TABLE OF CONTENTS

| RULE | DESCRIPTION | PAGE |
|--------------|--|------|
| | | |
| | | - |
| | Test Report | 1 |
| 2.1033(c) | General Information Required | 2 |
| | Standard Test Conditions and Engineering Practices | 5 5 |
| 2.1049(c)(1) | Emission Masks (Occupied Bandwidth) | 7 |
| 2.1053(a) | Field Strength of Spurious Radiation | 23 |
| 2.202(g) | Necessary Bandwidth and Emission Bandwidth | 26 |
| 2.1047(a) | Audio Frequency Response | 27 |
| 2.1047 (b) | Modulation Limiting | 29 |

1 of 31.

Required information per ISO/IEC Guide 25-1990, paragraph 13.2:

a)

TEST REPORT

b) Laboratory:

M. Flom Associates, Inc.

(FCC: 31040/SIT)

3356 N. San Marcos Place, Suite 107

(Canada: IC 2044) Chandler, AZ 85224

c) Report Number:

d98a0067

d) Client:

Telex Communications, Inc. 8601 E. Cornhusker Highway

P.O. Box 5579

Lincoln, NE 68505-5579

e) Identification:

SoundMate Model PST-16

FCC ID: B5DM509

Description:

Auditory Assistance Transmitter

f) EUT Condition:

Not required unless specified in individual

tests.

g) Report Date:

October 30, 1998

EUT Received:

October 22, 1998

h, j, k):

As indicated in individual tests.

i) Sampling method:

No sampling procedure used.

1) Uncertainty:

In accordance with MFA internal quality manual.

m) Supervised by:

Morton Flom, P. Eng.

M. Sher P. Eng

n) Results:

The results presented in this report relate

only to the item tested.

o) Reproduction:

This report must not be reproduced, except in full, without written permission from this

laboratory.

2 of 31.

LIST OF GENERAL INFORMATION REQUIRED FOR CERTIFICATION

IN ACCORDANCE WITH FCC RULES AND REGULATIONS, VOLUME II, PART 2 AND TO

15.237

Sub-part 2.1033 (C) (1): NAME AND ADDRESS OF APPLICANT:

Telex Communications, Inc. 8601 E. Cornhusker Highway P.O. Box 5579 Lincoln, NE 68505-5579

VENDOR:

Applicant

(c)(2): FCC ID: B5DM509

MODEL NO: SoundMate Model PST-16

(c) (3): <u>INSTRUCTION MANUAL(S)</u>:

PLEASE SEE ATTACHED EXHIBITS

(c) (4): TYPE OF EMISSION: 74K0F3E

(c) (5): FREQUENCY RANGE, MHz: 72 to 76

(c)(6): POWER RATING, Watts: 0.000122

Switchable ____ Variable ____ N/A

(c)(7): MAXIMUM POWER RATING, Watts: 80 mv/m @ 3m

15.203: ANTENNA REQUIREMENT:

x The antenna is permanently attached to the EUT

The antenna uses a unique coupling

The EUT must be professionally installed

The antenna requirement does not apply

3 of 31.

Subpart 2.1033 (continued)
(c) (8): VOLTAGES & CURRENTS IN ALL ELEMENTS IN FINAL R. F. STAGE, INCLUDING FINAL TRANSISTOR OR SOLID STATE DEVICE:

COLLECTOR CURRENT, A = per manual COLLECTOR VOLTAGE, Vdc = per manual SUPPLY VOLTAGE, Vdc = 3

(c) (9): TUNE-UP PROCEDURE:

PLEASE SEE ATTACHED EXHIBITS

(c)(10): CIRCUIT DIAGRAM/CIRCUIT DESCRIPTION:

Including description of circuitry & devices provided for determining and stabilizing frequency, for suppression of spurious radiation, for limiting modulation and limiting power.

PLEASE SEE ATTACHED EXHIBITS

(c) (11): <u>LABEL INFORMATION</u>:

PLEASE SEE ATTACHED EXHIBITS

(c) (12): PHOTOGRAPHS:

PLEASE SEE ATTACHED EXHIBITS

(c) (13): DIGITAL MODULATION DESCRIPTION:

X N/A EXHIBITS

(c) (14): TEST AND MEASUREMENT DATA:

FOLLOWS

4 of 31.

