

# ***FCC Part 15 Subpart C***

## ***EMI TEST REPORT***

*of*

E.U.T. : INTERNET SOUNDS  
TRANSMITTER

FCC ID. : PZH301001

MODEL : ZeePad

Working Frequency : 90-106 MHz

*for*

APPLICANT : UtiSAT Corporation

ADDRESS : 41, Burr Farms Road, Westport CT, 06880

Test Performed by

**ELECTRONICS TESTING CENTER, TAIWAN**  
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Report Number : ET90R-08-064

# TEST REPORT CERTIFICATION

Applicant : UtiSAT Corporation  
41, Burr Farms Road, Westport CT, 06880

Manufacturer : GOOD MIND INDUSTRIES CO., LTD.  
22, TA YEOU 2 STREET, TA FA INDUSTRIAL DISTRICT, TA  
LIAU HSI, KAOHSIUNG HSIEN, TAIWAN, R.O.C.

Description of EUT :  
a) Type of EUT : INTERNET SOUNDS TRANSMITTER  
b) Trade Name : UtiSAT Corp.  
c) Model No. : ZeePad  
d) FCC ID : PZH301001  
e) Working Frequency : 90-106 MHz  
f) Power Supply : DC 5V

Regulation Applied : FCC Rules and Regulations Part 15 Subpart C (1999)

I HEREBY CERTIFY THAT; The data shown in this report were made in accordance with the procedures given in ANSI C63.4 and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Issued Date : Nov. 07, 2001

Test Engineer : Chin Cheng Yeh  
( Chin Cheng Yeh )

Approve & Authorized Signer : Will Yauo  
Will Yauo, Manager  
EMC Dept. II of ELECTRONICS  
TESTING CENTER, TAIWAN

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## 1. GENERAL INFORMATION

### 1.1 Product Description

a) Type of EUT	: INTERNET SOUNDS TRANSMITTER
b) Trade Name	: UtiSAT Corp.
c) Model No.	: ZeePad
d) FCC ID	: PZH301001
e) Working Frequency	: 90-106 MHz
f) Power Supply	: DC 5V

### 1.2 Characteristics of Device:

1. Turn on the computer.
2. Via USB connect the INTERNET SOUNDS TRANSMITTER
3. Set the FM transmitting frequency within 90-106 MHz by setting the adjustment device which can be accessed via botto of the unit.

### 1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in chapter 13 of ANSI C63.4.

The INTERNET SOUNDS TRANSMITTER under test was operated in its normal operating mode for the purpose of the measurements.

The receiving antenna polarized horizontally was varied from 1 to 4 meters and the wooden turntable was rotated through 360 degrees to obtain the highest reading on the field strength meter or on the display of the spectrum analyzer. And also, each emission was to be maximized by changing the orientation of the INTERNET SOUNDS TRANSMITTER under test.

### 1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the roof top of Building at No. 34, Lin 5, Ding Fu Tsun, Linkou Hsiang, Tapei Hsien, Taiwan 244, R.O.C.

This site has been fully described in a report submitted to your office, and accepted in a letter dated Feb. 10, 2000.

## 2. DEFINITION AND LIMITS

### 2.1 Definition

Intentional radiator:

A device that intentionally generates and emits radio frequency energy by radiation or induction.

### 2.2 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42-16.423	399.9-410	4.5-5.25
0.495 - 0.505 **	16.69475 - 16.69525	608-614	5.35-5.46
2.1735 - 2.1905	16.80425 - 16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475 - 156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3360-4400	Above 38.6
13.36-13.41			

Remark “\*\*” : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

### 2.3 Limitation

#### (1) Conducted Emission Limits :

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the conducted limit is the following:

Frequency ( MHz )	Emission ( $\mu$ V )	Emission ( dB $\mu$ V )
0.45 - 30.0	250	48.0

**(2) Radiated Emission Limits :**

According to 15.239 the field strength of emissions from intentional radiators operated under these frequency bands shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental μV/meter      dBμV/meter	
88-108	250	48

Field strength limits are at the distance of 3 meters, emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209,as following table:

Other Frequencies (MHz)	Field Strength of Fundamental μV/meter      dBμV/meter	
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

**(3) Antenna Requirement :**

For intentional device, according to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

**(4) Emissions Band Limits :**

According to 15.239(a), emissions from the intentional radiator shall be confined within a band 200kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 90-106 MHz.

## 2.4 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

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.

## 2.5 User Information

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### 3. RADIATED EMISSION MEASUREMENT

#### 3.1 Applicable Standard

1. The field strength of any emission within this band shall not exceed 250 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in Section 15.35 for limiting peak emissions apply.
2. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.

#### 3.2 Measurement Procedure

1. Setup the configuration per figure 1 and 2 for frequencies measured below and above 1 GHz respectively. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading. A RF test receiver is also used to confirm emissions measured.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.
7. Check the three frequencies of highest emission with varying the placement of cables (if any) associated with EUT to obtain the worse case and record the result.

Figure 1 : Frequencies measured below 1 GHz configuration

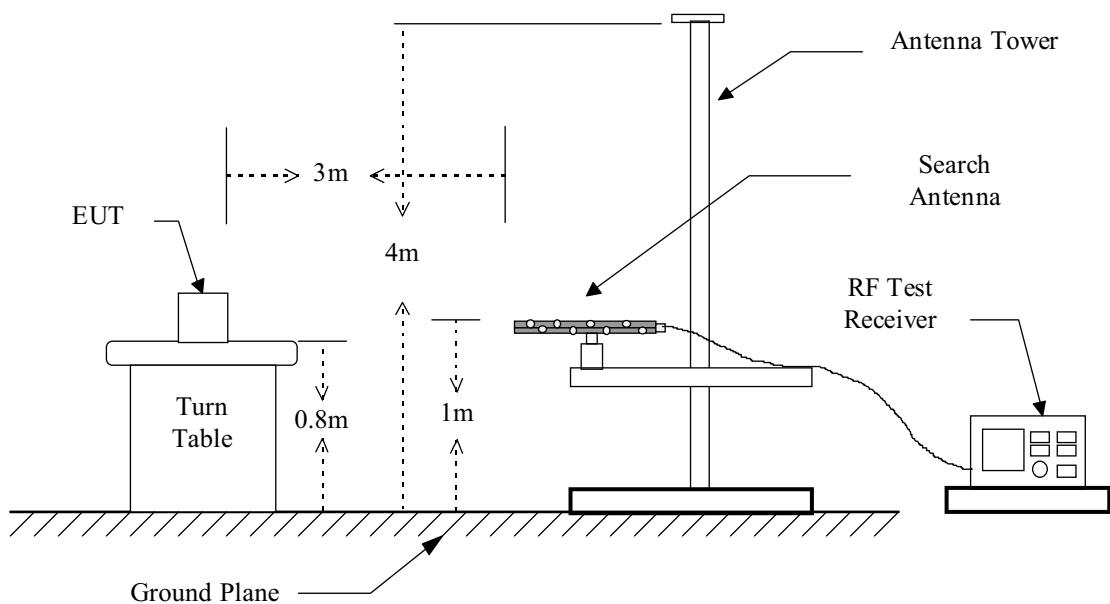
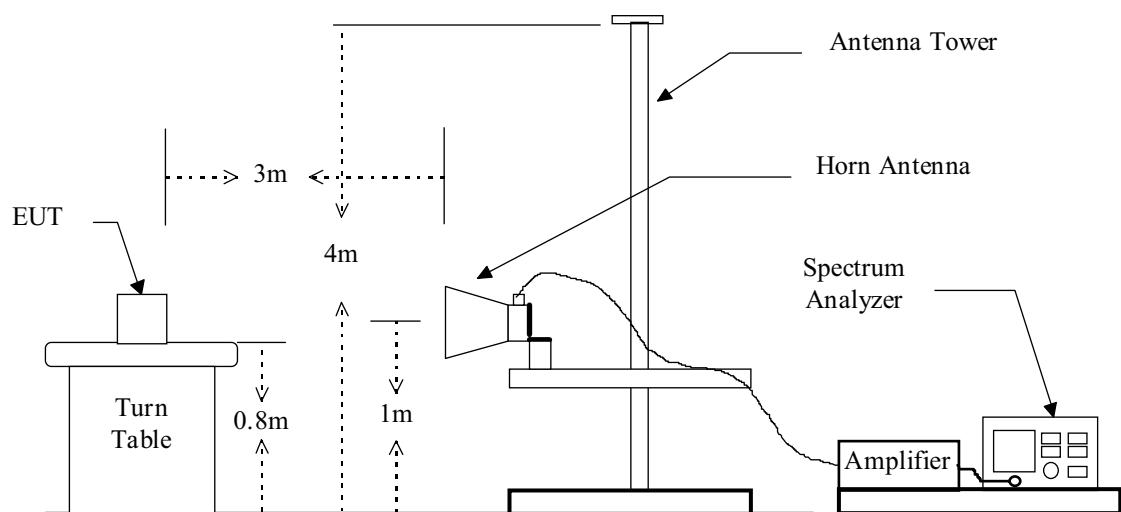


