Sony Corporation/Model : DLXA-002/FCC ID: AK8DLXA002
15.247(c) OutOfBand (1-3GHz) / 2442MHz / 22AE0045-YW
REF 117 dBuV
ATT 30 dB

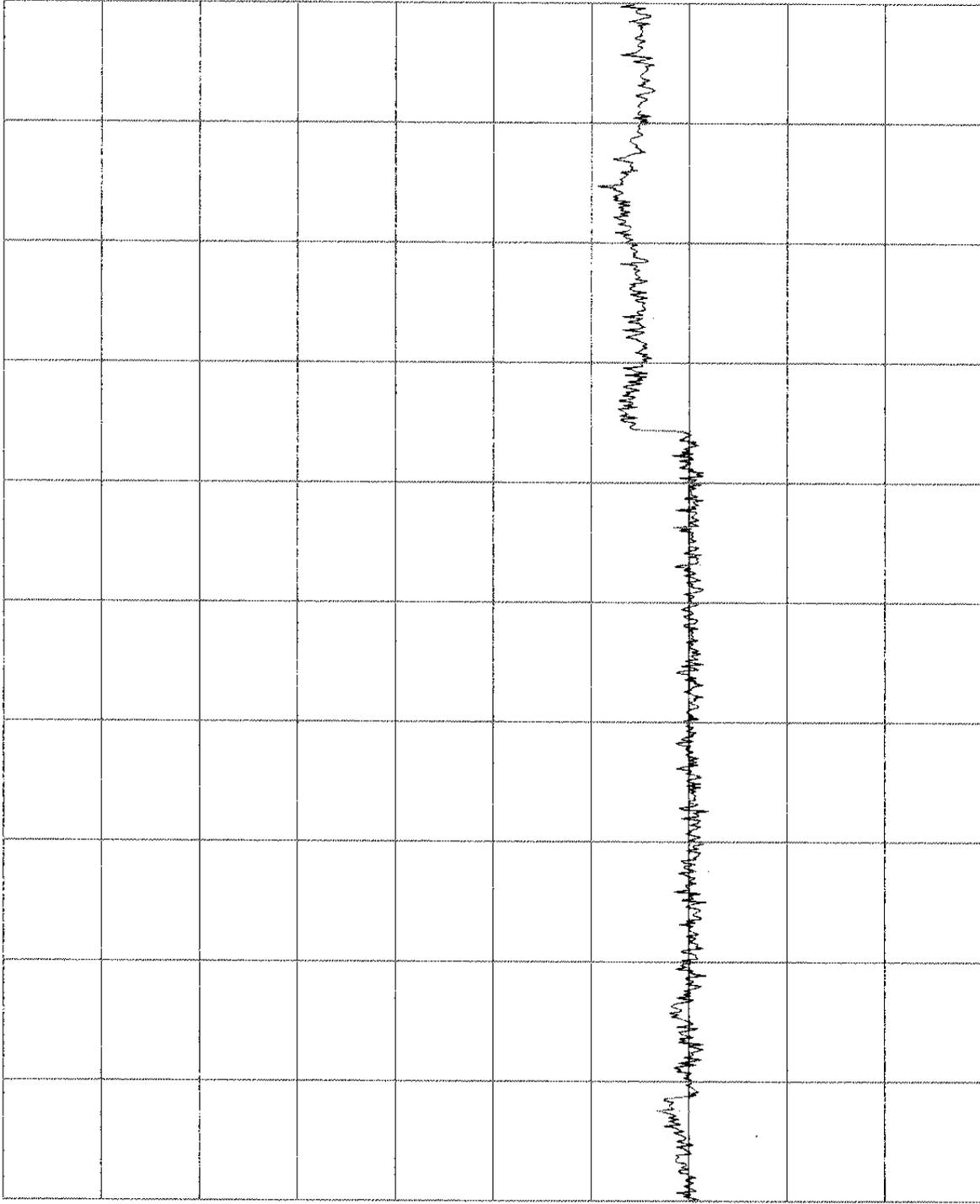
10dB/



START 1.000000GHZ
RBW 100kHz
STOP 3.000000GHZ
SWP 1s
VBW 100kHz

Sony Corporation/Model: DLXA-002/FCC ID: AK8DLXA002
15.247(G) OutOfBand (3-10GHz) / 2442MHz / 22AE0045-YW
REF 117 dBuV ATT 30 dB

