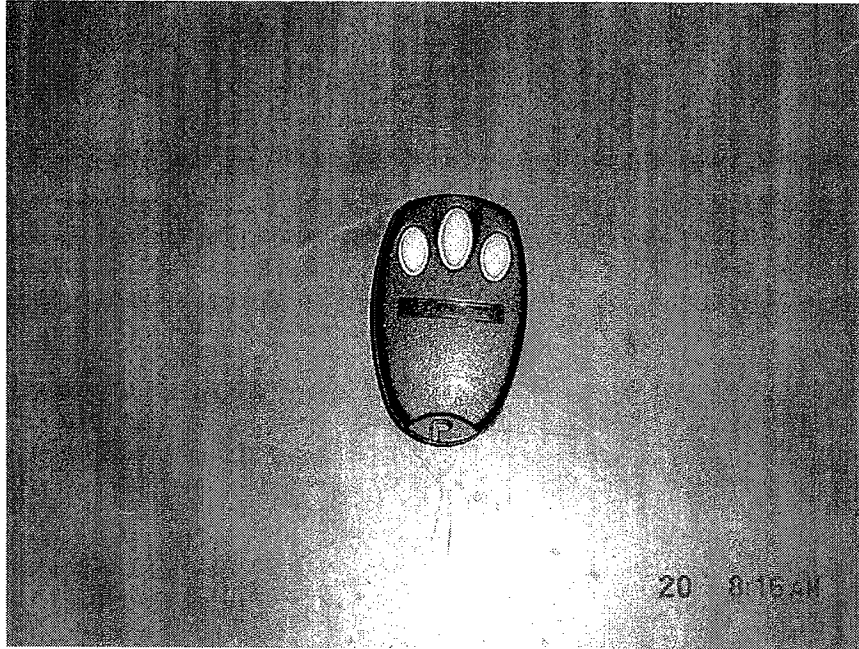


Elite Electronic Engineering, Inc.
1516 Centre Circle
Downers Grove, Illinois
(630) 495-9770
www.elitetest.com

Engineering Test Report Number 31567-01



MEASUREMENT OF RF INTERFERENCE FROM A MODEL CPTK3 TRANSMITTER

FOR: **Chamberlain**
845 Larch Ave.
Elmhurst, Illinois 60126

Dates Tested: October 18, 2002

Test Specifications: FCC "Code of Federal Regulations" Title 47
Part 15, Subpart C, Section 15.205



ENGINEERING TEST REPORT NO. 31567-01
ADMINISTRATIVE DATA AND SUMMARY OF TESTS

DESCRIPTION OF TEST ITEM: Transmitter

MODEL NO: CPTK3

SERIAL NO: A16

MANUFACTURER: Chamberlain

APPLICABLE SPECIFICATIONS: FCC "Code of Federal Regulations"
Title 47, Part 15, Subpart C

QUANTITY OF ITEMS TESTED: One (1)

TEST PERFORMED BY: ELITE ELECTRONIC ENGINEERING INCORPORATED
Radio Interference Consultants
Downers Grove, Illinois 60515

DATE RECEIVED: October 18, 2002

DATE TESTED: October 18, 2002

PERSONNEL (OPERATORS, OBSERVERS, AND CO-ORDINATORS):

CUSTOMER: No Chamberlain personnel were present.

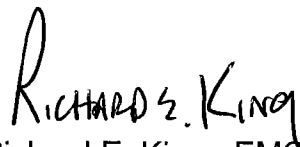
ELITE ELECTRONIC: Richard E. King

ELITE JOB NO.: 31567

ABSTRACT: The model CPTK3 Transmitter, does meet the radiated emission requirements of the FCC "Code of Federal Regulations" Title 47, Part 15, Subpart C, Section 15.205 et seq. for Intentional Radiators, when tested per ANSI C63.4-1992.

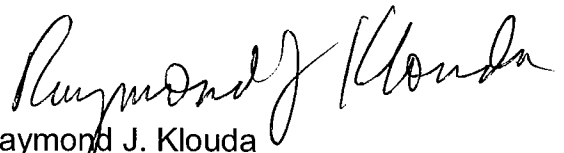
The radiated emissions level closest to the limit (worst case) occurred at 1560MHz. The emissions level at this frequency was 0.1 dB within the limit. See data page 17 for more details.

Report By:



Richard E. King - EMC Engineer

Approved By:



Raymond J. Klouda
Registered Professional
Engineer of Illinois - 44894

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**TOTAL NUMBER OF PAGES IN THIS DOCUMENT,
(INCLUDING DATA SHEETS): 18**

**THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE
WRITTEN APPROVAL OF ELITE ELECTRONIC ENGINEERING INCORPORATED.**

ENGINEERING TEST REPORT NO. 31567-01
MEASUREMENT OF RF INTERFERENCE FROM
A MODEL CPTK3 TRANSMITTER

1.0 INTRODUCTION:

1.1 DESCRIPTION OF TEST ITEM: This document presents the results of a series of radio interference measurements performed on a model CPTK3 Transmitter, serial number A16 (hereinafter referred to as the test item). The test item was designed to transmit at approximately 390MHz using an internal antenna. The tests were performed for Chamberlain of Elmhurst, Illinois.

1.2 PURPOSE: The test series was performed to determine if the test item meets the conducted and radiated RF emission requirements of the FCC "Code of Federal Regulations" Title 47, Part 15, Subpart C, Sections for Intentional Radiators. Testing was performed in accordance with ANSI C63.4-1992.

1.3 DEVIATIONS, ADDITIONS AND EXCLUSIONS: There were no deviations, additions to, or exclusions from the test specification during this test series.

1.4 APPLICABLE DOCUMENTS: The following documents of the exact issue designated form part of this document to the extent specified herein:

- Federal Communications Commission "Code of Federal Regulations", Title 47, Part 15, Subpart C, dated 1 October 2001
- ANSI C63.4-2001, "American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz"

1.5 SUBCONTRACTOR IDENTIFICATION: This series of tests was performed by Elite Electronic Engineering Incorporated of Downers Grove, Illinois. The laboratory is accredited by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP). NVLAP Lab Code: 100278-0.

1.6 LABORATORY CONDITIONS: The temperature at the time of the test was 23°C and the relative humidity was 66%.

2.0 TEST ITEM SETUP AND OPERATION:

A block diagram of the test item setup is included as Figure 1.

2.1 POWER INPUT: The test item was powered with 3VDC through a 3VDC battery.

2.2 GROUNDING: Since the test item was powered with 3VDC through a 3VDC battery, it was ungrounded during the tests.

2.3 PERIPHERAL EQUIPMENT: There was no peripheral equipment submitted with the test item.

2.4 INTERCONNECT CABLES: There were no interconnect cables submitted with the test item.

2.5 OPERATIONAL MODE: For all tests the test item and all peripheral equipment were placed on a 80cm high non-conductive stand. The test item and all peripheral equipment was energized.

