

Prepared (and subject responsible) EUS/B/Wsteven Saverino ext.7697	No. EUS/B/WT-98:1107		
Approved (S. Saverino)	Checked	Date 1998-07-11	Rev A

TEST REPORT - ANSI C63.17 SECTION 6.2.3 AND 6.2.4

1 REVISION INFORMATION

First release of document

2 INTRODUCTION

This document is an appendix of our overall FCC Part 15 submittal. It provides results of testing performed on DCT1900 transceivers and/or systems in Ericsson Business Networks' development laboratory in Research Triangle Park, NC.

3 TEST REPORT

3.1 TEST REPORT CONTENTS

The following sections of this document are organized according to the ANSI-C63.17-1997 section 9 Test Report requirements.

3.2 APPLICABLE STANDARDS

ANSI-C63.17-1997 "Methods of Measurement of the Electromagnetic and Operational Compatibility of Unlicensed Personal Communications Services (UPCS) Devices"

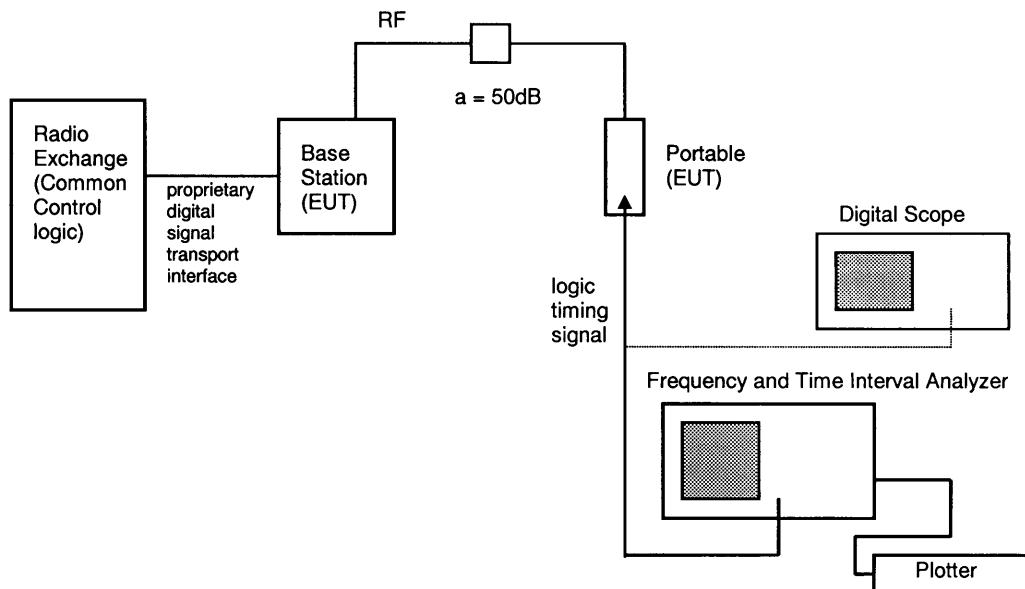
EIA/TIA-662 "Personal Wireless Telephone" Standard

3.3 EQUIPMENT UNITS TESTED

- Portable Telephone Transceiver
Model Number: DT620
FCC I.D. AXAROA1173201
Serial Number: 45
- Base Station Transceiver
Model Number: DB600
FCC I.D. AXAKRC1011371
Serial Number: UA200GA76B
- Radio Exchange (common control system logic)
Serial Number: 41729158

Prepared (and subject responsible) EUS/B/W	No. EUS/B/WT-90104		
Doc /Approved (S. Saverino)	Checked	Date 1998-07-01	Rev A

3.4 TEST CONFIGURATION



3.5 LIST OF TEST EQUIPMENT

HP 5372A Frequency and Time Interval Analyzer
Serial Number: 33301A01563
Calibration valid through 9-25-99.

Tektronix TDS744A
Serial Number: B021150
Calibration valid through 7-30-99.

3.6 UNITS OF MEASUREMENT

Where applicable, measurements of conducted emissions are reported in dB referenced to one milli-Watt (dBm). Measurements of operating frequency, operating frequency with variations in ambient temperature and input voltage, and occupied bandwidth of intentional radiators are reported in units of Hertz or multiples thereof. Measurements of input power to intentional radiators are reported in units of watts. All formulas of conversions and conversion factors, if used are included within this report.

3.7 LOCATION OF TEST SITE

The tests described in this document have been performed in our Research Triangle Park development laboratory using accepted good engineering practices. (These tests do not require a "recognized" or "accredited" test site to be valid.)

Prepared (and subject responsible) EUS/B/W	No. EUS/B/WT-90104		
Doc /Approved (S. Saverino)	Checked	Date 1998-07-01	Rev A

3.8 MEASUREMENT PROCEDURES

ANSI C63.17 section 6.2.3 and 6.2.4 completely describe the performance requirement, test equipment and measurement process for this test.

3.9 REPORTING MEASUREMENT DATA

ANSI C63.17 requires measurement results presented in graphical or tabular form. The results of section 6.2.3 and 6.2.4 testing are presented graphically in the attachments to this document.

3.10 GENERAL AND SPECIAL CONDITIONS

The general requirements for these measurements in section ANSI C63.17 Section 6.2 allows this test to be performed by a conducted measurement. In this test, the Portable and Base Station RF interface was setup through a coax/attenuator (50 dB) connection.

To provide the most accurate measurement of frame timing/stability, we determined that measurement of the logic signal controlling the Portable transmitter burst should be directly monitored by test equipment, rather than attempting to derive a similar signal through the use of receiver/demodulator test equipment which would complicate the measurement setup and would add additional variability to the measurements.

3.11 SUMMARY OF RESULTS

The tested DCT1900 equipment complies with the requirements of ANSI C63.17 section 6.2.3 and 6.2.4.

Section 6.2.3 measured the stability of the transmit frame timing of a Portable Transceiver receiving RF transmission ("locked") from a Base Station. (Thus measuring both the Base Station and Portable transceiver total stability.) The measurement of the transmit timing was monitored at a timing logic signal in the transceiver burst circuit. The timing stability fully complied with the requirement of +/-50ppm (+/-500 ns) requirement, as demonstrated in the attached plots/printouts from the test equipment.

Section 6.2.4 measured the frame period and jitter of the same signal using the same setup. The frame period and jitter fully complied with the requirements for peak to peak mean and standard deviation, as demonstrated in the attached plots/printouts from the test equipment.

3.12 REQUIRED SIGNATURES

Engineer performing the test:

(Ericsson)

Witnessed by:

Steve Saverino (Ericsson)