10dB/



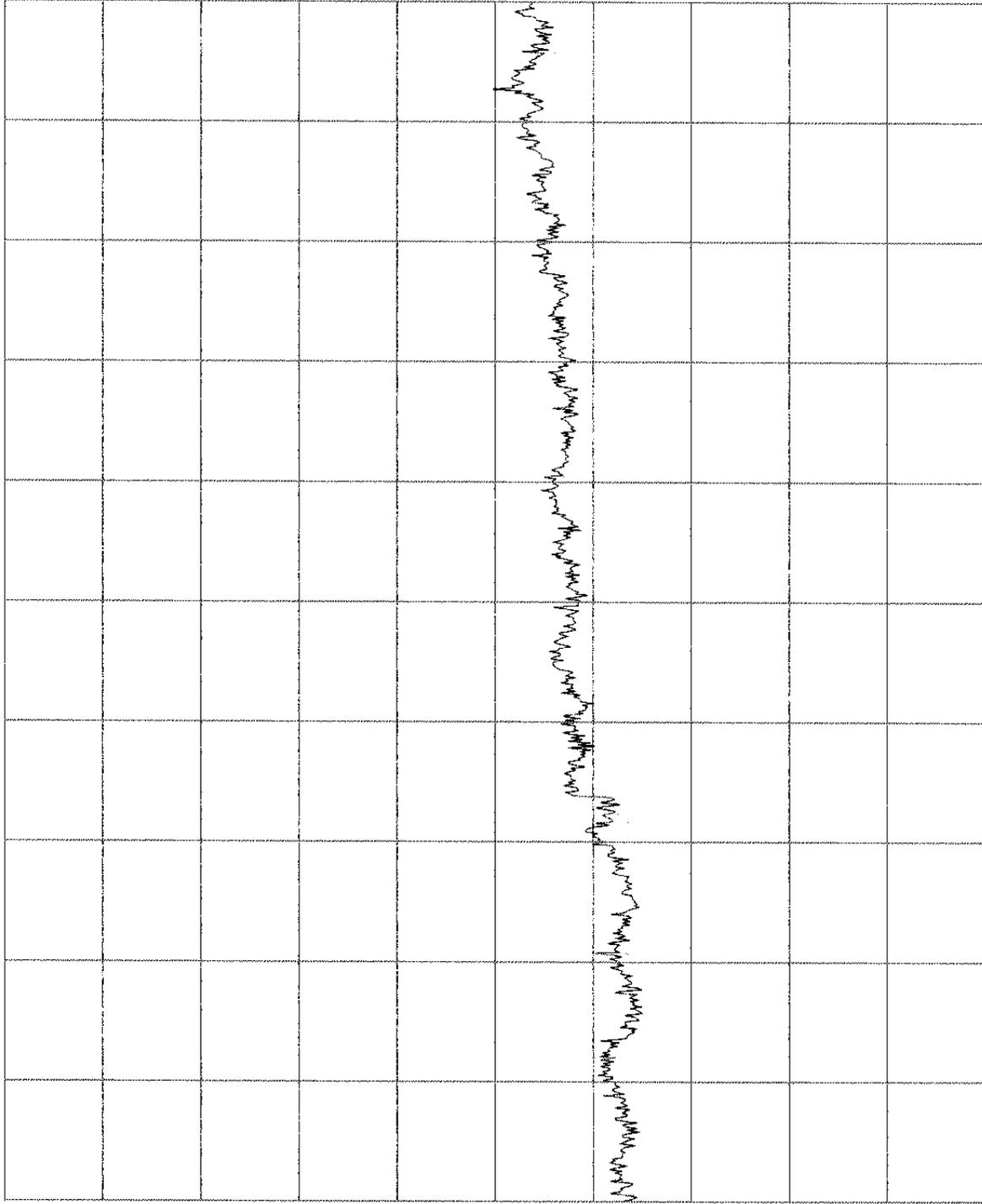
START 3.000000GHZ
RBW 100KHZ

STOP 10.000000GHZ
SWP 2s

VBW 100KHZ

Sony Corporation/Model:DLXA-002/FCC ID:AK8DLXA002
15.247(G) OutOfBand (10-26GHz)/2442MHz/22AE0045-YW
REF 117 dBuV
ATT 30 dB

