

Prima Ricerca & Sviluppo Srl soggetta a direzione e coordinamento da parte della Giovanni Maspero & C. S.p.A. – C.I. 02634780130  
Sede legale : 22100 Tavernola (CO) Via Conciliazione, 1 Cod. FISC. e N. R.I. CO 02635860139  
Sede operativa : Laboratori Via Campagna, 92 22020 Faloppio fraz. Gaggino (CO) Tel. +39 03135000.11 Fax +39 031991309

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EQUIPMENT UNDER TEST : **TRANSMITTER at 868 MHz**  
*APPARECCHIO IN PROVA :* **TYRE TEMPERATURE AND PRESSURE**  
**WIRELESS CONTROL SENSOR**  
**RTS**

REFERENCE STANDARDS : **FCC 47CFR Part 15.231**  
*NORME DI RIFERIMENTO :*

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**CUSTOMER:**  
*RICHIEDENTE:*

- **Dept. / Firm:** **ZADI S.P.A.**  
*Ente / Società:*
  - **Mr.:** **SIG. CAVAZZA**  
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- 

**Site of test execution:** Via Campagna, 92 - 22020 Gaggino Faloppio (CO) - Italy  
*Località esecuzione prove:*

**Date of test samples receipt:** **26/06/2007**      **Date of start test:** **28/08/2007**  
*Data ricevimento campioni:*      *Data inizio prove:*

**Date of end test:** **15/09/2007**  
*Data fine prove:*

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**Witness to the test:**  
Presenti alle prove:

Nobody / Nessuno  
.....

**Tested by:**  
Testato da:

.....  
Massimiliano Tallariti

**Approved by:**  
Approvato da:

.....  
Massimo Maltempo

The test results recorded in this Test Report are exclusively referred to the tested samples.

*I risultati del presente rapporto di prova si riferiscono esclusivamente al campione sottoposto a prova.*

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## **1 TECHNICAL INFORMATION OF EQUIPMENT UNDER TEST (EUT)**

### **1.1 E.U.T. identification**

Brand name:	ZADI SPA
Manufacturer :	ZADI SPA
Model name or No. :	TYRE TEMPERATURE AND PRESSURE WIRELESS CONTROL SENSOR mod. RTS
Part number / Serial No.:	Not present
Country of manufacturer:	ITALY
FCC ID :	VFZZADIRTS01

### **1.2 E.U.T. classification**

Modulation	Transmitter 868 MHz in FSK
Supply voltage:	Vdc internal lithium battery CR2025 Alternative battery CR123A not investigated
Single or Multiple Unit :	Single
Indoor / outdoor cables	No cables

### **1.3 Modifications incorporated in E.U.T.**

The following items are the modifications introduced in the equipment under test :

- None

#### 1.4 Ports identification

This section contains descriptions of all signal ports and AC/DC power input/output ports, the maximum length and the type of the cable provided by manufacturer needed for the tests.

Moreover it is specified if the ports are ever or optionally connected.

Port	Description	Maximum length	Connection	Ancillaries / Modules / Support Equipment	
1	Enclosure	Plastic case	----	By screws	----
2	AC power input/output ports	Not present	*****	*****	None
3	DC power input/output ports	3 Vdc by internal power supply	*****	*****	None
4	Signals Ports	Not present	*****	*****	None

Note: During the tests all cables must be what provided the manufacturer or the same that used in the real employment of the EUT.

### **1.5 Operating test modes and test Conditions**

EUT was tested under the Standard operating conditions and normal loads indicated in the reference standards applied and in directions for use supplied by the manufacturer. In particular, the equipment shall be tested under normal test conditions contained in the relevant product and basic standard or in the information accompanying the equipment.

**Table 1:** Each operating condition adopted for the execution of the test (setting of the controls and/or mode(s) of operation) has been identified by an indicator (#.):

<i>Operating condition (#)</i>	<i>Description of the mode of operation</i>
( #1)	Transmission mode

## 2 TEST CONDITIONS

### 2.1 Operating test modes and test conditions

The equipment has been tested according to the operative conditions described in the user/installation manual provided by the manufacturer and by following reference standards :

#### Reference Standard:

FCC Part 15, Subpart C, Section §15.203, §15.205, §15.207, §15.209, §15.231

In the following table there are the operating conditions adopted during tests identified by an indicator (#..) at which has been referred the item "Operating condition of the equipment under test" of all technical sheets of the tests (see Section 4)

<i>Operating condition</i>	<i>Description</i>
<b>#1</b>	<i>Continuous transmission</i>

### 2.2 Test overview

Sample tested is the main model of a complete set of 868 MHz RF transmitters.