Figure 2 : Frequencies measured above 1 GHz configuration



### 3.3 Test Data

#### A. Channel Low

Operation Mode : Transmitting

Test Date: Oct. 15, 2001      Temperature : 25 °C      Humidity: 70 %

Frequency (MHz)	Meter Reading (dBuV) H            V		Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
90.516	52.0	55.4	-14.0	41.4	48.0	-6.6	0	1.00
181.038	41.0	49.2	-9.0	40.2	43.5	-3.3	0	1.00
271.548	---	---	-3.5	---	46.0	---	---	---
362.064	---	---	-8.3	---	46.0	---	---	---
452.580	---	---	-5.5	---	46.0	---	---	---
543.096	---	---	-5.1	---	46.0	---	---	---
633.612	---	---	-3.2	---	46.0	---	---	---
724.128	---	---	-0.8	---	46.0	---	---	---
814.644	---	---	1.2	---	46.0	---	---	---
905.160	---	---	2.2	---	46.0	---	---	---

#### B. Channel Med

Operation Mode : Transmitting

Test Date: Oct. 15, 2001      Temperature : 25 °C      Humidity: 70 %

Frequency (MHz)	Meter Reading (dBuV) H            V		Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
98.003	59.5	58.5	-13.9	45.6	48.0	-2.4	315	3.00
196.006	44.8	47.0	-7.6	39.4	43.5	-4.1	0	1.00
294.009	---	---	-1.5	---	46.0	---	---	---
392.012	---	---	-6.2	---	46.0	---	---	---
490.015	---	---	-4.4	---	46.0	---	---	---
588.018	---	---	-4.9	---	46.0	---	---	---
686.021	---	---	-1.0	---	46.0	---	---	---
784.024	---	---	0.1	---	46.0	---	---	---
882.027	---	---	2.3	---	46.0	---	---	---
980.030	---	---	3.4	---	54.0	---	---	---

Note :

1. Remark “---” means that the emission level is too low to be measured.
2. The expanded uncertainty of the radiated emission tests is 3.53 dB.

## C. Channel High

Operation Mode : Transmitting

Test Date : Oct. 15, 2001      Temperature : 25 °C      Humidity: 70 %

Frequency (MHz)	Meter Reading (dBuV) H            V		Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
105.380	56.2	58.1	-12.7	45.4	48.0	-2.6	0	1.00
210.760	44.5	44.6	-6.4	38.2	43.5	-5.3	0	1.00
316.140	---	---	-6.8	---	46.0	---	---	---
421.520	---	---	-5.6	---	46.0	---	---	---
526.900	---	---	-5.0	---	46.0	---	---	---
632.280	---	---	-3.2	---	46.0	---	---	---
737.660	---	---	-0.5	---	46.0	---	---	---
843.040	---	---	2.0	---	46.0	---	---	---
948.420	---	---	3.2	---	46.0	---	---	---
1053.800	---	---	-9.5	---	54.0	---	---	---

## D. Other Emission

Operation Mode : TransmittingTest Date : Oct. 15, 2001      Temperature : 25 °C      Humidity: 70 %

Frequency (MHz)	Meter Reading (dBuV) H            V		Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
132.037	51.0	48.4	-11.4	39.6	43.5	-3.9	90	1.50
180.034	41.1	49.3	-9.1	40.2	43.5	-3.3	180	1.00
192.070	45.3	47.5	-8.1	39.4	43.5	-4.1	180	1.00
360.236	45.7	44.8	-8.6	37.1	46.0	-8.9	270	1.00

Note :

1. Remark “---” means that the emission level is too low to be measured.
2. The expanded uncertainty of the radiated emission tests is 3.53 dB.

### 3.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any)

### 3.5 Radiated Test Equipment

Equipment	Manufacturer	Model No.	Next Cal. Date
Spectrum Analyzer	Hewlett-Packard	8568B	12/21/2001
Pre-selector	Hewlett-Packard	85685A	01/01/2002
Quasi Peak Detector	Hewlett-Packard	85650A	01/01/2002
RF Test Receiver	Rohde & Schwarz	ESVS 30	08/06/2002
Log periodic Antenna	EMCO	3146	11/02/2001
Biconical Antenna	EMCO	3110B	11/02/2001
Preamplifier	Hewlett-Packard	8447D	12/29/2001
Spectrum Analyzer	Hewlett-Packard	8564E	04/22/2002

### 3.6 Measuring Instrument Setup

Explanation of measuring instrument setup in frequency band measured is as following :

Frequency Band (MHz)	Instrument	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	RF Test Receiver	Quasi Peak	120 kHz	N/A
	Spectrum Analyzer	Peak	100 kHz	100 kHz

### 3.7 Radiated Measurement Photos

Please see Setup Photos in Exhibit F.

## 4 CONDUCTED EMISSION MEASUREMENT

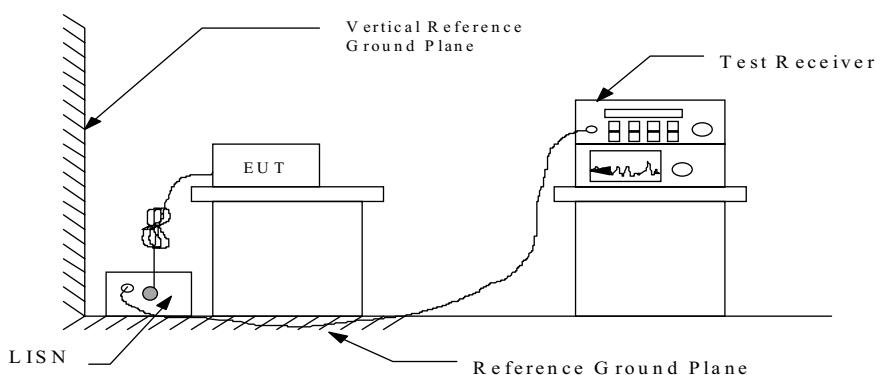
### 4.1 Standard Applicable

For intentional device, Line Conducted Emission Limits are in accordance to § 15.207(a), any emissions level shall not exceed 48 dBuV.

### 4.2 Measurement Procedure

1. Setup the configuration per figure 3.
2. A preliminary scan with a spectrum monitor is performed to identify the frequency of emission that has the highest amplitude relative to the limit by operating the EUT in selected modes of operation, typical cable positions, and with a typical system configuration.
3. Record the 6 or 8 highest emissions relative to the limit.
4. Measure each frequency obtained from step 3 by a test receiver set on quasi peak detector function, and then records the accuracy frequency and emission level. If all emissions measured in the specified band are attenuated more than 20 dB from the limit, this step would be ignored, and the peak detector function would be used.
5. Confirm the highest three emissions with variation of the EUT cable configuration and record the final data.
6. Repeat all above procedures on measuring each operation mode of EUT.

