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### TEST DATA

- Fundamental Frequency Plot
- Radiated Emission Data

|                                 |              |
|---------------------------------|--------------|
| Proposed FCC ID Label.....      | Exhibit 1    |
| Agent Authorization Letter..... | Exhibit 2    |
| User Manual.....                | Attachment A |
| Block Diagram/Schematics.....   | Attachment B |

**1. VERIFICATION OF COMPLIANCE**

COMPANY NAME : AUDIOVOX CORPORATION  
150 MARCUS BOULEVARD  
HAUPPAUGE, NY 11788  
U.S.A.

CONTACT PERSON : PAT LAVELLE / EXCLUSIVE VICE  
PRESIDENT

TELEPHONE NO. : (516) 231-7750

EUT DESCRIPTION : 302 MHz RECEIVER

MODEL NAME/NUMBER : PRO-9344

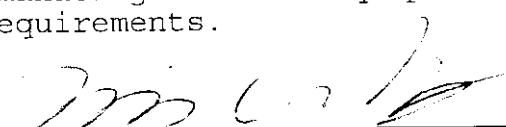
FCC ID : BGA9344AR

DATE TESTED : JUNE 12, 1998

REPORT NUMBER : 98E7364

|                       |                                             |
|-----------------------|---------------------------------------------|
| TYPE OF EQUIPMENT     | SECURITY EQUIPMENT (UNINTENTIONAL RADIATOR) |
| EQUIPMENT TYPE        | 302 MHz SUPERREGENERATE RECEIVER            |
| MEASUREMENT PROCEDURE | ANSI 63.4 / 1992                            |
| LIMIT TYPE            | CERTIFICATION                               |
| FCC RULE              | CFR 47, PART 15.109                         |

The above equipment was tested by Compliance Engineering Services, Inc. for compliance with the requirements set forth in CFR 47, PART 15. This said equipment in the configuration described in this report shows that maximum emission levels emanating from equipment are within the compliance requirements.

  
MIKE C.I. KUO / VICE PRESIDENT  
COMPLIANCE ENGINEERING SERVICES, INC.

## 2. PRODUCT DESCRIPTION

AUDIOVOX CORP., Model PRO-9344 is the receiving portion of a multi-purpose security device. The associated Transmitter is manufactured by Audiovox Corp., Model No: PRO94K(F), FCC ID: BGAAV2T.

## 3. TEST FACILITY

The 3 meter open area test site and conducted measurement facility used to collect the radiated data is located at 561F Monterey Road, Morgan Hill, California, U.S.A. A detailed description of the test facilities was submitted to the Commission on May 27, 1994.

The measuring instrument which was utilized in performing the tests documented herein has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment which is traceable to recognized national standards.

## 4. MEASUREMENT EQUIPMENT USED

| Manufacturer | Model Number | Description                          | Cal Due Date |
|--------------|--------------|--------------------------------------|--------------|
| H.P.         | 8640B        | Signal Generator<br>(0.5 - 1024 MHz) | 08/98        |
| H.P.         | 8566B        | Spectrum Analyzer<br>(100Hz - 22GHz) | 09/98        |
| EMCO         | 3146         | Antenna<br>(200-1000 MHz)            | 10/98        |
| H.P.         | 8447D        | Preamplifier<br>(0.1 - 1300 MHz)     | 09/98        |
| ARA          | DRG-18/A     | Antenna(1 - 18GHZ)                   | 12/98        |
| H.P.         | 8449B        | Preamplifier (1-26.5GHZ)             | 03/99        |

**5. TEST CONFIGURATION**

Set signal generator to transmit at 302 MHz. The receiver receives the signal.

**6. TESTS CONDUCTED**

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| CFR 47, 15.107<br>CONDUCTED TESTS         | CONDUCTED WHEN DEVICE CONNECTED TO AC<br>LINE |
| CFR 47, 15.109<br>RADIATED EMISSION TESTS | CONDUCTED AT 3 METERS                         |

**7. CONDUCTED EMISSION TEST PROCEDURE**

The EUT is located so that the distance between the boundary of the EUT and the closest surface to the LISN is 0.8m.

Conducted disturbance shall be measured between the phase lead and the ground, and between the neutral lead and the ground. The frequency 0.450 - 30 MHz shall be investigated.

Set the EMI receiver to PEAK detector setting and sweep continuously over the frequency range to be investigated. Set resolution bandwidth to 9kHz minimum. Connect EMI receiver input cable to LINE 1 RF measurement connection on the LISN. Connect a 50ohm terminator to the unused RF connection on the LISN. For each mode of EUT operation, maximize emissions readings by manipulating cable and wire positions. Record the configuration for each EUT power cord which produces emissions closest to the limit. Repeat the same procedure for LINE 2 of each EUT power cord.

**8. RADIATED EMISSION TEST PROCEDURE**

The EUT and all other support equipment are placed on a wooden table 80 cm above the ground screen. Antenna to EUT distance is 3 meters. During the test, the table is rotated 360 degrees to maximize emissions and the antenna is positioned from 1 to 4 meters above the ground screen to further maximize emissions. The antenna is polarized in both vertical and horizontal positions.

Monitor the frequency range of interest at a fixed antenna height and EUT azimuth. Frequency span should be small enough to easily differentiate between broadcast stations and

intermittent ambients. Rotate EUT 360 degrees to maximize emissions received from EUT. If emission increases by more than 1 dB, or if another emission appears that is greater by 1 dB, return to azimuth where maximum occurred and perform additional cable manipulation to further maximize received emission.