The appliance is classified as "Intentional radiator" in conformity to FCC Part 15 Sub. A §15.201, and it is subject to "Certification" procedure.

The application is mainly used for remote control check for whole pressure and temperature.

It is possible to declare that the appliance it is subject to additional requirements stated in §15.203, §15.205, §15.207, §15.209, §15.231

## 3 REFERENCE STANDARD FOR PERFORMED TESTS

<i>Reference standard :</i>	<i>Title :</i>
<b>FCC Part 15 part A</b>	Code of Regulations Part 15 (Radio Frequency Devices), Subpart A (General) of the Federal Communication Commission (FCC)
<b>FCC Part 15 part C</b>	Code of Regulations Part 15 (Radio Frequency Devices), Subpart C (Intentional Radiators) of the Federal Communication Commission (FCC)
<b>ANSI C63.4</b>	American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz

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## 4 SUMMARY OF TEST RESULTS

### 4.1 EMISSION TESTS

Requirements	CFR Section	Test result
Antenna Requirements	15.203	Within the limit
Radiated Spurious Emission	15.209, 15.205(b)	Within the limit
Conducted Emission	15.207	Not applicable*
Periodic Operation Characteristics	15.231(a)	Within the limit
Field Strength Limits (Fundamental)	15.231(b)	Within the limit
20 dB Bandwidth	15.231(c)	Within the limit

\*Not required, the EUT is battery powered.

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## TEST RESULTS

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**TEST**  
**1.**

**ANTENNA REQUIREMENT**

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REFERENCE DOCUMENT FCC CFR47,PART 15 subpart C

• **REGULATION:**

15.203 an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

• **RESULT:**

Antenna is a wire welded on the PCB.

The EUT is complied with this section.

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**TEST  
2.**

**RADIATED FIELD 30 - 1000 MHZ**

REFERENCE DOCUMENT FCC47CFR Part 15

- **TEST SETUP:** According to reference standard
- **TEST LOCATION:** Semi-anechoic chamber
- **TEST EQUIPMENT USED FOR TEST:** EMI receiver Rohde & Schwarz Mod. ESMI  
Biconical Antenna Rohde & Schwarz Mod. HK116  
Log-periodic Antenna Rohde & Schwarz Mod. HL223  
Log-periodic Antenna Rohde & Schwarz Mod. HL025

- **TESTED PORT:** Enclosure
- **FREQUENCY RANGE:** 30 - 1000 MHz
- **EMISSION LIMITS:** Acc. to Section 15.209 + 15.231  
of reference document
- **UNCERTAINTY OF MEASURE:** Combined uncertainty =  $\pm 1.75$  dB  
Total uncertainty = (k=2)  $\pm 3.5$  dB

TEST CONDITIONS:	MEASURED
Ambient temperature : 15 - 35 °C	24 $\pm$ 3 °C
Ambient humidity : 25 - 75 %rH	40 $\pm$ 5 %rH
Pressure : 85 - 106 kPa (860 mbar - 1060 mbar)	950 $\pm$ 50 mbar
Voltage : internal battery	3 Vdc (internal battery)