For all tests, the test item's transmit button was held down thereby setting the unit to transmit continuously. Transmission was verified by observation of an LED which was lit whenever the transmit button was enabled. The transmitting mechanism automatically deactivated when released. The battery voltage was periodically checked to ensure proper operation at maximum level. The tests were performed with the test item operating at 390MHz.

3.0 TEST EQUIPMENT:

3.1 TEST EQUIPMENT LIST: A list of the test equipment used can be found on Table I. All equipment was calibrated per the instruction manuals supplied by the manufacturer.

The fundamental, harmonics and spurious emissions were measured with a spectrum analyzer. The spectrum analyzer peak detected readings were converted to average readings using a duty cycle factor. All measurements were taken with the resolution and video bandwidth of the measuring instrument adjusted to 100kHz below 1GHz and 1MHz above 1GHz.

The duty cycle factor was calculated from the pulse train for the test item. A data plot

was obtained to determine the duty cycle factor. The duty cycle factor was computed as the Word ON time divided by the Word period (ON time + OFF time). The duty cycle factor in dB = $20 \log(\text{Word ON}/\text{Word period})$. If the word period is more than 100 milliseconds, then the duty cycle would be computed on the maximum Word ON time during a 100 millisecond period.

3.2 CALIBRATION TRACEABILITY: Test equipment is maintained and calibrated on a regular basis. All calibrations are traceable to the National Institute of Standards and Technology (NIST).

3.3 MEASUREMENT UNCERTAINTY: All measurements are an estimate of their true value. The measurement uncertainty characterizes, with a specified confidence level, the spread of values which may be possible for a given measurement system.

The measurement uncertainty budgets were based on guidelines in "ISO Guide to the Expression of Uncertainty in Measurements" and NAMAS NIS81 "The Treatment of Uncertainty in EMC Measurements".

The measurement uncertainty for these tests is presented below:

Conducted Emission Measurements:

| | | |
|---------------------------------------|------|-------|
| Combined Standard Uncertainty | 1.07 | -1.07 |
| Expanded Uncertainty (95% confidence) | 2.1 | -2.1 |

Radiated Emission Measurements:

| | | |
|---------------------------------------|------|-------|
| Combined Standard Uncertainty | 2.26 | -2.18 |
| Expanded Uncertainty (95% confidence) | 4.5 | -4.4 |

4.0 REQUIREMENTS, PROCEDURES AND RESULTS:

4.1 POWERLINE CONDUCTED EMISSIONS:

4.1.1 REQUIREMENTS: Since the test item was powered by internal batteries, no conducted emissions tests were performed.

4.2 DUTY CYCLE FACTOR MEASUREMENTS:

4.2.1 PROCEDURES: The duty cycle factor is used to convert peak detected readings to average readings. This factor is computed from the time domain trace of the pulse modulation signal.

With the transmitter set up to transmit for maximum pulse density, the time domain

trace is displayed on the spectrum analyzer. This trace is obtained by tuning center frequency to the transmitter frequency and then setting a zero span width with 10msec/div. The amplitude settings are adjusted so that the on/off transitions clear the 4th division from the bottom of the display. The markers are set at the beginning and end of a word period. If the word period exceeds 100 msec the word period is set to 100 msec. The on-time and off-time are then measured. The on-time is total time signal level exceeds the 4th division. Off-time is time under for the word period. The duty cycle is then computed as the (On-time/ word period) where the word period = (On-time + Off-time).

4.2.2 RESULTS: A representative plot of the duty cycle is shown on data page 14. Since the transmitters use a rolling code the duty cycles used were calculated based on the worst case. The worst case information was supplied by Chamberlain. With the test item transmitting at 390MHz, the worst case duty cycle would be -10.2dB.

4.3 RADIATED MEASUREMENTS:

4.3.1 REQUIREMENTS: The test item must comply with the requirements of FCC "Code of Federal Regulations Title 47", Part 15, Subpart C, Section 15.205 et seq.

Paragraph 15.231(b) has the following radiated emission limits:

| Fundamental Frequency MHz | Field Intensity uV/m @ 3 meters | Field Strength Harmonics and Spurious @ 3 meters |
|---------------------------|---------------------------------|--|
| 260 to 470 | 3,750 to 12,500* | 375 to 1,250* |

* - Linear Interpolation

For 390MHz, the limit at the fundamental is 9166.7uV/m @ 3m and the limit on the harmonics is 916.7uV/m @ 3m.

In addition, emissions appearing in the Restricted Bands of Operation listed in paragraph 15.205(a) shall not exceed the general requirements shown in paragraph 15.209.

4.3.2 PROCEDURES:

4.3.2.1 PRELIMINARY RADIATED MEASUREMENTS: All preliminary tests were performed in a 32ft. x 20ft. x 14ft. high shielded enclosure. The shielded enclosure prevents emissions from other sources, such as radio and TV stations from interfering with the measurements. All powerlines and signal lines entering the enclosure pass through filters on the enclosure wall. The powerline filters prevent extraneous signals from entering the enclosure on these leads.

The broadband measuring antenna was positioned at a 3 meter distance from the test item. The entire frequency range from 30MHz to 5.0GHz was investigated using a peak detector function. The data was then processed by the computer to equivalent field intensity at 3 meters.

4.3.2.2 FINAL RADIATED MEASUREMENTS: Final open field measurements were manually performed at Elite's open field test site located in Downers Grove, Illinois. The open field test site is located in a clear area and is equipped with a 1/4-inch wire mesh ground plane. The facility complies with the test site criteria in ANSI C63.4-1992 and Section 2.948 of the FCC Rules.

Measurements were performed at a test distance of 3 meters using a peak detector. The peak detected levels were converted to average levels using a duty cycle factor which was computed from the pulse train.

The final open field emission tests were performed over the frequency range of 300MHz to 4000MHz. Between 300MHz and 1000MHz, a tuned dipole antenna was used as the pick-up device. A broadband double ridged waveguide antenna was above 1GHz. All significant broadband and narrowband signals were measured and recorded.

To ensure that maximum emission levels were measured, the following steps were taken:

- 1) Measurements were made using a quasi-peak detector and a broadband bi-log antenna.
- 2) To ensure that maximum, or worst case, emission levels were measured, the following steps were taken:

- (a) The test item was rotated so that all of its sides were exposed to the receiving antenna.
- (b) Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
- (c) The measuring antenna was raised and lowered from 1 to 4 meters for each antenna polarization to maximize the readings.

4.3.3 RESULTS: The preliminary plots, with the test item transmitting at 390MHz, are presented on data pages 15 and 16. The plots are presented for a reference only, and are not used to determine compliance.