10dB/



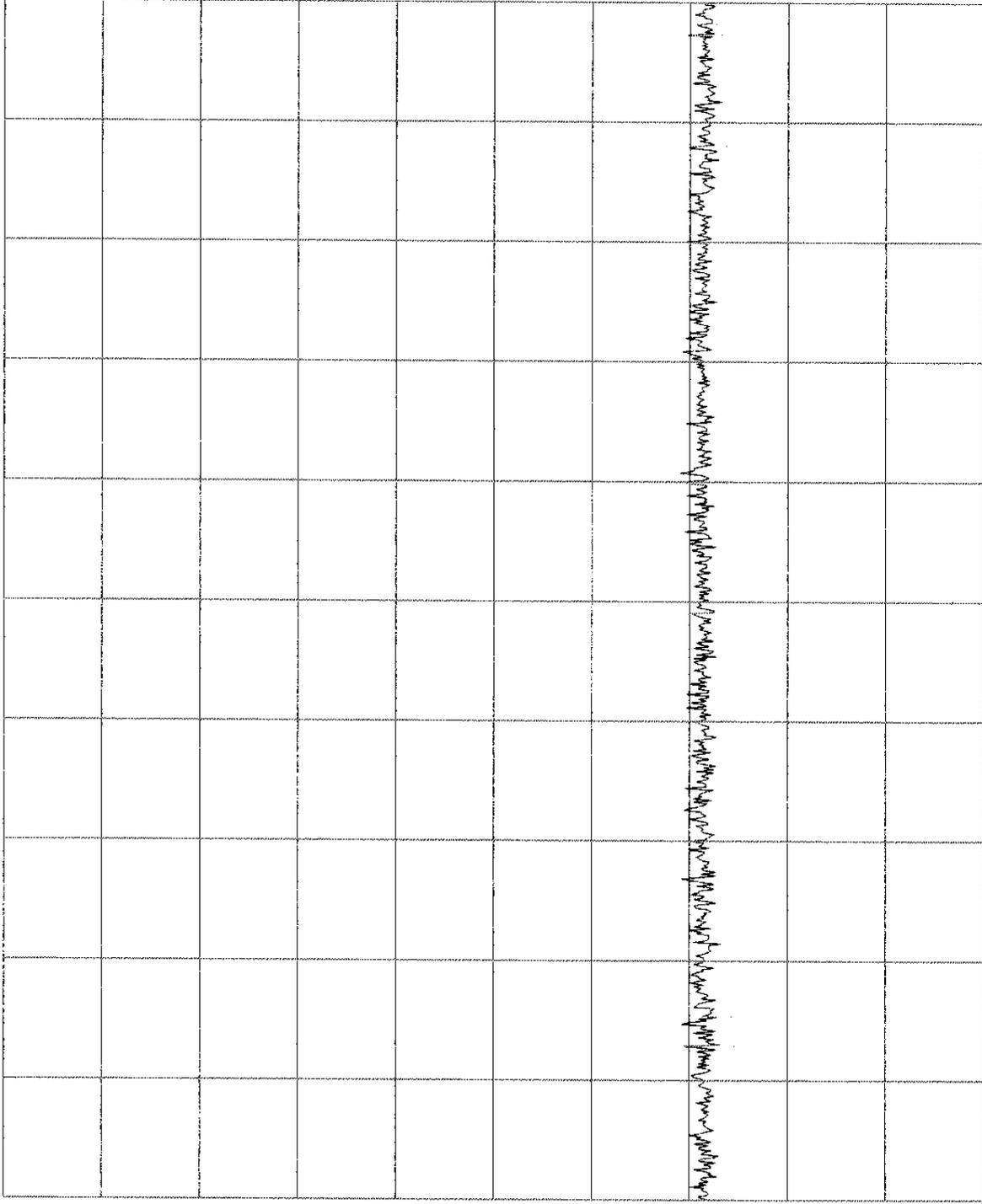
START 10.000000GHZ
RBW 100KHZ

STOP 26.000000GHZ
SWP 5s

VBW 100KHZ

Sony Corporation/Model: DLXA-002/FCC ID: AK8DLXA002
15.247(G) OutOfBand (30-1000MHz)/2474MHz/22AE0045-YW
REF 117 dBuV
ATT 30 dB