OPERATING CONDITION (Rif. Section. 2) : #1

RESULT: WITHIN THE LIMIT

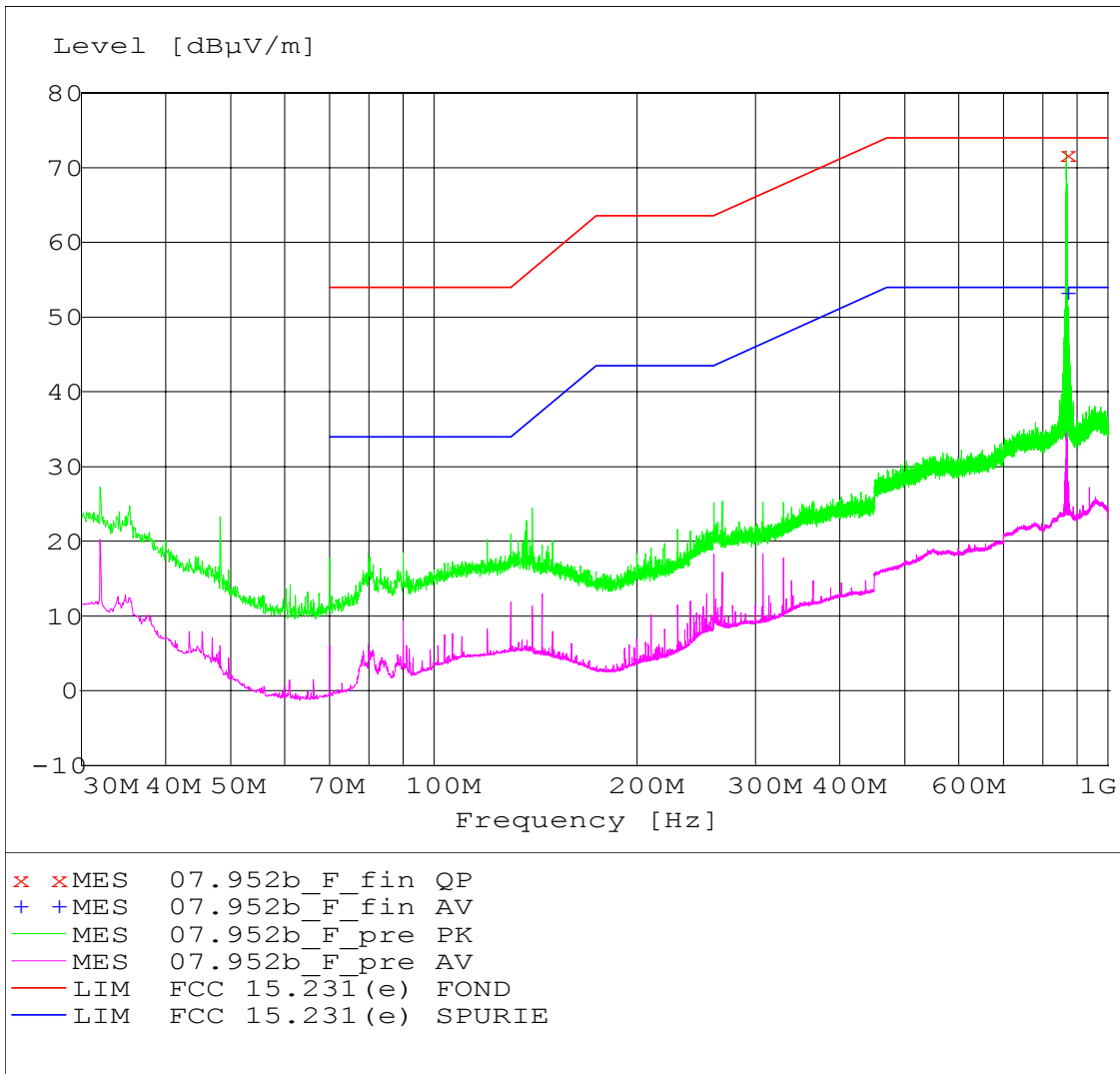
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**SCAN TABLE : “Radiated Emission”**

Unit:	dB $\mu$ V/m		
Curve1:	Detector :	Mode:	
Curve2:	Max Peak	ClearWrite	
	Avg	ClearWrite	
<u>Subrange:</u>			
Start Frequency:	30.0 MHz	Step Size:	80 kHz
Stop Frequency:	1000.0 MHz	IF Bandwidth:	120 kHz
Measure Time:	10 ms		
Receiver:	ESXI	Probe Transducer:	CHASE_6111_PRC
Signal Path:	Path 4	System Transducer:	RFin2-CP1/X11
Scan Mode:	Lin	Add. Transducer:	W71.01
Tracking Gen.:	Off		
Input:	2 DC		
Preamplifier:	10 dB	Demodulation:	FM Broad
RF att.:	Coupled	Volume:	0.0%
Ref. Level:	-50 dBm	Squelch:	--
Min. RF att.:	0 dBm	Option:	None
Autorange:	On		
Curve 1:	On	Repetition:	Single
Curve 2:	On	Stop Mark:	On
		Stop Message:	On
		Text:	Connect antenna

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**Final measurement in QP detector**

Frequency	Level	Transd	Limit	Margin	Height	Azimuth	Polarisation
MHz	dBµV/m	dB	dBµV/m	dB	cm	deg	
868.080000	71.80	12.20	74.00	2.20	175.0	16.00	VERTICAL