Move antenna up and down to further maximize suspected highest amplitude signal. If emission increased by 1 dB or more, or if another emission appears that is greater by 1dB or more, return to antenna height where maximum signal was observed and manipulate cables to produce highest emissions, noting frequency and amplitude.

#### **9. COHERENT TESTS**

During Radiated Emission Tests, H.P. signal generator model no: 8640B (0.5 - 1024 MHz) was used to radiate unmodulated CW signal to EUT at 302.0 MHz. Please refer to radiated emission data no: 980612B1 for six highest readings.

#### **10. EQUIPMENT MODIFICATIONS**

To achieve compliance to FCC section 15.109, the following change(s) were made during compliance testing:

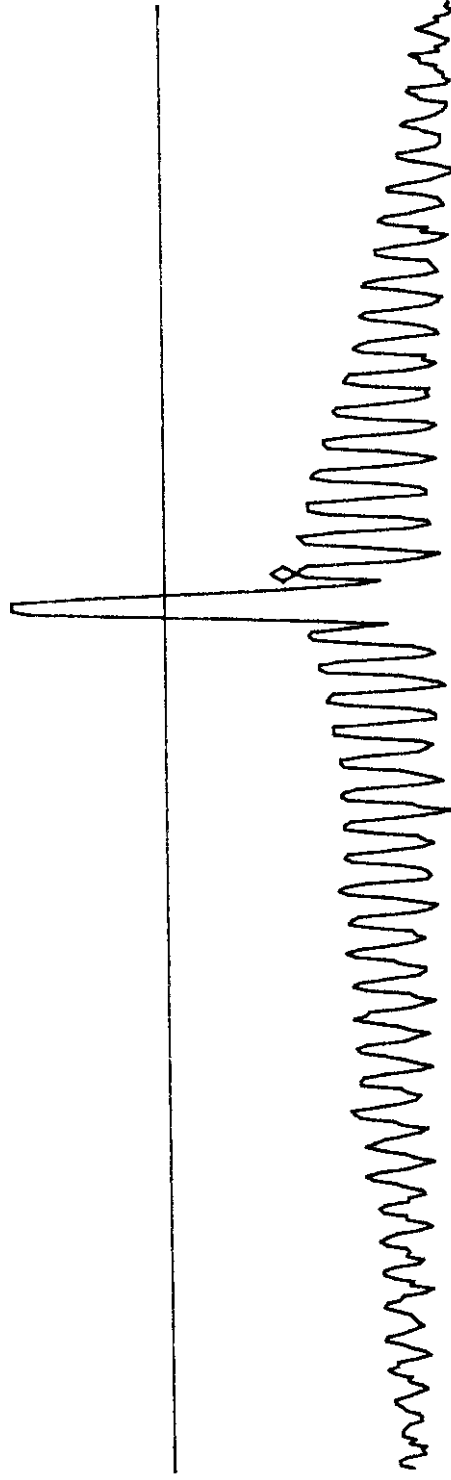
NOT APPLICABLE

11:27:17 12 JUN 1998  
AUDIOX 302MHz RX(PRO-9344)

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 302.68 MHz  
40.48 dB $\mu$ V

LOG REF 82.0 dB $\mu$ V  
10  
dB/  
#ATN  
10 dB

DL  
54.1  
dB $\mu$ V  
VA SB  
SC FC  
CORR



CENTER 299.30 MHz  
#IF BW 100 kHz  
#AVG BW 100 kHz  
SPAN 30.00 MHz  
#SWP 20.0 msec

Compliance Engineering Services Inc.

Project No. : 98E7364  
Report No. : 980612B1  
Date : 06/12/1998  
Time : 09:53  
Test Engr : KERWIN CORPUZ

>> 3 M RADIATED EMISSION DATA <<

Company : AUDIOVOX CORPORATION  
Equipment Under Test : 302MHz RX (M/N: PRO-9344)  
Test Configuration : EUT/DC POWER SUPPLY  
Type of Test : FCC CLASS B  
Mode of Operation : NORMAL

| Freq.                                     | dBuV  | PreAmp | Ant   | Cable | dBuV/m | Limit | Margin | Pol | Hgt (m) | Az |
|-------------------------------------------|-------|--------|-------|-------|--------|-------|--------|-----|---------|----|
| LP 2120 ; Pre-pamp = 8447D-P8 2944A06589: |       |        |       |       |        |       |        |     |         |    |
| 300.80                                    | 38.44 | -26.73 | 15.26 | 3.39  | 30.36  | 46.00 | -15.64 | H   | 1.0     | 0  |
| 301.40                                    | 39.39 | -26.74 | 15.27 | 3.40  | 31.32  | 46.00 | -14.68 | H   | 1.0     | 0  |
| 302.68                                    | 40.48 | -26.74 | 15.28 | 3.40  | 32.42  | 46.00 | -13.58 | H   | 1.0     | 0  |
| 303.43                                    | 40.44 | -26.75 | 15.28 | 3.41  | 32.38  | 46.00 | -13.62 | H   | 1.0     | 0  |
| 303.95                                    | 39.47 | -26.75 | 15.28 | 3.41  | 31.41  | 46.00 | -14.59 | H   | 1.0     | 0  |
| 304.63                                    | 38.85 | -26.75 | 15.29 | 3.41  | 30.80  | 46.00 | -15.20 | H   | 1.0     | 0  |

Total # of data 6  
V. b2.2