Sub-part 2.1033(b):

TEST AND MEASUREMENT DATA

All tests and measurement data shown were performed in accordance with FCC Rules and Regulations, Volume II; Part 2, Sub-part J, Sections 2.1031, 2.1033, 2.1035, 2.1041, 2.1043, 2.1045, and the following individual Parts:

| | 3 |
|--|---|
| 15.209 | Radiated emission limits; general requirements |
| 15.211 | Tunnel radio systems |
| 15.213 | Cable locating equipment |
| 15.214 | Cordless telephones |
| 15.217 | Operation in the band 160-190 kHz |
| 15.214 15.217 15.219 | Operation in the hand $510-1705 \text{ kHz}$ |
| 15.221 | Operation in the band 525-1705 kHz (leaky coax) |
| 15.221 15.223 15.225 15.227 15.229 | Operation in the band 1.705-10 MHZ |
| <u> </u> | Operation in the hand $13.553-13.56$ / MHZ |
| 15,227 | Operation in the band 26-27.28 MHz (remote control) |
| 15.229 | Operation in the hand $40.66-40.70$ MHZ |
| 15.231 | Periodic operation in the band 40.66-40.70 MHz and above |
| | 70 MU2 |
| 15.233 | Operation within the bands 43.71-44.49, 46.60-46.98 MHz |
| | 48.75-49.51 MHz and 49.66-50.0 MHZ |
| 15.235 | Operation within the band 49.82-49.90 MHz |
| x 15.237 | Operation within the bands 72.0-/3.0 MHZ, /4.6-/4.6 MHZ |
| | and 75.2-76.0 MHz (auditory assistance) |
| 15.239 | Operation in band 88-108 MHz |
| 15.241 15.243 | Operation in the band 174-216 MHz (biomedical) |
| 15.243 | Operation in the band 890-940 MHz (materials) |
| 15.245 | α |
| | 5785-5815 MHz, 10500-10550 MHz, and 24075-24175 MHz |
| | (filed disturbance sensors) |
| 15.247 | Operation within bands 902-928 MHz, 2400-2483.5 MHz, and |
| _ | 5725-5850 MHz (spread spectrum) |
| 15.249 | Operation within the bands 902-928 MHz, 2400-2483.5 MHz, |
| | 5725-5875 MHz, and 24.0-24.25 GHz |
| 15.251 | Operation within the bands 2.9-3.26 GHz, 3.267-3.332 |
| | GHz, 3.339-3.3458 GHz, and 3.358-3.6 GHz (vehicle |
| | identification systems) |
| 15.321 | Specific requirements for asynchronous devices operating in the 1910-1920 MHz and 2390-2400 MHz bands (Unlicensed |
| | |
| | PCS) is: devices operating |
| 15.323 | Specific requirements for isochronous devices operating |
| | in the 1920-1930 MHz sub-band (Unlicensed PCS) |

5 of 31.

STANDARD TEST CONDITIONS and ENGINEERING PRACTICES

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI C63.4-1992, section 6.1.9, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40° C (50° to 104° F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10° to 90° relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

Measurement results, unless otherwise noted, are worst case measurements.

6 of 31.

NAME OF TEST:

Restricted Use

SPECIFICATION: 47 CFR 15.23(b)

GUIDE:

N/A

STANDARD:

Must Comply

TEST EQUIPMENT:

N/A

RESULTS

The transmitter will be used exclusively as an auditory assistance device per 15.237(a) requirements.

SUPERVISED BY:

Morton Flom, P. Eng.

7 of 31.

NAME OF TEST:

Emission Masks (Occupied Bandwidth)

SPECIFICATION: 47 CFR 2.1049(c)(1), 15.237(b)

GUIDE:

ANSI/TIA/EIA-603-1992, Paragraph 2.2.11

TEST EQUIPMENT:

As per attached page

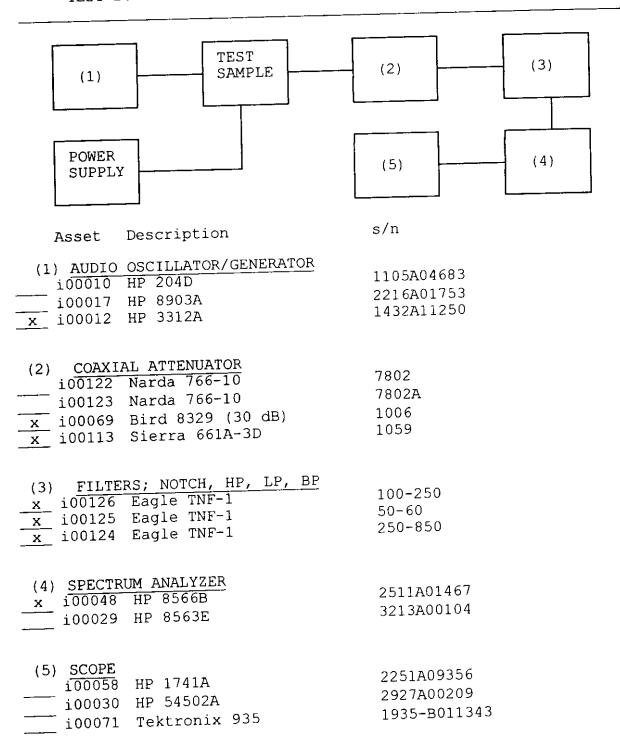
MEASUREMENT PROCEDURE

- The EUT and test equipment were set up as shown on the 1. following page, with the Spectrum Analyzer connected.
- EUTs supporting audio modulation, the audio signal generator was adjusted to the frequency of maximum response and 2. with output level set for ±2.5 kHz deviation (or modulation). With level constant, the signal level was increased 16 dB.
- For EUTs supporting digital modulation, the digital modulation 3. mode was operated to its maximum extent.
- The Occupied Bandwidth was measured with the Spectrum Analyzer 4. controls set as shown on the test results.
- MEASUREMENT RESULTS: ATTACHED 5.

