

FCC Part 15
EMI TEST REPORT

of

E.U.T. : A Transmit Unit of Radio Frequency
Remote Controlled Device

FCC ID. : OZIRC-04

MODEL : RC-04

Working Frequency : 303.45 ~ 304.45 MHz

for

APPLICANT : San Shih Electrical Enterprise Co., Ltd.
ADDRESS : No. 209, Sec. 3, County Boulevard, Pan Chiao
City, Taipei Hsien, Taiwan, R.O.C.

Test Performed by

ELECTRONICS TESTING CENTER, TAIWAN
NO. 34, LIN 5, DING FU TSUN, LINKOU HSIANG
TAIPEI HSIEN, TAIWAN, R.O.C.

TEL : (02)26023052

FAX: (02)26010910

http : // www.etc.org.tw ; e-mail : etcemi@seed.net.tw

Report Number : ET92R-01-018

TEST REPORT CERTIFICATION

Applicant : San Shih Electrical Enterprise Co., Ltd.
No. 209, Sec. 3, County Boulevard, Pan Chiao City, Taipei Hsien,
Taiwan, R.O.C.

Manufacturer : Zongpro Electrical (Shenzhen) Ltd.
Pan Ten 2nd Industrial Zone Buji Town, Lung Gun Zone, Shenzhen,
China.

Description of EUT :

a) Type of EUT : A Transmit Unit of Radio Frequency
Remote Controlled Device
b) Trade Name : ----
c) Model No. : RC-04
d) FCC ID : OZIRC-04
e) Working Frequency : 303.45 ~ 304.45 MHz
f) Power Supply : DC 12V Battery

Regulation Applied : FCC Rules and Regulations Part 15 Subpart C (2002)

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.

Note : 1. The results of the testing report relate only to the items tested.
2. The testing report shall not be reproduced except in full, without the written approval of ETC.

Issued Date : Mar. 19, 2003

Test Engineer : Eric Chen
(Eric Chen)

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 | : A Transmit Unit of Radio Frequency Remote Controlled Device |
| b) Trade Name | : ---- |
| c) Model No. | : RC-04 |
| d) FCC ID | : OZIRC-04 |

1.2 Characteristics of Device:

- | | |
|--------------------------|-----------------------|
| a) Power Supply | : DC 12V Battery |
| b) Frequency | : 303.45 ~ 304.45 MHz |
| c) Transmission Power | : Below 10mW |
| d) Operating Temperature | : -30C ~ +60C |

1.3 Test Methodology

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

The Transmitter under test was operated continuously in its normal operating mode for the purpose of the measurements. In order to secure the continuous operation of the device under test, rewiring in the circuit was done by the manufacturer so as to affect its intended operation. 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 Transmitter under test.

In order to determining the average value during one pulse train of the radiated power generated from the Transmitter under test, the encoded wave form in the time domain was used.

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, Taipei Hsien, Taiwan, 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:

Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50Ω/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency MHz	Quasi Peak dB μV	Average dB μV
0.15 - 0.5	66-56*	56-46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

* Decreases with the logarithm of the frequency

For intentional device, according to § 15.207(a) Line Conducted Emission Limits is same as above table.

(2) Radiated Emission Limits :

According to 15.231, Periodic operation in the band 40.66-40.70 MHz and above 70 MHz, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Frequency Band (MHz)	Field strength of Fundamental (uV/m)	Field strength of Spurious (uV/m)
40.66-40.70	2250	225
70-130	1250	125
130-174	*1,250 to 3,750	*125 to 375
174-260	3750	375
260-470	*3,750 to 12,500	*375 to 1250
Above 470	12500	1250

* Linear interpolations.

According to 15.235, 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 $\mu\text{V}/\text{meter}$	$\text{dB}\mu\text{V}/\text{meter}$
49.82 - 49.90	10000	80

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 $\mu\text{V}/\text{meter}$	$\text{dB}\mu\text{V}/\text{meter}$
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) Limit of transmission time

- a) A manually operated Transmitter shall employ a switch that will automatically deactivate the Transmitter (Transmitter) within not more than 5 seconds of being released.
- b) A Transmitter activated automatically shall cease transmission within 5 seconds after activation.

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 SYSTEM TEST CONFIGURATION

3.1 Justification

All measurement were intentional to maximum the emissions from EUT by varying the connection cables, therefore, the test result is sure to meet the applicable requirement.

3.2 Devices for Tested System

Device	Manufacture	Model / FCC ID.	Description
A Transmit Unit of Radio Frequency Remote Controlled Device*	Zongpro Electrical (Shenzhen) Ltd.	RC-04 OZIRC-04	----

Remark “*” means equipment under test.

4. RADIATED EMISSION MEASUREMENT

4.1 Applicable Standard

For periodic operation intentional radiator, the radiated emission shall comply with § 15.231(b).

4.2 Measurement Procedure

A. Preliminary Measurement For Portable Devices

For portable devices, the following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