**Final measurement in AV detector**

Frequency	Level	Transd	Limit	Margin	Height	Azimuth	Polarisation
MHz	dBµV/m	dB	dBµV/m	dB	cm	deg	
868.480000	53.24	12.20	54.00	0.70	175.0	16.00	VERTICAL

NOTE:

*The EUT is complied with 15.205 section.*

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**TEST**  
**3.**

**RADIATED FIELD 1 - 9 GHZ**

REFERENCE DOCUMENT FCC PART 15.231

- **TEST LOCATION:** Semi-anechoic chamber
- **TEST EQUIPMENT USED FOR TEST:** EMI RECEIVER Rohde & Schwarz Mod. ESU (20Hz-26.5GHz)  
Log-periodica Broadband Antenna mod. HL025  
Software Rohde & Schwarz EMC32
- **TESTED PORT:** Enclosure
- **EMISSION LIMITS:** Acc. to Section 15.231 of reference document
- **FREQUENCY BAND :** Fundamental Frequency to 10<sup>th</sup> harmonics acc. to §15.231 (a)
- **UNCERTAINTY OF MEASURE:** Combined uncertainty =  $\pm 1.75$  dB  
Total uncertainty = (k=2)  $\pm 3.5$  dB

TEST CONDITIONS:	MEASURED
Ambient temperature : 15 - 35 °C	24 $\pm$ 3 °C
Ambient humidity : 25 - 75 %rH	40 $\pm$ 5 %rH
Pressure : 85 - 106 kPa (860 mbar - 1060 mbar)	950 $\pm$ 50 mbar
Voltage : internal battery	3 Vdc

**OPERATING CONDITION (Rif. Section. 2) : # 1**

**RESULT: WITHIN THE LIMIT**

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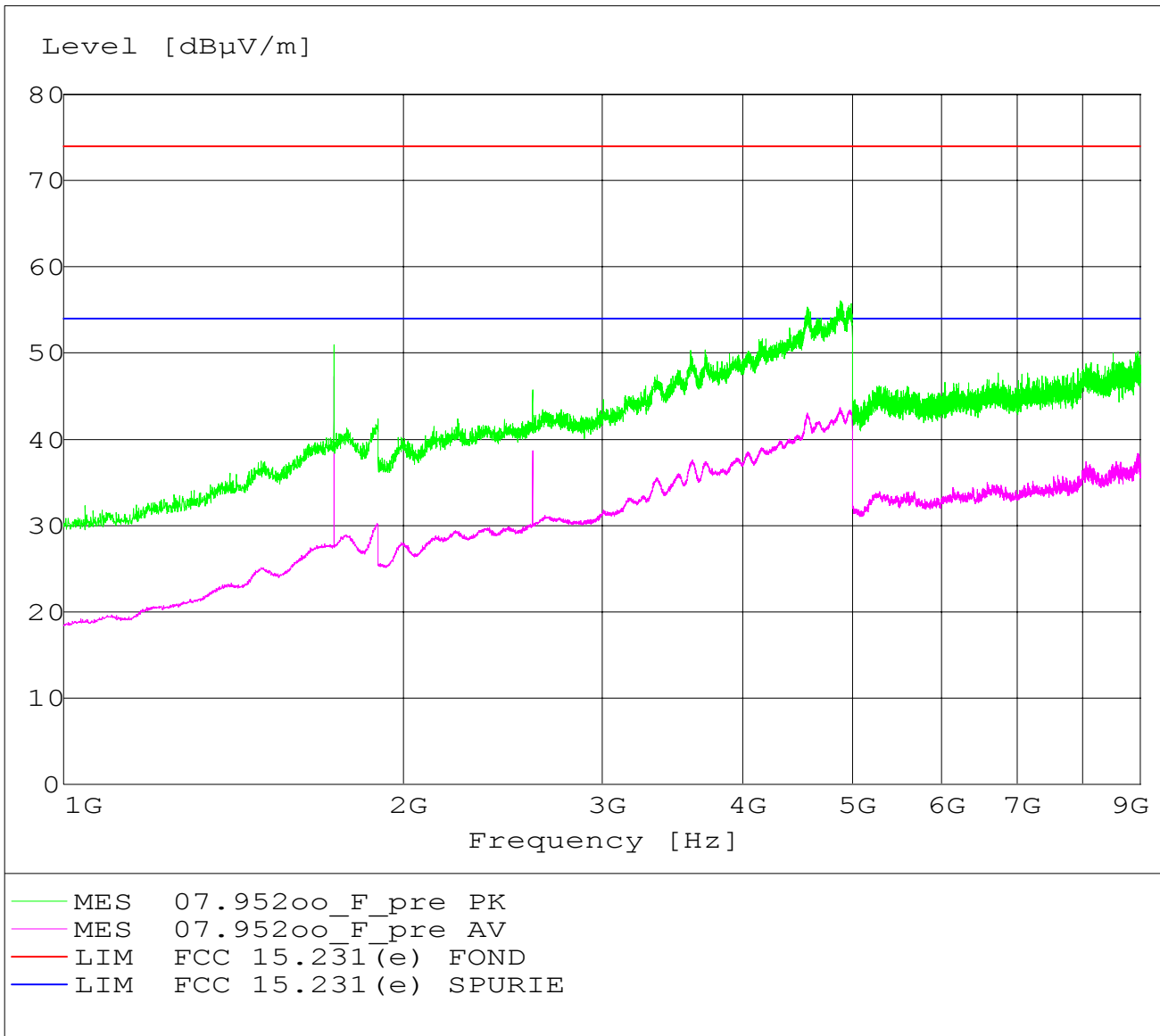
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**SCAN TABLE : “Radiated Emission”**