8 of 31.

TRANSMITTER SPURIOUS EMISSION

TEST A. OCCUPIED BANDWIDTH (IN-BAND SPURIOUS)
TEST B. OUT-OF-BAND SPURIOUS

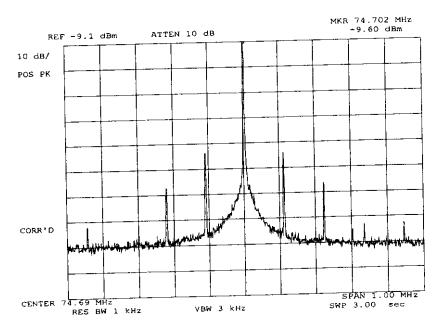


9 of 31.

NAME OF TEST: Emission Masks (Occupied Bandwidth)

g98a0199: 1998-Oct-22 Thu 11:20:00

ŠTATE: 2:High Power



POWER: MODULATION:

HIGH NONE

SUPERVISED BY:

Morton Flom, P. Eng.

Qui Douc P. Eng

10 of 31.

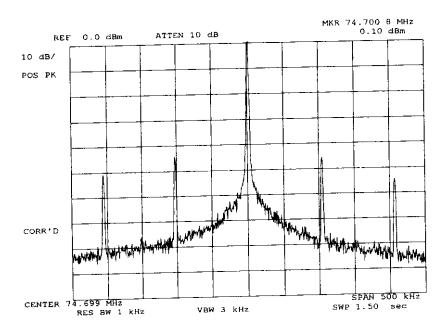
PAGE INTENTIONALLY LEFT BLANK

11 of 31.

NAME OF TEST: Emission Masks (Occupied Bandwidth)

g98a0226: 1998-Oct-22 Thu 13:53:00

STATE: 2: High Power



POWER: MODULATION:

HIGH NONE

SUPERVISED BY:

Morton Flom, P. Eng.

Our Duce P. Eng

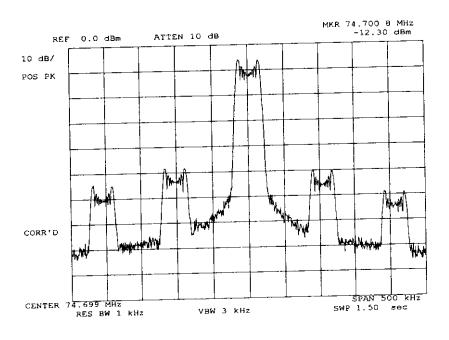
12 of 31.

NAME OF TEST:

Emission Masks (Occupied Bandwidth)

g98a0227: 1998-Oct-22 Thu 13:54:00

STATE: 2: High Power



POWER: MODULATION: HIGH REFERENCE

1KHZ TONE @ 15KHZ DEVIATION

SUPERVISED BY:

Morton Flom, P. Eng.

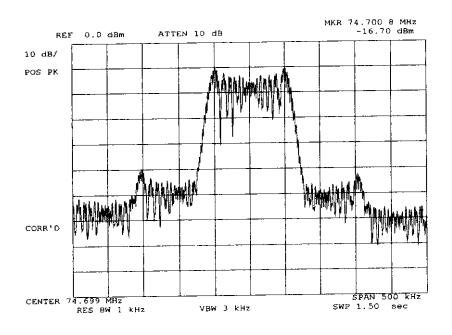
an Duce 1. Eng

13 of 31.

NAME OF TEST: Emission Masks (Occupied Bandwidth)

g98a0229: 1998-Oct-22 Thu 13:59:00

STATE: 2: High Power



POWER: MODULATION: HIGH VOICE

2.5KHZ TONE @ 20 DB ABOVE

REFERENCE INPUT

SUPERVISED BY:

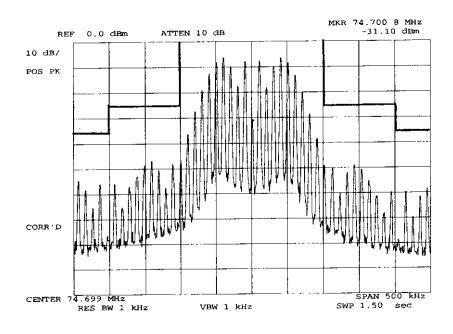
Morton Flom, P. Eng.