B. Final Measurement

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

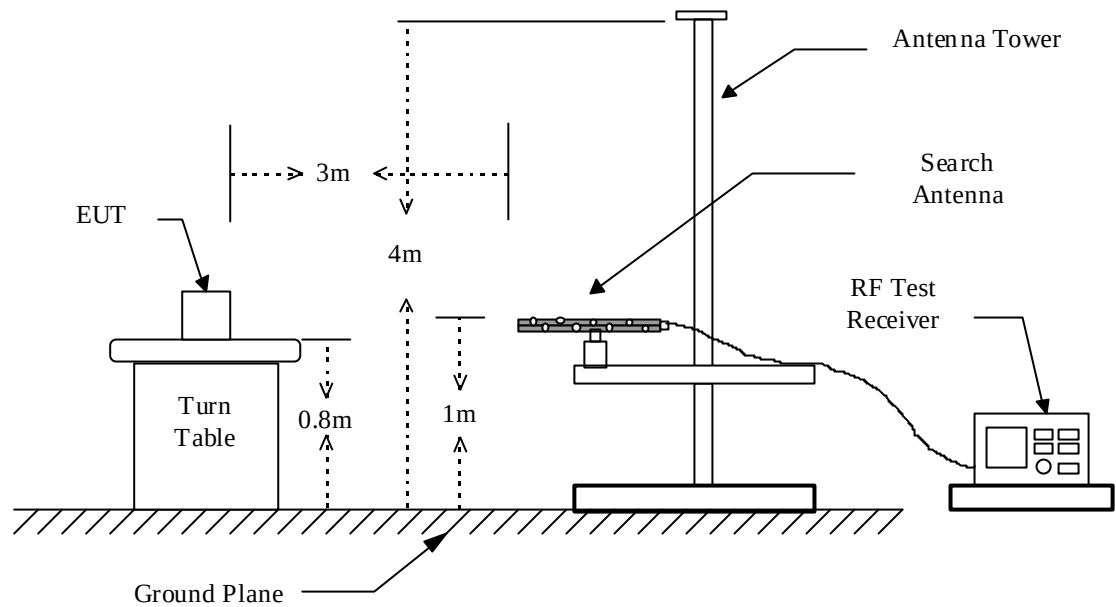
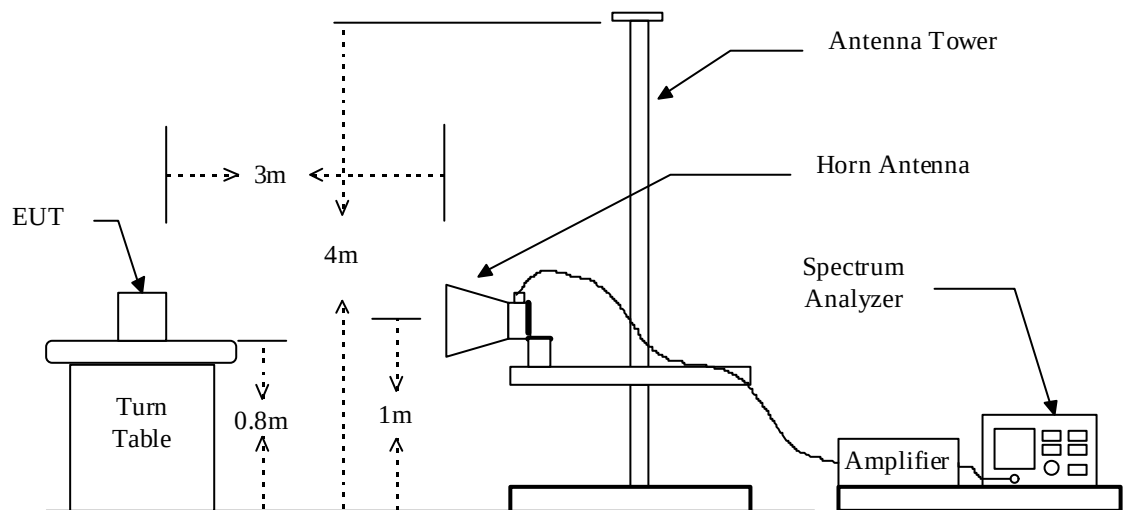


Figure 2 : Frequencies measured above 1 GHz configuration



4.3 Test Data

303.457MHz

Operation Mode : WorkingTest Date : Mar. 03, 2003Temperature : 25 °CHumidity: 65 %

Frequency (MHz)	Peak Reading (dBuV)		Factor (dB)		Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (m)
	H	V	C	D	Peak	Ave.	Peak	Ave.			
303.457	82.9	79.7	-7.0	-7.3	75.9	68.6	94.9	74.9	-6.3	160	1.00
606.843	56.9	55.6	-4.2	-7.3	52.7	45.4	74.9	54.9	-9.5	180	1.20
910.143	46.3	48.8	2.3	-7.3	48.6	41.3	74.9	54.9	-6.3	150	1.35
* 1214.200	53.3	49.2	-8.8	-7.3	44.5	37.2	74.0	54.0	-16.8	160	1.50
* 1516.920	47.2	45.2	-7.4	-7.3	39.8	32.5	74.0	54.0	-21.5	170	1.40
1820.300	43.8	42.8	-5.6	-7.3	38.2	30.9	74.9	54.9	-23.1	160	1.30
2124.199	---	---	-4.1	-7.3	---	---	74.9	54.9	---	---	---
2427.656	---	---	-3.0	-7.3	---	---	74.9	54.9	---	---	---
* 2731.113	---	---	-2.0	-7.3	---	---	74.0	54.0	---	---	---
3034.570	---	---	-1.1	-7.3	---	---	74.9	54.9	---	---	---

Note :

1. Factor C means “corrected”, and that includes antenna factor, cable loss, amplifier gain (if any). And Factor D means “Duty”, that is for calculating the average value and derived from section 3.6 in this test report.
2. Peak Result = Reading + C. Factor
Ave. Result = Peak Value + D Factor
3. “*” means the frequency fall in the restricted frequency band, and the limit of emission is referred to FCC class B
4. The limit for spurious emissions refers to FCC §15.231.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

If the measured frequencies fall in the restricted frequency band, the limit employed is § 15.209 general requirement when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function, no duty factor applied.

304.193MHzOperation Mode : WorkingTest Date : Mar. 03, 2003Temperature : 25 °CHumidity: 65 %

Frequency (MHz)	Peak Reading (dBuV)		Factor (dB)		Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (m)
	H	V	C	D	Peak	Ave.	Peak	Ave.			
304.193	81.3	80.6	-6.9	-8.0	74.4	66.4	95.0	75.0	-8.6	120	1.0
* 609.065	58.7	58.4	-4.1	-8.0	54.6	46.6	66.0	46.0	-0.6	260	1.1
913.586	43.8	40.4	2.3	-8.0	45.8	37.8	95.0	75.0	-37.2	130	1.5
* 1216.430	54.7	52.7	-8.7	-8.0	46.0	38.0	74.0	54.0	-16.0	180	1.4
* 1520.530	43.5	42.1	-7.4	-8.0	36.1	28.1	74.0	54.0	-25.9	180	1.2
1824.570	43.8	42.5	-5.6	-8.0	38.2	30.2	95.0	75.0	-23.8	120	1.2
2129.351	---	---	-4.1	-8.0	---	---	95.0	75.0	---	---	---
2433.544	---	---	-3.0	-8.0	---	---	95.0	75.0	---	---	---
* 2737.737	---	---	-2.0	-8.0	---	---	74.0	54.0	---	---	---
3041.930	---	---	-1.1	-8.0	---	---	95.0	75.0	---	---	---

Note :

1. Factor C means “corrected”, and that includes antenna factor, cable loss, amplifier gain (if any). And Factor D means “Duty”, that is for calculating the average value and derived from section 3.6 in this test report.
2. Peak Result = Reading + C. Factor
Ave. Result = Peak Value + D Factor
3. “*” means the frequency fall in the restricted frequency band, and the limit of emission is referred to FCC class B
4. The limit for spurious emissions refers to FCC §15.231.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

If the measured frequencies fall in the restricted frequency band, the limit employed is § 15.209 general requirement when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function, no duty factor applied.