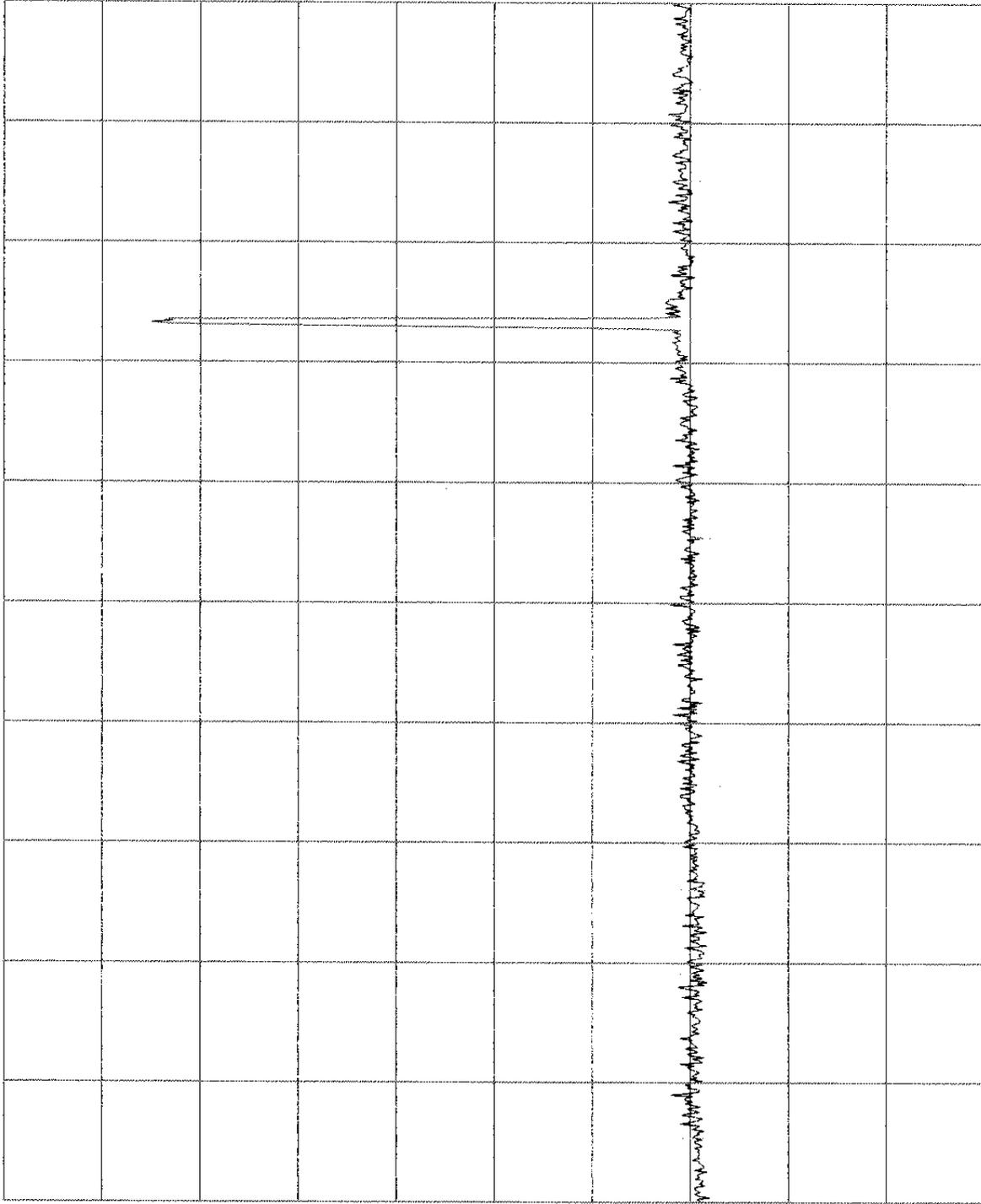
10dB/



START 30.00MHz RBW 100kHz
STOP 1.000000GHz SWP 500ms

Sony Corporation/Model: DLXA-002/FCC ID: AK8DLXA002
15.247(G) OutOfBand (1-3GHz) / 2474MHz / 22AE0045-YW
REF 117 dBuV
ATT 30 dB

