

9.4 Measurement Data

Test Date : Feb. 17, 2003 Temperature : 19 Humidity: 63 %

- a) Lower Band Edge : maximum value is -49.33 dBm that is attenuated more than 20 dB
- b) Upper Band Edge : maximum value is -31.50 dBm that is attenuated more than 20 dB

Note : 1. Please see appendix 4 for Plotted Data

2. The expanded uncertainty of the 100 kHz bandwidth of band edges tests is 2dB.

10 POWER DENSITY MEASUREMENT

10.1 Standard Applicable

According to 15.247(d), for direct sequence systems, the transmitted power density averaged over any 1 second interval shall not be greater than 8 dBm in any 3 kHz bandwidth within these bands.

10.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 4 without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set EUT to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Adjust the center frequency of spectrum analyzer on highest level appearing on spectral display within a 300 kHz frequency span.
4. Set the spectrum analyzer on a 3 kHz resolution bandwidth and 300 kHz video bandwidth as well as max. hold function.
5. Repeat above procedures until all measured frequencies were complete.

10.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Hewlett-Packard	8564E	04/14/2003
Attenuator	Weinschel Engineering	1	N/A
Plotter	Hewlett-Packard	7440A	N/A

10.4 Measurement Data

Test Date : Feb. 17, 2003 Temperature : 19 Humidity: 63 %

- a) Channel 01 : Maximun Power Density of 3 kHz Bandwidth is -5.00dBm
- b) Channel 06 : Maximun Power Density of 3 kHz Bandwidth is -5.00dBm
- c) Channel 11 : Maximun Power Density of 3 kHz Bandwidth is -6.17dBm

Note : 1. Please see appendix 5 for Plotted Data

2. The expanded uncertainty of the power density tests is 2dB.

Appendix 1 : Ploted Datas of Power Line Conducted Emissions

CONDUCTION EMISSION TEST

Peak Value

EUT:

Manuf:

Op Cond: CH1

Operator:

Test Spec:

Comment:

N

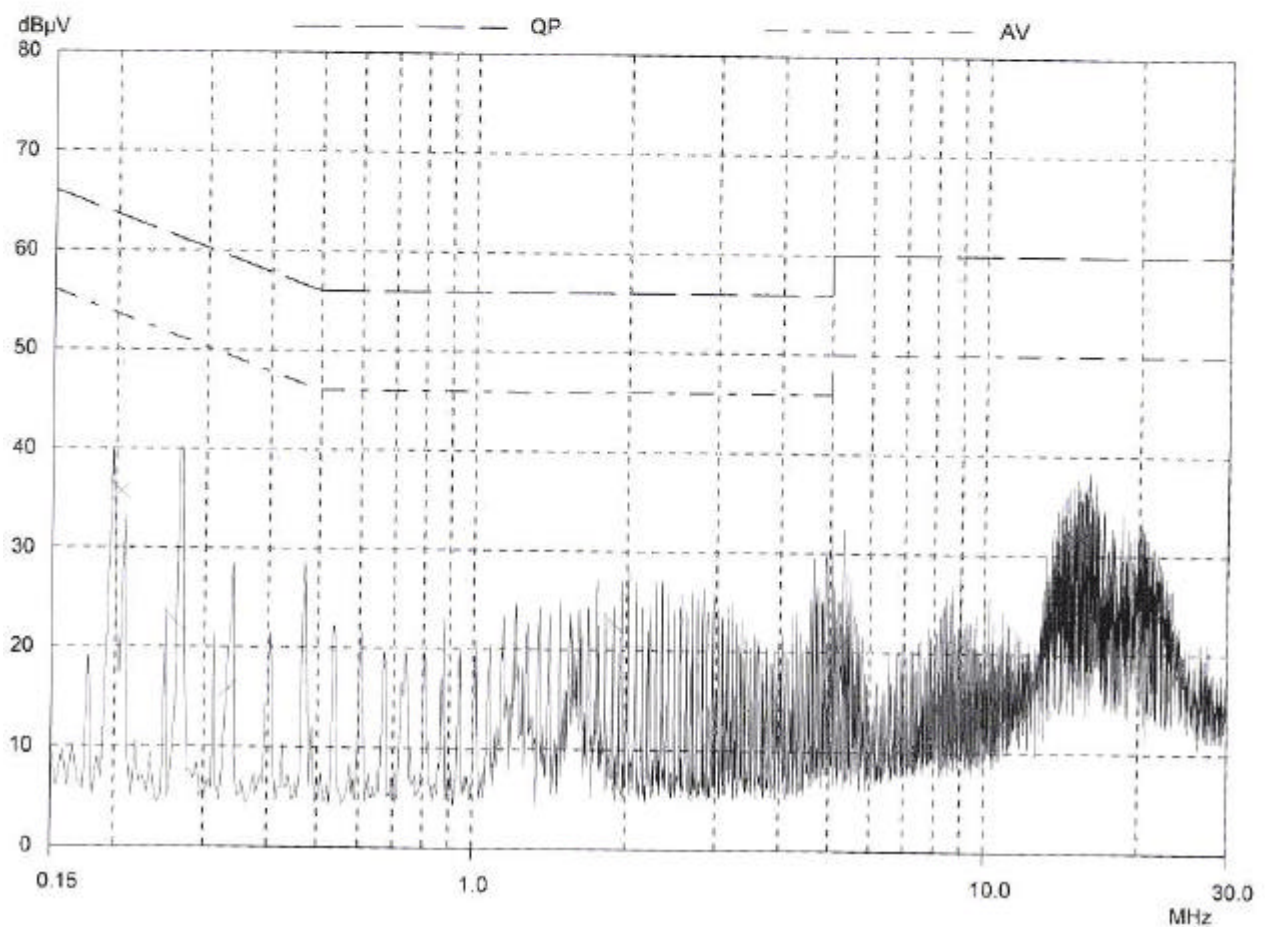
Final Measurement:

Detector: X QP

Meas Time: 1sec

Peaks: 8

Acc Margin: 25 dB



CONDUCTION EMISSION TEST

Peak Value

EUT:

Manuf:

Op Cond: CH1

Operator:

Test Spec:

Comment:

L1

Final Measurement:

Detector:

X QP

Meas Time:

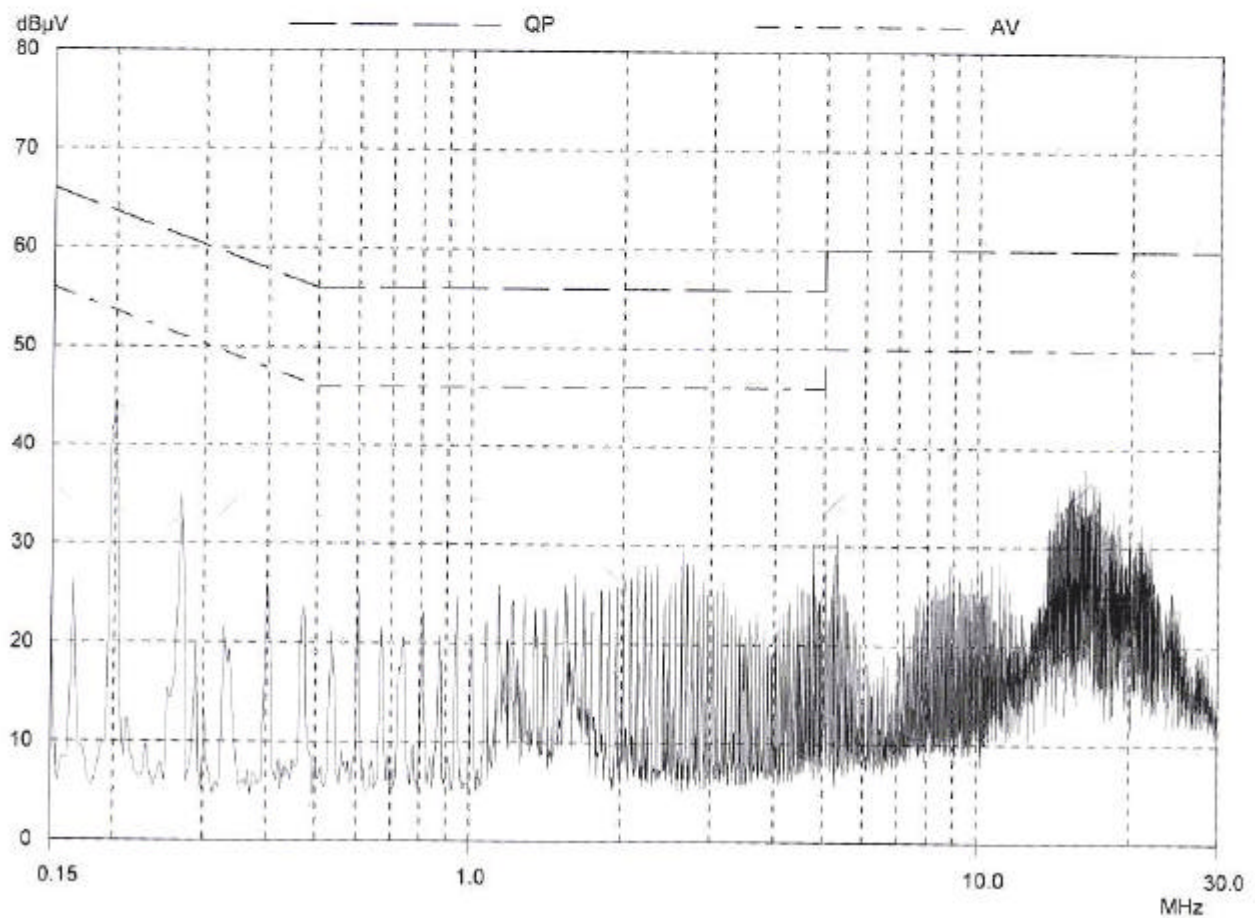
1sec

Peaks:

8

Acc Margin:

25 dB

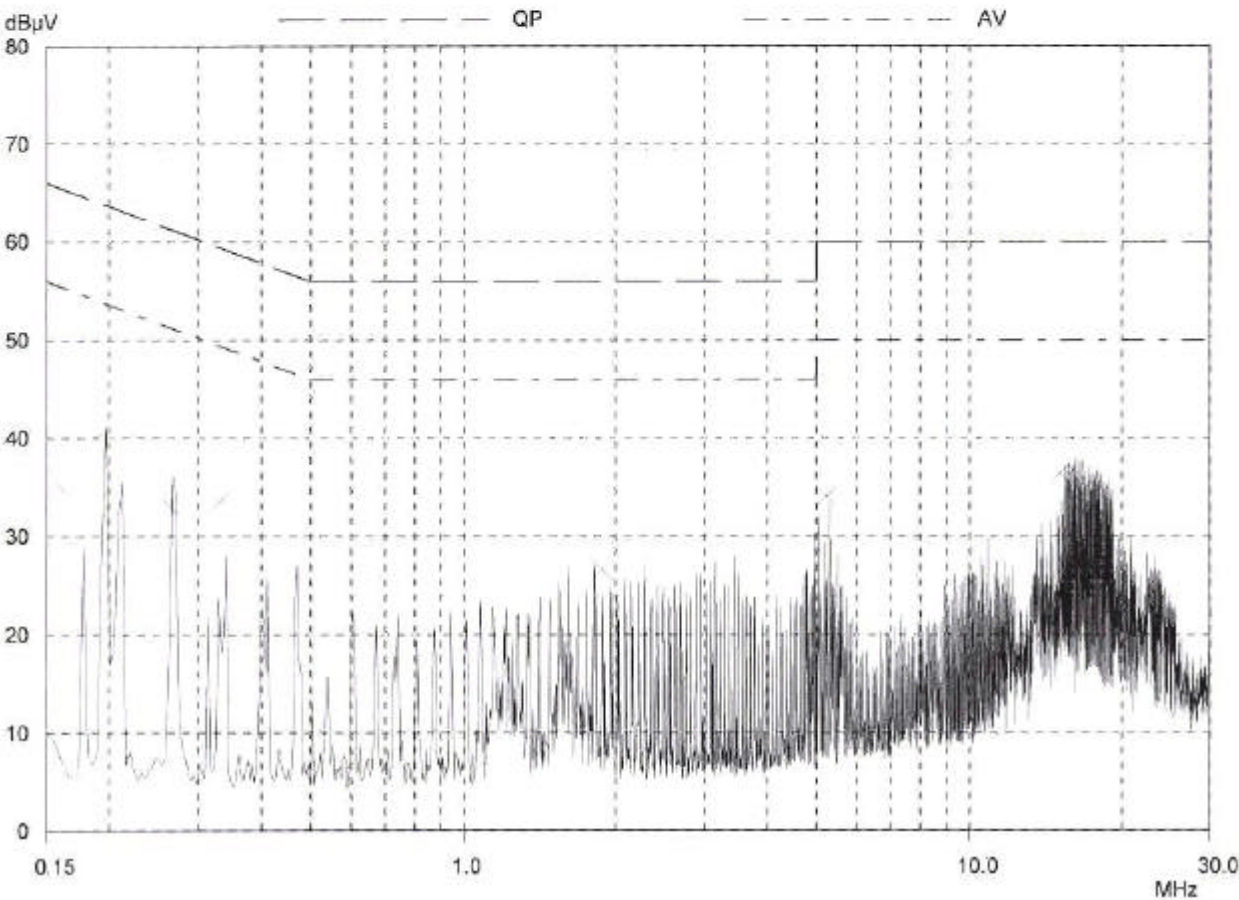


CONDUCTION EMISSION TEST

Peak Value

EUT:
Manuf:
Op Cond: CH6
Operator:
Test Spec:
Comment:
N

Final Measurement: Detector: X QP
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB



CONDUCTION EMISSION TEST

Peak Value

EUT:

Manuf:

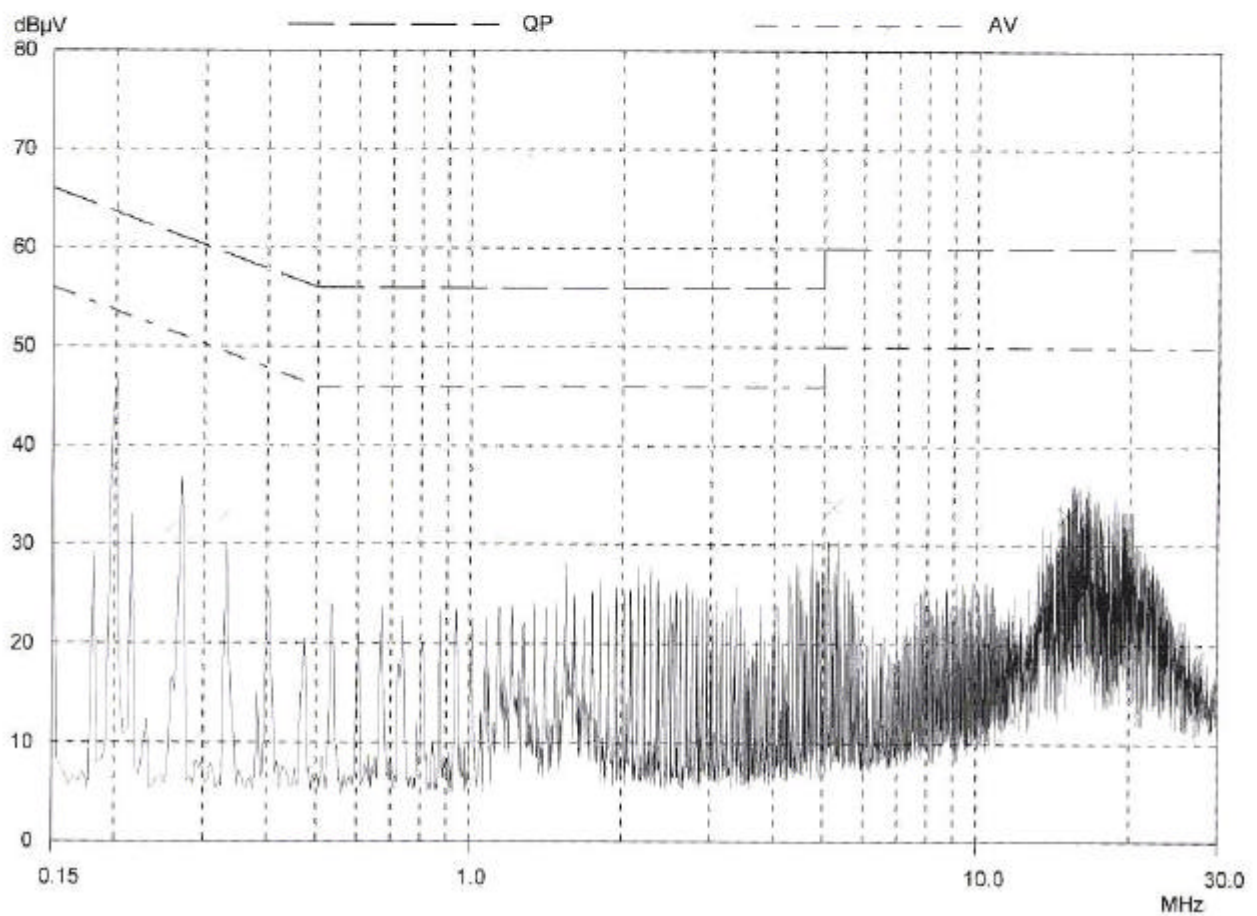
Op Cond: CH6

Operator:

Test Spec:

Comment: L1

Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	25 dB



CONDUCTION EMISSION TEST

Peak Value

EUT:

Manuf:

Op Cond: CH11

Operator:

Test Spec:

Comment:

N

Final Measurement:

Detector:

X QP

Meas Time:

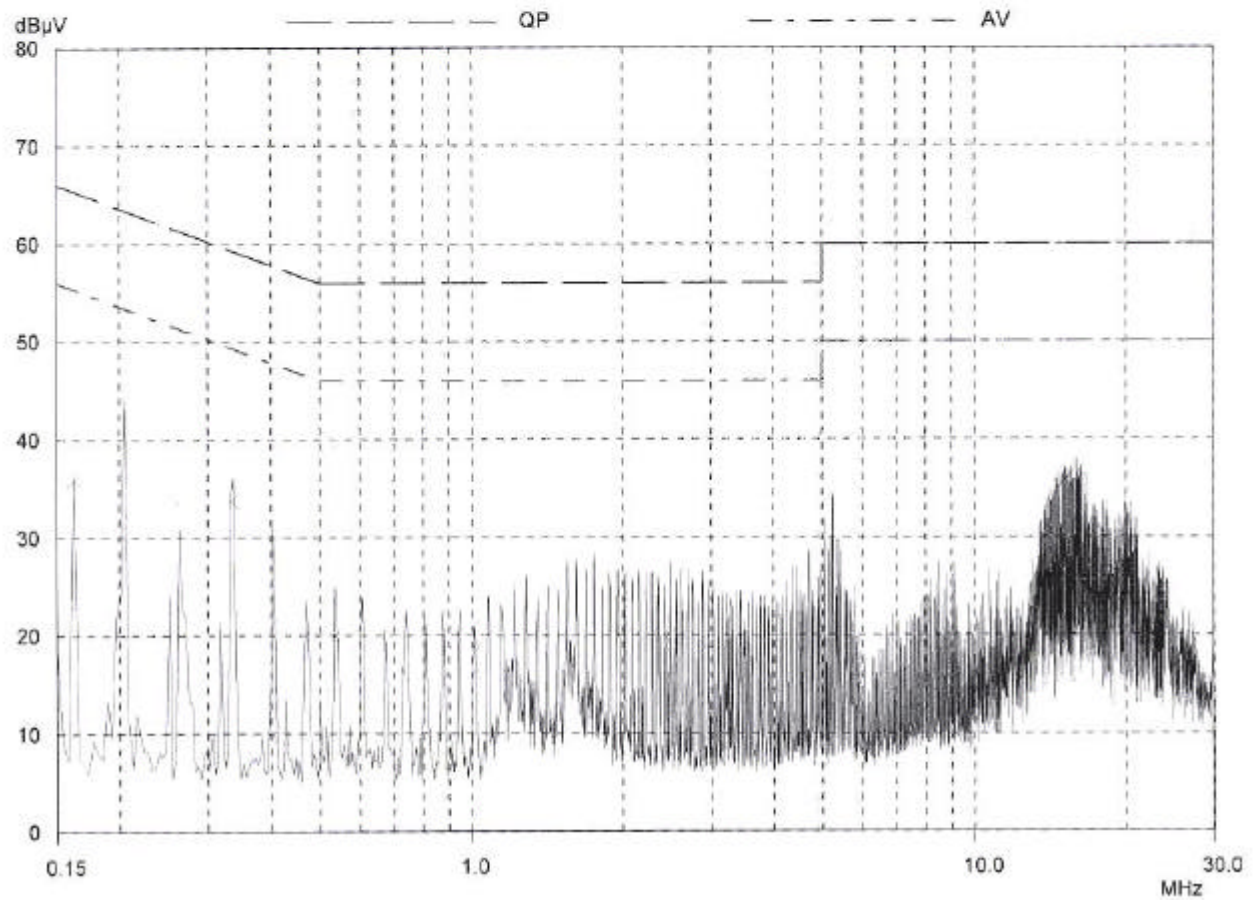
1sec

Peaks:

8

Acc Margin:

25 dB



CONDUCTION EMISSION TEST

Peak Value

EUT:

Manuf:

Op Cond: CH11

Operator:

Test Spec:

Comment:

L1

Final Measurement:

Detector:

X QP

Meas Time:

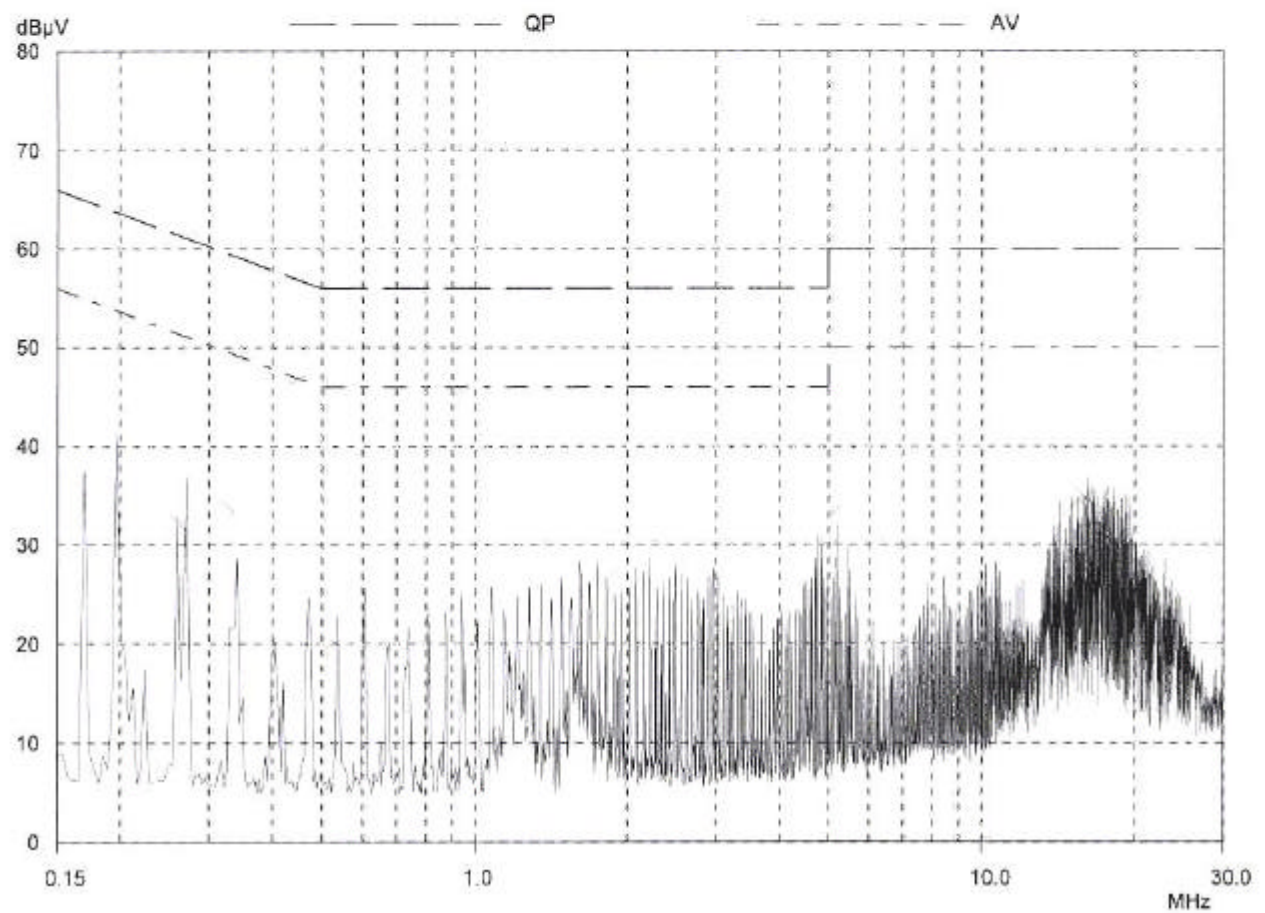
1sec

Peaks:

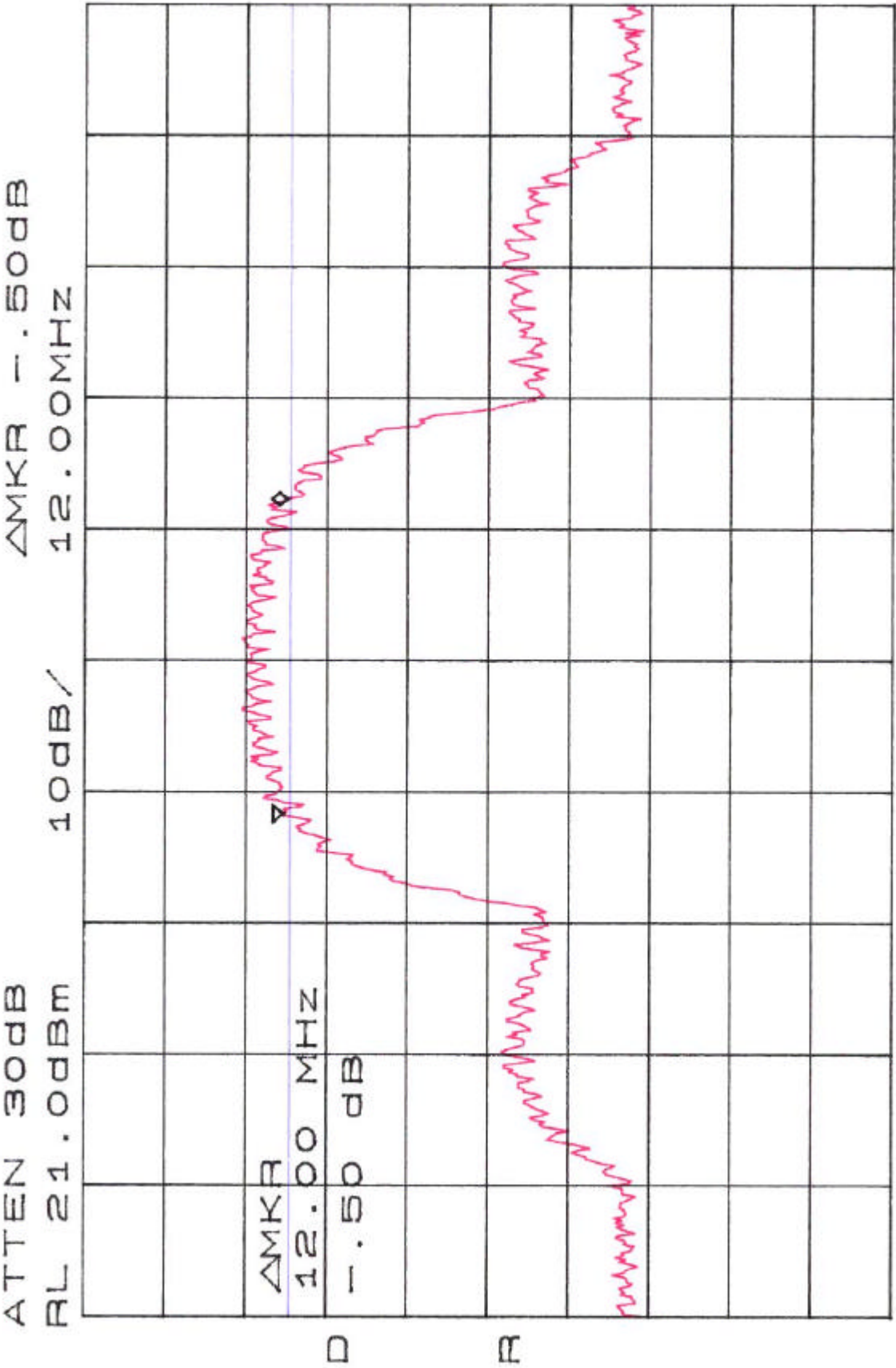
8

Acc Margin:

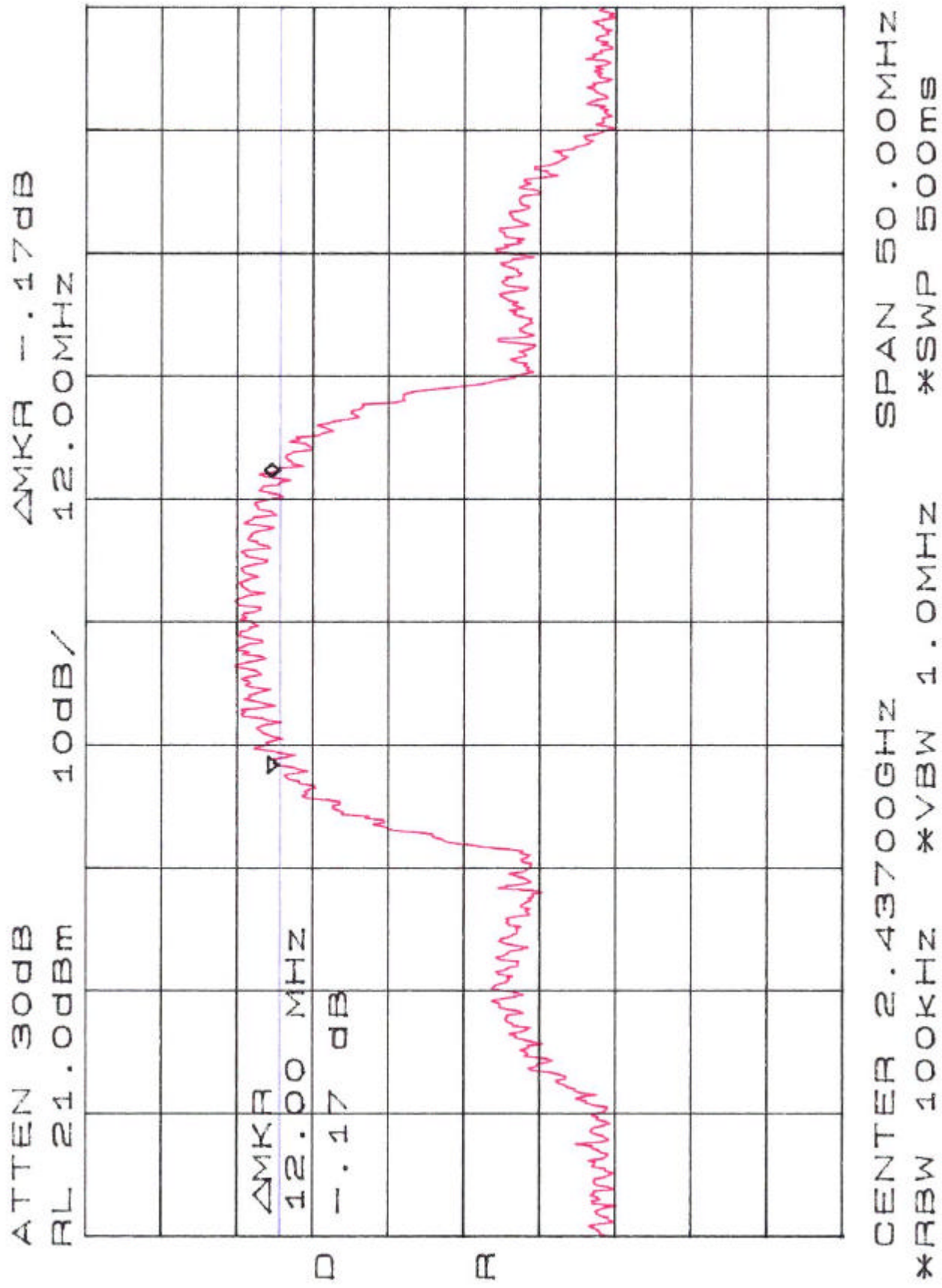
25 dB

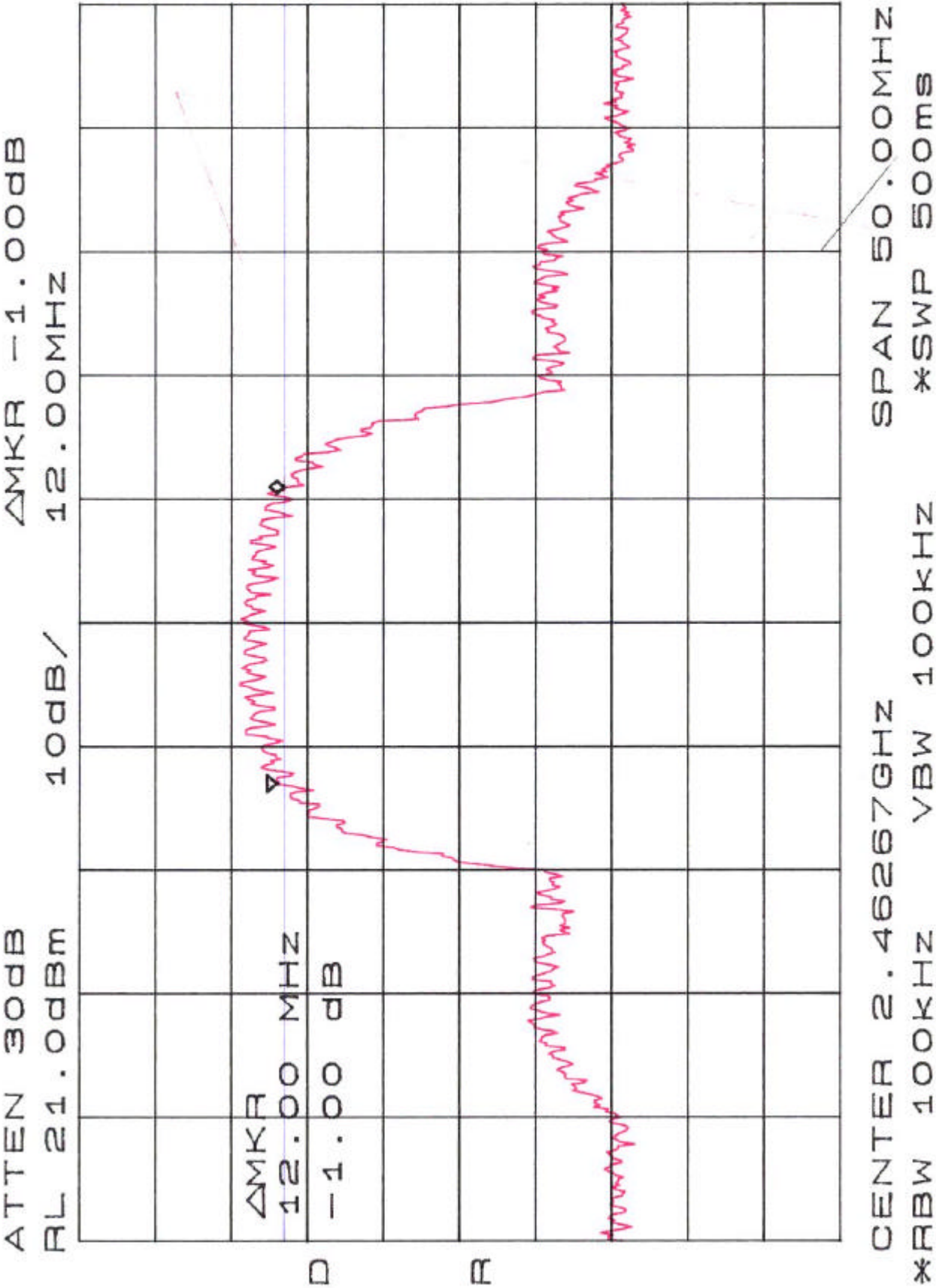


Appendix 2 : Ploted Datas of Emissions Bandwidth

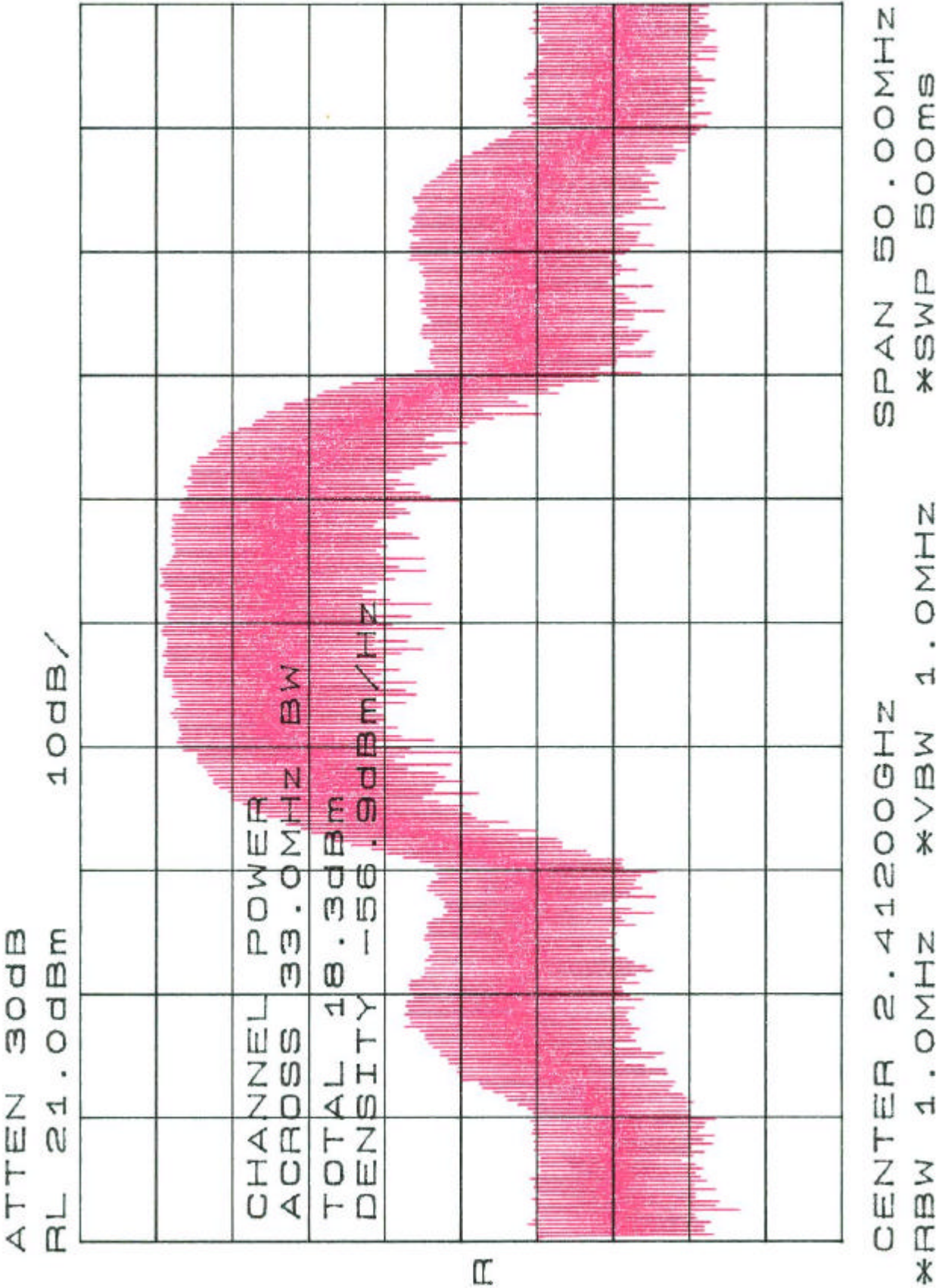


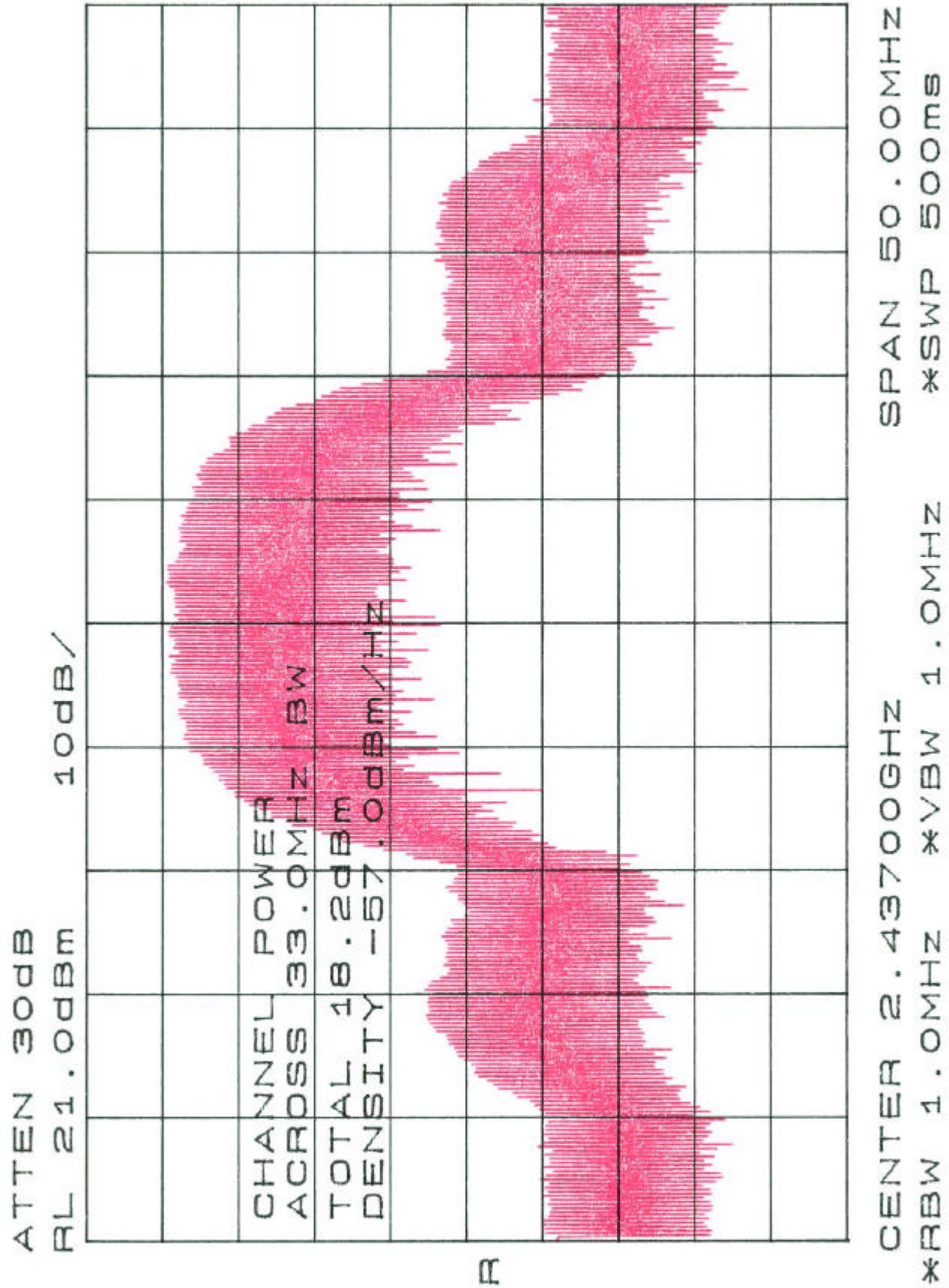