4.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor, High Pass Filter Loss(if used) and Cable Loss, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation calculation is as follows:

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

where Corrected Factor

$$= \text{Antenna FACTOR} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$

4.5 Activate Time

This EUT is operated by Manual, and Activate Time is less than 5 second after being released.

4.6 Calculation of Duty Factor

The duty factor is calculated with following formula :

303.457MHz :

$$20\log \frac{\text{Total Duty}}{\text{Period of Pulse Train}}$$

$$20\log \frac{(1\text{ms} \times 11) + (0.3556\text{ms} \times 14)}{36.89\text{ms}} = -7.3\text{dB}$$

304.193MHz :

$$20\log \frac{\text{Total Duty}}{\text{Period of Pulse Train}}$$

$$20\log \frac{(0.8889\text{ms} \times 10) + (0.3556\text{ms} \times 15)}{35.9\text{ms}} = -8.0\text{dB}$$

Note : Please see appendix 1 for Plotted Data

4.7 Radiated Test Equipment

Equipment	Manufacturer	Model No.	Next Cal. Date
Spectrum Analyzer	Hewlett-Packard	8568B	01/10/2004
Pre-selector	Hewlett-Packard	85685A	01/10/2004
Quasi Peak Detector	Hewlett-Packard	85650A	01/10/2004
Spectrum Analyzer	Hewlett-Packard	8564E	04/22/2003
RF Test Receiver	Rohde & Schwarz	ESVS 30	08/06/2003
Horn Antenna	EMCO	3115	05/10/2003
Log periodic Antenna	EMCO	3146	11/04/2003
Biconical Antenna	EMCO	3110B	11/04/2003
Preamplifier	Hewlett-Packard	8449B	05/10/2003
Preamplifier	Hewlett-Packard	8447D	10/14/2003

4.8 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
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz
	Spectrum Analyzer	Average	1 MHz	300 Hz

4.9 Radiated Measurement Photos



5. BANDWIDTH OF EMISSION

5.1 Applicable Standard Plot Graphic of Bandwidth

Per FCC rule § 15.231(c), the permitted emission bandwidth is no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz.

5.2 Bandwidth Test Equipment

Equipment	Manufacturer	Model No.	Next Cal. Date
EMI Test Receiver	Rohde and Schwarz	ESBI	05/16/2003
Plotter	Hewlett-Packard	7550A	N/A

5.3 Plot Graphic of Bandwidth

The emission bandwidth limit for this transmitter is

a) 303.457 MHz

$$303.457 \text{ MHz} \times 0.25\% = 758.643 \text{ KHz}$$

$$20 \text{ dB bandwidth} = 103.3 \text{ KHz}$$

Test Result: 103.3KHz < 758.643 KHz.

b) 304.193 MHz

$$304.193 \text{ MHz} \times 0.25\% = 760.483 \text{ KHz}$$

$$20 \text{ dB bandwidth} = 62.2 \text{ KHz}$$

Test Result: 62.2KHz < 760.483 KHz.

Note : Please see appendix 2 for Plotted Data

6. CONDUCTED EMISSION MEASUREMENT

6.1 Description

This EUT is excused from investigation of conducted emission, for it is powered by DC 12V only. According to § 15.207 (d), measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