Figure 3 : Conducted emissions measurement configuration



### 4.3 Conducted Emission Data

Operation Mode : Channel Low

Test Date : Oct. 17, 2001

Temperature : 25 °C

Humidity: 70 %

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result (dBuV)		Limit (dBuV)	Margin (dB)
	VA	VB		VA	VB		
0.4714	36.0	33.4	0.2	36.2	33.6	48.0	-11.8
0.5499	36.4	31.2	0.2	36.6	31.4	48.0	-11.4
0.7010	34.4	28.8	0.3	34.7	29.1	48.0	-13.3
1.1658	33.6	30.2	0.3	33.9	30.5	48.0	-14.1
3.2544	35.0	31.6	0.3	35.3	31.9	48.0	-12.7
23.4267	36.0	30.4	1.0	37.0	31.4	48.0	-11.0

Operation Mode : Channel Med

Test Date : Oct. 17, 2001

Temperature : 25 °C

Humidity: 70 %

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result (dBuV)		Limit (dBuV)	Margin (dB)
	VA	VB		VA	VB		
0.4714	37.0	32.5	0.2	37.2	32.7	48.0	-10.8
0.5499	37.2	31.9	0.2	37.4	32.1	48.0	-10.6
0.7010	34.9	28.4	0.3	35.1	28.6	48.0	-12.9
1.1658	34.6	29.4	0.3	34.9	29.7	48.0	-13.1
3.2544	34.1	32.0	0.3	34.4	32.3	48.0	-13.6
23.4267	36.7	30.3	1.0	37.7	31.3	48.0	-10.3

Operation Mode : Channel High

Test Date : Oct. 17, 2001

Temperature : 19 °C

Humidity: 65 %

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result (dBuV)		Limit (dBuV)	Margin (dB)
	VA	VB		VA	VB		
0.4714	36.6	33.8	0.2	36.8	34.0	48.0	-11.2
0.5499	37.2	31.2	0.2	37.5	31.5	48.0	-10.5
0.7010	34.4	28.2	0.3	34.7	28.4	48.0	-13.3
1.1658	34.4	30.4	0.3	34.7	30.7	48.0	-13.3
3.2544	34.0	30.8	0.3	34.3	31.1	48.0	-13.7
23.4267	35.7	30.9	1.0	36.7	31.9	48.0	-11.3

Note :

1. The expanded uncertainty of the conducted emission tests is 2.45 dB.
2. Please see appendix 1 for Plotted Data.

#### 4.4 Result Data Calculation

The result data is calculated by adding the LISN Factor to the measured reading. The basic equation with a sample calculation is as follows:

$$\text{RESULT} = \text{READING} + \text{LISN FACTOR}$$

Assume a receiver reading of 22.5 dB  $\mu$  V is obtained, and LISN Factor is 0.1 dB, then the total of disturbance voltage is 22.6 dB  $\mu$  V.

$$\text{RESULT} = 22.5 + 0.1 = 22.6 \text{ dB } \mu \text{V}$$

$$\begin{aligned}\text{Level in } \mu \text{V} &= \text{Common Antilogarithm}[(22.6 \text{ dB } \mu \text{V})/20] \\ &= 13.48 \text{ } \mu \text{V}\end{aligned}$$

#### 4.5 Conducted Measurement Equipment

The following test equipment are used during the conducted test .

Equipment	Manufacturer	Model No.	Next Cal. Date
RF Test Receiver	Rohde and Schwarz	ESH3	12/29/2001
Spectrum Monitor	Rohde and Schwarz	EZM	N.C.R.
Line Impedance Stabilization network	Rohde and Schwarz	ESH2-Z5	08/05/2002
Plotter	Hewlett-Packard	7440A	N/A
Shielded Room	Riken	N/A	N.C.R.

#### **4.6 Photos of Conduction Measuring Setup**

Please see Setup Photos in Exhibit F.

## 5 ANTENNA REQUIREMENT

### 5.1 Standard Applicable

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### 5.2 Antenna Construction

The antenna is permanently mounted on PCB, no consideration of replacement.

## 6 EMISSION BAND MEASUREMENT

### 6.1 Standard Applicable

According to 15.239(a), emissions from the intentional radiator shall be confined within a band 200kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 90-106 MHz.

### 6.2 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 1 and measurement the turn on the EUT. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 10 kHz and 100kHz respectively with a convenient frequency span including 200kHz bandwidth of the emission.
4. Mark the bandwidth of 200kHz points and plot the graph on spectrum analyzer.
5. Repeat above procedures until all measured frequencies were complete.

### 6.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Date
EMI Test Receiver	Rohde & Schwarz	ESBI	08/06/2002
Plotter	Hewlett-Packard	7440A	N/A