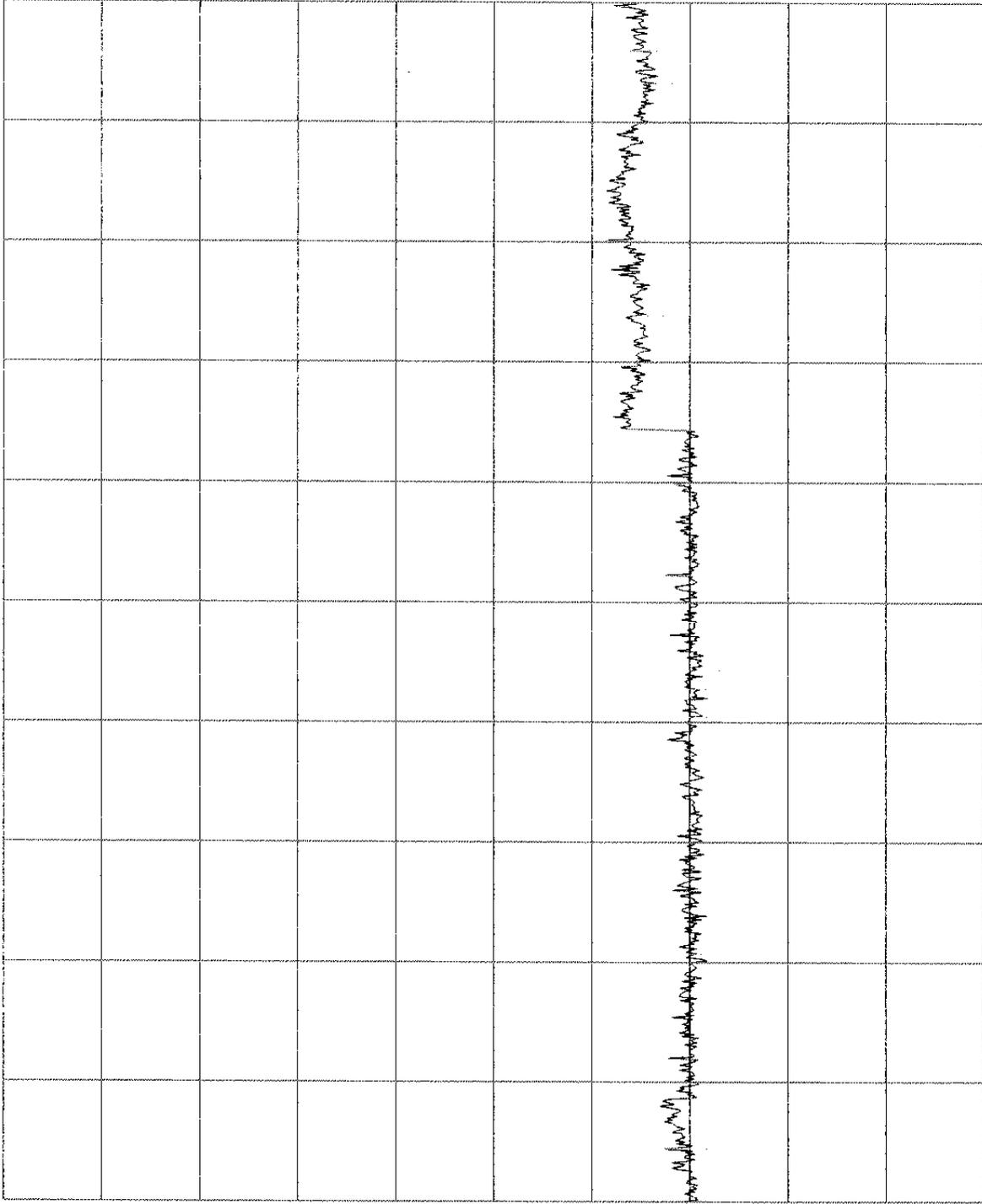
10dB/



START 1.000000GHZ
RBW 100KHZ
STOP 3.000000GHZ
SWP 1s
VBW 100KHZ

Sony Corporation/Model: DLXA-002/FCC ID: AK8DLXA002
15.247(c) OutOfBand (3-10GHz) / 2474MHz / 22AE0045-YW
REF 117 dBuV ATT 30 dB