The final open area radiated levels, with the test item transmitting at 390MHz, are presented on data page 17. As can be seen from the data, all emissions measured from the test item were within the specification limits. The emissions level closest to the limit (worst case) occurred at 1560MHz. The emissions level at this frequency was 0.1dB within the limit. See data page 17 for details. Photographs of the test configuration which yielded the highest, or worst case, radiated emission levels are shown on Figure 2.

4.4 OCCUPIED BANDWIDTH MEASUREMENTS:

4.4.1 REQUIREMENTS: In accordance with paragraph 15.231(c), all emissions within 20dB of the peak amplitude level of the center frequency are required to be within a band less than 0.25% of the center frequency wide.

4.4.2 PROCEDURES: The test item was placed on an 80cm high non-conductive stand. The unit was set to transmit continuously. With an antenna positioned nearby, occupied bandwidth emissions were displayed on the spectrum analyzer. The resolution bandwidth was set to 30 kHz and span was set to 2 MHz. The frequency spectrum near the fundamental was plotted.

4.4.3 RESULTS: The plot of the emissions near the fundamental frequency are presented on data page 18. As can be seen from this data page, the transmitter met the occupied bandwidth requirements.

5.0 CONCLUSION:

It was found that the Chamberlain model CPTK3 Transmitter, does meet the conducted and radiated emission requirements of the FCC "Code of Federal Regulations" Title 47, Part

15, Subpart C, Section 15.205 et seq. for Intentional Radiators, when tested per ANSI C63.4-1992.

6.0 CERTIFICATION:

Elite Electronic Engineering Incorporated certifies that the information contained in this report was obtained under conditions which meet or exceed those specified in the test specification.

The data presented in this test report pertains only to the test item at the test date. Any electrical or mechanical modification made to the test item subsequent to the specified test date will serve to invalidate the data and void this certification.

7.0 ENDORSEMENT DISCLAIMER:

This report must not be used to claim product endorsement by NVLAP or any agency of the US Government.

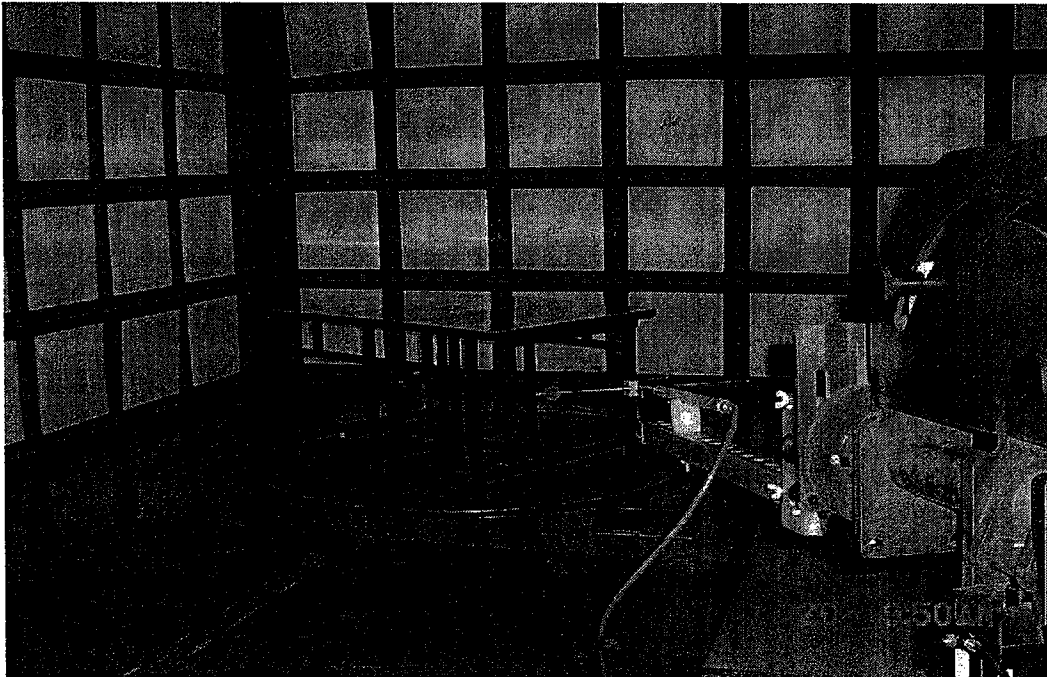


FIGURE 2a - TEST SETUP FOR HIGHEST RADIATED EMISSIONS MEASUREMENT HORIZONTAL POLARITY

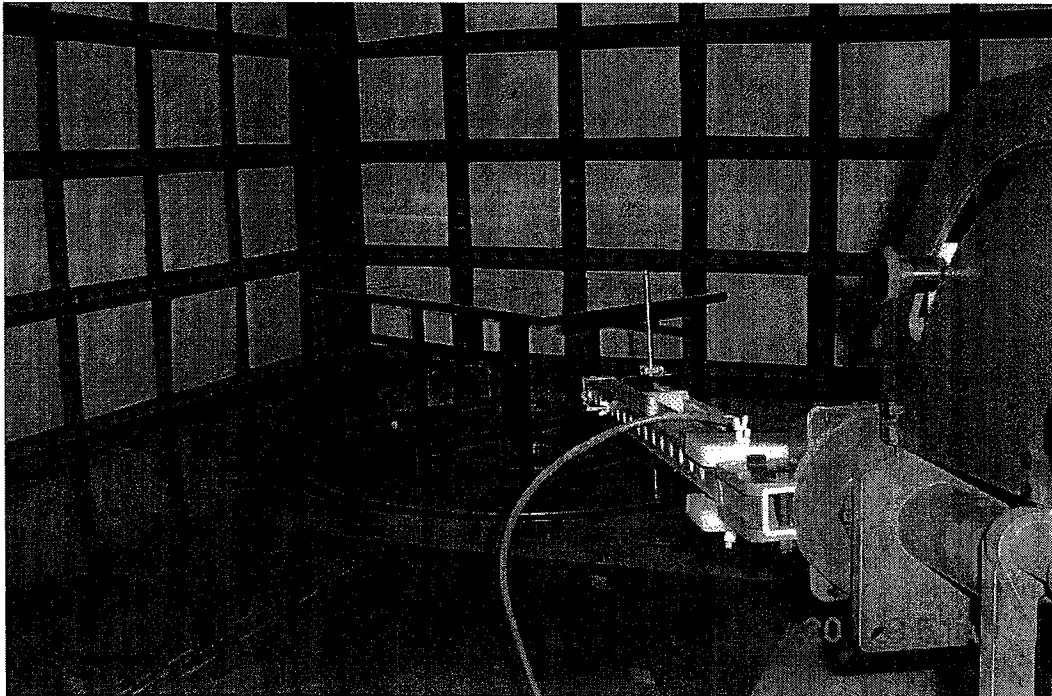


FIGURE 2b - TEST SETUP FOR HIGHEST RADIATED EMISSIONS MEASUREMENT VERTICAL POLARITY

ENGINEERING TEST REPORT NO. 31567-01

TABLE I: TEST EQUIPMENT LIST

ELITE ELECTRONIC ENG. INC.