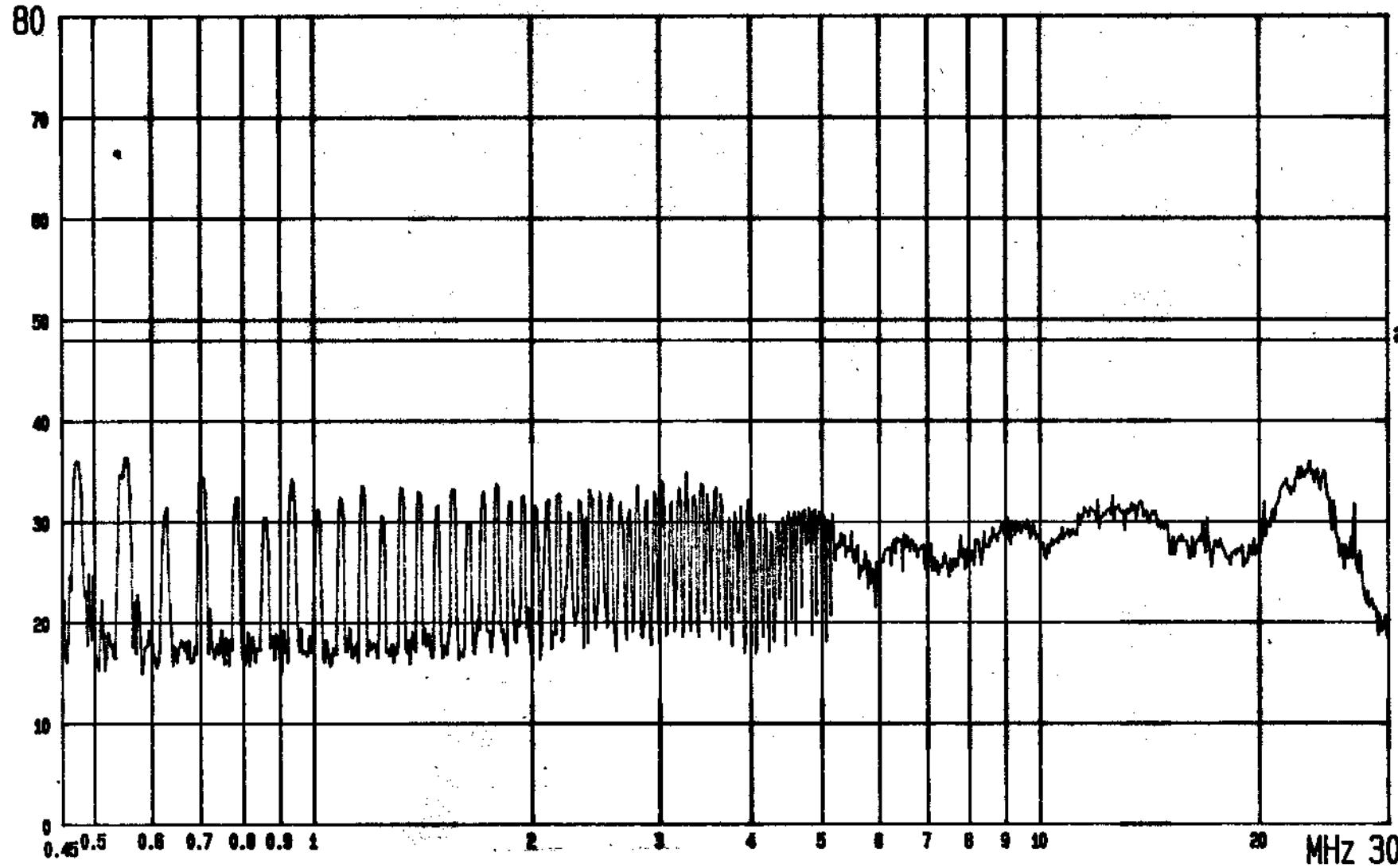
### 6.4 Measurement Data

Test Date : Oct. 17, 2001      Temperature : 20 °C      Humidity: 60%

*Note : Please see appendix 2 for Plotted Data*

**Appendix 1 : Plotted Data For Conducted Emission**

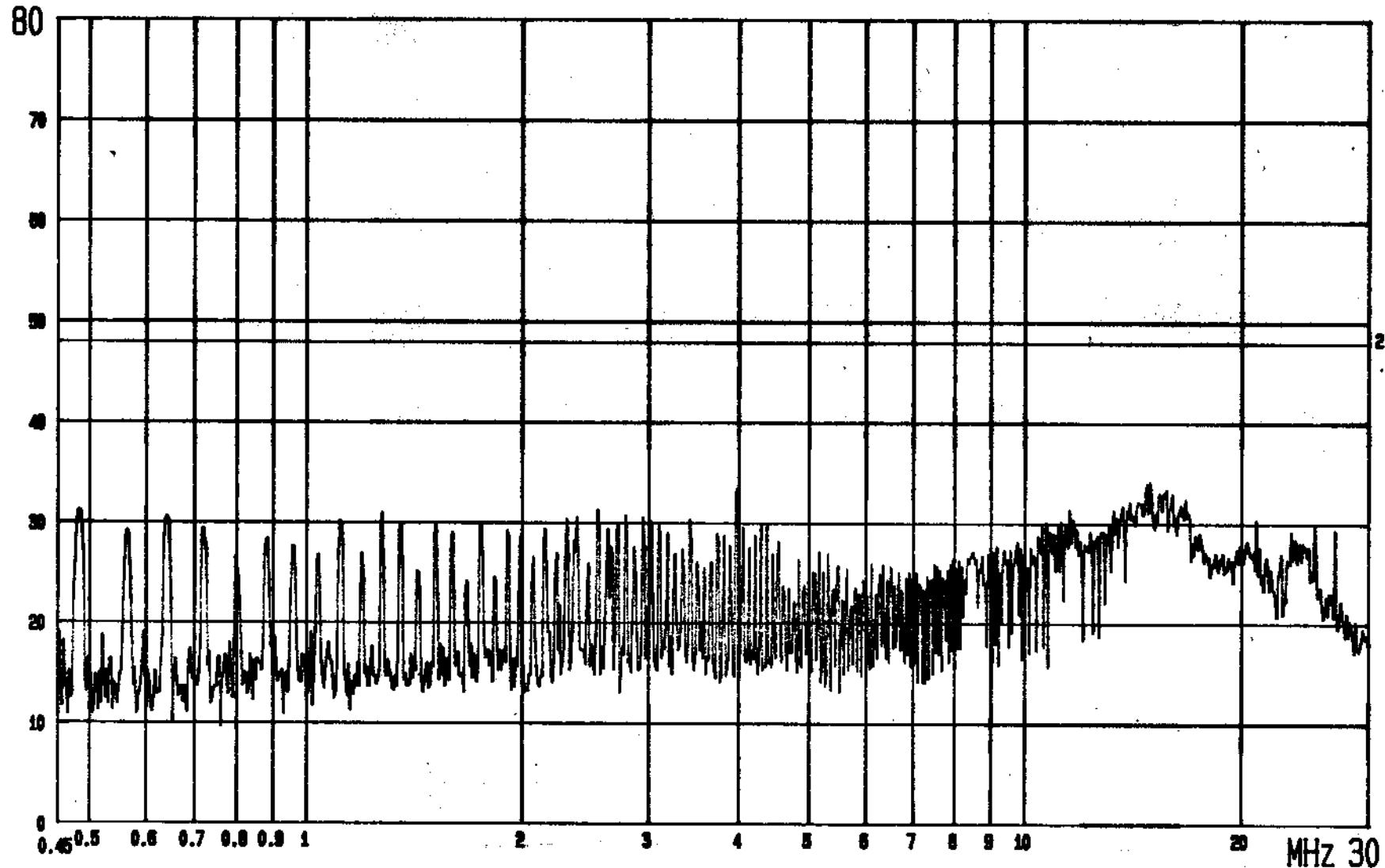
dB<sub>UV</sub>



| ---  
FCC CONDUCTED TEST  
MODEL: ZeePad MODE: LOW

EUT: RADIO TRANSMITTER ZEEPAD  
POWER: 120VAC/60HZ  
LISN: VA  
2: QP..  
LIMIT  
ETC EMI LAB.

