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Authorization and Evaluation Division
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Ref: Click2enter Model C2E-10, FCC ID: 07CC2E10

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 components 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 RF bandpass filters.

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 RF circuitry including control circuits and bandpass filters.

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

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

1. The image frequencies in the frequency range from 29 MHz to 512 MHz are shown as follows:

FR = 29 TO 54 MHz, 108 TO 174 MHz, 380 to 512 MHz
IF = 257.5 MHz
FR + 2 x IF = IMAGE FREQ.
(29 to 54) + (2 x 257.5) = 544 to 569 MHz..... IMAGE FREQ.
(108 to 174) + (2 x 257.5) = 623 to 689 MHz ..... IMAGE FREQ.
(380 to 512) + (2 x 257.5) = 895 to 1027 MHz ..... IMAGE FREQ.

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

2. The image frequencies in the frequency range from 806 to 811 MHz are shown as follows:

FR = 806 to 811 MHz
IF = 254 MHz
FR – 2 x IF = IMAGE FREQ.
(806 to 811) - (2 x 254) = 298 to 303 MHz .....IMAGE FREQ.

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

3. The image frequencies in the frequency range from 811.0125 to 820.7375 MHz, 849 to 868.9875 MHz, and 894 to 960 MHz are shown as follows:

FR = 811.0125 to 820.7375 MHz, 849 to 898.9875 MHz, 894 to 960 MHz
IF = 257.5 MHz
FR – 2 x IF = IMAGE FREQ.
(811.0125 to 820.7375) – (2 x 257.5) = 296.0125 to 305.7375 MHz .....IMAGE FREQ.
(849 TO 868.9875) – (2 x 257.5) = 334 to 353.9875 MHz .....IMAGE FREQ.
(894 to 960) – (2 x 257.5) = 379 to 445 MHz .....IMAGE FREQ.

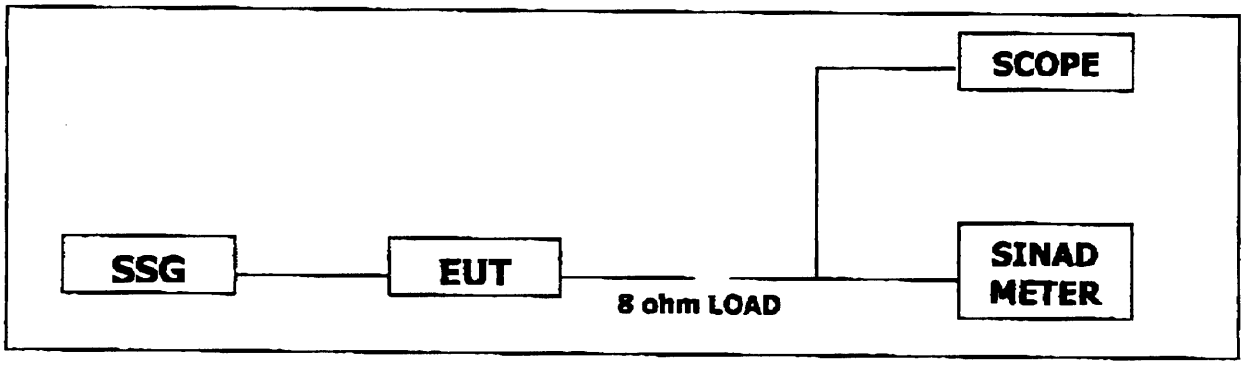
These image frequencies are not included within the Cellular Radiotelephone Service Frequency Band.

4. The image frequencies in the frequency range from 820.75 to 823.9875 MHz are shown as follows:

FR = 820.75 to 823.9875 MHz
IF = 260 MHz
FR – 2 x IF = IMAGE FREQ.
(820.75 to 823.9875) – (2 x 260) = 300.75 to 303.9875 MHz .....IMAGE FREQ.

These image frequencies are not included within the Cellular Radiotelephones 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.

Test Results (1)

Frequency range (MHz)	Cellular frequency range included (MHz)	Received frequency (MHz)	Interference frequency (MHz)	Signal rejection ratio (dB)	Equation for interference frequency reception (MHz)
29.000	380.500	29.000	830.500	68	1st LO x 2 + IF = 830.500
to	to	34.000	840.500	70	1st LO x 2 + IF = 840.500
38.250	849.000	28.250	849.000	69	1st LO x 2 + IF = 849.000
48.250	869.000	48.250	869.000	68	1st LO x 2 + IF = 869.000
to	to	51.000	874.500	68	1st LO x 2 + IF = 874.500
54.000	880.500	54.000	880.500	68	1st LO x 2 + IF = 880.500
108.000	839.000	108.000	839.000	76	1st LO x 2 + FR = 839.000
to	to	110.000	845.000	76	1st LO x 2 + FR = 845.000
111.300	848.900	111.300	848.900	77	1st LO x 2 + FR = 848.900
118.000	869.000	118.000	869.000	82	1st LO x 2 + FR = 869.000
to	to	122.000	881.000	80	1st LO x 2 + FR = 881.000
126.300	893.900	126.300	893.900	73	1st LO x 2 + FR = 893.900
29.000	888.500	29.000	888.500	68	1st LO x 4 + FR = 888.500
to	to	----	----	----	-----
30.375	894.000	30.375	894.000	70	1st LO x 4+ FR = 894.000

IF = 257.500 MHz
FR = received frequency
1st LO = FR + IF

Test Results (2)

Frequency range (MHz)	Cellular frequency range included (MHz)	Received frequency (MHz)	Interference frequency (MHz)	Signal rejection ratio (dB)	Equation for interference frequency reception (MHz)
952.7500	824.0000	952.7500	824.0000	49	FR – 1ST IF/2 = 824.0000
to	to	956.0000	827.2500	49	FR – 1ST IF/2 = 827.2500
960.0000	831.2500	960.0000	831.2500	48	FR – 1ST IF/2 = 831.2500
819.6500	824.0000	819.6500	824.0000	64	1st LO x 2 – 2nd LO – 2nd IF = 824.0000
to	to	-----	----	----	-----
820.7375	826.1750	820.7375	826.1750	66	1st LO x 2 – 2nd LO – 2nd IF = 826.1750
849.0000	882.7000	849.0000	882.7000	66	1st LO x 2 – 2nd LO – 2nd IF = 882.7000
to	to	852.0000	888.7000	65	1st LO x 2 – 2nd LO – 2nd IF = 888.7000
854.6500	894.0000	854.6500	894.0000	66	1st LO x 2 – 2nd LO – 2nd IF = 894.0000
937.7000	824.000	937.7000	824.0000	57	1st LO x 2 – 2nd LO x 2 + 2nd IF = 824.0000
to	to	944.0000	836.6000	56	1st LO x 2 – 2nd LO x 2 + 2nd IF = 836.6000
950.2000	849.000	950.2000	849.0000	55	1st LO x 2 – 2nd LO x 2 + 2nd IF = 849.0000

1st IF = 257.500 MHz
2nd IF = 21.400 MHz

FR = received frequency
1st LO = FR – 1st IF
2nd LO = 1st IF + 2nd IF

The above test results indicate that all signal rejection ratios for the Cellular Radiotelephones 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 complies fully with the provisions of 15.121 of FCC Rules.

Teru Takahashi
Executive Vice-President