10dB/



START 3.000000GHZ
RBW 100KHZ

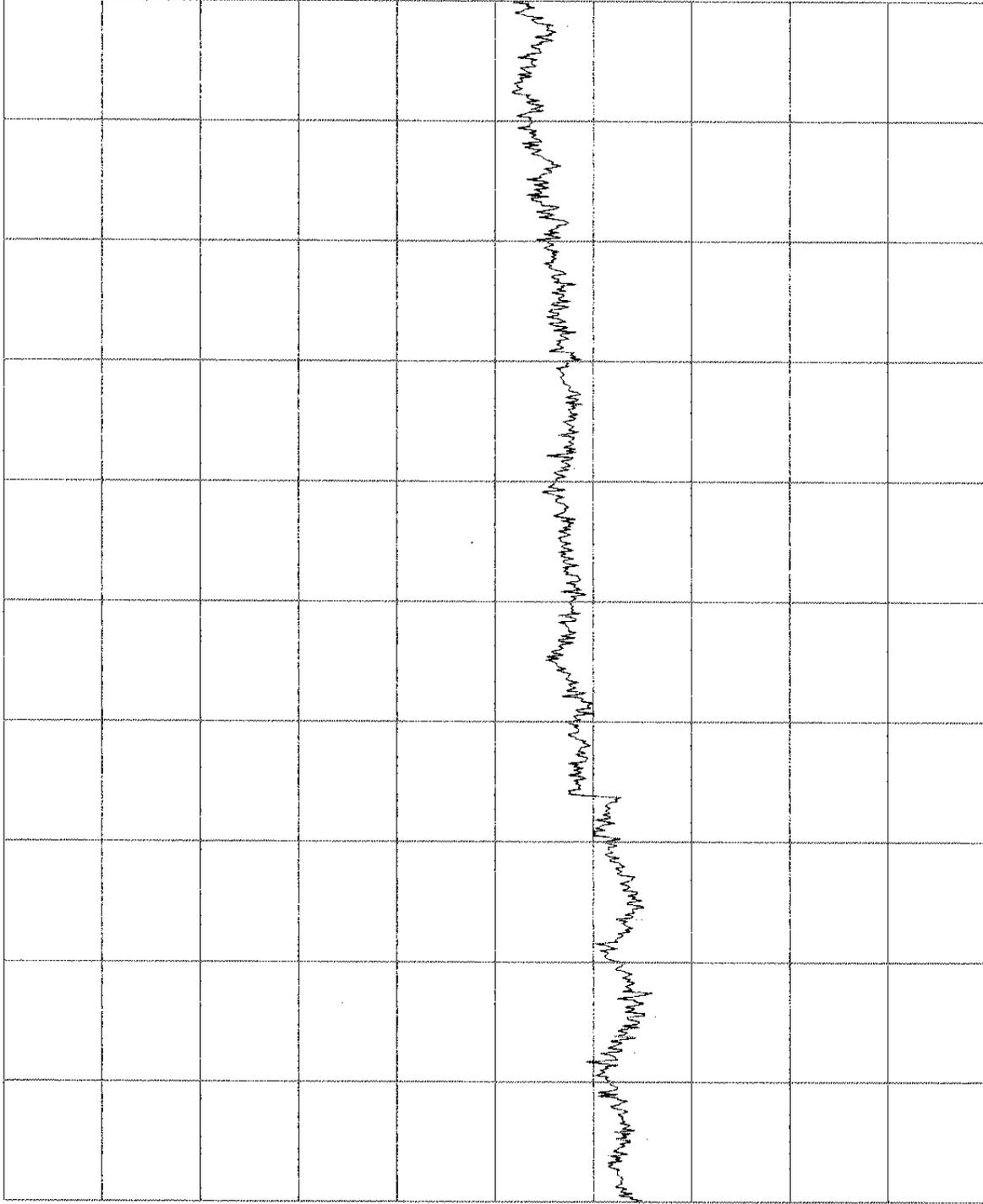
STOP 10.000000GHZ
SWP 2s

VBW 100KHZ

[Handwritten signature]
A 44

Sony Corporation/Model :DLXA-002/FCC ID:AK8DLXA002
15.247(c) OutOfBand (10-26GHz)/2474MHz/22AE0045-YW
REF 117 dBuV
ATT 30 dB

10dB/



START 10.000000GHZ
RBW 100KHZ

STOP 26.000000GHZ
SWP 5s

VBW 100KHZ

A 4 B

Power Density(Conducted)

A-PEX INTERNATIONAL CO., LTD.
YOKOWA NO.3 OPEN SITE

COMPANY : Sony Corporation
EQUIPMENT : MPEG Transmitter