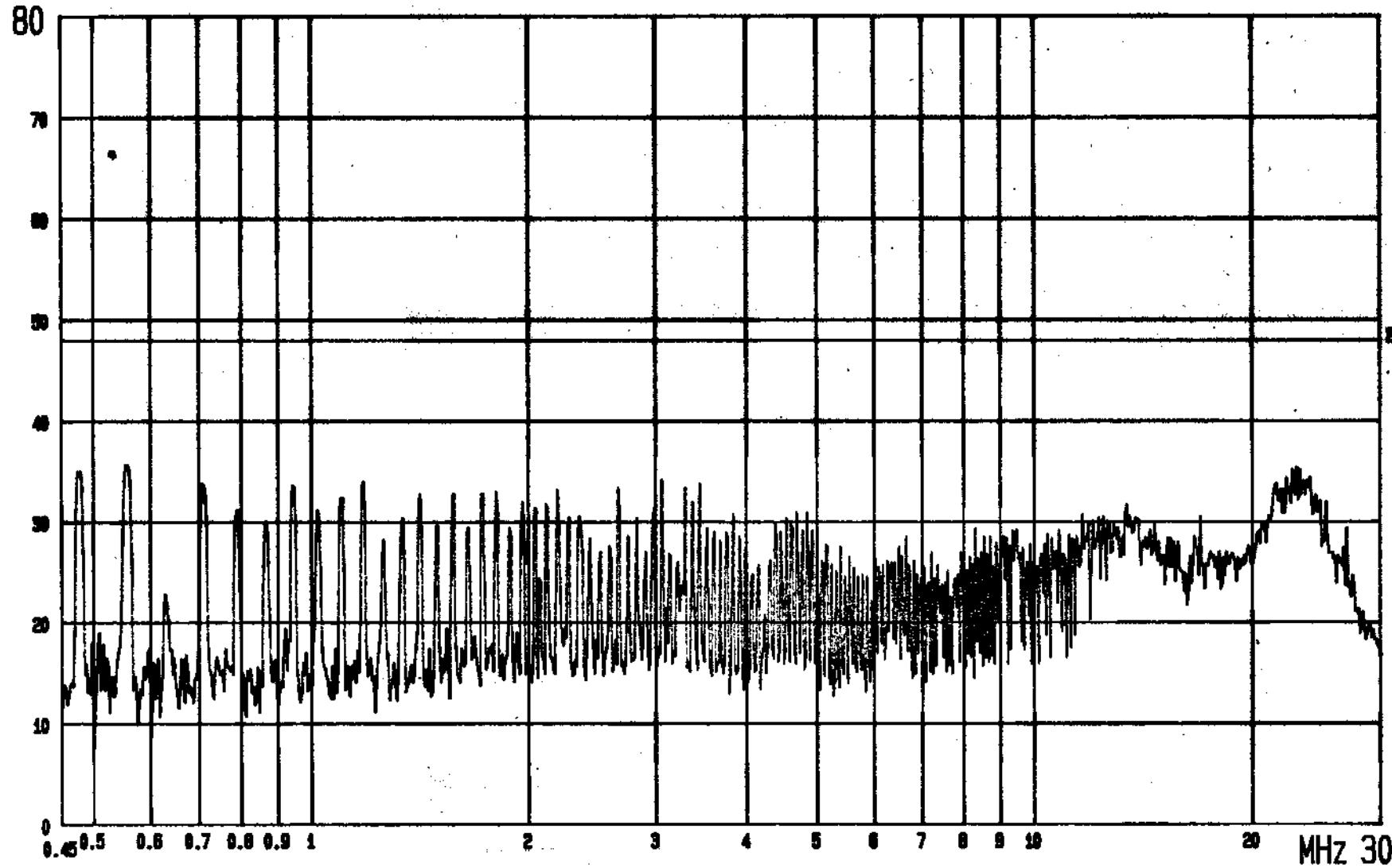
dB<sub>UV</sub>



| ---  
FCC CONDUCTED TEST  
MODEL: zeePad MODE: LOW

EUT: RADIO TRANSMITTER ZEEPAD  
POWER: 120VAC/60HZ 2: QP., LIMIT  
LISN: VB ETC EMI LAB.

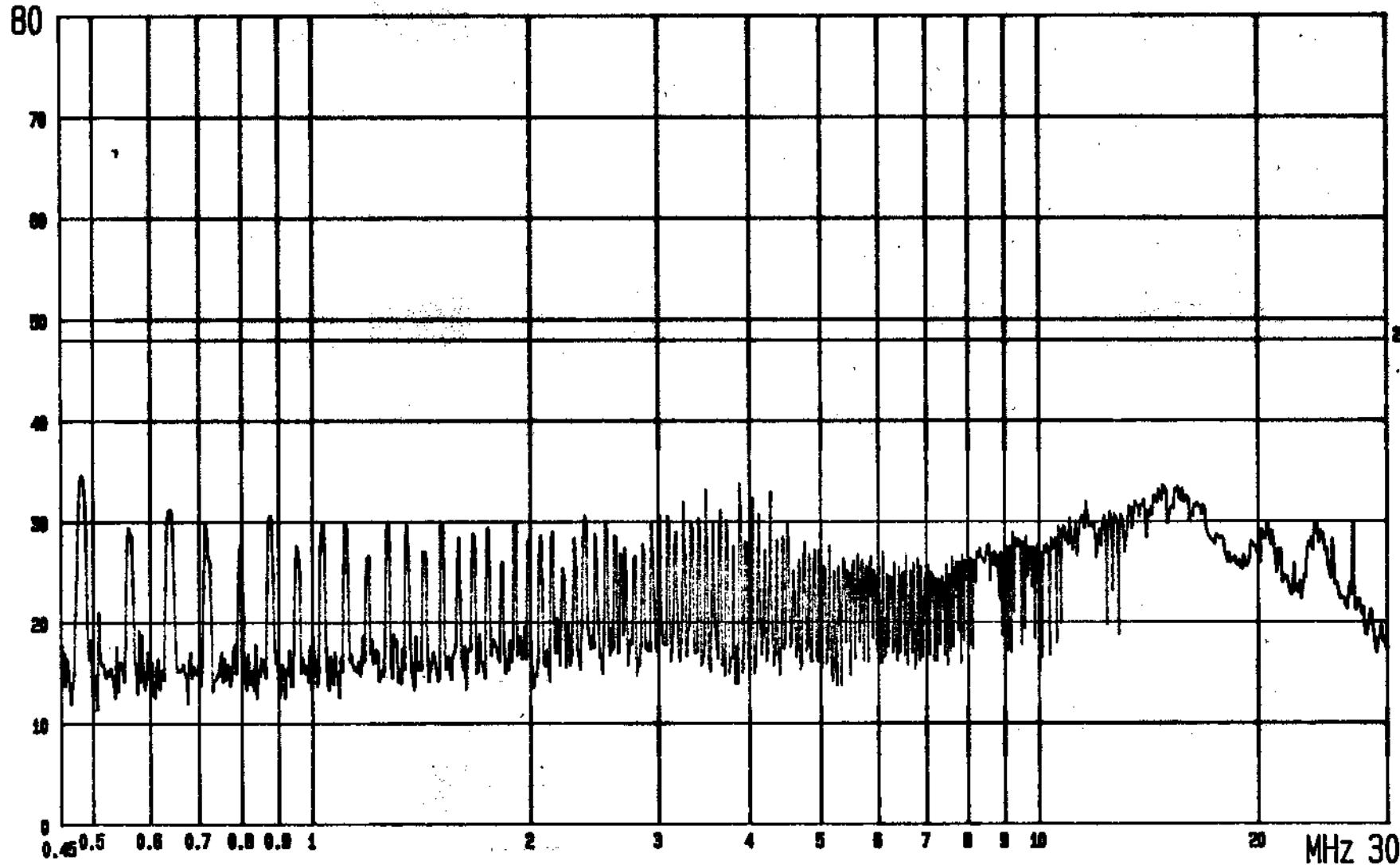
dBuV



| ---  
FCC CONDUCTED TEST  
MODEL: ZeePad MODE: MED

EUT: RADIO TRANSMITTER ZEEPAD  
POWER: 120VAC/60HZ 2: QP., LIMIT  
LISN: VA ETC EMI LAB.

