S E R V I C E   N O T E

SUPERSEDES: None

8751A Network Analyzer

Serial Numbers: 0000J00000 / 3146J00701
0000A00000 / xxxxAxxxxx (To be advised later)

(Firmware Revision 4.01 and below)
Internal Test 21 might fail due to severe test limit

To Be Performed By: Agilent-Qualified Personnel

Situation:
The Internal Test 21 might fail about once in 10 trials. This happens due to the severe test limit.

Note:
The Internal Test 21 is not included in the power-on selftest.

Solution/Action:
When the Internal Test 21 fails, perform it again. If it passes this time, the 8751A has no problem for this test. If it fails again, perform the troubleshooting.

Continued

DATE: 30 November 1992

ADMINISTRATIVE INFORMATION

Agilent Technologies

If necessary, the test value of Internal Test 21 can be checked using the FREQ BUS monitor function. See the 8751A as follows:

    a. Press [PRESET].
    b. Press [CH1].
    c. Press [MEAS] and select (R).
    d. Press [FORMAT] and select (REAL).
    e. Press [AVG] and (IFBW), and set the IFBW to "20 Hz".
    f. Press [MENU] and (NUMBER of POINTS), and enter "2".
    g. Press [START] and enter "104 MHz".
    h. Press [STOP] and enter "104.290625 MHz".
    i. Press [SYSTEM], (SERVICE MENU) and (SERVICE MODE).
       Press (FREQ BUS) and set to "5".

The values of 2 points should be within the following limits. Check them using the marker function.

    1.5620 MHz < Point 1 < 1.5630 MHz
    1.5146 MHz < Point 2 < 1.5156 MHz