

ATTACHMENT TO TEST REPORT

ACCORDING TO: FCC CFR 47 PART 15 Subpart C, section 15.231 and
RSS-210, Issue 5, section 6.1.1; ICES-003 Issue 4:2004

FOR:

Visonic Ltd.

Wrist-worn transmitter

Model:MCT-212

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1 Applicant information

Client name: Visonic Ltd.
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Contact name: Mr. Arick Elshtein

2 Equipment under test attributes

Product name: Wrist-worn transmitter
Model(s): MCT-212
Serial number: W09/05
Receipt date 2/8/2005

3 Manufacturer information





Manufacturer name: Visonic Ltd.
Address: 24 Habarzel street, Tel Aviv, Israel, 69710
Telephone: +972 3645 6714
Fax: +972 3645 6891
E-Mail: aelshtein@visonic.com
Contact name: Mr. Arick Elshtein

4 Test details

Project ID: 16304
Location: Hermon Laboratories Ltd. P.O.Box 23, Binyamina 30500, Israel
Test performed: 5/16/2005
Test specification(s): FCC Part 15, subpart C, §15.231; subpart B, §15.109;
RSS-210 Issue 5:2001, section 6.1.1; ICES-003 issue 4:2004
Test suite: FCC_15.231(a) and RSS-210_6.1.1 (5/10/2004 8:29:24 AM, modified)

5 Tests summary

Test	Status
Transmitter characteristics	
FCC Part 15, Section 231(a) / RSS-210, Section 6.1.1(a), Periodic operation requirements	Pass

	Name and Title	Date	Signature
Tested by:	Mr. Andrey Adelberg, test engineer	May 16, 2005	
Reviewed by:	Mrs. M. Cherniavsky, certification engineer	May 17, 2005	
	Mr. M. Nikishin, EMC group leader	May 17, 2005	
Approved by:	Mr. A. Usoskin, C.E.O.	May 17, 2005	

6 EUT description

6.1 General information

Miniature waterproof transmitter, designed for home health care signaling. The EUT is powered by 3 V internal battery and utilizes an integral antenna.

The MCT 212 is a special case/ variant of Visonic Ltd. standard range of products which have the Power Code protocol. The fixed 6 blocks is the standard case.

Because the MCT 212 is used for emergency/ hold up/health care/ purposes, and Visonic Ltd. wanted to ascertain (or at least give higher probability) of receiving the message when several units may be activated (for example in case of panic in senior citizen hotel), the application of 6 blocks was modified.

The number of "block" now depends and is related to the I.D. (Identity code) of the transmitter, and may vary between 2 and 8 . Each of these blocks may have between 6 and 21 repeated messages with 2 to 17 spaces between the messages.

A limiting timer ascertains that the total duration of transmission does not exceed 3.35 seconds, regardless of how long the button is pressed.

7 Transmitter tests according to 47CFR part 15 subpart C requirements

7.1 Periodic operation requirements

7.1.1 General

The EUT was verified for compliance with periodic operation requirements listed below:

- Continuous transmissions such as voice, video and the radio control of toys are not permitted;
- A manually operated transmitter shall employ switch that will automatically deactivate the transmitter within not more than 5 seconds of being released;
- A transmitter activated automatically shall cease transmission within 5 seconds after activation;
- Periodic transmissions, excluding polling or supervision transmissions, at regular predetermined intervals are not permitted;
- Total duration of polling or supervision transmissions, including data, to determine system integrity in security or safety applications shall not exceed 2 seconds per hour according to FCC 15.231(a) requirements;
- Periodic rate of polling or supervision transmissions, to determine system integrity in security or safety applications shall not exceed one transmission of not more than 1 second duration per hour according to RSS-210, section 6.1.1(a)(3) requirements;

The rationale for compliance with the above requirements was either test results or supplier declaration. The summary of results is provided in Table 7.1.1.

7.1.2 Test procedure for transmitter shut down test

7.1.2.1 The EUT was set up as shown in Figure 7.1.1.

7.1.2.2 The spectrum analyzer center frequency was adjusted to the EUT carrier, span set to zero and video triggered for transmission.

7.1.2.3 The transmitter was activated either manually or automatically. Once manually operated transmitter was activated, the switch was immediately released.