dBuV

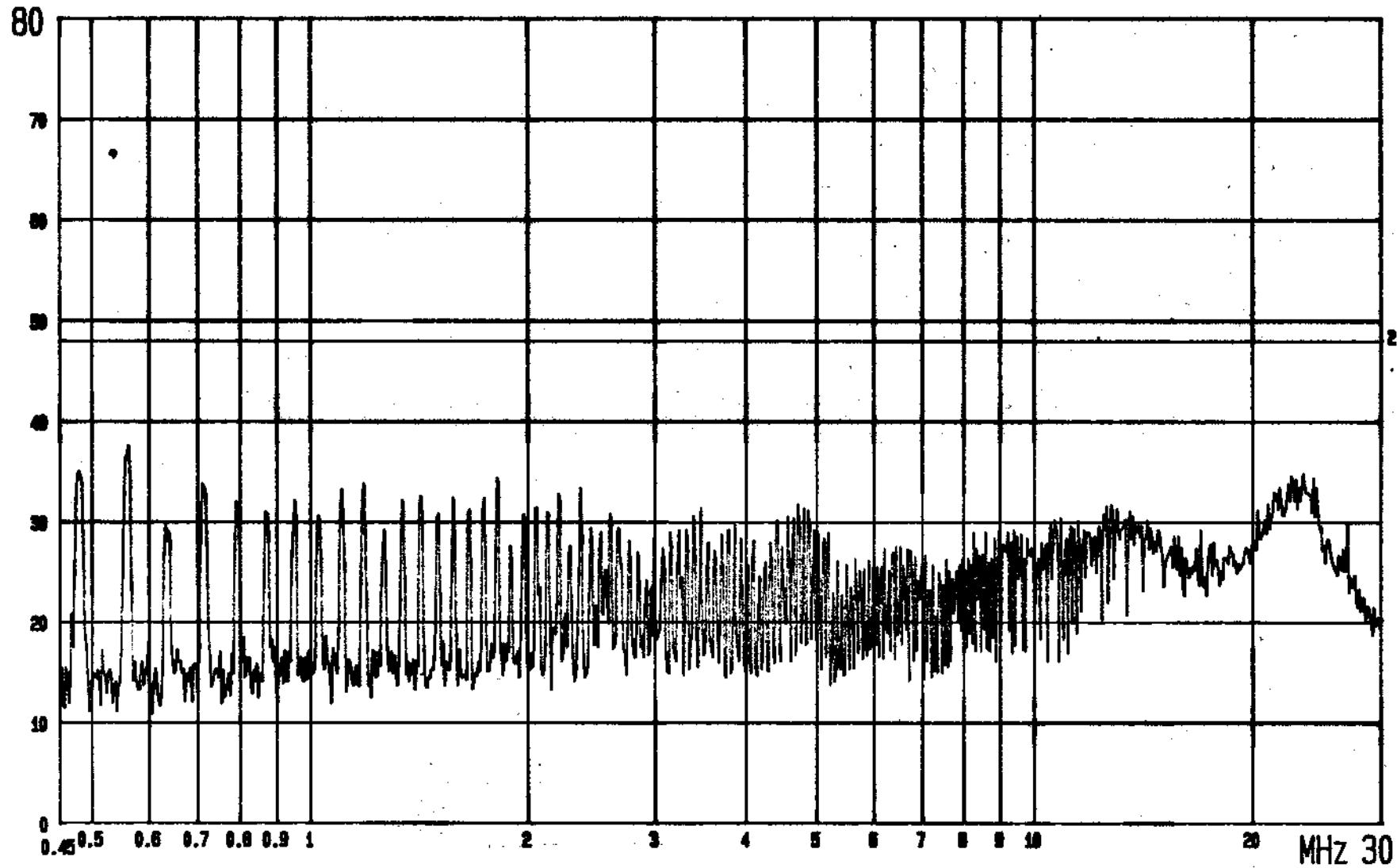


| ---  
FCC CONDUCTED TEST  
MODEL: ZeePad MODE: MED

EUT: RADIO TRANSMITTER ZEEPAD  
POWER: 120VAC/60HZ

2: QP.,  
LISN: VB LIMIT  
ETC EMI LAB.

dBuV



| ---

FCC CONDUCTED TEST

MODEL: ZeePad MODE: HIGH

EUT: RADIO TRANSMITTER ZEEPAD

POWER: 120VAC/60HZ

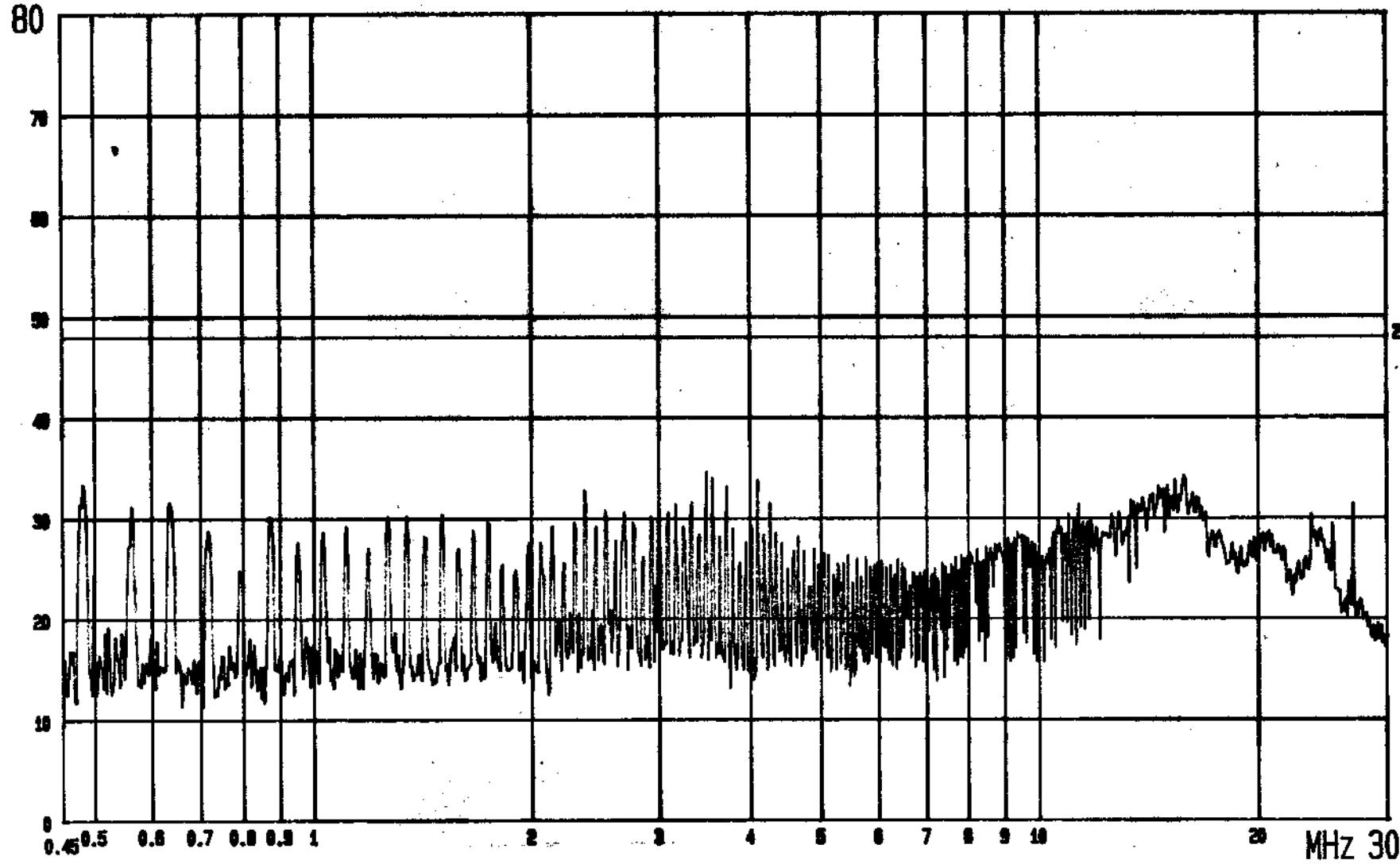
2: QP.,

LISN: VA

LIMIT

ETC EMI LAB.

dBuV



| ---  
FCC CONDUCTED TEST  
MODEL: ZeePad MODE: HIGH

EUT: RADIO TRANSMITTER ZEEPAD 2: QP., LIMIT  
POWER: 120VAC/60HZ LISN: VB ETC EMI LAB.