14 of 31.

NAME OF TEST: Emission Masks (Occupied Bandwidth)

g98a0215: 1998-Oct-22 Thu 14:02:00

STATE: 2:High Power



POWER: MODULATION: HIGH MAX RESPONSE (10KHZ) 2.5KHZ TONE @ 20 DB ABOVE REFERENCE INPUT

SUPERVISED BY:

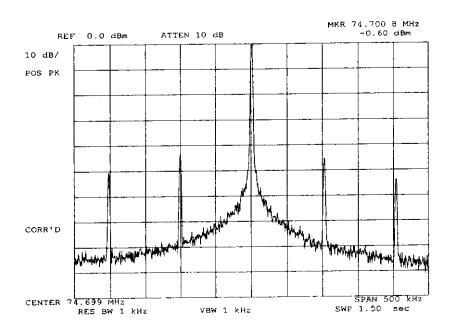
Morton Flom, P. Eng.

15 of 31.

NAME OF TEST: Emission Masks (Occupied Bandwidth)

g98a0231: 1998-Oct-22 Thu 14:05:00

STATE: 2:High Power



POWER: MODULATION: HIGH NONE

SUPERVISED BY:

Morton Flom, P. Eng.

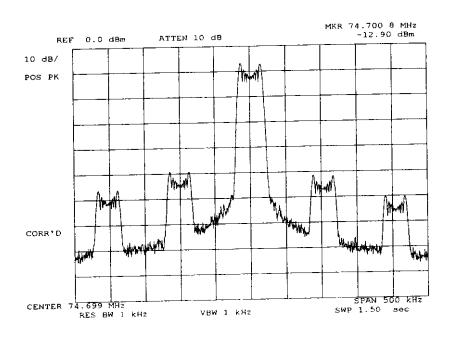
OM: The P. Eng

16 of 31.

Emission Masks (Occupied Bandwidth)

NAME OF TEST: Emission Masks g98a0217: 1998-Oct-22 Thu 14:07:00

STATE: 2: High Power



POWER: MODULATION: HIGH REFERENCE

1KHZ TONE @ 15KHZ DEVIATION

SUPERVISED BY:

Morton Flom, P. Eng.

M. Thuch P. Eng

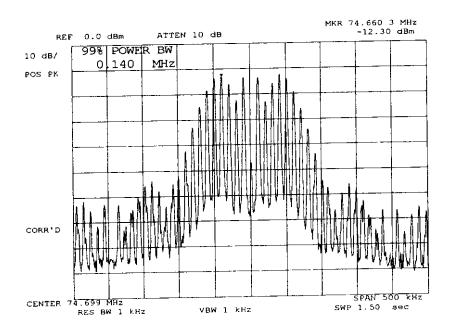
17 of 31.

NAME OF TEST:

Emission Masks (Occupied Bandwidth)

g98a0233: 1998-Oct-22 Thu 14:50:00

STATE: 2: High Power



POWER: MODULATION:

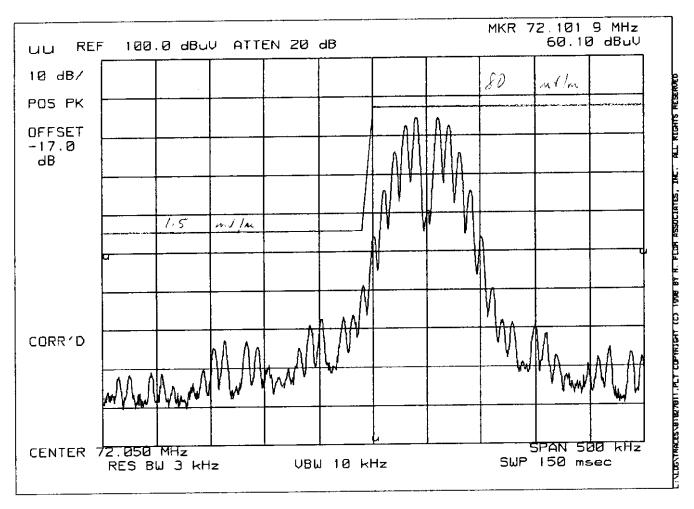
HIGH MAX RESPONSE (10KHZ) 99% POWER BANDWIDTH

SUPERVISED BY:

Morton Flom, P. Eng.