CENTER 2.41200GHZ
*RBW 100KHZ *VBW 1.0MHZ
SPAN 50.00MHZ *SWP 500ms

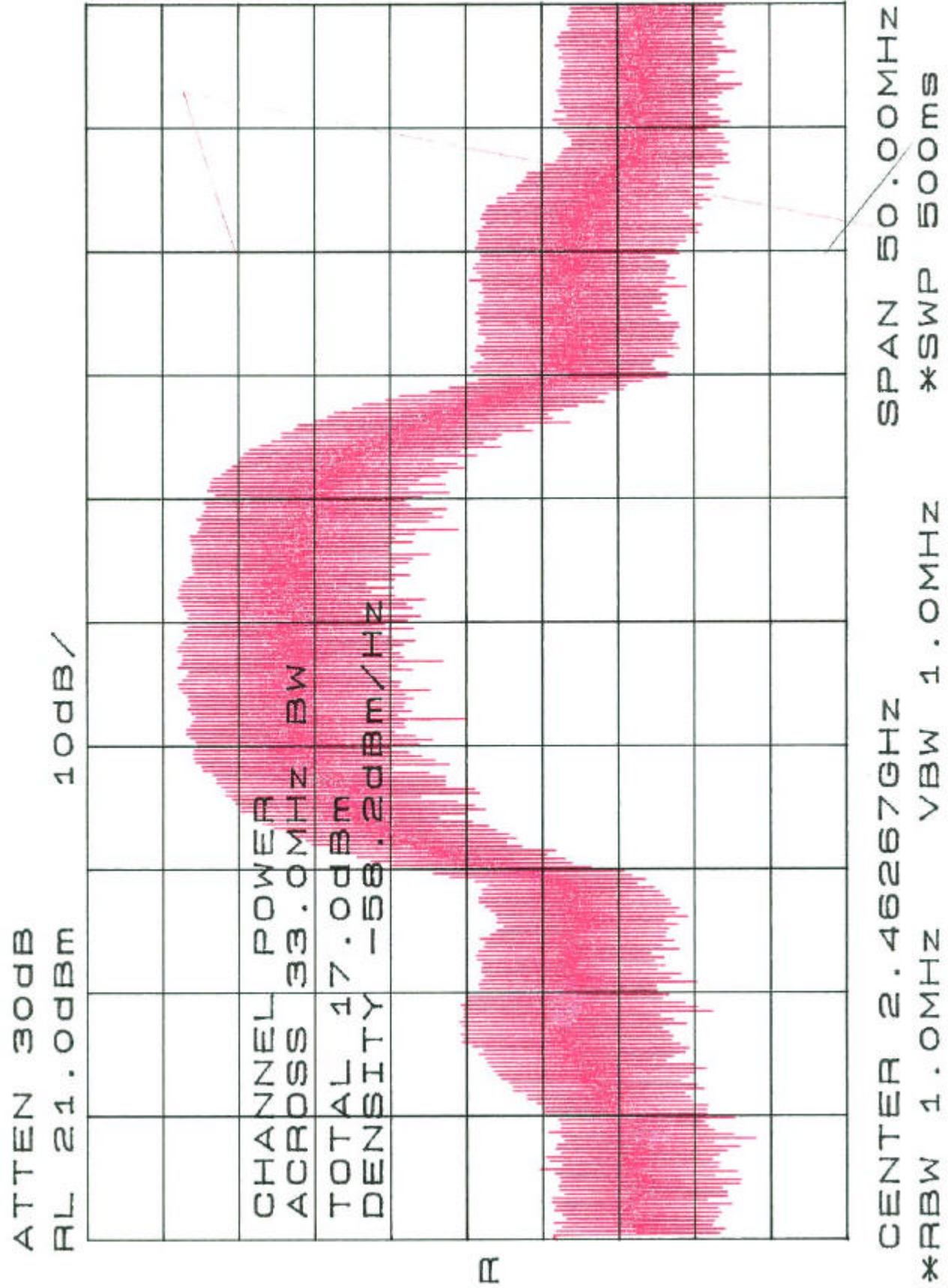




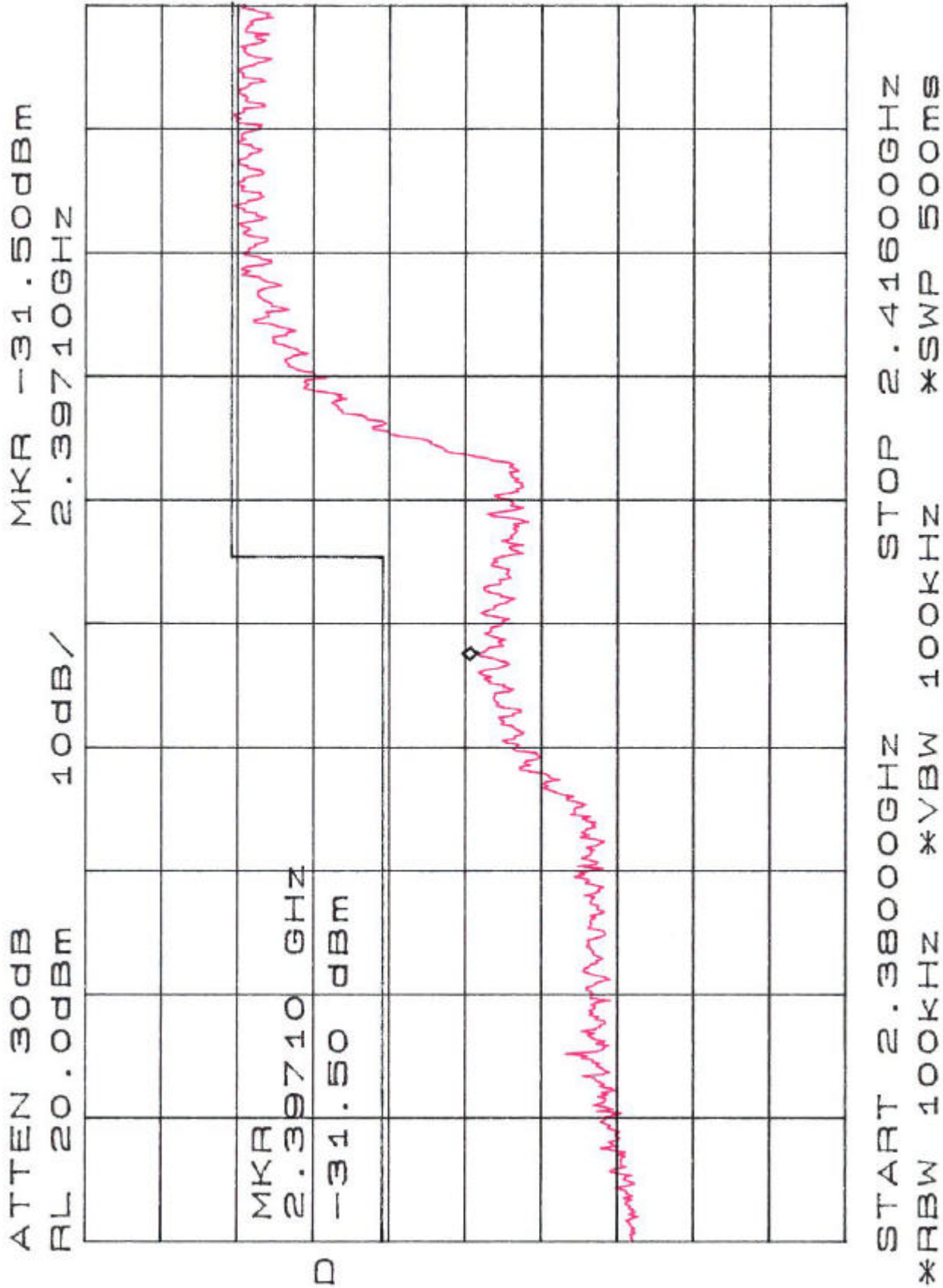
Appendix 3 : Ploted Datas of Output Peak Power