7 ANTENNA REQUIREMENT

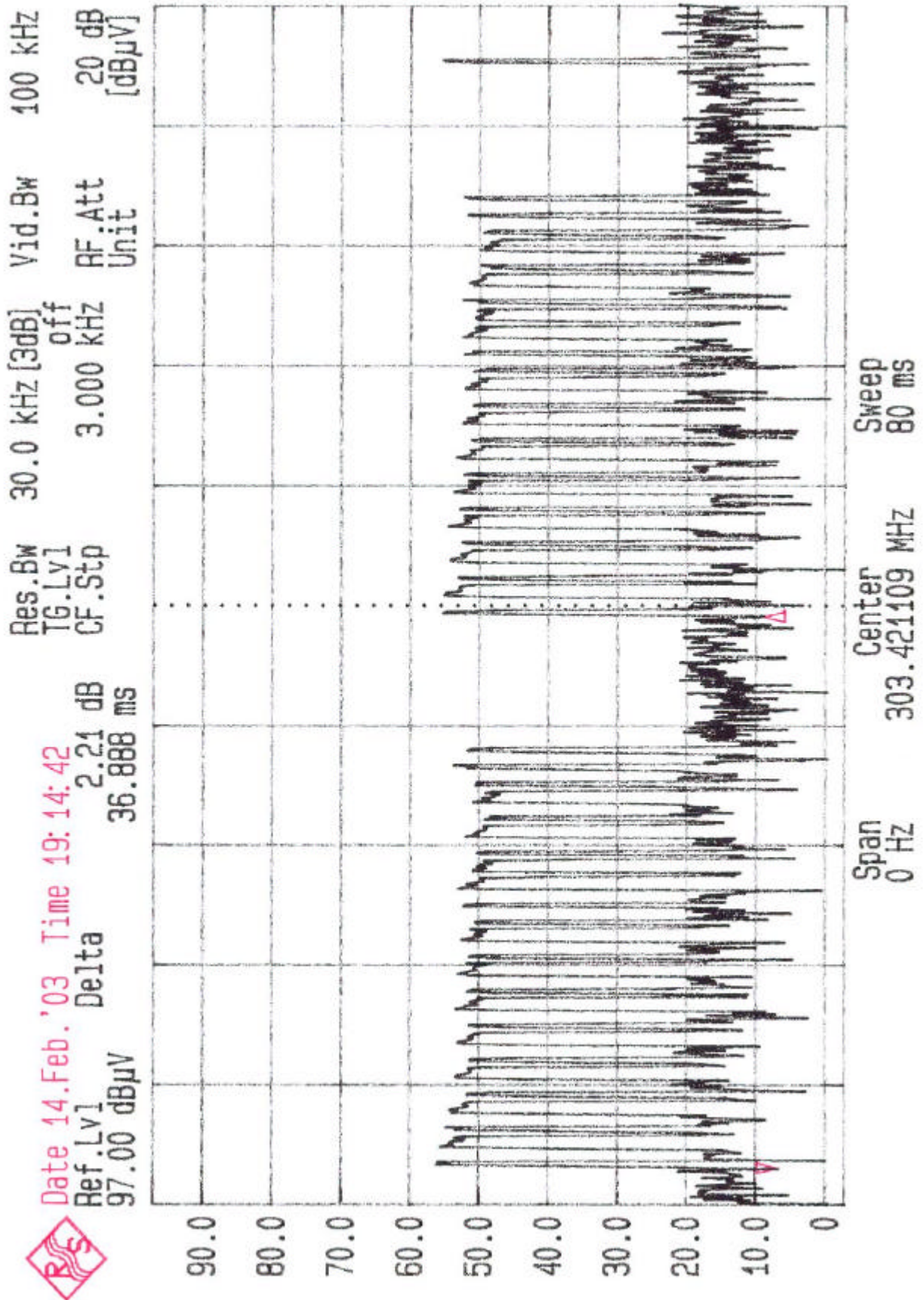
7.1 Standard Applicable

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.

7.2 Antenna Construction

The antenna is permanently mounted on RF Board, no consideration of replacement.
Please see photos submitted in Exhibit B.

APPENDIX 1 : PLOTTED DATA FOR DUTY FACTOR

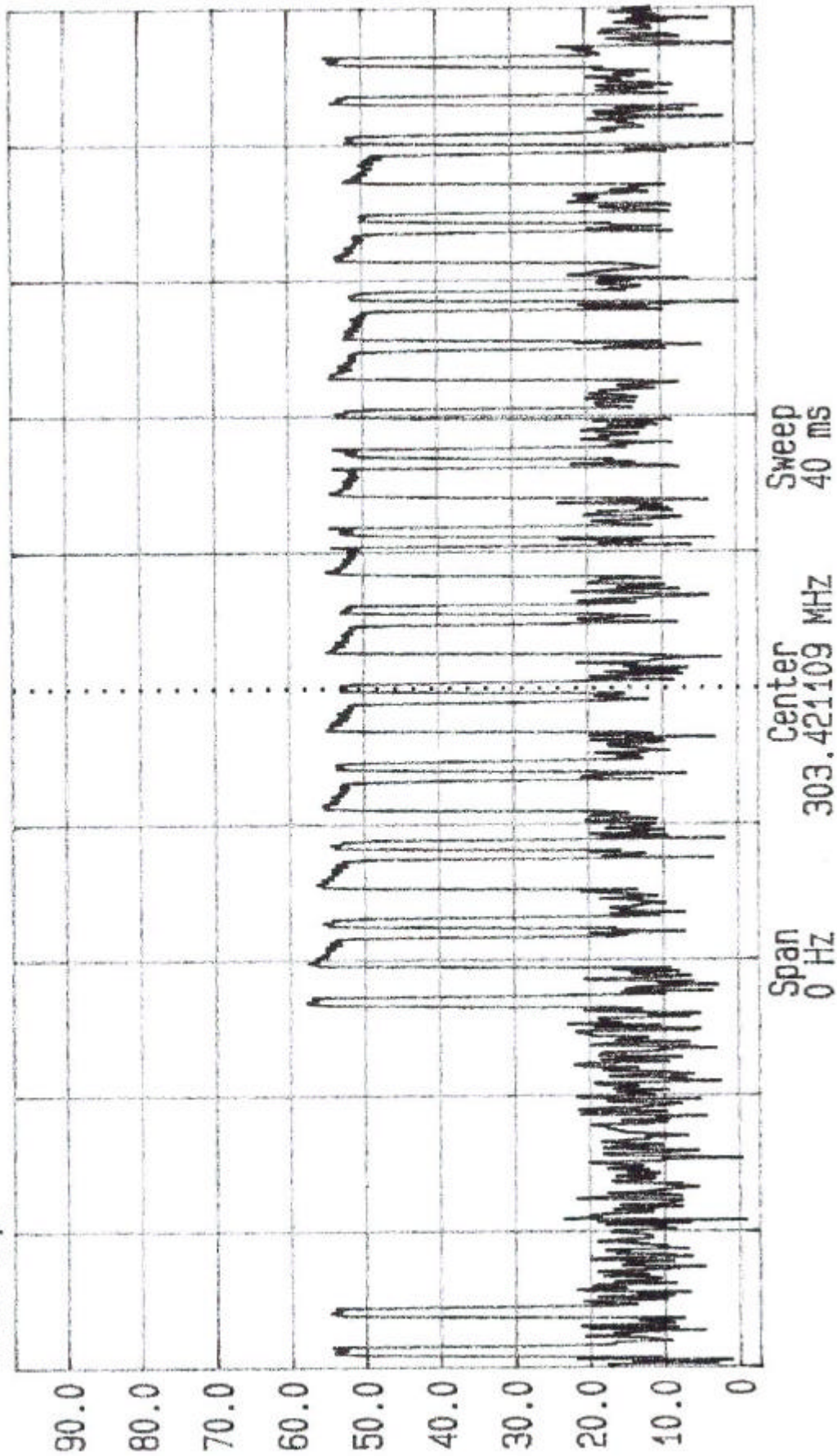




Date 14.Feb.'03 Time 19:20:35

Ref.Lvl
97.00 dBμV

Res.Bw 30.0 kHz [3dB]
TG.Lvl off
CF.Stp 3.000 kHz
Vid.Bw 100 kHz
RF.Att 20 dB
Unit [dBμV]