Subrange 1

Frequency Range:	1GHz - 9GHz
Receiver:	ESMI @ GPIB0 (ADR 22)
Signal Path:	PRS Radiate FW 1.0 Correction Table: PRS Radiate
Antenna:	Log.Per. Broadband Antenna HL25a Correction Table (vertical): HL025_PRS2006  Correction Table (horizontal): HL025_PRS2006
Antenna Tower:	Correction Table: Path EmiFCC Deisel Antenna Tower [Deisel Antenna Tower]
Turntable:	@ GPIB0 (ADR 7) Deisel Turntable [Deisel Turntable] @ GPIB0 (ADR 7)
Resolution Bandwidth:	1 MHz

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**TEST**  
**5.**

**PERIODIC OPERATION CHARACTERISTICS**

REFERENCE DOCUMENT FCC CFR47,PART 15 subpart C

• **REGULATION:**

15.231(a) The provisions of this Section are restricted to periodic operation within the band 40.66 - 40.70 MHz and above 70 MHz. Except as shown in paragraph (e) of this Section, the intentional radiator is restricted to the transmission of a control signal such as those used with alarm systems, door openers, remote switches, etc. Continuous transmissions, voice, video and the radio control of toys are not permitted. The prohibition against data transmission does not preclude the use of recognition codes. Those codes are used to identify the sensor that is activated or to identify the particular component as being part of the system.

(e) Intentional radiators may operate at a periodic rate exceeding that specified in paragraph (a) and may be employed for any type of operation, including operation prohibited in paragraph (a), provided the intentional radiator complies with the provisions of paragraphs (b) through (d) of this Section, except the field strength table in paragraph (b) is replaced by the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emission (microvolts/meter)
40.66 - 40.70	1,000	100
70 - 130	500	50
130 - 174	500 to 1,500 **	50 to 150 **
174 - 260	1,500	150
260 - 470	1,500 to 5,000 **	150 to 500 **
Above 470	5,000	500

\*\* linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz,  $uV/m$  at 3 meters =  $22.72727(F) - 2454.545$ ; for the band 260-470 MHz,  $uV/m$  at 3 meters =  $16.6667(F) - 2833.3333$ . The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

• **RESULT:**

The EUT is complied with the section shown in paragraph (e) . See graphics at the page 12 and 15 where limits for field strength are shown in upper table.

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**TEST  
6.**

**BANDWIDTH**

REFERENCE DOCUMENT FCC CFR47,PART 15 subpart C  
ANSI C63.4

- **TEST LOCATION:** Semi-anechoic chamber
- **TEST EQUIPMENT USED FOR TEST:** Spectrum Analyzer Rohde & Schwarz Mod. FSP (9kHz-40GHz)  
Log-periodica Broadband Antenna mod. HL025
- **TESTED PORT:** Enclosure

TEST CONDITIONS:	MEASURED
Ambient temperature : 15 - 35 °C	24 ± 3 °C
Ambient humidity : 25 - 75 %rH	40 ± 5 %rH
Pressure : 85 - 106 kPa (860 mbar - 1060 mbar)	950 ± 50 mbar
Voltage : internal battery	3.0 Vdc