## Appendix 2 : Plotted Data For Emission Band Measurement



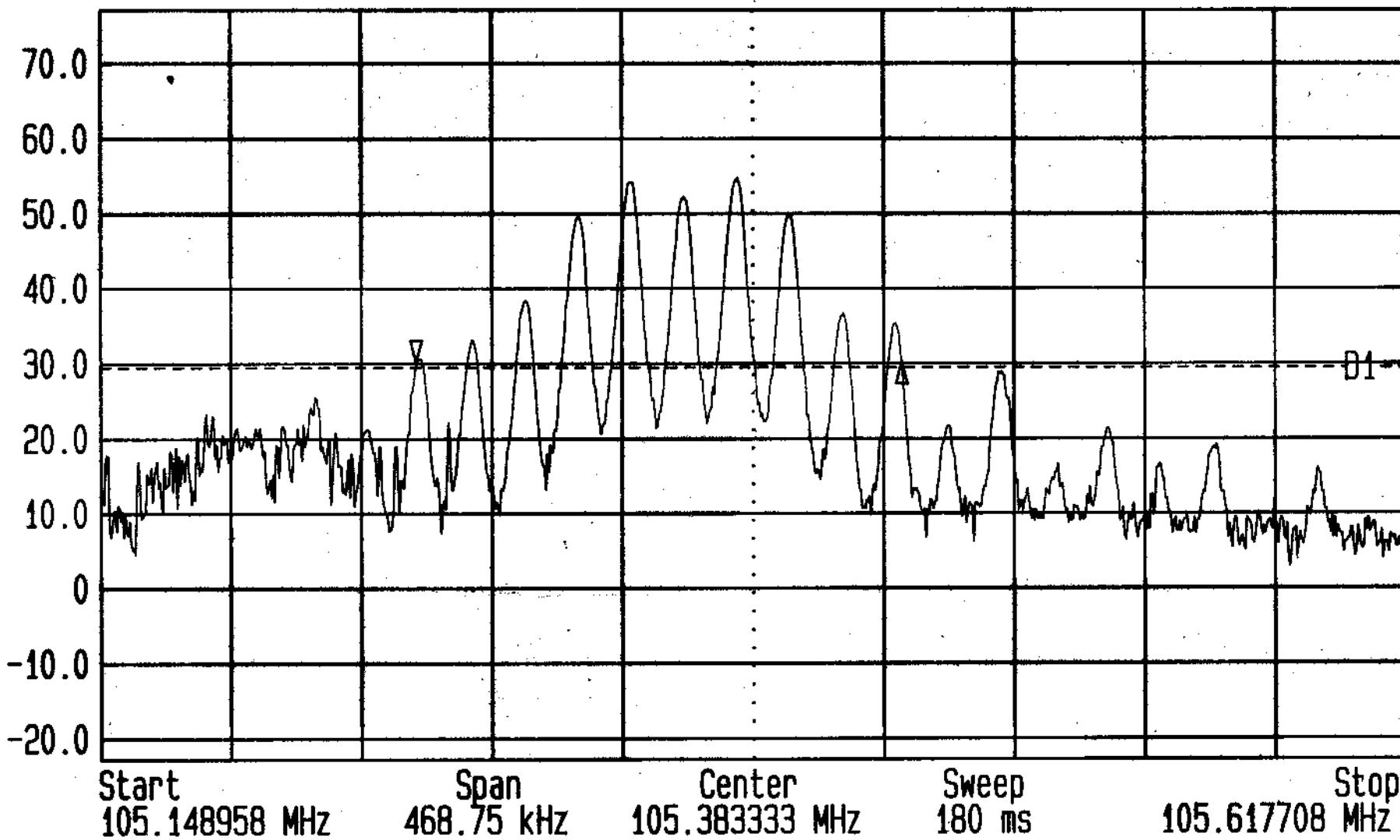
Date 12.Sep.'01 Time 12:24:47  
Ref.Lvl Delta 0.35 dB  
77.00 dB $\mu$ V 173.9 kHz

Res.Bw  
TG.Lvl  
CF.Stp

3.0 kHz [3dB] off  
46.875 kHz

Vid.Bw  
RF.Att  
Unit

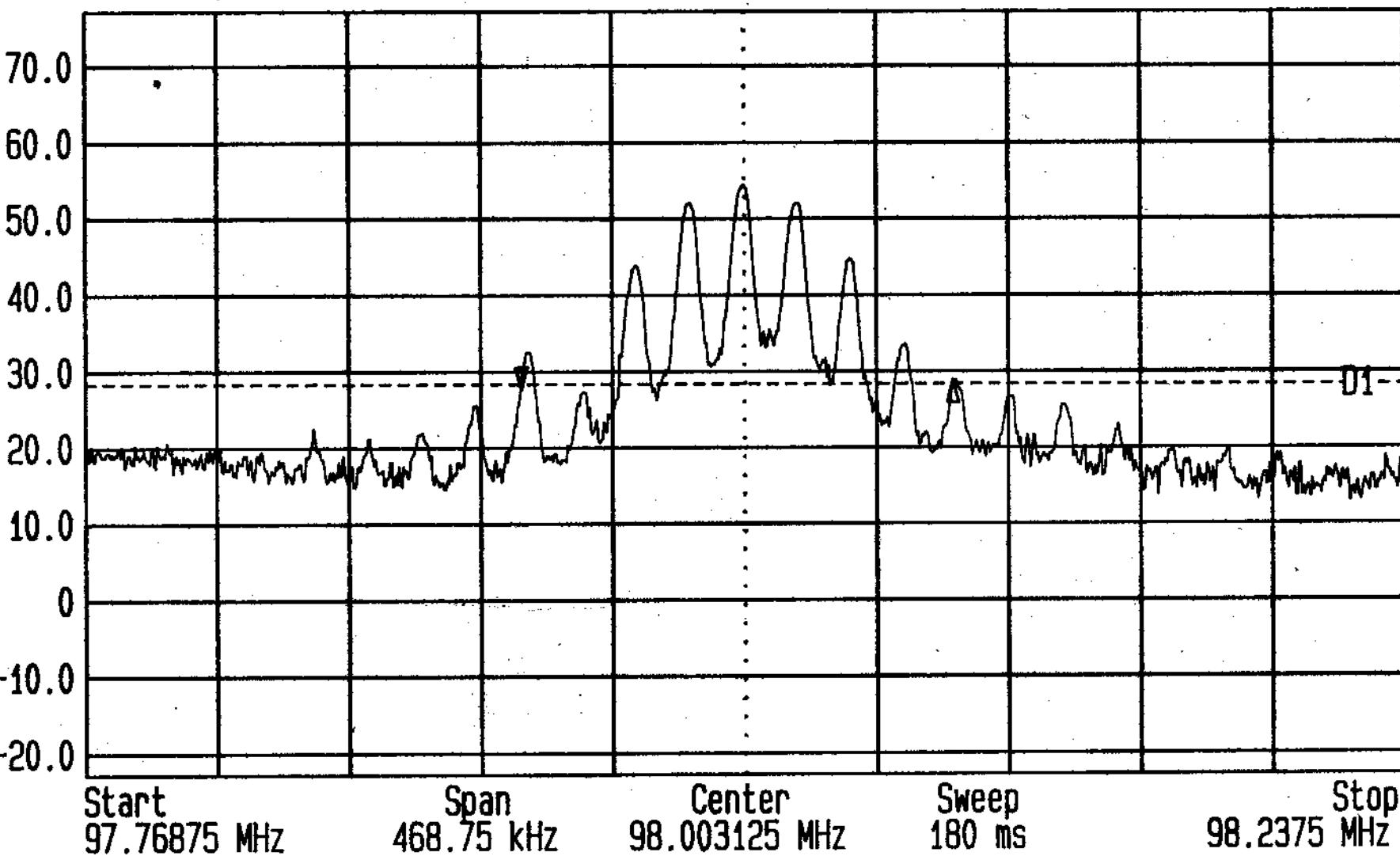
10 kHz  
0 dB  
[dB $\mu$ V]





Date 12.Sep.'01 Time 12:15:11

Ref.Lvl Delta

77.00 dB $\mu$ VRes.Bw  
TG.Lvl  
CF.Stp3.0 kHz [3dB]  
off  
46.875 kHzVid.Bw  
RF.Att  
Unit10 kHz  
0 dB  
[dB $\mu$ V]