an. Duck P. Eng

PAGE 18 of 31. EMISSIONS TELEX, PST-16 1998-OCT-27, 14:45, TUE

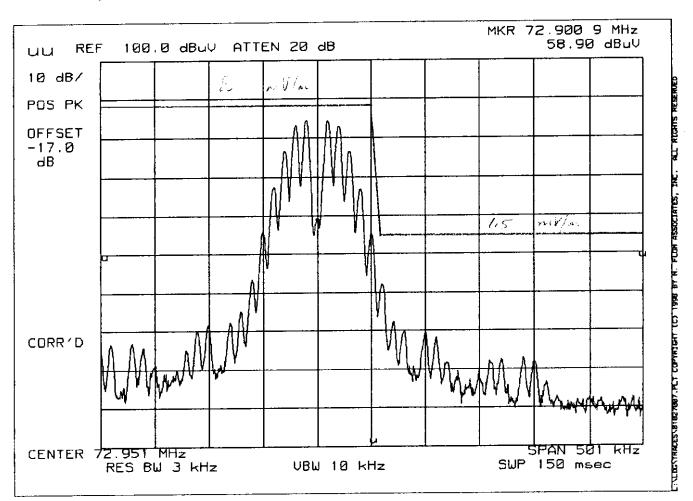


PAGE 19 of 31.

EMISSIONS

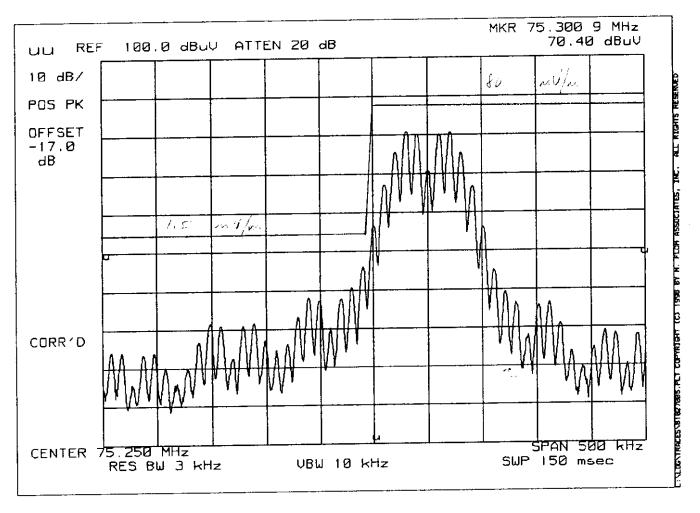
TELEX, PST-16

1998-OCT-27, 14:13, TUE

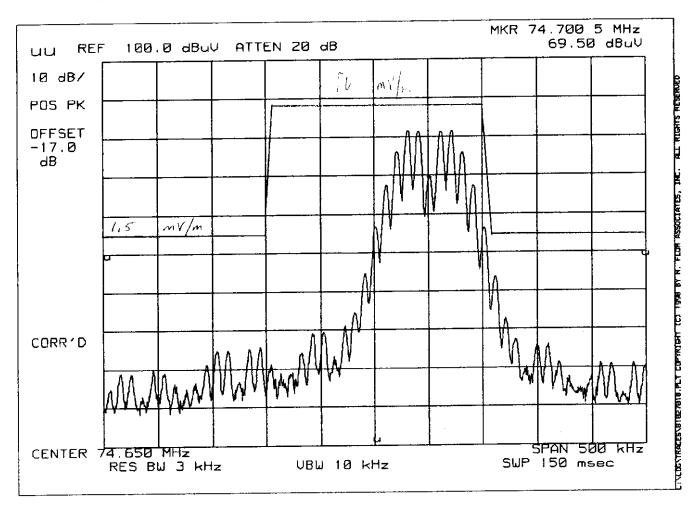


FCC ID: B5DM509

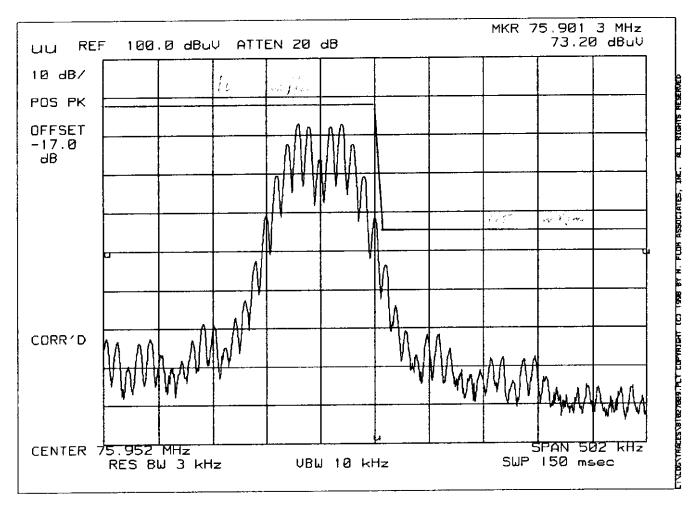
PAGE 20 of 31. EMISSIONS TELEX, PST-16 1998-OCT-27, 14:08, TUE



PAGE 21 of 31. EMISSIONS TELEX, PST-16 1998-OCT-27, 14:43, TUE



PAGE 22 OF 31. EMISSIONS TELEX, PST-16 1998-0CT-27, 14:36, TUE



23 of 31.

