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SHIBA NO.3 AMEREX BLDG. 3-12-17 MITA, MINATO-KU TOKYO 108-0073, JAPAN

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Federal Communications Commission Authorization and Evaluation Division Laboratory Division 7435 Oakland Mills Road Colombia, MD 21046

Ref.: FCC ID: ADV0711

This is to clarify that the above equipment is incapable of operating (tuning) or readily being altered by the user to operate, within the frequency bands to the Cellular Radiotelephone Service.

The frequencies in question are deleted from the ROM during manufacture, and cannot be restored through any readily available process or component such as: installation of cuts, jumper wires, resistors, diodes, or plug-in IC's; deletion of such items; or reprogramming via access codes or external devices such as a personal computer.

The receiver is incapable of converting digital cellular transmissions to analog voice audio.

Assessing the vulnerability of the receiver to possible modification

The receiver has the possibility of reducing the threshold value to discern transmissions from the Cellular Radiotelephone Service by making modification such as adding jumper wire to the UHF RF tuning circuit and UHF mixer circuit.

Design features that prevent modification of the receiver to receive Cellular Service

The scanning receiver is designed to prevent any attempt for the user to modify the receiver to receive transmissions from the Cellular Radiotelephone Service by using epoxy to cover the required parts of the UHF RF tuning circuit.

Testing method used to determine compliance with the 38 dB rejection ratio

The scanning receiver prevents transmissions more than 38 dB from the Cellular Radiotelephone Service from being received for the following reasons:

1. The image frequencies in the frequency range from 29 MHz to 54 MHz are shown as follows:

PRODUCT DEVELOPMENT & MANUFACTURING

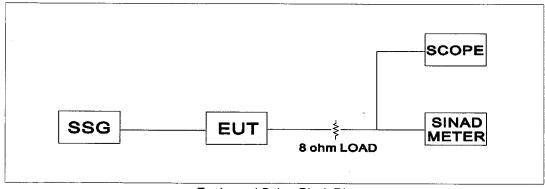
GENERAL RESEARCH OF ELECTRONICS, INC.

These image frequencies are not included within the Cellular Radiotelephone Service Frequency Band.

2. The image frequencies in the frequency range from 137 to 174 MHz, 380 to 512 MHz are shown as follows:

These image frequencies are not included within the Cellular Radiotelephone Service Frequency Band.

The 12 dB SINAD measurement method in the Cellular Radiotelephone Service used for frequencies that the receiver tunes and the signal rejection ratio gained by the measurement.



Equipment Setup Block Diagram

Measurement method

Tune the receiver to the received frequency and output the receiving frequency from SG to obtain its 12 dB SINAD. Then output the interference frequency to obtain its 12 dB SINAD. The signal rejection ratio is the ratio between these two SSG output levels.

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Test Results

Frequency	Cellular frequency	Received	Interference	Signal	Equation for interference
range	range included	frequency	frequency	rejection	frequency reception
(MHz)	(MHz)	(MHz)	(MHz)	ratio (dB)	(MHz)
417.850	825.000	417.850	825.000	71	(FR – IF) x 2 + IF = 825.000
to	to	424.000	837.300	70	(FR – IF) x 2 + IF = 837.300
429.350	848.000	429.350	848.000	69	(FR – IF) x 2 + IF = 848.000
428.550	825.000	428.550	825.000	59	(FR – IF) x 2 – IF = 825.000
to	to	434.000	835.900	58	(FR – IF) x 2 – IF = 835.900
440.050	848.000	440.050	848.000	57	(FR – IF) x 2 – IF = 848.000
440.350	870,000	440.350	870.000	66	(FR – IF) x 2 + IF = 870.000
to	to	446.000	881.300	63	(FR – IF) x 2 + IF = 881.300
451.850	893.000	451.850	893.000	61	(FR – IF) x 2 + IF = 893.000
451.050	870,000	451.050	870.000	58	(FR – IF) x 2 – IF = 870.000
to	to	456.000	879.900	. 57	(FR – IF) x 2 – IF = 879.900
462.550	893.000	462.550	893.000	57	(FR – IF) x 2 – IF = 893.000

FR = received frequency IF = 10.7 MHz

The above test results indicate that all the signal rejection ratios for the Cellular Radiotelephone Service Band are higher than 38 dB.

Label Requirement

The scanning receiver has a label affixed to the product shown on the attached drawing of the model label, which reads as follows:

WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

Based on the above, we hereby attest that the equipment in question compiles fully with the provisions of 15.121 of FCC Rules.

M. Ishizuka, Chief Engineer