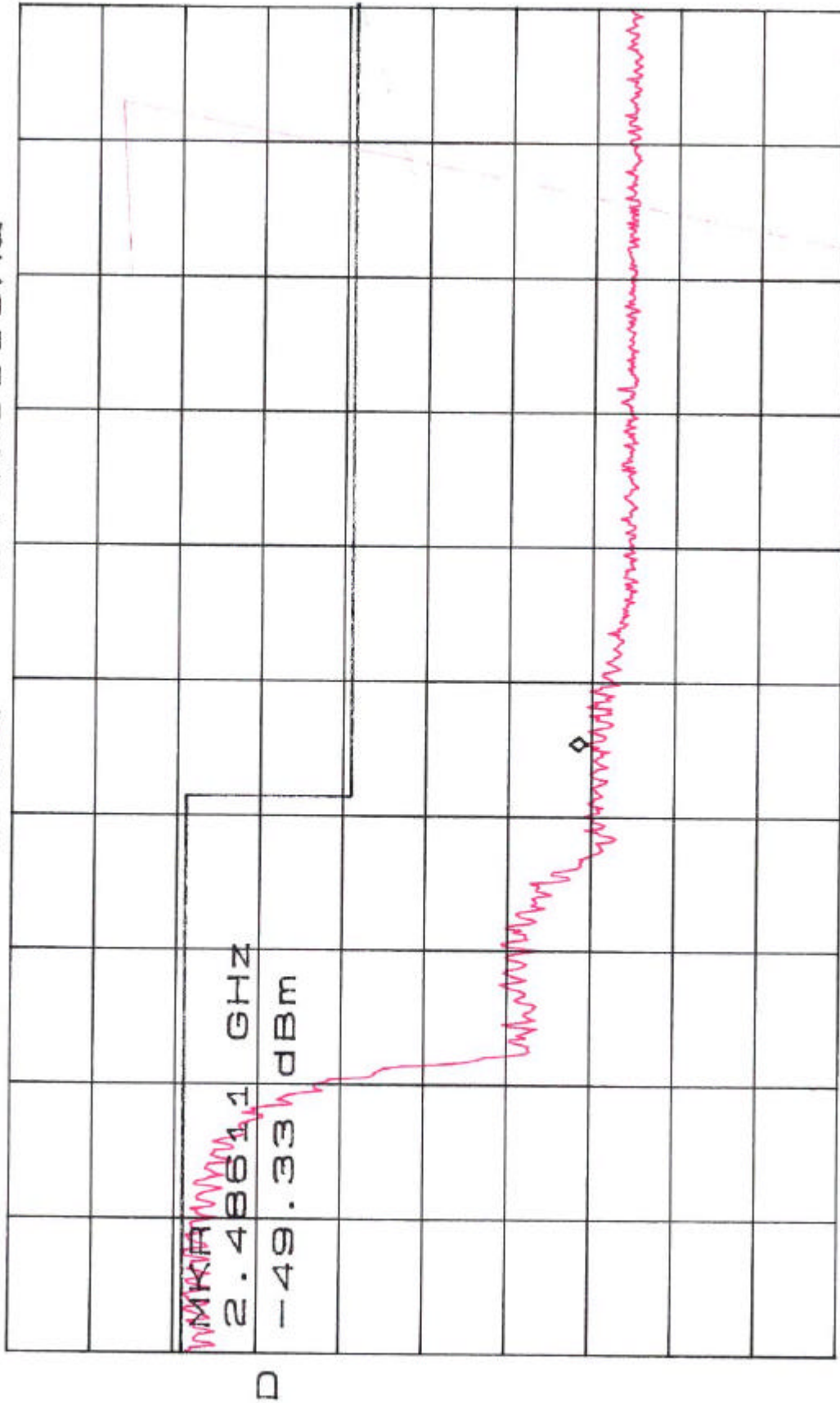


Appendix 4 : Ploted Datas of Band Edge Emission



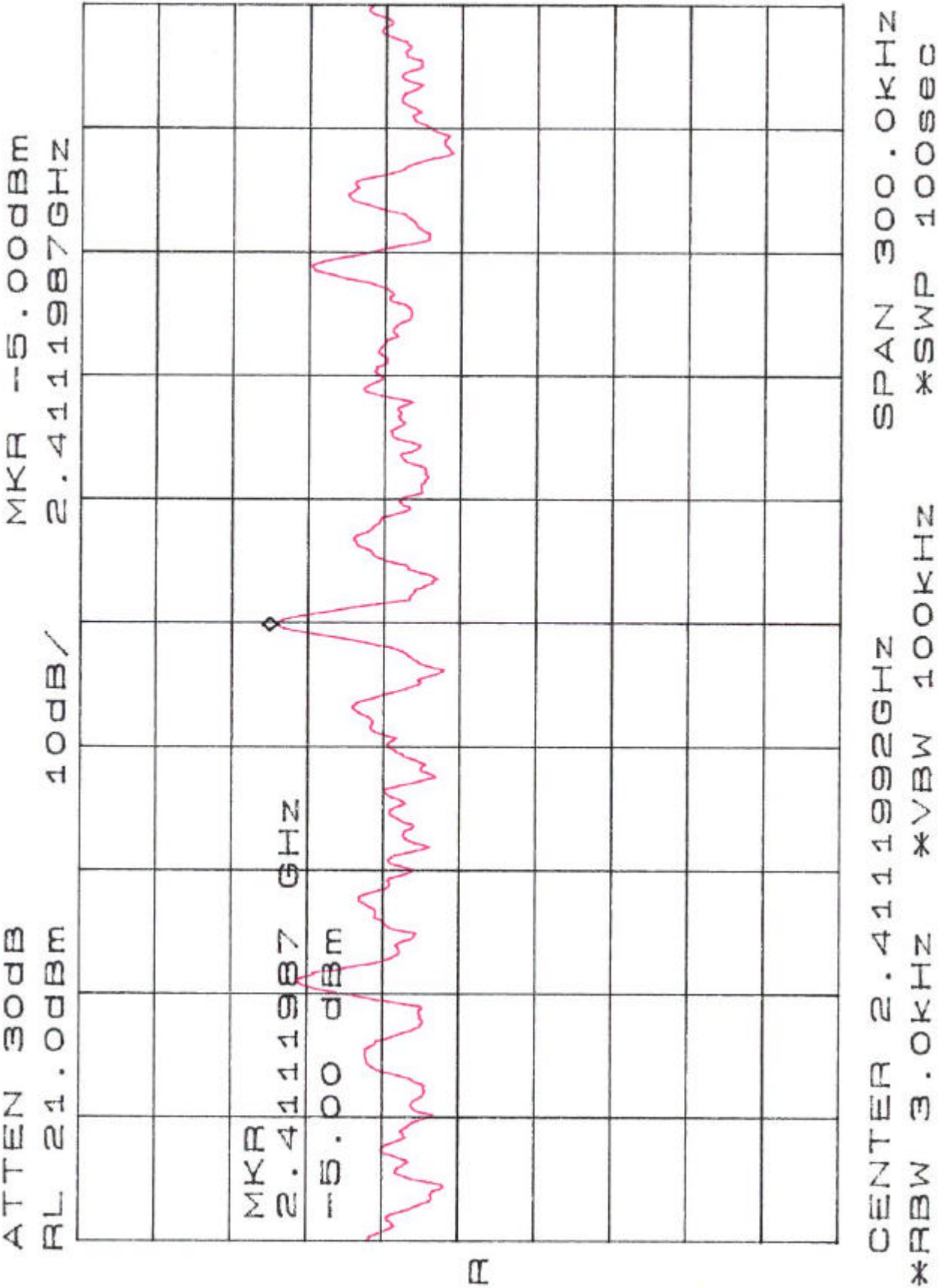
ATTEN 30dB
RL 20.0dBm
MKR -49.33dBm
2.48611GHz