MODEL : DLXA-002
FCC ID : AK8DLXA002
POWER : DC12V(AC120V/60Hz)
Mode : Transmitting

REPORT NO : 22AE0045-YW
REGULATION : Fcc Part15SubpartC 247(d)
DATE : 2001/10/26
Temp./Humi. : 20°C/39%

ENGINEER : Naoki. Sakamoto

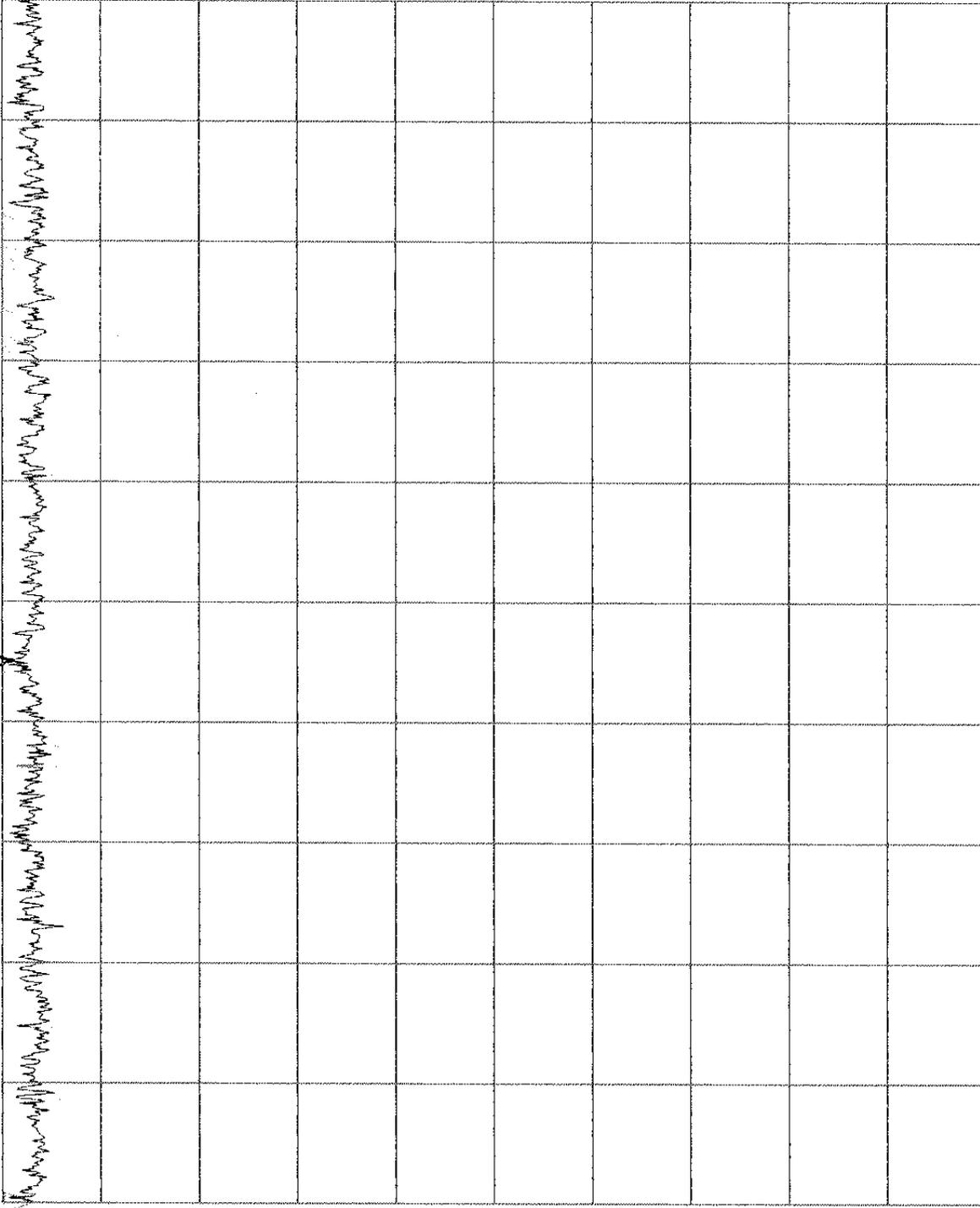
Ch	FREQ [GHz]	S/A Reading [dBuV]	Cable Loss [dB]	ATTEN. [dB]	Result [dBm]	Limit (1W) [dBm]	Margin [dB]
Low	2.4060	86.5	0.5	10.0	-10.0	8.0	18.0
Mid	2.4420	86.4	0.5	10.0	-10.1	8.0	18.1
High	2.4740	86.9	0.5	10.0	-9.6	8.0	17.6