NAME OF TEST: Field Strength of Spurious Radiation

SPECIFICATION:

47 CFR 2.1053(a)

GUIDE:

ANSI/TIA/EIA-603-1992, Paragraph 2.2.12

TEST EQUIPMENT: As per attached page

MEASUREMENT PROCEDURE

- A description of the measurement facilities was filed with the 1. FCC and was found to be in compliance with the requirements of Section 15.38, by letter from the FCC dated March 3, 1997, FILE 31040/SIT. All pertinent changes will be reported to the Commission by up-date prior to March 2000.
- At first, in order to locate all spurious frequencies and approximate amplitudes, and to determine proper equipment functioning, the test sample was set up at a distance of three 2. meters from the test instrument. Valid spurious signals were determined by switching the power on and off.
- In the field, the test sample was placed on a wooden turntable above ground at three (or thirty) meters away from the search 3. antenna. Excess power leads were coiled near the power supply.

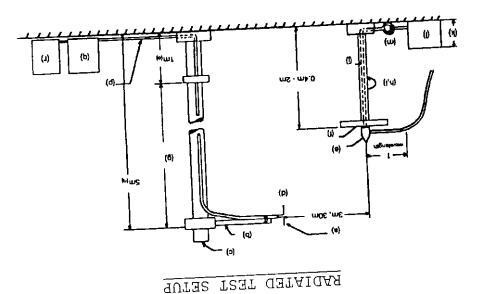
The cables were oriented in order to obtain the maximum response. At each emission frequency, the turntable was rotated and the search antennas were raised and lowered vertically.

- The emission was observed with both a vertically polarized and 4. a horizontally polarized search antenna and the worst case was used.
- The field strength of each emission within 20 dB of the limit was recorded and corrected with the appropriate cable and transducer factors.
- The worst case for all channels is shown. 7.
- Measurement results: 8.

ATTACHED FOR WORST CASE

| . [E]O P. | .15 | ìo | ₽7 |
|------------|-----|----|----|
|------------|-----|----|----|





turntable center (1) Cables routed through hollow

(m) 10 cm diameter coil of excess

2511AD1467

TZE00AZS28

POIOOAEISE

ISIOOA6PTS

9208-8026

(r) Spectrum Analyzer

(dsnoitgo) reilifqmA(p)

9 L O Z

2336

0516

5336

u/s

in length

Im normally

005100

· ou 9

.om 21

12 mo.

.om 21

.om SI

12 mo.

12 mo.

IS wo.

12 mo.

12 mo.

Сусде

Per Ausi C61.4-1992, 10.1.4

86-16M

Dec-9.1

86-JPW

86-J20

86-J20

86-700

Last Cal

(n) 25 cm (V), 1 m-7 m (V, H) CSDIE

(o) 25 cm from bottom end of 'V',

(q) Calibrated Cable at least 10m

(J) Exfernal power source

(K)30 cw or Jess

poou

NOIE2:

(a) Search Antenna - Rotatable on

(b) Non-metallic boom

(d) Adjustable horizontally (c) Non-metallic mast

(e) Equipment Under Test

(I) Turntable

PAGE NO.

wavelength.

(i) Rotatable

horizontally at least one (h) External control cables routed (g) Boom adjustable in height.

9000F EWCO 3100B 100Hz-20WHz **IKANSDUCER** JəssA Describtion

EWCO 3112 ICHZ-18CHZ 100103 Wprel 2001 200MHz-1GHz 68000T \$8000T EWCO 3100-B S2WHZ-300WHZ 10003 Singer 94593-1 10kHz-32MHz

700082 EWCO 3116 10CHZ-40CHZ Х

700058 A6448 9H AMPLIFIER

\$1000T 89958 dH 700033 HP 85462A 1000Z H<u>b</u> 8203E SPECTRUM ANALYZER

ECC ID: B20W206

25 of 31.