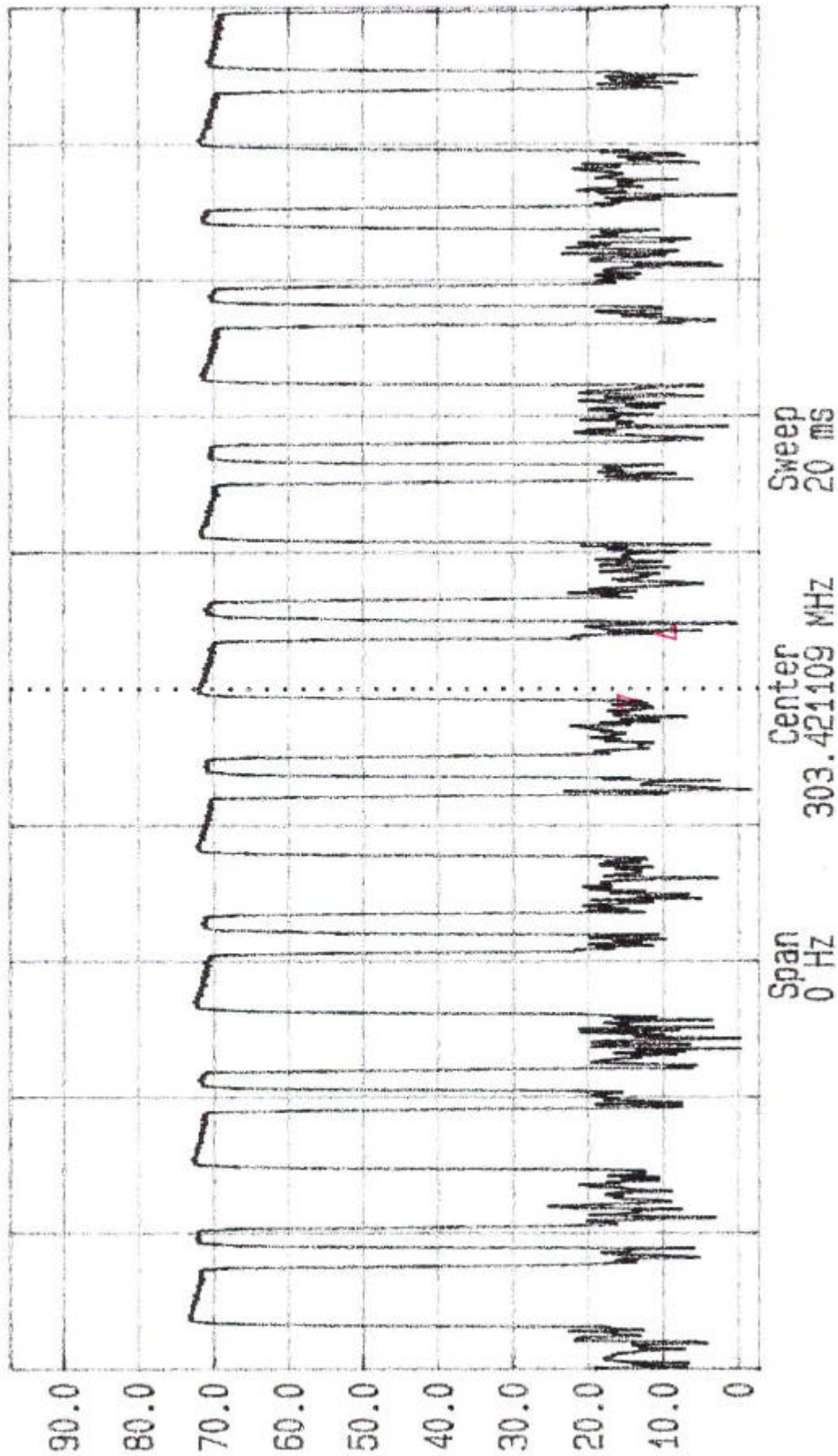




Date 14.Feb.'03 Time 19:24:57

Ref.Lvl Delta

97.00 dBμV

-1.50 dB
1.000 msRes.Bw 30.0 kHz [3dB]
TG.Lvl off
CF.Stp 3.000 kHz
Vid.Bw 100 kHz
RF.Att 20 dB
Unit [dBμV]Span 0 Hz
Center 303.421109 MHz
Sweep 20 ms