Page: 1

| Eq ID | Equipment Description | Manufacturer | Model No. | Serial No. | Frequency Range | Cal Date | Cal Inv | Due Date |
|--|--------------------------|-----------------|------------|------------|-----------------|----------|---------|----------|
| Equipment Type: ACCESSORIES, MISCELLANEOUS | | | | | | | | |
| XZG3 | ATTENUATOR/SWITCH DRIVER | HEWLETT PACKARD | 11713A | 2421A03059 | --- | | N/A | |
| Equipment Type: AMPLIFIERS | | | | | | | | |
| APK3 | PREAMPLIFIER | AGILENT TECHNOL | 8449B | 3008A01593 | 1-26.5GHZ | 05/09/02 | 12 | 05/09/03 |
| Equipment Type: ANTENNAS | | | | | | | | |
| NDQ1 | TUNED DIPOLE ANTENNA | EMCO | 3121C-DB4 | 313 | 400-1000MHZ | 01/10/02 | 12 | 01/10/03 |
| NWH0 | RIDGED WAVE GUIDE | TENSOR | 4105 | 2081 | 1-12.4GHZ | 08/25/02 | 12 | 08/25/03 |
| Equipment Type: CONTROLLERS | | | | | | | | |
| CDD2 | COMPUTER | HEWLETT PACKARD | D4171A#ABA | US61654645 | --- | | N/A | |
| CMA0 | MULTI-DEVICE CONTROLLER | EMCO | 2090 | 9701-1213 | --- | | N/A | |
| Equipment Type: PRINTERS AND PLOTTERS | | | | | | | | |
| HRE1 | LASER JET 5P | HEWLETT PACKARD | C3150A | USHB061052 | --- | | N/A | |
| Equipment Type: RECEIVERS | | | | | | | | |
| RAC2 | SPECTRUM ANALYZER | HEWLETT PACKARD | 85660B | 3638A08770 | 100HZ-22GHZ | 02/21/02 | 12 | 02/21/03 |
| RACD | RF PRESELECTOR | HEWLETT PACKARD | 85685A | 3010A01205 | 20HZ-2GHZ | 02/21/02 | 12 | 02/21/03 |
| RAF4 | QUASISPEAK ADAPTER | HEWLETT PACKARD | 85650A | 2043A00320 | 0.01-1000MHZ | 06/13/02 | 12 | 06/13/03 |

Page 11 of 18

Cal. Interval: Listed in Months I/O: Initial Only N/A: Not Applicable

Note 1: For the purpose of this test, the equipment was calibrated over the specified frequency range, pulse rate, or modulation prior to the test or monitored by a calibrated instrument.

