

TCB TRAINING  
UNLICENSED DEVICES

PART 4

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## MEASUREMENT STANDARDS

- I. ANSI C63.4-1992 - Part 15 testing bible (15.31(a)(6))
  - A. Includes all Part 15 devices except: Spread spectrum, unlicensed PCS, UNII, and transmitters operating below 30 MHz
    - 1. Excluded Section 5.7 (Use of artificial hand)
    - 2. Excluded Section 9 (Use of absorbing clamp measurements)
    - 3. Excluded Section 14 (Use of click relaxation for digital devices)
    - 4. Excluded Section 8.2.2 (Use of a rod antenna for radiated measurements below 30 MHz)

**Note: There is an error in these rules that does not include the exception for Section 8.2.2 of ANSI C63.4. If you read the rulemaking that adopted the 1992 version of C63.4, it becomes apparent from the discussion that the Commission does not accept radiated emission measurements below 30 MHz that were made with a rod antenna.**

- B. Swept frequency devices are measured with the sweeping stopped (15.31(c))
- C. Devices tested on site must be measured at 3 sites (15.31(d))
  - 1. Test sites may include: (1) manufacturer's facility, (2) test site facility and (3) one installation site
    - a. Sites must be representative of actual installations
- D. AC power varied from 85 % to 115 % normal rating (15.31(e))