**OPERATING CONDITION (Rif. Section. 2) : #1**

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• **REGULATION:**

15.231(c) The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

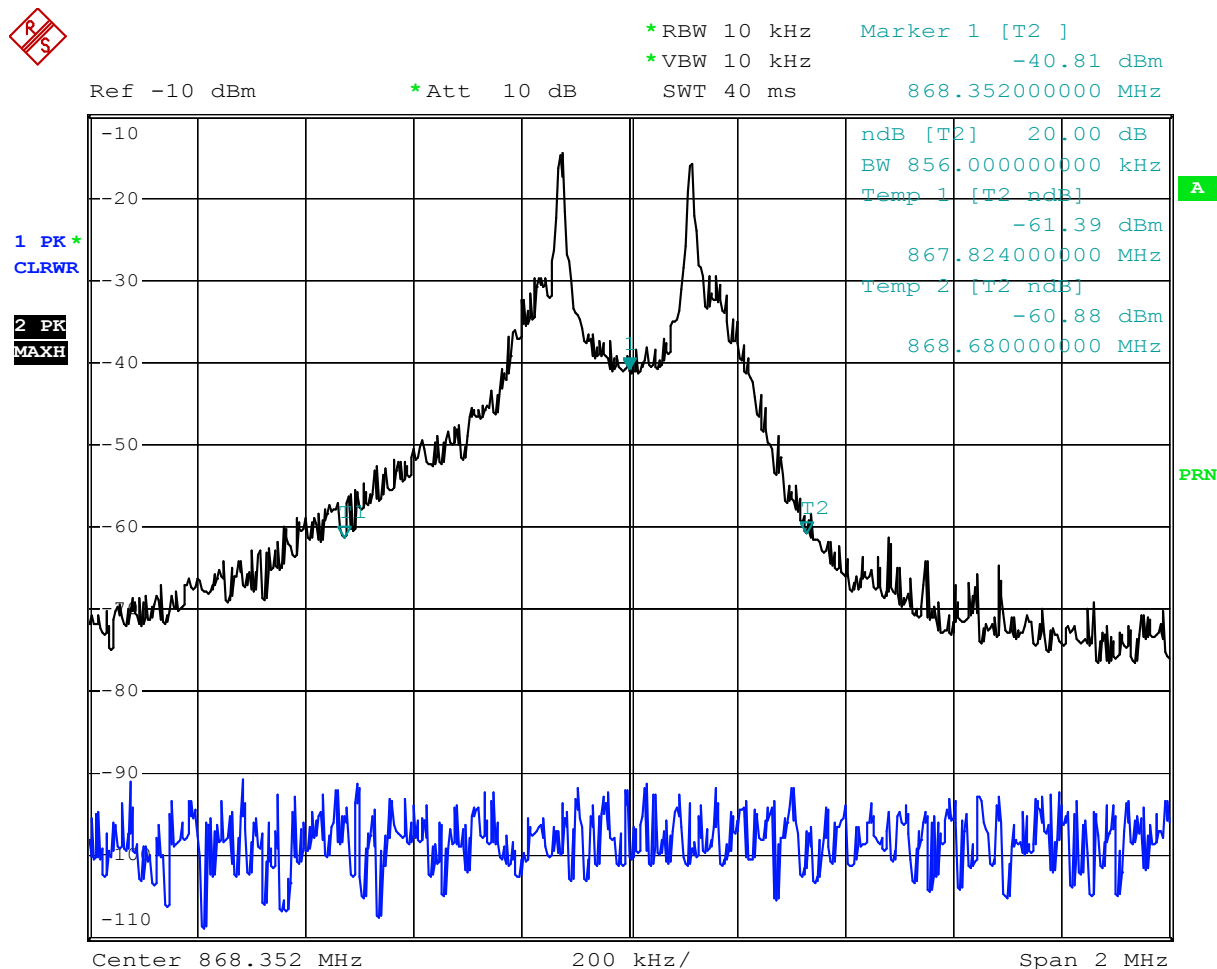
• **LIMIT:**

The 20 dB bandwidth limit =  $0.0025 \times 868.35 \text{ MHz} = 2170,8 \text{ kHz}$

• **RESULT:**

The measured 20 dB bandwidth is : 867 kHz (See Graphic)

The EUT is complied with this section.