7.1.2.4 The transmission time was captured and shown in Plot 7.1.1.

Figure 7.1.1 Setup for transmitter shut down test

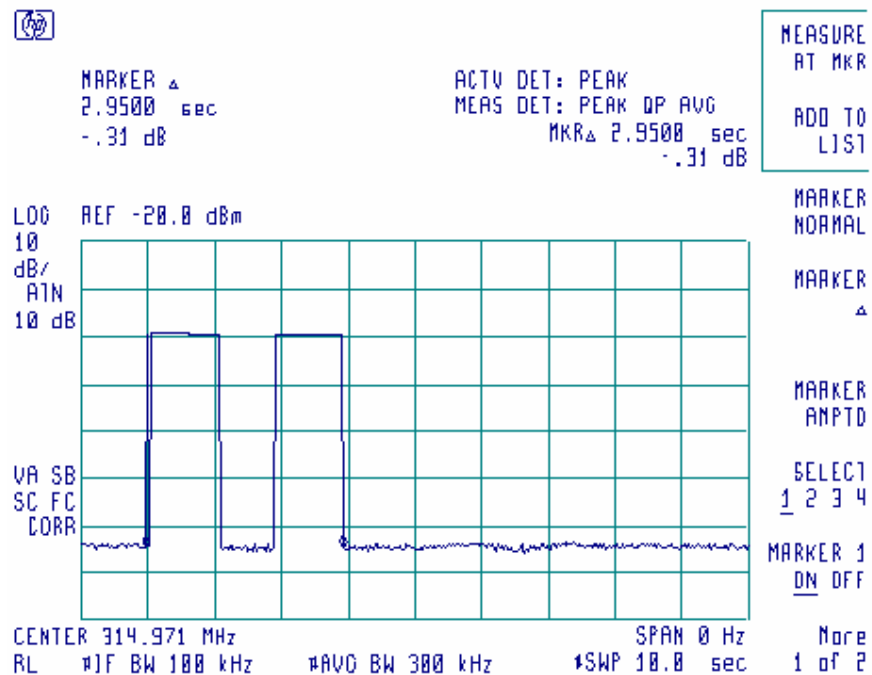




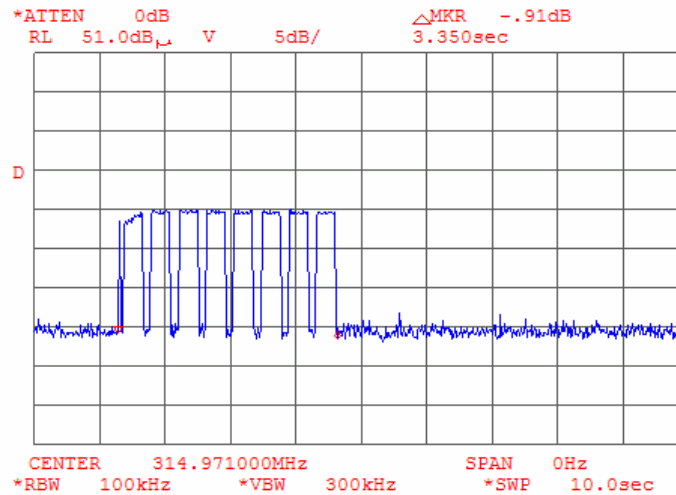
Table 7.1.1 Periodic operation requirements

Requirement	Rationale	Verdict
Continuous transmissions are not permitted	Supplier declaration	Comply
A manually operated transmitter shall be deactivated within not more than 5 seconds of switch being released	Plot 7.1.1	Comply
Transmitter activated automatically shall cease transmission within 5 seconds	NA	NA
Periodic transmissions at regular predetermined intervals are not permitted	Supplier declaration	Comply
Total duration of polling or supervision transmissions shall not exceed 2 seconds per hour	NA	NA

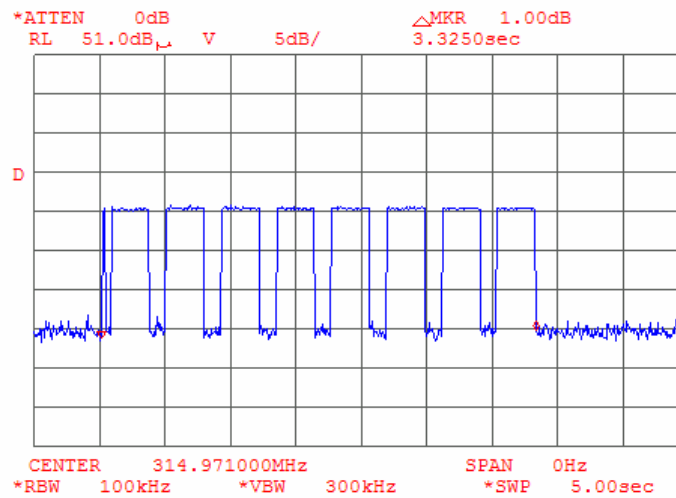
Plot 7.1.1 Transmitter shut down test result for 2 blocks



Plot 7.1.2 Transmitter shut down test result for 8 blocks



Plot 7.1.3 Transmitter shut down test result for 8 blocks, zoomed



Reference numbers of test equipment used

HL 1425							
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Full description is given in Appendix A.