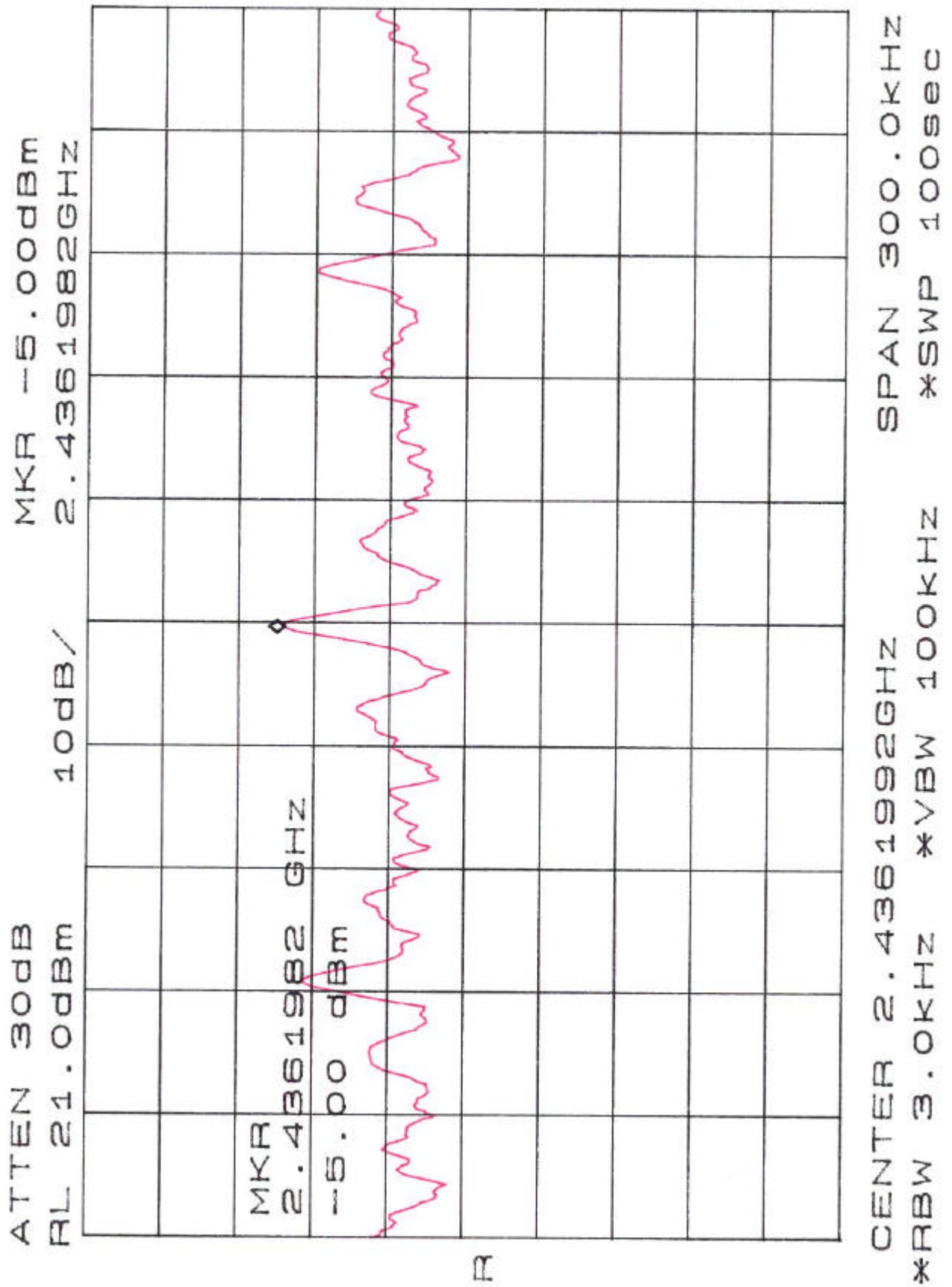
10dB/

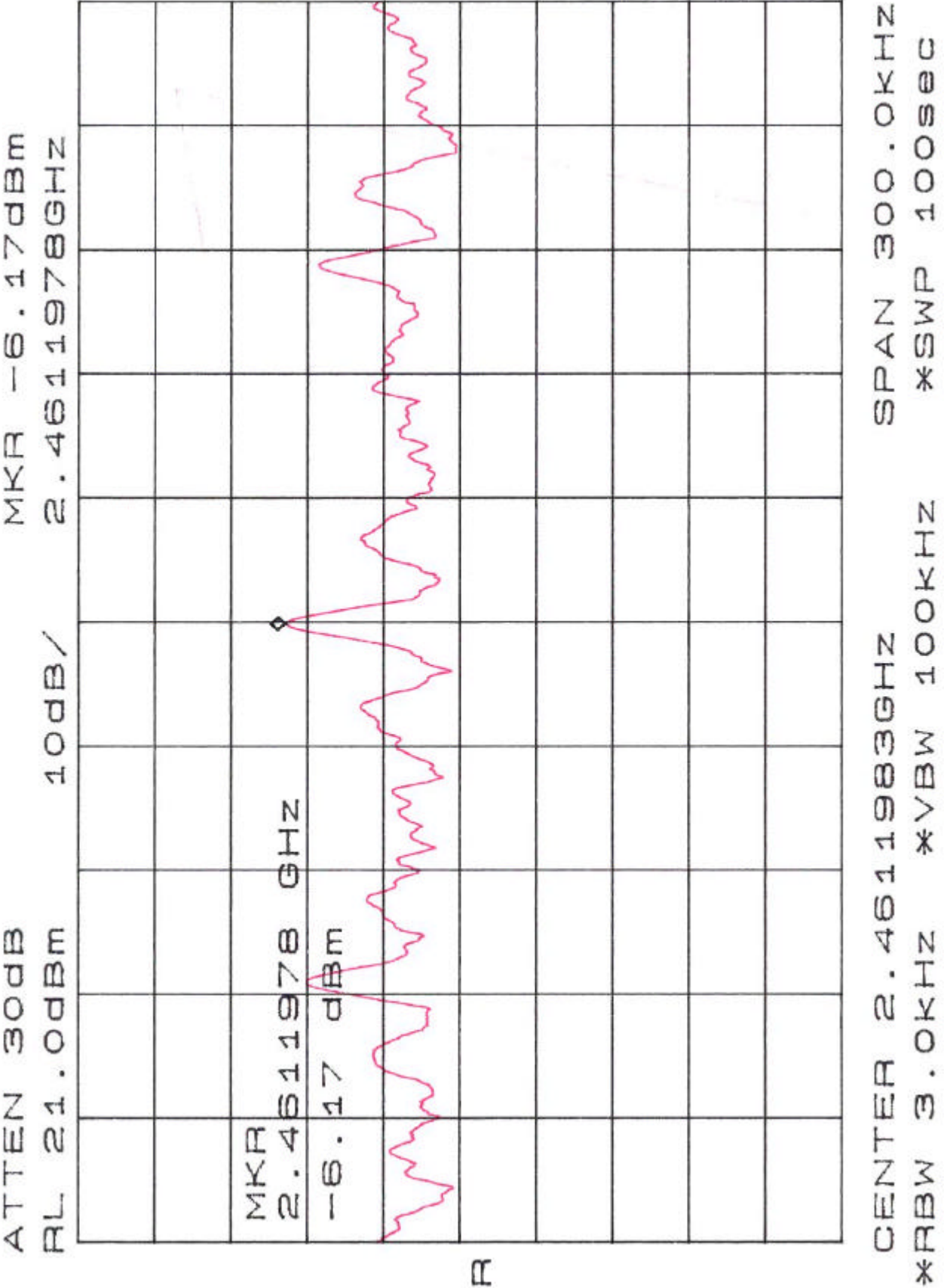


START 2.45800GHZ
*RBW 100KHZ
STOP 2.52000GHZ
*SWP 500ms
*VBW 100KHZ

Appendix 5 : Ploted Datas of Power Density







Appendix 6 : Spurious Emission At Antenna Terminal