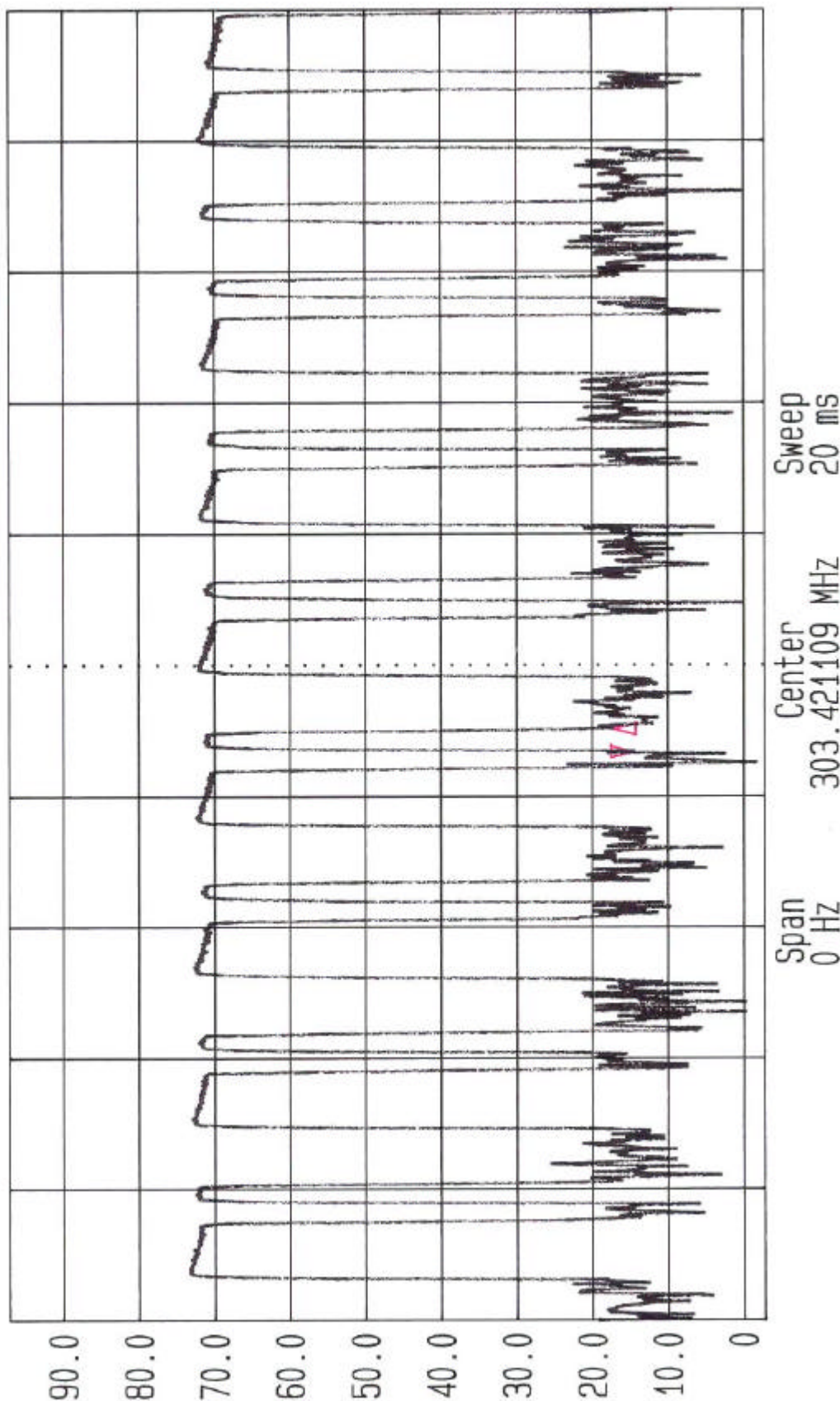


Date 14.Feb.'03 Time 19:29:15

Ref.Lvl Delta

97.00 dBμV 2.87 dB 355.556 μs

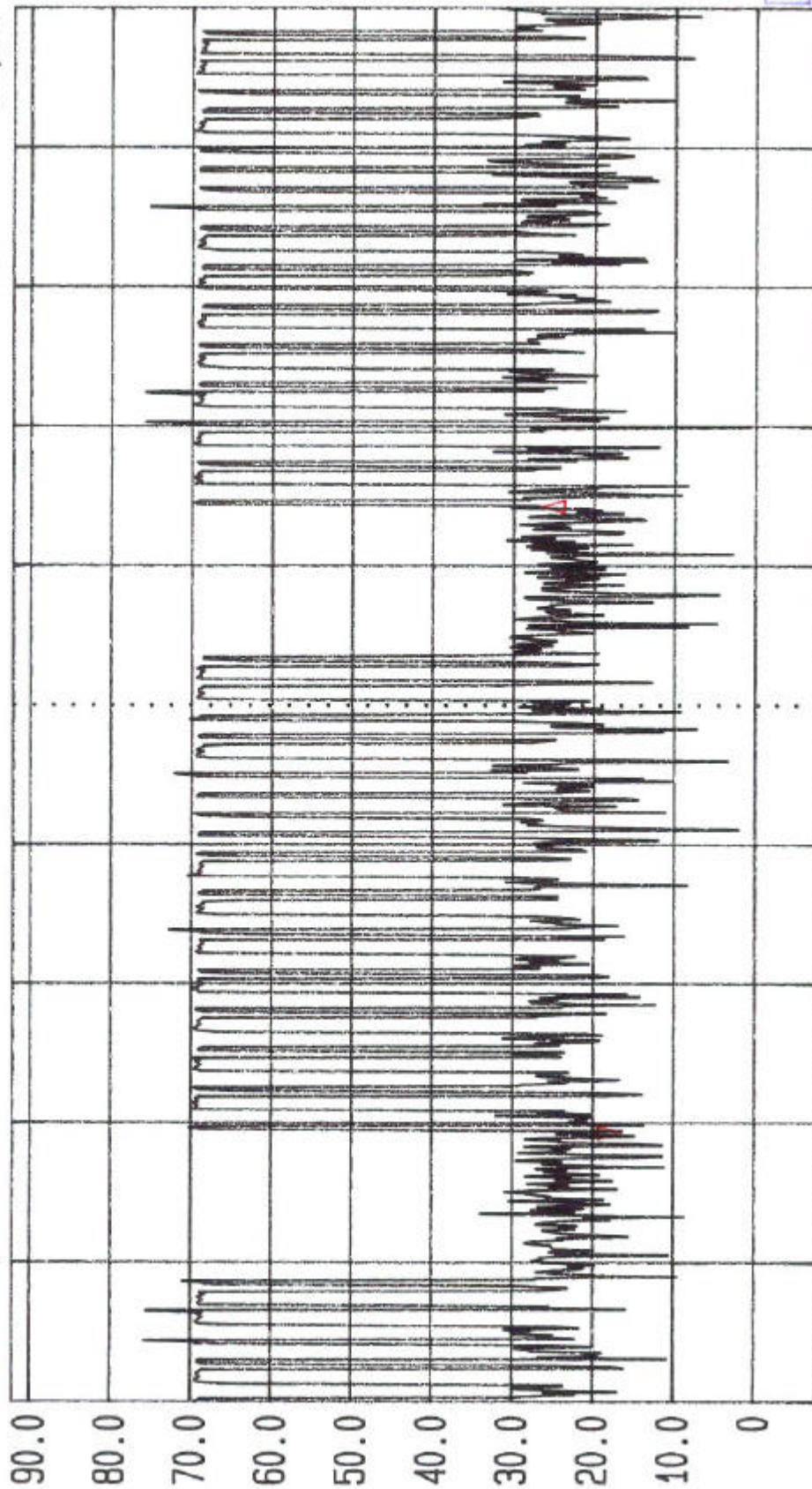
Res.Bw 30.0 kHz [3dB] off
TG.Lvl 3.000 kHz
CF.Stp
Vid.Bw 100 kHz
RF.Att 20 dB
Unit [dBμV]





Date 03.Mar.'03 Time 20:12:58
Ref.Lvl 92.10 dBμV
Delta 10.36 dB
35.911 ms

Res.Bw 120 kHz [imp]
TG.Lvl off
CF.Stp 12.000 kHz
Vid.Bw 300 kHz
RF.Att 20 dB
Unit [dBμV]