Sample Calculation :

RESULT=Reading(-107:Converted to dBm) + CABLE LOSS + ATTEN.

Sony Corporation/Model : DLXA-002/FCC ID: AK8DLXA002
15.247(d) Power Density/2406MHz/22AE0045-YW
REF 87 dBuV
ATT 10 dB

MAKER
2.4060 GHz
86.50 dBuV



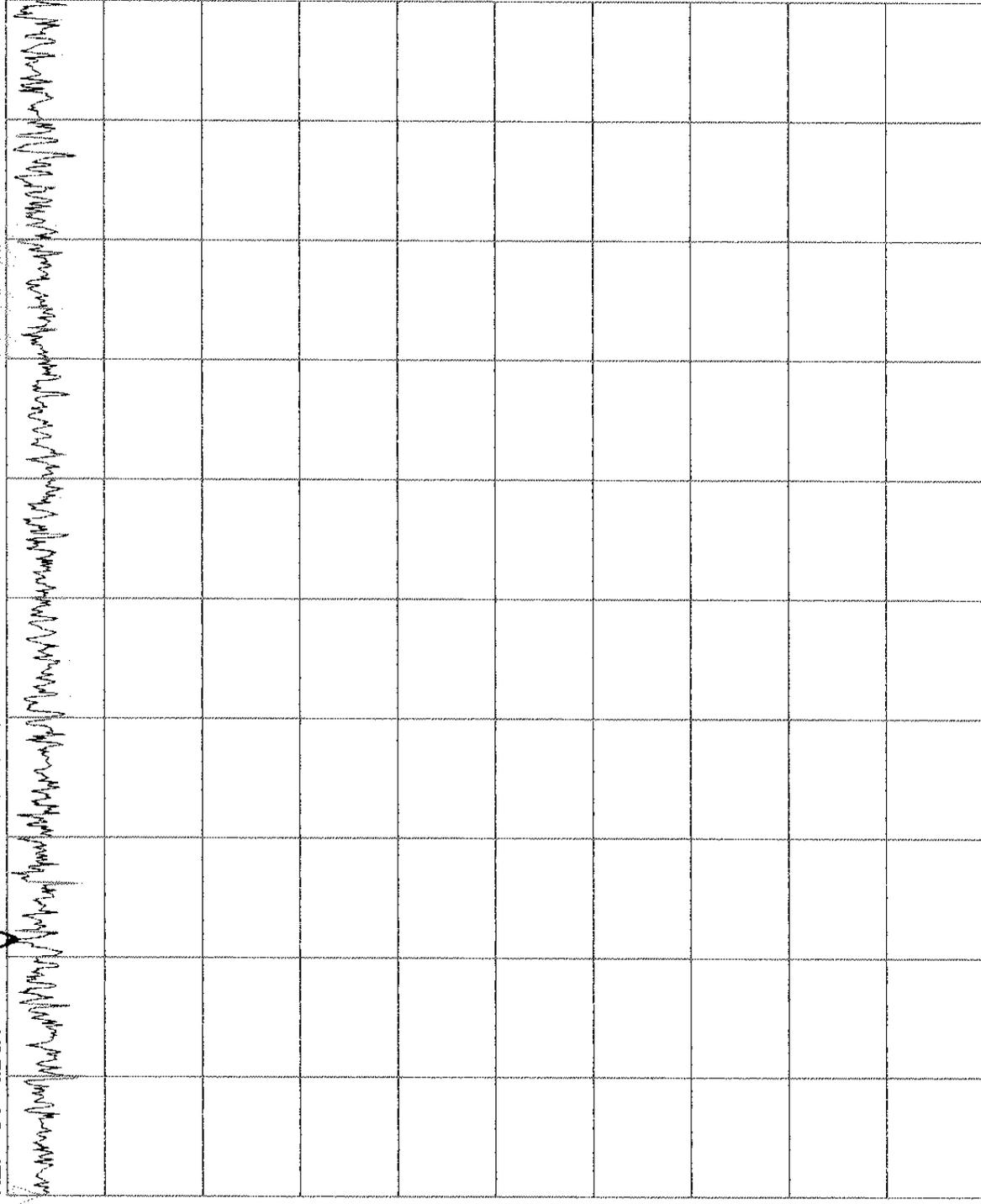
5dB/

START 2.405500GHZ
RBW 3kHz

VBW 10kHz

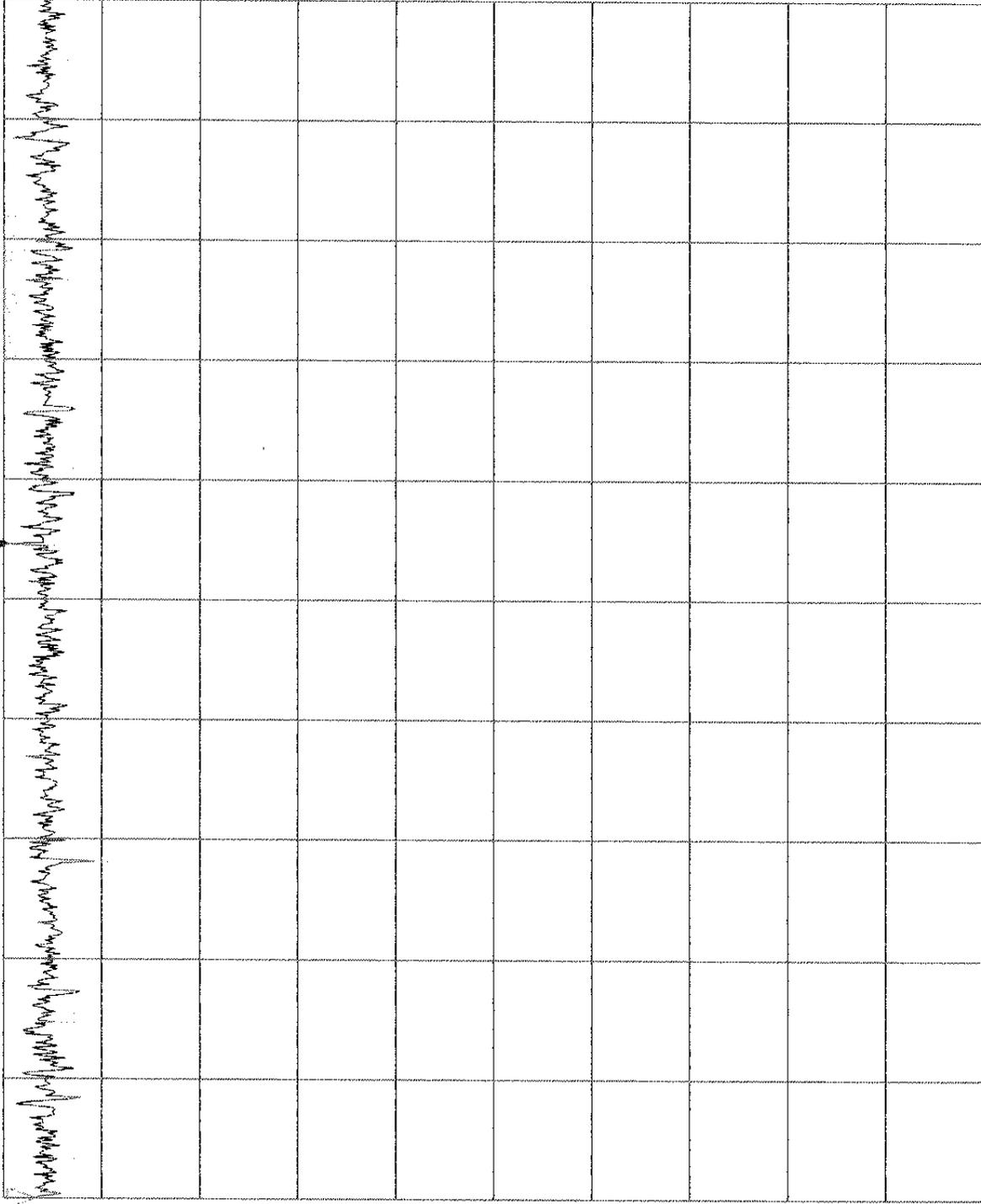
STOP 2.406500GHZ
SWP 500s

Sony Corporation/Model:DLXA-002/FCC ID:AK8DLXA002
15.247(d) PowerDensity/2442MHz/22AE0045-YW
REF 87 dBuV
ATT 10 dB
86.38 dBuV
2.4417 GHz



Sony Corporation/Model: DLXA-002/FCC ID: AK8DLXA002
15.247(d) Power Density/2474MHz/22AE0045-YW
REF 87 dBuV
ATT 10 dB
MAKER
2.4740 GHz
86.88 dBuV

5dB/



START 2.473500GHZ
RBW 3kHz

STOP 2.474500GHZ
SWP 500s

VBW 10kHz

A 49