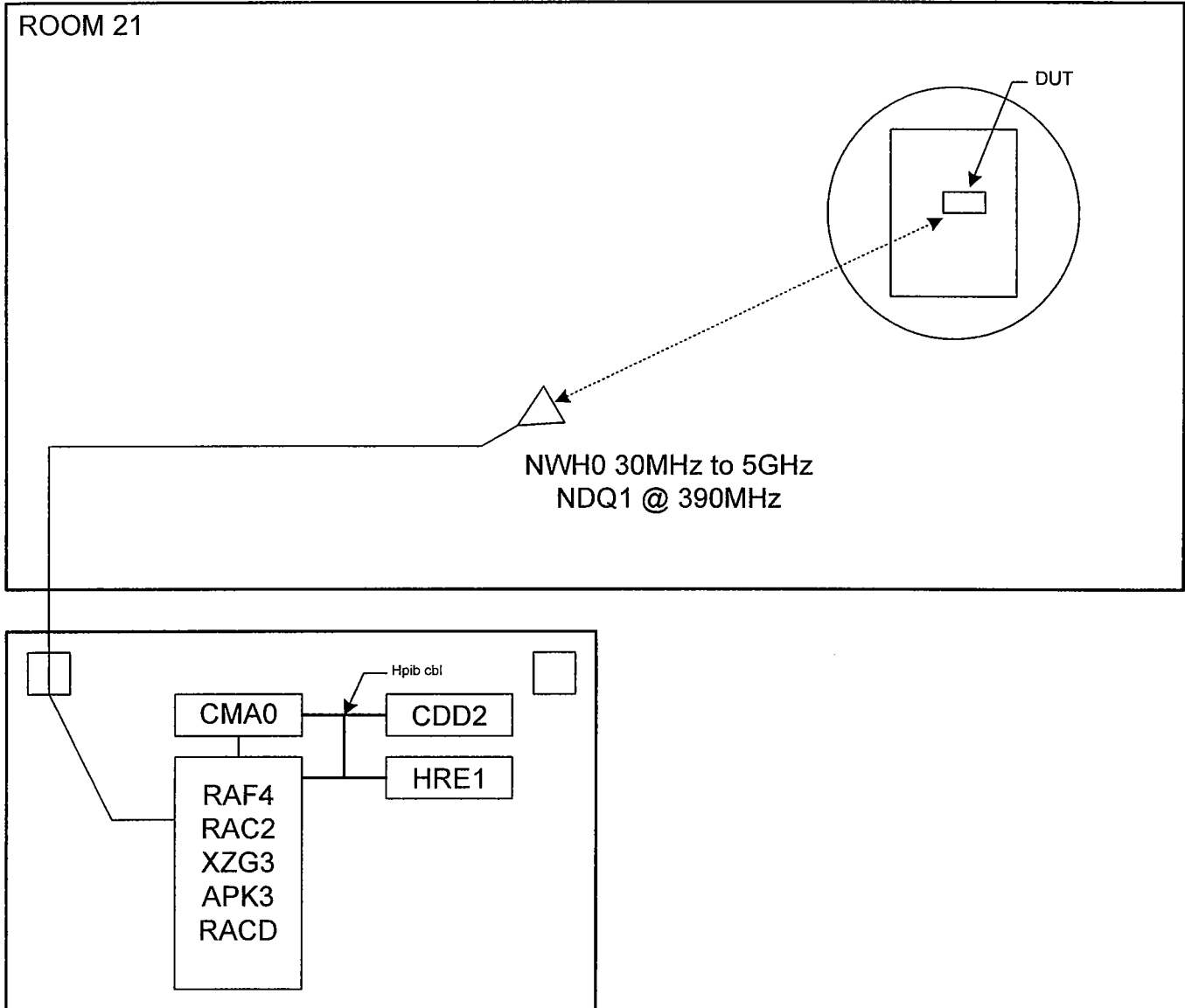


FIGURE 1 BLOCKDIAGRAM OF TEST ITEM SETUP AND RADIATED EMISSIONS

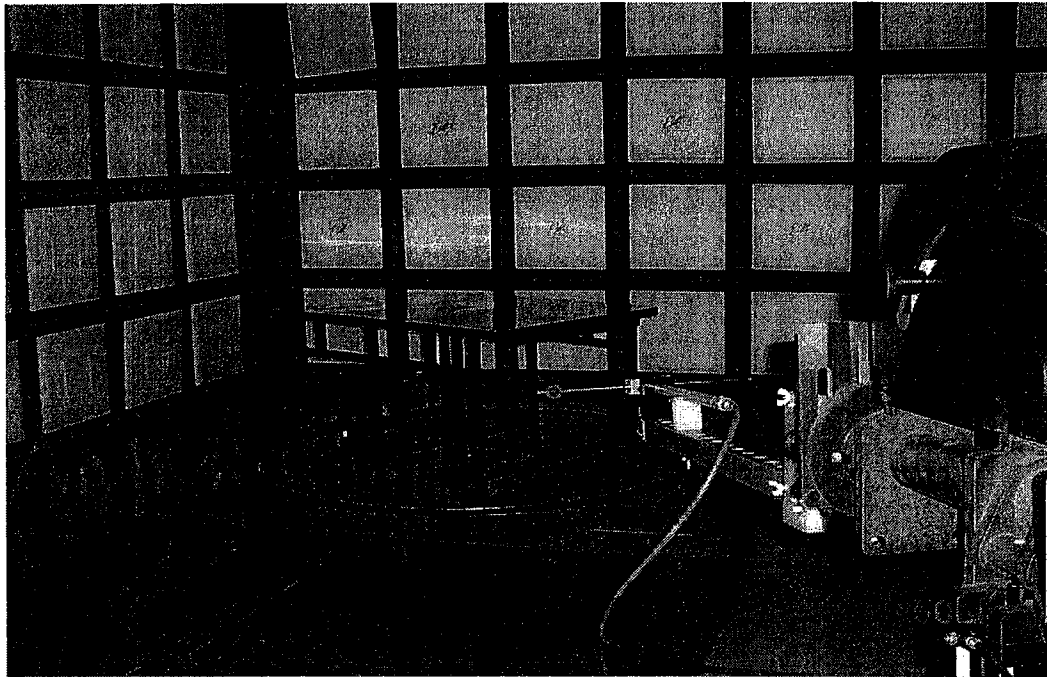


FIGURE 2a - TEST SETUP FOR HIGHEST RADIATED EMISSIONS MEASUREMENT
HORIZONTAL POLARITY

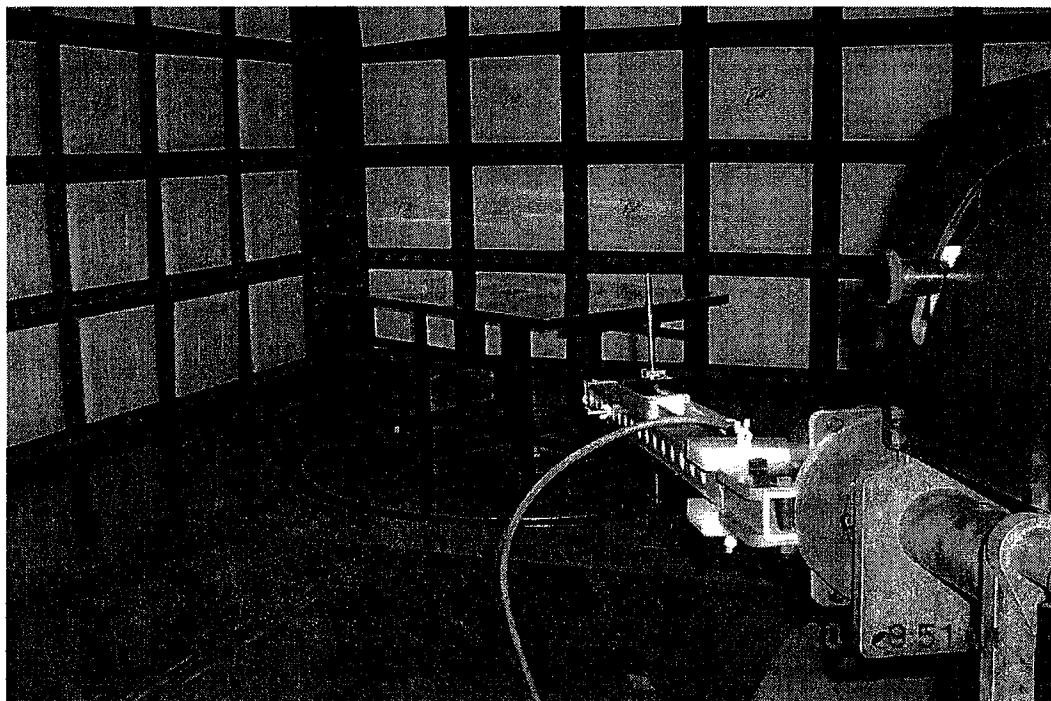
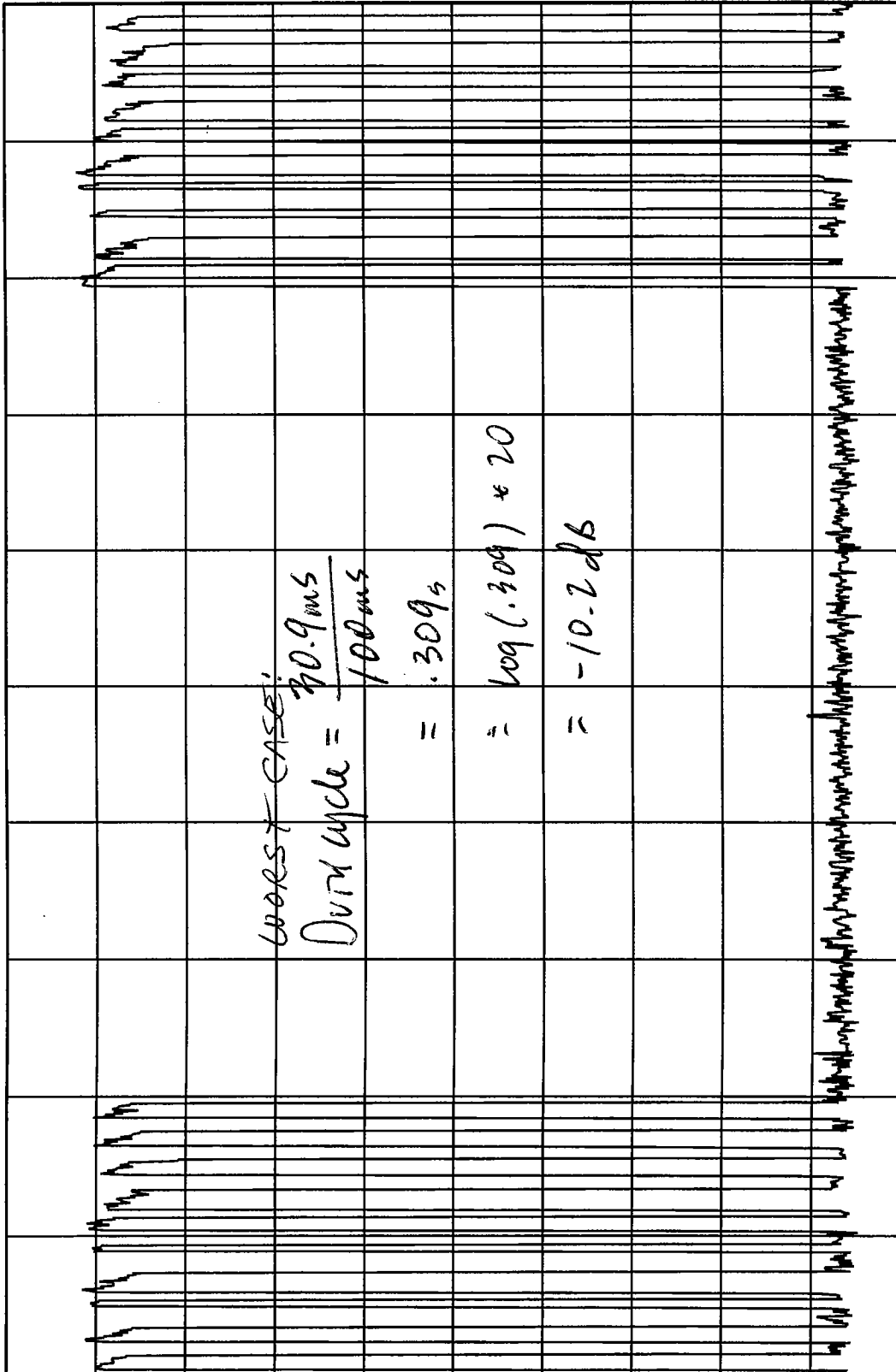