Span 0 Hz
Center 304.142217 MHz
Sweep 80 ms

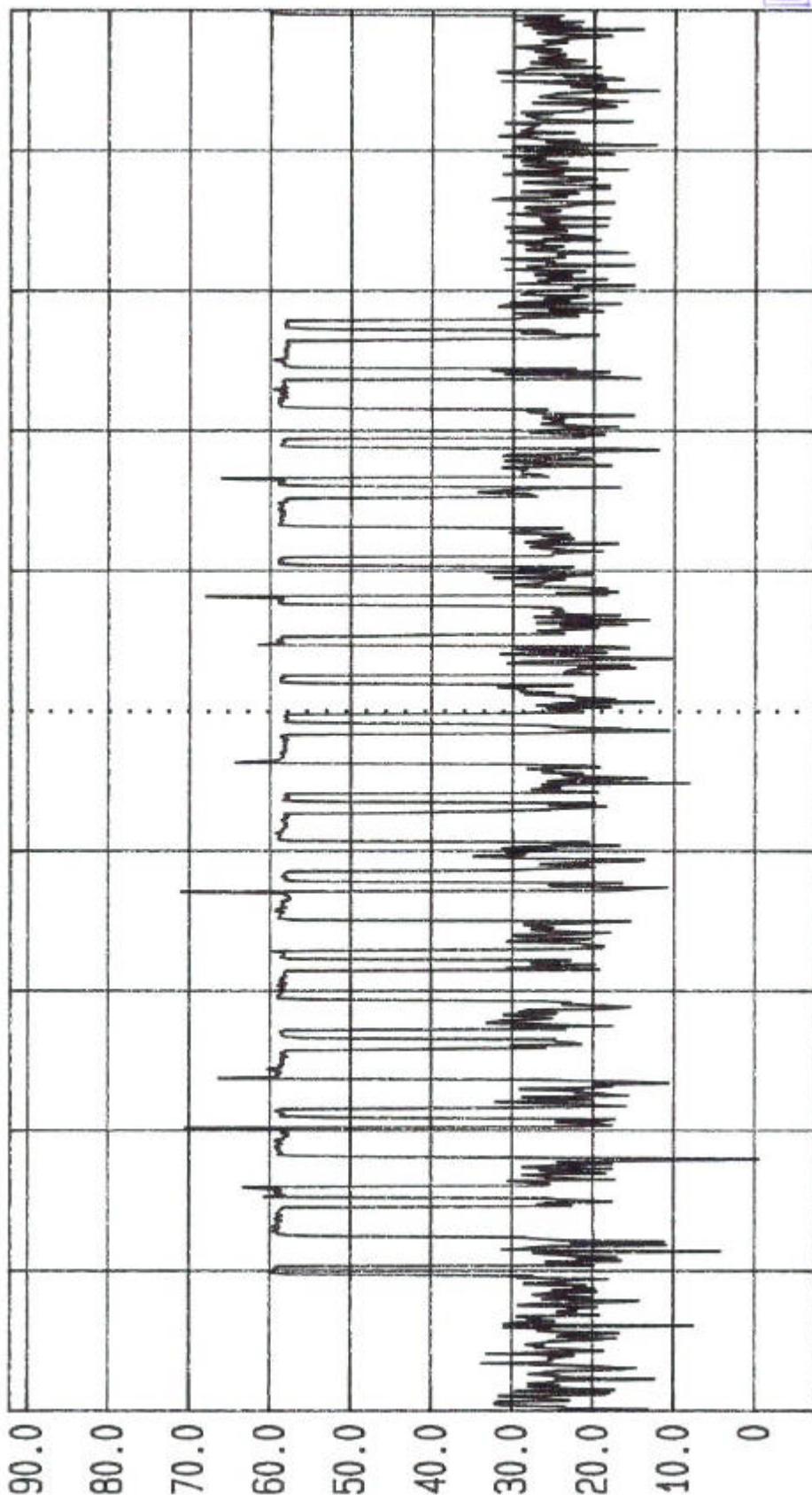
FI



Date 03.Mar.'03 Time 20:19:50

Ref.Lvl
92.10 dBμV

Res.Bw 120 kHz [imp] 300 kHz
TG.Lvl Off
CF.Stp 12.000 kHz
RF.Att 20 dB
Unit [dBμV]



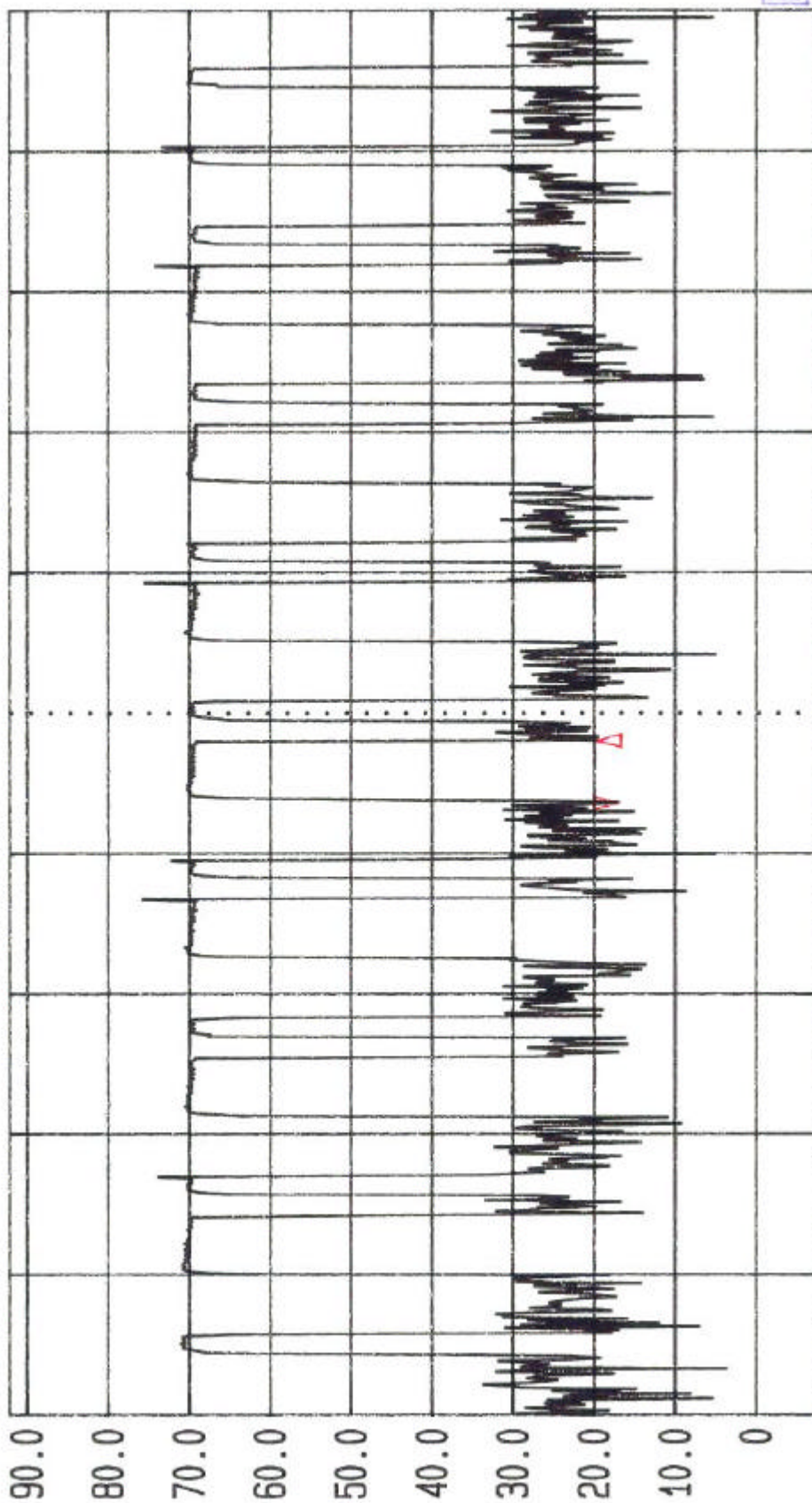
Span 0 Hz
Center 304.142217 MHz
Sweep 40 ms

