

**TYPE N1, O AND ON CARRIER TELEPHONE SYSTEMS — OVER-ALL CHANNEL LINE-UP
TYPE N CARRIER — SCHEDULE A AND B PROGRAM CHANNEL UNIT (J98703W)
CHANNEL NET LOSS MEASUREMENT AND TRANSMISSION-FREQUENCY TESTS**

The output of the demodulator is fed through an equalizing network to the VF patch bay. The equalizer is not adjustable. Test jacks R3 and R4 provide means for measuring at the output of the channel unit.

The purpose of these tests is to measure the over-all net loss and to check the frequency characteristics of the over-all channel.

These tests should be made only when the other tests on the channel and system have been made and are within requirements.

APPARATUS:

- 1 — 19C Oscillator, or equivalent
- 1 — Transmission Measuring Set, Type 40B, or equivalent (600 ohm)
- 1 — Channel Unit Test Stand (J98705M) (required where test jacks are not available in patch bay)

STEP	PROCEDURE						
1	The channel must be out of service. Tests should be made from channel unit test stand <i>only</i> when patching jacks are not provided.						
2	<i>At the distant end</i> connect a calibrated 19C oscillator, or equivalent, to the channel MOD IN jack, or VF IN jack of test stand, through a 600-ohm attenuator. Set the oscillator to 1000 cycles and adjust the output through the attenuator to -22.0 dbm.						
3	<i>At the testing end</i> connect the transmission measuring set to the DEMOD OUT jack, or VF OUT jack of test stand, and measure the 1000-cycle net loss. <i>Requirement:</i> -5.0 ± 1.7 dbm						
4	Check the channel frequency characteristics by repeating the test made in Steps 2 and 3, using 100 cycles and 5000 cycles. <i>Requirements:</i> <table data-bbox="454 1669 1396 1795"> <thead> <tr> <th data-bbox="454 1669 1055 1711">FREQUENCY</th> <th data-bbox="1055 1669 1396 1711">PERMISSIBLE DEVIATION FROM 1000-CYCLE READING IN STEP 2</th> </tr> </thead> <tbody> <tr> <td data-bbox="454 1711 1055 1753">100 Cycles</td> <td data-bbox="1055 1711 1396 1753">-0.25 ± 0.6 dbm</td> </tr> <tr> <td data-bbox="454 1753 1055 1795">5000 Cycles</td> <td data-bbox="1055 1753 1396 1795">-1.3 ± 0.6 dbm</td> </tr> </tbody> </table>	FREQUENCY	PERMISSIBLE DEVIATION FROM 1000-CYCLE READING IN STEP 2	100 Cycles	-0.25 ± 0.6 dbm	5000 Cycles	-1.3 ± 0.6 dbm
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100 Cycles	-0.25 ± 0.6 dbm						
5000 Cycles	-1.3 ± 0.6 dbm						
5	Remove all test connections.						