

American Telecommunications Certification Body Inc.

6731 Whittier Ave, McLean, VA 22101

September 17, 2001

RE: UTStarcomm
FCC ID: O6YUTS-800FSU

Please supply the following information on this Application.

- 1.) This equipment uses a standard RF connector. Please provide conducted RF Pout measurement including procedure. Please include timing information on the TDMA pulse. Please be sure the maximum transmit cycle is used.

Conducted RF Pout Measurements: {Table 6-1 in report}

Hewlett Packard power meter E4416A was used with a 10 dB attenuator attached to measure the output at the port. The TD pulse was measured on the spectrum analyzer to be 250ms, need to get the manufacturer's data from Scott.

This phone employs TDMA-TDD modulation.

PHS applies Time Division Multiplex Access (TDMA) and Time Division Duplex (TDD) techniques. Each individual radio link between the RP and the FSU/PS is assigned 1 time slot for a control channel (C-ch) and 3 slots for traffic channels (T-chs). In the case of a single RP, there are 4 time slots installed for radio links. One slot is the control channel for signaling and the other three are the traffic channels.

Radio Features

Carrier spacing 300 KHz
Radio access TDMA-TDD
Number of TDMA slots 4 (for full rate CODEC)
Modulation p/4 shift QPSK (roll-off factor = 0.5)
Transmission bit rate 384 kbps
Speech coding 32 kbps ADPCM

The manufacturer has determined the duty cycle as 12.5%

- 2.) Your RF Radiated Pout does not make sense. Assuming 17mW peak delivered to antenna with a +10dBi gain antenna the EIRP should be around 173mW [+22.4 dBm]. Explain.

The RF Radiated measurement was re-measured and found to fall within reasonable calculated values. Please refer to revised report.

- 3.) Please confirm rated frequency tolerance. Measured values are below ~1.5ppm, but the request is for 5ppm.

This should be 3ppm. Please see revised 731 form.

- 4.) Please provide justification for requested emission designator and not just necessary bandwidth.

Justification of the requested emission designator is as in Section 2.201 (c) (4) gives a value "D" for the first symbol, i.e., "Emission in which the main carrier is amplitude and angle modulated either simultaneously or in a pre-established sequence." An "X" is used as the second symbol since the device is time division multiplexing and does not fall in any of the cases covered. The third symbol "W" is used as a combination of Aural reception and data transmission may be used as well with this device.

- 5.) FYI: All direct connections to a Spectrum Analyzer for Occupied Bandwidth need to use dBm and not dBuV at standard units. Spectrum Analyzer reference level must equal power output.

Occupied re-measured in units of dBm. Please refer to revised report.

- 6.) FYI: Band Edge measurements and radiated emissions may not comply with the procedures set out in 24.238 and Part 2 once Pout is remeasured.

Since Pout has not changed band edge remains the same.

- 7.) For each channel listed in Section 8 please provide Pout measured for Channels 1, 25, and 50. This should be listed on Table 8-1, 8-2, and 8-3 respectively.

Pout has been added to headings of tables 8-1, 8-2, and 8-3. Please refer to revised report.



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The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information may result in application termination. Correspondence should be considered part of the permanent submission and may be viewed from the Internet after a Grant of Equipment Authorization is issued.

Please do not respond to this correspondence using the email reply button. In order for your response to be processed expeditiously, you must submit your documents through the AmericanTCB.com website. Also, please note that partial responses increase processing time and should not be submitted. Any questions about the content of this correspondence should be directed to the sender.