NAME OF TEST: Field Strength of Spurious Radiation g98a0220: 1998-Oct-23 Fri 14:24:00

STATE: 2:High Power

| PROTENCY | FREQUENCY | METER, | CF, | uV/m 0 | ERP, | MARGIN, |
|-------------------------|---------------|--------|-------|--------|--------|--------------|
| FREQUENCY | EMISSION, MHZ | dBuV | dB | 3m | dBm | d <u>B</u> _ |
| TUNED, MHz 74.699800 | 149.400000 | | 15.95 | 207.25 | -51.05 | -38.1 |
| 74.699800 | 224.100000 | | 19.81 | 453.94 | -44.25 | -31.3 |
| 74.699800 | 298.816000 | 22.8 | 30.26 | 449.78 | -44.35 | -31.3 |
| 74.699800 | 373.506000 | 24.17 | 22.52 | 216.02 | -50.65 | -37.7 |
| 74.699800 | 448.206000 | 16.81 | 23.96 | 109.27 | -56.65 | -43.6 |
| 74.699800 | 522.894000 | 17.05 | 25.06 | 127.5 | -55.25 | -42.3 |
| 74.699800 | 597.594000 | 13.29 | 27.86 | 114.16 | -56.25 | -43.3 |
| 74.699800 | 672.294000 | 14.13 | 28.88 | 141.42 | -54.35 | -41.4 |
| 74.699800 | | 14.21 | 29.88 | 160.14 | -53,25 | -40.3 |
| | | | | | | |

26 of 31.

NAME OF TEST:

Necessary Bandwidth and Emission Bandwidth

SPECIFICATION:

47 CFR 2.202(g)

MODULATION = 74K0F3E

NECESSARY BANDWIDTH CALCULATION:

MAXIMUM MODULATION (M), kHz = 1
MAXIMUM DEVIATION (D), kHz = 36 MAXIMUM DEVIATION (D), kHz

CONSTANT FACTOR (K)

NECESSARY BANDWIDTH (B_N) , kHz = $(2 \times M) + (2 \times D \times K)$ = 74

SUPERVISED BY:

M. Ohner P. Eng. Morton Flom, P. Eng.

27 of 31.

NAME OF TEST:

Audio Frequency Response

SPECIFICATION:

47 CFR 2.1047(a)

GUIDE:

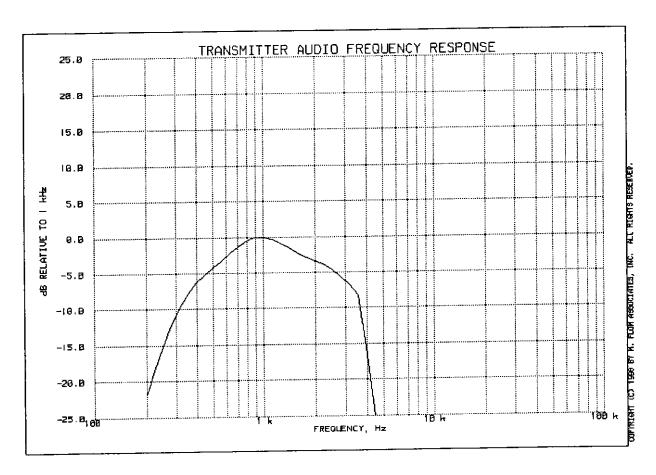
ANSI/TIA/EIA-603-1992, Paragraph 2.2.6

TEST EQUIPMENT: As per previous page

MEASUREMENT PROCEDURE

- The EUT and test equipment were set up as shown on the 1. following page.
- The audio signal generator was connected to the audio input 2. circuit/microphone of the EUT.
- The audio signal input was adjusted to obtain 20% modulation at 1 kHz, and this point was taken as the 0 dB reference level. 3.
- With input levels held constant and below limiting at all frequencies, the audio signal generator was varied from 100 Hz 4. to 50 kHz.
- The response in dB relative to 1 kHz was then measured, using 5. the HP 8901A Modulation Analyzer.
- MEASUREMENT RESULTS: ATTACHED 6.

PAGE 28 of 31.
TRANSMITTER AUDIO FREQUENCY RESPONSE
TELEX, PST-16
22 OCT 1998, 12:20



PEAK AUDIO FREQUENCY, Hz: 1000

TABLE VALUES:

| FREQUENCY, LEVEL, | FREQUENCY, LEVEL, | FREQUENCY, LEVEL, |
|--------------------------|----------------------------|-------------------|
| Hz dB | Hz dB | Hz dB |
| 300 -10.7 20000 -50.0 | 30000 -49.6 50000 -49.6 | |

29 of 31.

NAME OF TEST:

Modulation Limiting

SPECIFICATION:

47 CFR 2.1047(b)

GUIDE:

ANSI/TIA/EIA-603-1992, Paragraph 2.2.3

TEST EQUIPMENT:

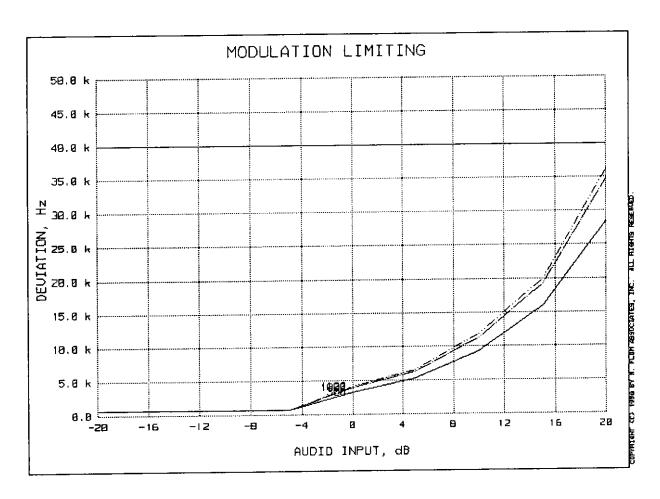
As per previous page

MEASUREMENT PROCEDURE

- The signal generator was connected to the input of the EUT as for "Frequency Response of the Modulating Circuit."
- 2. The modulation response was measured for each of three frequencies (one of which was the frequency of maximum response), and the input voltage was varied and was observed on an HP 8901A Modulation Analyzer.
- 3. The input level was varied from 30% modulation ($\pm 1.5~{\rm kHz}$ deviation) to at least 20 dB higher than the saturation point.
- Measurements were performed for both negative and positive modulation and the respective results were recorded.
- 5. MEASUREMENT RESULTS:

ATTACHED

PAGE 30 of 31. MODULATION LIMITING TELEX, PST-16 1998-OCT-22, 13:13



REFERENCE DEVIATION, kHz = 2.5

REFERENCE MODULATION, Hz

= 1000

PEAKS

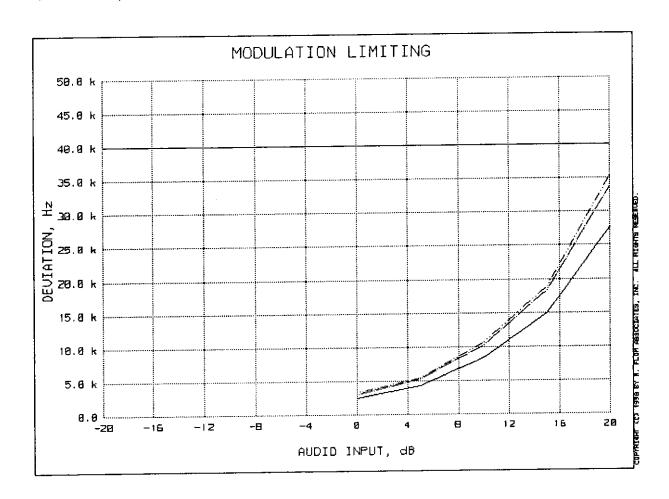
= POSITIVE

AUDIO AMPLITUDE, mV

= 0.6

PAGE 31 of 31.

MODULATION LIMITING TELEX, PST-16
1998-OCT-22, 13:13



REFERENCE DEVIATION, kHz = 2.5

REFERENCE MODULATION, Hz = 1000

PEAKS = NEGATIVE

AUDIO AMPLITUDE, mV = 0.6

RADIATED MEASUREMENTS FOR PART 15 TRANSMITTERS W/ INTEGRAL ANTENNAS

Radiated Measurements

| RANGE OF MEASUREMENT | SPECIFICATION | RESOLUTION B/W | VIDEO B/A |
|----------------------|----------------|----------------|-----------|
| 30 to 1000 MHz | CISPR | ≥100 kHz | ≥100 kHz |
| >1000 MHz | FCC, 15.37(b) | 1 MHz | ≥1 MHz |
| _ | FCC, 15.37(b) | 1 MHz | 10 Hz |
| (if averaging) | 100, 10.0, (0) | | |

Measuring Equipment

| a. | ANTENNAS: | |
|----|-----------------|--|
| | EMCO 3109 | |
| | מממת את המתחת א | |

20 - 300 MHz 200 - 1000 MHz APREL AALP2001 20 - 200 MHz APREL AAB20200 1 -18 GHz APREL AAH118

b. INSTRUMENTS:

Spectrum Analyzer HP8566B Preselector, w/ preamp below 2 GHz HP85685A Quasi Peak Adapter HP85650A Preamp, above 2 GHz HP8449

All test instrumentation is calibrated every January and every July. In addition, all test instrumentation is calibrated daily, or as required by the manufacturer. A Calibration Agreement is maintained with Hewlett Packard.

Occupied Bandwidth

Occupied Bandwidth is measured as a radiated signal without attenuators and/or filter. RBW, VBW and scan settings as shown were set to produce a meaningful result in accordance with ANSI C63.4, Section 13.1.7.

Part 15.21, Information to User

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

§ 15.205 Restricted Bands of Operation

(a) Except as shown in paragraph (b) of this section, 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 | 16.69475-16.69625 | 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 | 322-339.4 | 3600-4400 | (2) |
| 13.36-13.41 | | | |

Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. Above 38.6