FIGURE 2b - TEST SETUP FOR HIGHEST RADIATED EMISSIONS MEASUREMENT
VERTICAL POLARITY

ELITE ELECTRONIC ENGINEERING Co.
 Downers Grove, IL 60515



TRANSMITTER DUTY CYCLE
 FREQUENCY : 390.1589 MHz
 ON TIME : 23.077 mSEC
 OFF TIME : 76.923 mSEC
 DUTY CYCLE = .23 or -12.77 dB
 COMPUTED OVER 100 mSEC

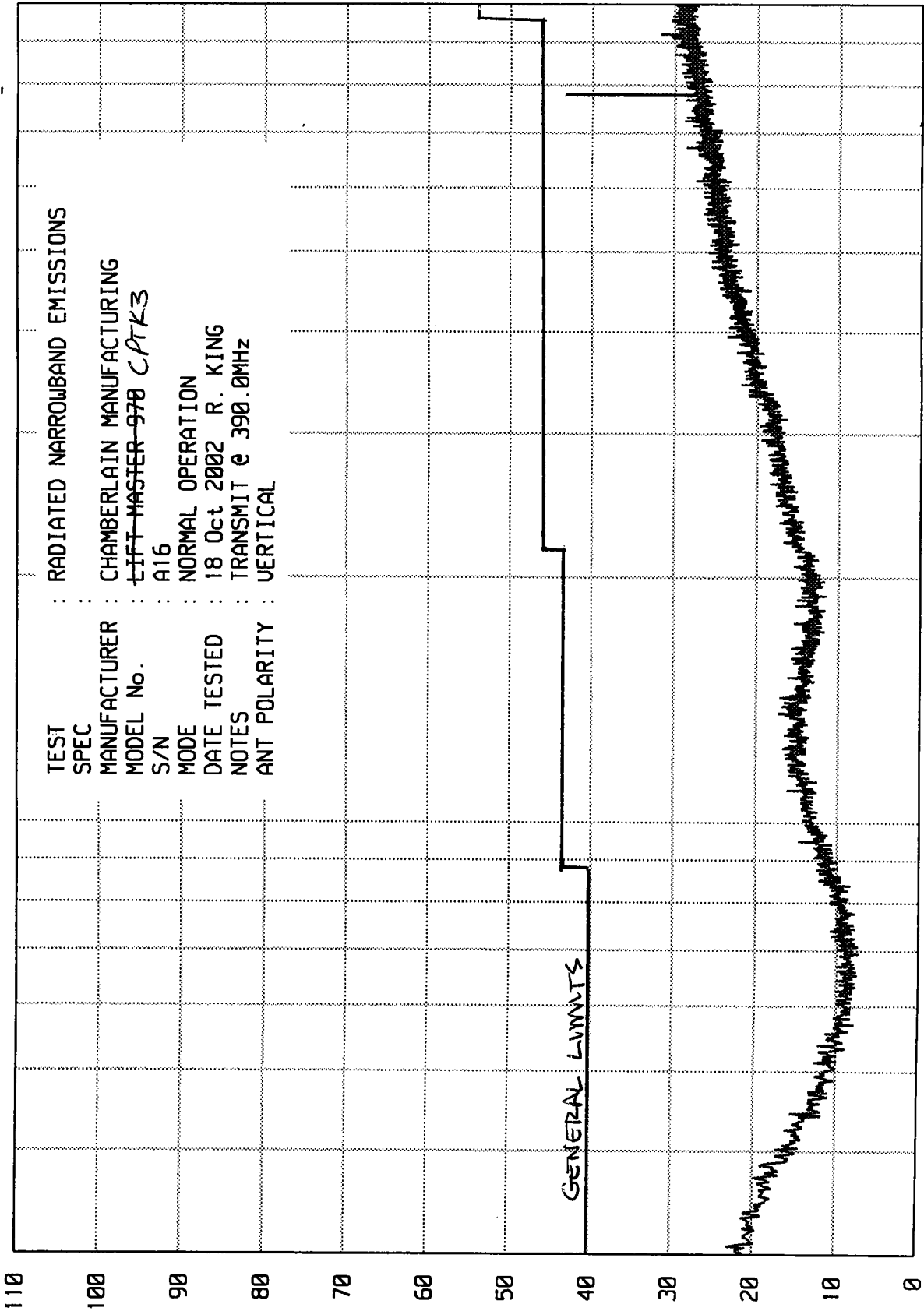
MANUFACTURER : CHAMBERLAIN
 MODEL : ~~LIFT-MASTER~~ CPTK3
 S/N : A16
 TEST DATE : 21 Oct 2002
 NOTES : TRANSMIT @ 390.0MHz

ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

UNITV_EM RUN RUN 1

UKA00 06/18/02



TEST : RADIATED NARROWBAND EMISSIONS
 SPEC :
 MANUFACTURER : CHAMBERLAIN MANUFACTURING
 MODEL No. : ~~LIFT-MASTER-970~~ CPK3
 S/N : A16
 MODE : NORMAL OPERATION
 DATE TESTED : 18 Oct 2002 R. KING
 NOTES : TRANSMIT @ 390.0MHz
 ANT POLARITY : VERTICAL

RADIATED NARROWBAND EMISSIONS - dBu/m

Page 15 of 18

START = 30

FREQUENCY - MHz

STOP = 1000

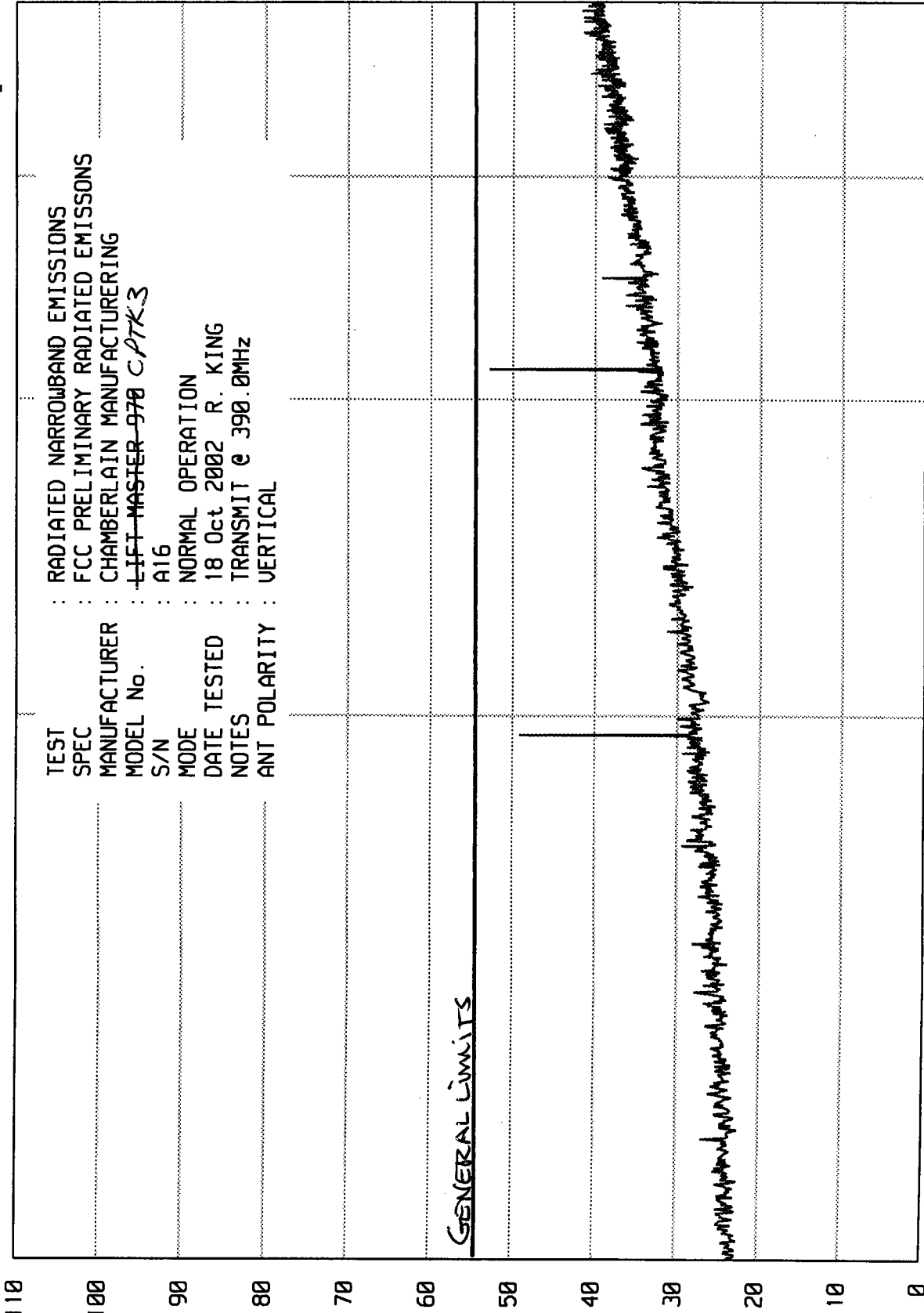
ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

WJKB 06/18/02

UNIT_EM_RUN RUN 1

TEST : RADIATED NARROWBAND EMISSIONS
 SPEC : FCC PRELIMINARY RADIATED EMISSIONS
 MANUFACTURER : CHAMBERLAIN MANUFACTURING
 MODEL No. : ~~LIFT MASTER 970~~ CPTK3
 S/N : A16
 MODE : NORMAL OPERATION
 DATE TESTED : 18 Oct 2002 R. KING
 NOTES : TRANSMIT @ 390.0MHz
 ANT POLARITY : VERTICAL



START = 1000

FREQUENCY - MHz

STOP = 5000

ETR No. *21567-01*
 DATA PAGE

SPECIFICATION : FCC PART 15C (REV OCT 1, 94) TRANSMITTER OPEN FIELD DATA
 MANUFACTURER : CHAMBERLAIN
 MODEL : *CPTK3*
 S/N : *A16*
 TEST DATE : 21 Oct 2002
 NOTES :
 TEST ANTENNA : ROBERTS DIPOLE & DRWG ANTENNAS