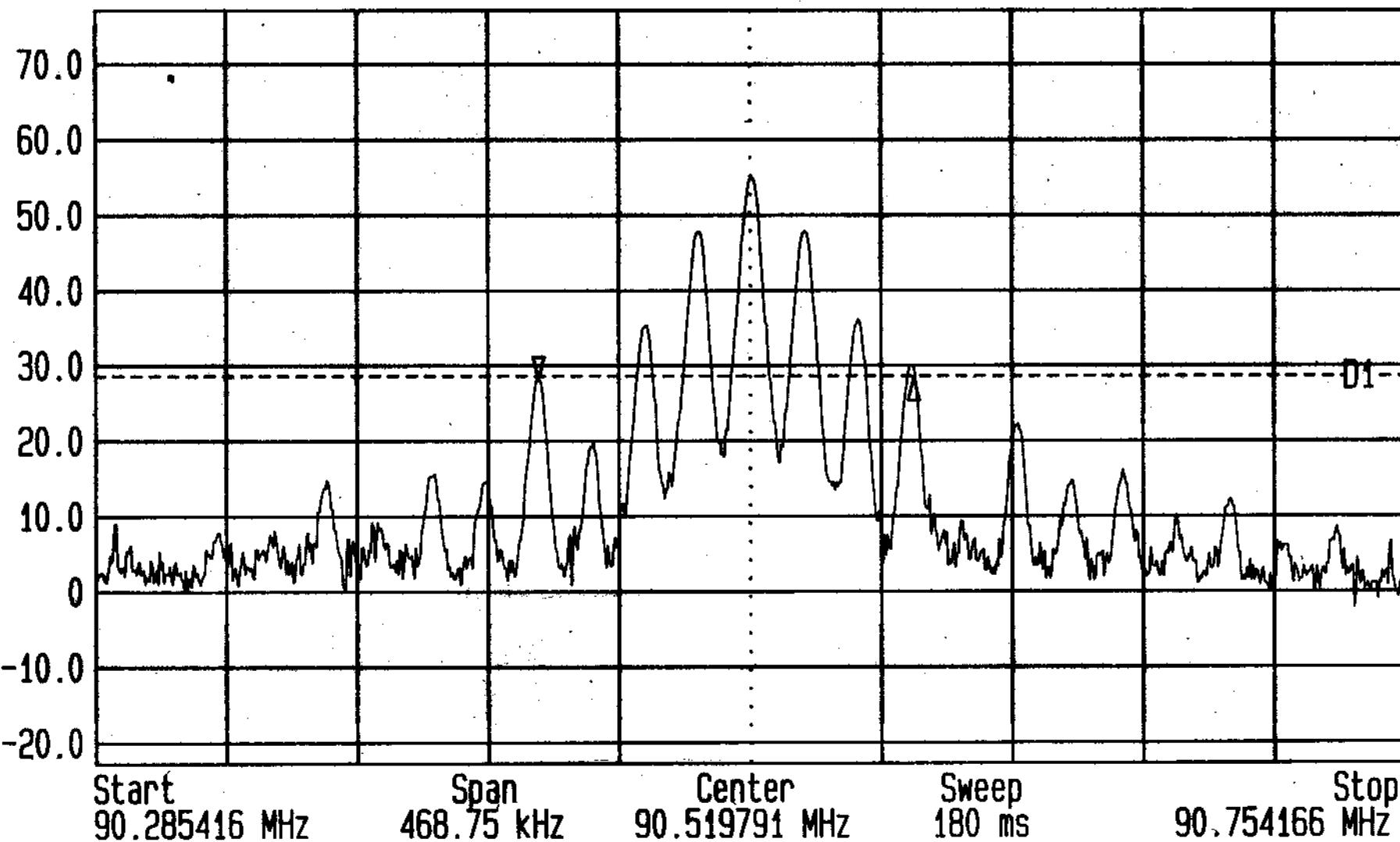
Date 12.Sep.'01 Time 12:07:06  
Ref.Lvl Delta 0.38 dB  
77.00 dB $\mu$ V 134.3 kHz

Res.Bw  
TG.Lvl  
CF.Stp

3.0 kHz [3dB] off  
46.875 kHz

Vid.Bw  
RF.Att  
Unit

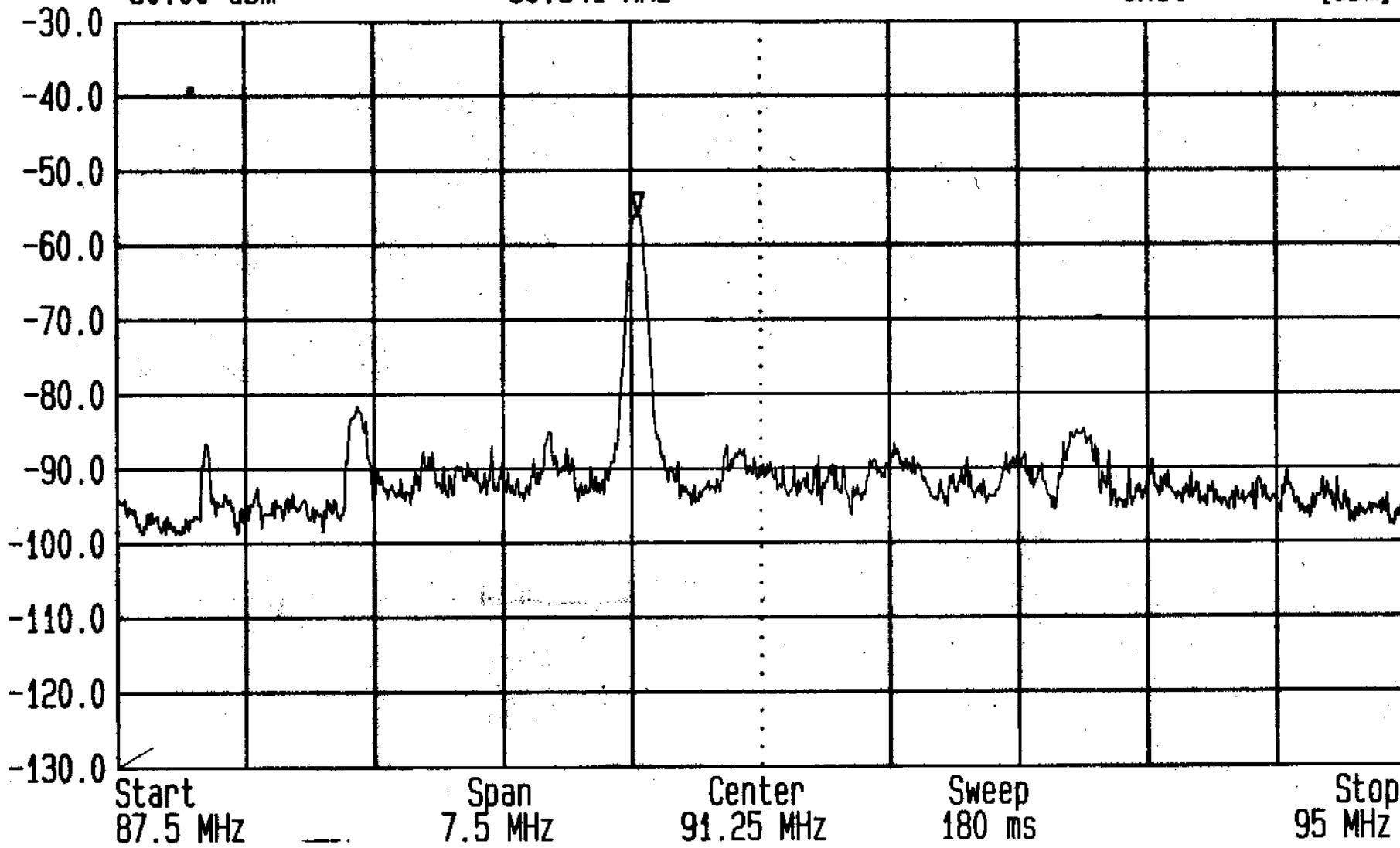
10 kHz  
0 dB  
[dB $\mu$ V]





Date 12.Sep.'01 Time 11:47:13  
Ref.Lvl Marker -55.92 dBm  
-30.00 dBm 90.541 MHz

Res.Bw 30.0 kHz [3dB] Vid.Bw 100 kHz  
TG.Lvl off RF.Att Unit  
CF.Stp 750.000 kHz 0 dB  
[dBm]





Date 12.Sep.'01 Time 11:44:30  
Ref.Lvl Marker -51.71 dBm  
-30.00 dBm 105.450 MHz

Res.Bw 30.0 kHz [3dB] Vid.Bw 100 kHz  
TG.Lvl off RF.Att Unit  
CF.Stp 500.000 kHz 0 dB  
[dBm]

