

APPLICANT: SCIENTIFIC TOYS LTD.

FCC ID: BY3E887

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NO.: 15.227

REQUIREMENTS: CARRIER FREQUENCY WILL NOT EXCEED 80 dBuV/m AT 3M.  
OUT-OF-BAND EMISSIONS SHALL NOT EXCEED:

|               |                                  |
|---------------|----------------------------------|
| 30 - 88 MHz   | 40.0 dBuV/M MEASURED AT 3 METERS |
| 88 - 216 MHz  | 43.5 dBuV/M                      |
| 216 - 960 MHz | 46.0 dBuV/M                      |
| ABOVE 960 MHz | 54.0 dBuV/M                      |

TEST DATA:

| EMISSION<br>FREQUENCY<br>MHz | METER READING<br>AT 3 METERS<br>dBuV | COAX<br>LOSS<br>dB | ANTENNA<br>CORRECTION<br>FACTOR dB | FIELD<br>STRENGTH<br>dBuV/m@3m | MARGIN<br>dB | ANT.<br>POL. |
|------------------------------|--------------------------------------|--------------------|------------------------------------|--------------------------------|--------------|--------------|
| 27.15                        | 44.00                                | 0.20               | 11.75                              | 55.95                          | 24.05        | V            |
| 108.58                       | 5.30                                 | 0.80               | 8.38                               | 14.48                          | 29.02        | H            |
| 190.02                       | 5.50                                 | 0.90               | 13.67                              | 20.07                          | 23.43        | V            |

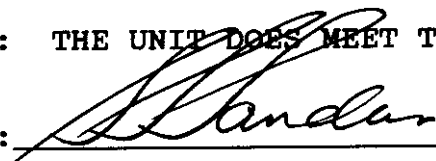
SAMPLE CALCULATION:

$FSdBuV/m = MR(dBuV) + ACFdB.$

TEST PROCEDURE: The procedure used was ANSI STANDARD C63.4-1992. The spectrum was scanned from 30 MHz to 1000 MHz. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The UUT was tested in 3 orthogonal planes.

TEST RESULTS: THE UNIT DOES MEET THE FCC REQUIREMENTS.

PERFORMED BY:



DATE: MARCH 30, 1998

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APPLICANT: SCIENTIFIC TOYS LTD.  
FCC ID: BY3E887  
NAME OF TEST: Occupied Bandwidth  
RULES PART NO.: 15.227  
REQUIREMENTS: The field strength of any emissions appearing outside the 26.96-27.28 MHz band shall not exceed 100 uV/m (15.209).

THE GRAPH ON THE FOLLOWING PAGE REPRESENTS THE WORSE CASE OCCUPIED BANDWIDTH EMISSIONS FOR THIS DEVICE.

METHOD OF MEASUREMENT: A small sample of the transmitter output was fed into the spectrum analyzer and the attached plot was taken. The vertical scale is set to -10 dBm per division. The horizontal scale is set to 5 kHz per division.

TEST RESULTS: The unit DOES meet the FCC requirements.

PERFORMED BY:  MARCH 30, 1998

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MKR 27.14475 MHz  
-48.40 dBm

hp REF -48.1 dBm ATTN 10 dB

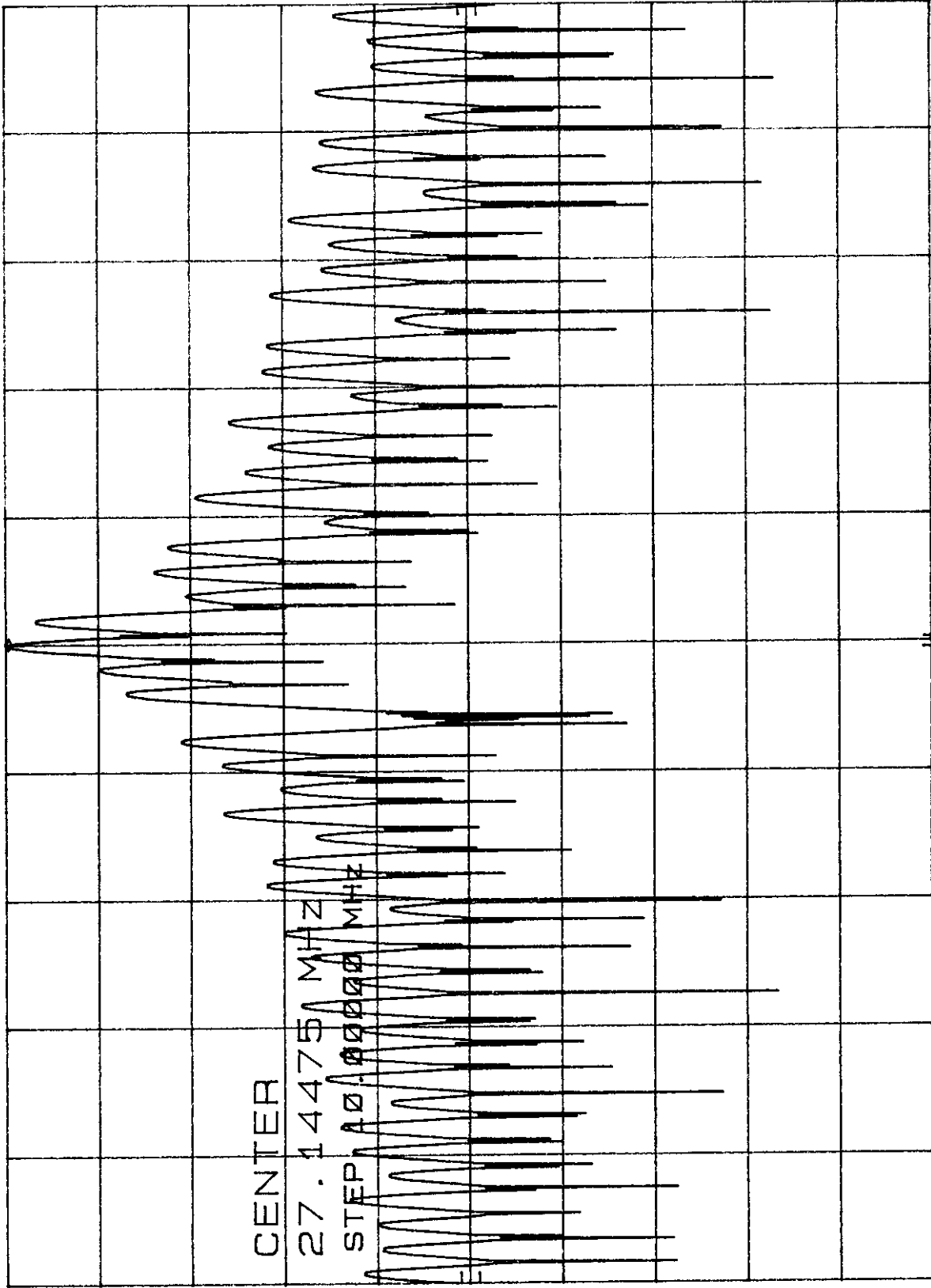
10 dB/

OFFSET  
-20.0  
dB

CENTER

27.14475 MHz

STEP 10.00000 MHz



SPAN 50.00 KHz  
SWP 1.0 sec

VBW 100 KHz

CENTER 27.14475 MHz  
RES BW 300 Hz