| FREQUENCY MHz | ANT POL | MTR RDG dBuV | CBL FAC dB | ANT FAC dB | DUTY CYCLE dB | TOTAL dBuV/m @3m | TOTAL uV/m @3m | LIMIT uV/m @3m | NOTES |
|------------------|------------|--------------------|------------------|------------------|---------------------|------------------------|----------------------|----------------------|-------|
| 390.00 | H | 60.1 | 1.8 | 20.8 | -10.2 | 72.5 | 4199.5 | 9166.7 | |
| 390.00 | V | 45.5 | 1.8 | 20.8 | -10.2 | 57.9 | 782.0 | 9166.7 | |
| 780.00 | H | 28.3 | 2.5 | 26.6 | -10.2 | 47.2 | 228.7 | 916.7 | |
| 780.00 | V | 17.7 | 2.5 | 26.6 | -10.2 | 36.6 | 67.5 | 916.7 | |
| 1170.00 | H | 30.0 | 3.2 | 24.5 | -10.2 | 47.5 | 237.9 | 500.0 | * |
| 1170.00 | V | 23.1 | 3.2 | 24.5 | -10.2 | 40.6 | 107.5 | 500.0 | * |
| 1560.00 | H | 34.5 | 3.9 | 25.7 | -10.2 | 53.9 | 494.8 | 500.0 | * |
| 1560.00 | V | 24.5 | 3.9 | 25.7 | -10.2 | 43.9 | 156.5 | 500.0 | * |
| 1950.00 | H | 30.2 | 4.6 | 27.4 | -10.2 | 52.0 | 397.9 | 916.7 | |
| 1950.00 | V | 18.5 | 4.6 | 27.4 | -10.2 | 40.3 | 103.5 | 916.7 | |
| 2340.00 | H | 28.7 | 5.2 | 28.5 | -10.2 | 52.2 | 406.6 | 500.0 | * |
| 2340.00 | V | 17.5 | 5.2 | 28.5 | -10.2 | 41.0 | 112.0 | 500.0 | * |
| 2730.00 | H | 21.3 | 5.7 | 29.6 | -10.2 | 46.4 | 209.1 | 500.0 | * |
| 2730.00 | V | 18.9 | 5.7 | 29.6 | -10.2 | 44.0 | 158.6 | 500.0 | * |
| 3120.00 | H | 24.2 | 6.3 | 30.7 | -10.2 | 51.0 | 354.5 | 916.7 | |
| 3120.00 | V | 19.2 | 6.3 | 30.7 | -10.2 | 46.0 | 199.3 | 916.7 | |
| 3510.00 | H | 16.3 | 7.0 | 31.7 | -10.2 | 44.9 | 175.1 | 916.7 | |
| 3510.00 | V | 9.3 | 7.0 | 31.7 | -10.2 | 37.9 | 78.2 | 916.7 | |
| 3900.00 | H | 20.3 | 7.7 | 32.8 | -10.2 | 50.6 | 338.6 | 500.0 | * |
| 3900.00 | V | 19.3 | 7.7 | 32.8 | -10.2 | 49.6 | 301.8 | 500.0 | * |

* DENOTES A FREQUENCY CONFLICT WITH RESTRICTED BANDS

checked by: *Richard E. King for*
 D. CROWDER

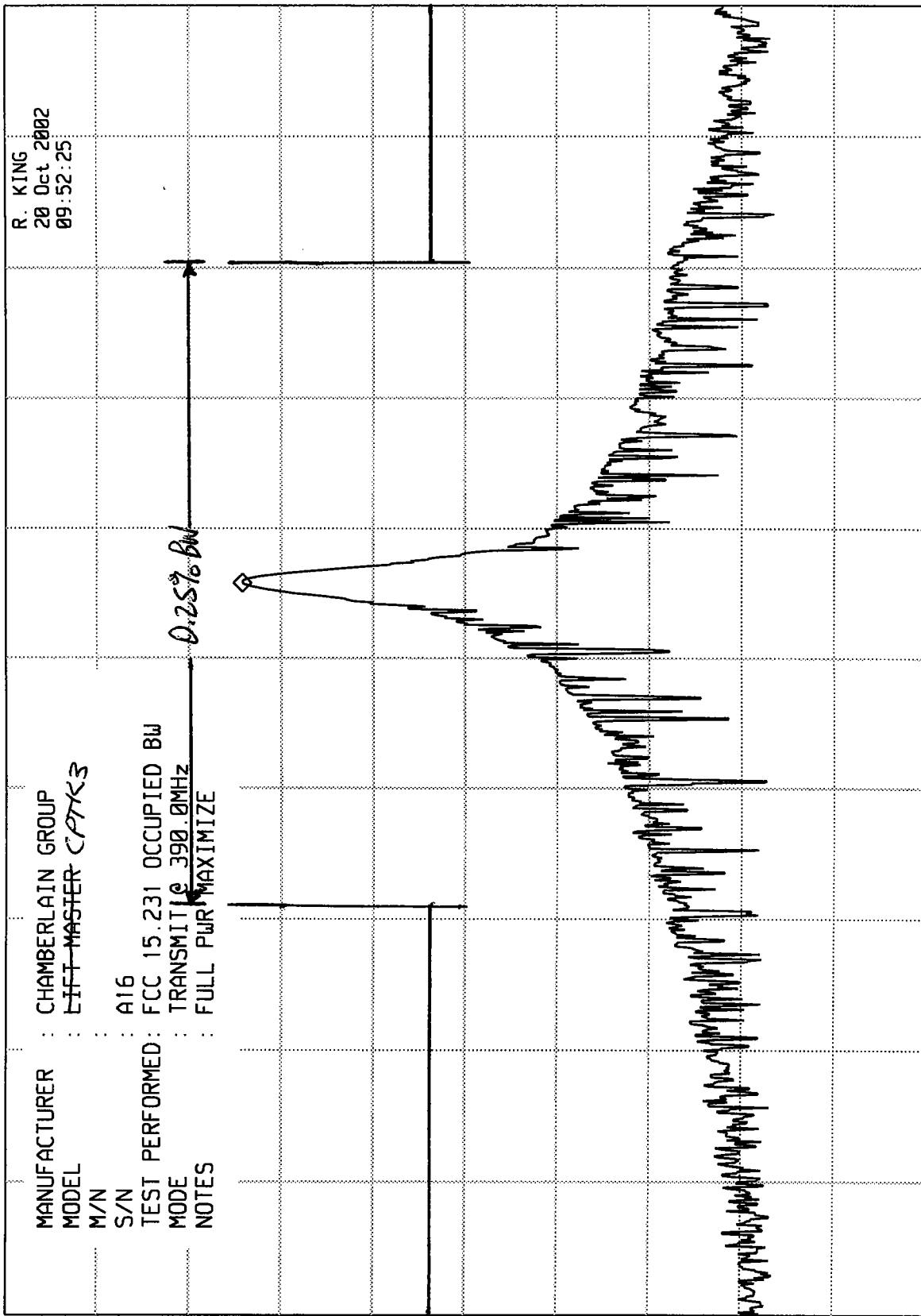
ELITE ELECTRONIC ENGINEERING Inc.

EDR 31567-01

MKR 390.114 MHz
61.20 dBuV

REF 87.0 dBuV
ATTEN 10 dB

hp
10 dB/
OFFSET
-20.0
dB



SPAN 2.00 MHz
SWP 20.0 msec

VBW 300 kHz

CENTER 390.00 MHz
RES BW 30 kHz(i)