



Electrical (EMC)

**DATE: 07 September 2003**

**I.T.L. (PRODUCT TESTING) LTD.**  
**EMC Test**  
for  
**RACAM - TECH LTD.**

**Equipment under test:**

**Extension Unit**

**XU**

Approved by:

  
I. Raz, EMC Laboratory Manager

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This report relates only to items tested.

## 6. Conducted Emission Data

### 6.1 Test Specification

FCC, Part 15, Subpart B: Class B

### 6.2 Test Procedure

The E.U.T operation mode and test set-up are as described in Section 3.1. In order to minimize background noise interference, the conducted emission testing was performed inside a shielded room (see section 3), with the E.U.T placed on an 0.8 meter high wooden table, 0.4 meter from the room's vertical wall.

The E.U.T was powered from 115 V AC / 60 Hz via 50 Ohm / 50  $\mu$ Hn Line Impedance Stabilization Network (LISN) on the phase and neutral lines. The LISN's were grounded to the shielded room ground plane (floor), and were kept at least 0.8 meters from the nearest boundary of the E.U.T

The center of the E.U.T AC cable was folded back and forth, in order to form a bundle less than 0.40 meters and a total cable length of 1 meter.

The effect of varying the position of the cables was investigated to find the configuration that produces maximum emission.

The emission voltages at the LISN's outputs were measured using a computerized receiver, complying with CISPR 16 requirements. The specification limits are loaded to the receiver via a 3.5" floppy disk and are displayed on the receiver's spectrum display.

A frequency scan between 0.15 and 30 MHz was performed at 9 kHz I.F. band width, and using peak detection.

The spectral components having the highest level on each line were measured using a quasi-peak detector

### 6.3 Measured Data

JUDGEMENT: Passed by 41.4 dB $\mu$ V

The EUT met the FCC Part 15, Subpart B, Class B specification requirements.

The details of the highest emissions are given in Figure 9 to Figure 14.

TEST PERSONNEL:

Tester Signature:  Date: 03.09.03  
Typed/Printed Name: Y. Mordukhovitch