[F1]



Date 03.Mar.'03 Time 20:25:17
Ref.Lvl 92.10 dBμV
Delta 888.889 μs

Res.Bw 120 kHz [imp]
TG.Lvl off
CF.Stp 12.000 kHz
Vid.Bw 300 kHz
RF.Att 20 dB
Unit [dBμV]



FI

Span 0 Hz
Center 304.142217 MHz
Sweep 20 ms



Date 03.Mar.'03 Time 20:29:38

Ref.Lvl Delta

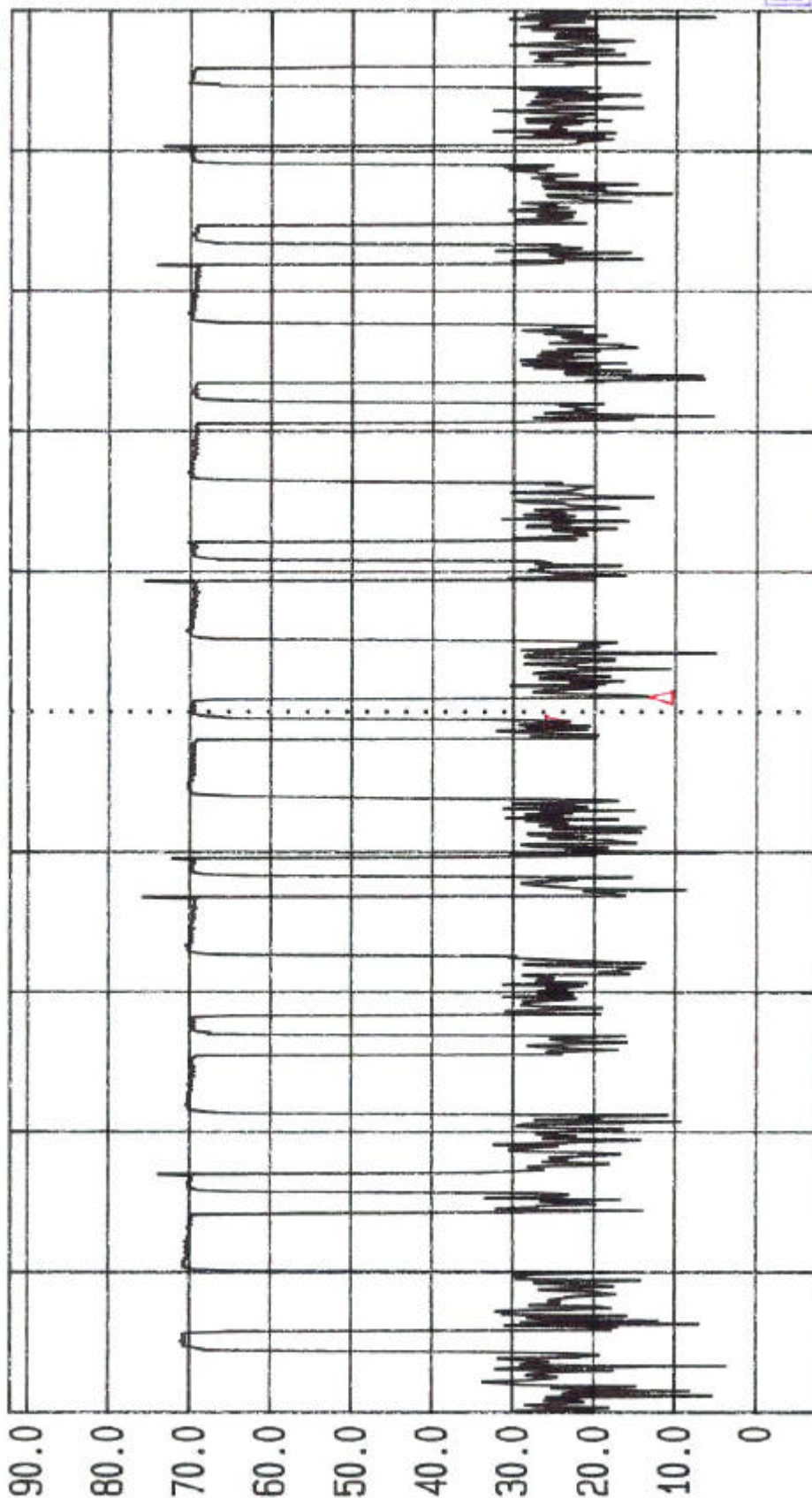
92.10 dBμV

-9.47 dB

355.556 μs

Res.Bw 120 kHz [imp] off
TG.Lvl 12.000 kHz
CF.Stp

Vid.Bw 300 kHz
RF.Att 20 dB
Unit [dBμV]



Span 0 Hz
Center 304.142217 MHz
Sweep 20 ms

FI

APPENDIX 2 : PLOTTED DATA FOR BANDWIDTH