Date: 15.SEP.2007 08:34:05

**TEST  
7.**

**TIMING**

REFERENCE DOCUMENT FCC CFR47,PART 15 subpart C  
ANSI C63.4

- **TEST LOCATION:** -
- **TEST EQUIPMENT USED FOR TEST:** -
- **TESTED PORT:** Enclosure

TEST CONDITIONS:	MEASURED
Ambient temperature : 15 - 35 °C	24 ± 3 °C
Ambient humidity : 25 - 75 %rH	40 ± 5 %rH
Pressure : 85 - 106 kPa (860 mbar - 1060 mbar)	950 ± 50 mbar
Voltage : internal battery	3.0 Vdc

**OPERATING CONDITION (Rif. Section. 2) : #1**

• **REGULATION:**

15.231(e) In addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds

• **LIMIT:**

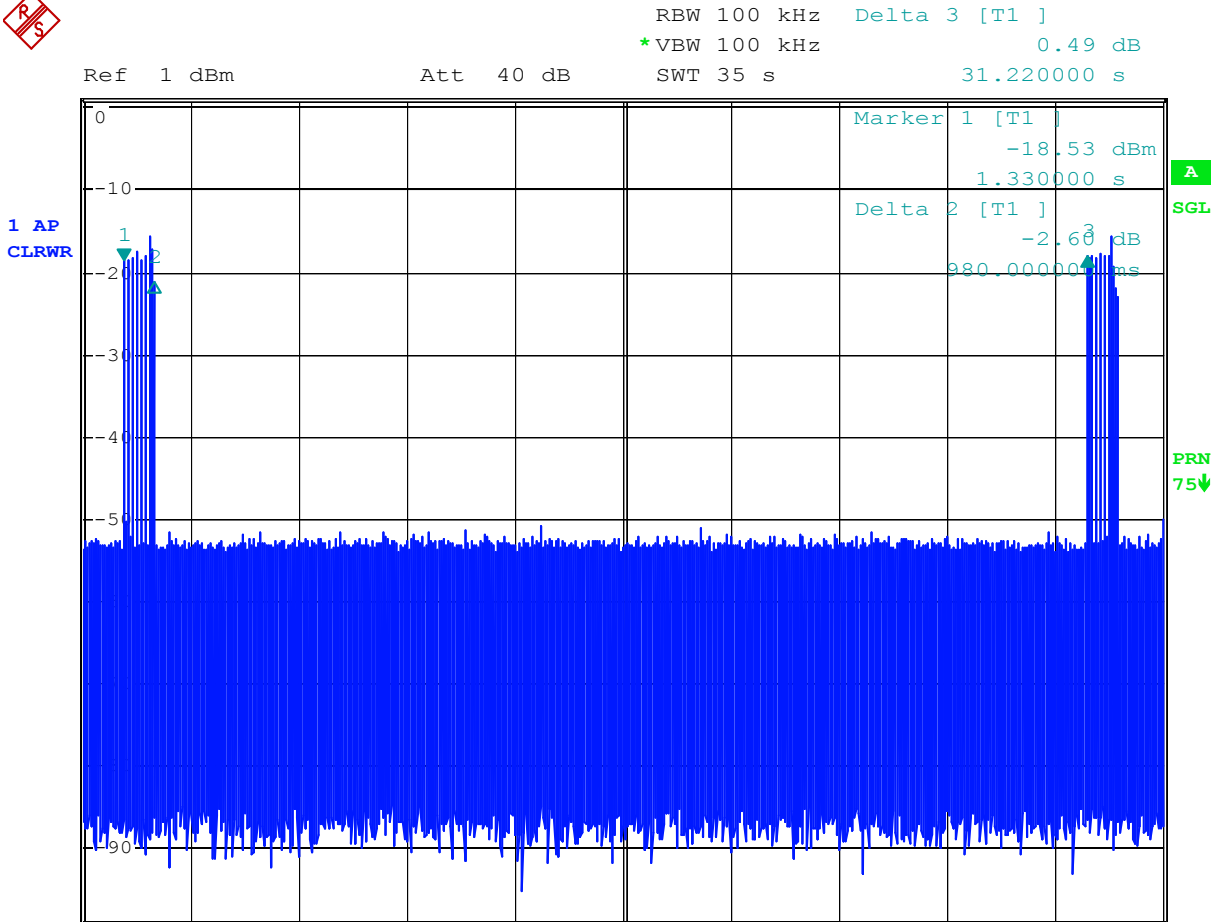
Duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds

• **RESULT:**

Total trasmission: <1s

Interval: 30s







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Date: 3.OCT.2007 09:22:14


## 5 EUT TECHNICAL DOCUMENTATION

### 5.1 Wiring diagrams

<i>Document reference (n., edition, date, ...)</i>																																	
<b>WIRING DIAGRAM</b>	<table border="1"> <tr> <td colspan="2"><b>ZADI spa</b> </td> <td colspan="2">Via C. Marx, 138 I-41012 Carpi (MO) Italy</td> </tr> <tr> <td><b>TITOLO</b></td> <td colspan="3">P992 - ZTS BIKE</td> </tr> <tr> <td><b>NOME FILE</b></td> <td colspan="3">CENTRALE RICEVENTE - V02.scm</td> </tr> <tr> <td><b>AUTORE</b></td> <td colspan="3">Romano Bernarducci</td> </tr> <tr> <td><b>VER</b></td> <td>00</td> <td><b>REV</b></td> <td>A</td> <td><b>DATA</b></td> <td>17/01/2007</td> <td><b>FOGLIO</b></td> <td>1/2</td> </tr> <tr> <td colspan="8">           PROPRIETA ESCLUSIVA DI ZADI SPA. DIVIETO DI RIPRODUZIONE            IN QUALSIASI FORMA SENZA AUTORIZZAZIONE SCRITTA.         </td> </tr> </table>	<b>ZADI spa</b> 		Via C. Marx, 138 I-41012 Carpi (MO) Italy		<b>TITOLO</b>	P992 - ZTS BIKE			<b>NOME FILE</b>	CENTRALE RICEVENTE - V02.scm			<b>AUTORE</b>	Romano Bernarducci			<b>VER</b>	00	<b>REV</b>	A	<b>DATA</b>	17/01/2007	<b>FOGLIO</b>	1/2	PROPRIETA ESCLUSIVA DI ZADI SPA. DIVIETO DI RIPRODUZIONE IN QUALSIASI FORMA SENZA AUTORIZZAZIONE SCRITTA.							
	<b>ZADI spa</b> 		Via C. Marx, 138 I-41012 Carpi (MO) Italy																														
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<b>VER</b>	00	<b>REV</b>	A	<b>DATA</b>	17/01/2007	<b>FOGLIO</b>	1/2																										
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	<table border="1"> <tr> <td colspan="2"><b>ZADI spa</b> </td> <td colspan="2">Via C. Marx, 138 I-41012 Carpi (MO) Italy</td> </tr> <tr> <td><b>TITOLO</b></td> <td colspan="3">SENSORE ZTS BIKE</td> </tr> <tr> <td><b>NOME FILE</b></td> <td colspan="3">SENSORE - V02.scm</td> </tr> <tr> <td><b>AUTORE</b></td> <td colspan="3">Romano Bernarducci</td> </tr> <tr> <td><b>VER</b></td> <td>00</td> <td><b>REV</b></td> <td>A</td> <td><b>DATA</b></td> <td>08/09/2006</td> <td><b>FOGLIO</b></td> <td>1/1</td> </tr> <tr> <td colspan="8">           PROPRIETA ESCLUSIVA DI ZADI SPA. DIVIETO DI RIPRODUZIONE            IN QUALSIASI FORMA SENZA AUTORIZZAZIONE SCRITTA.         </td> </tr> </table>	<b>ZADI spa</b> 		Via C. Marx, 138 I-41012 Carpi (MO) Italy		<b>TITOLO</b>	SENSORE ZTS BIKE			<b>NOME FILE</b>	SENSORE - V02.scm			<b>AUTORE</b>	Romano Bernarducci			<b>VER</b>	00	<b>REV</b>	A	<b>DATA</b>	08/09/2006	<b>FOGLIO</b>	1/1	PROPRIETA ESCLUSIVA DI ZADI SPA. DIVIETO DI RIPRODUZIONE IN QUALSIASI FORMA SENZA AUTORIZZAZIONE SCRITTA.							
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<b>GERBER</b>	Gerber-Central Unit  Gerber-Sensor																																
<b>PART LIST</b>	P992 – BOM Centrale  P992 – BOM Sensore																																

Prima Ricerca & Sviluppo Srl soggetta a direzione e coordinamento da parte della Giovanni Maspero & C. S.p.A. – C.I. 02634780130  
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 Sede operativa : Laboratori Via Campagna, 92 22020 Faloppio fraz. Gaggino (CO) Tel. +39 03135000.11 Fax +39 031991309

## 5.2 Technical manual

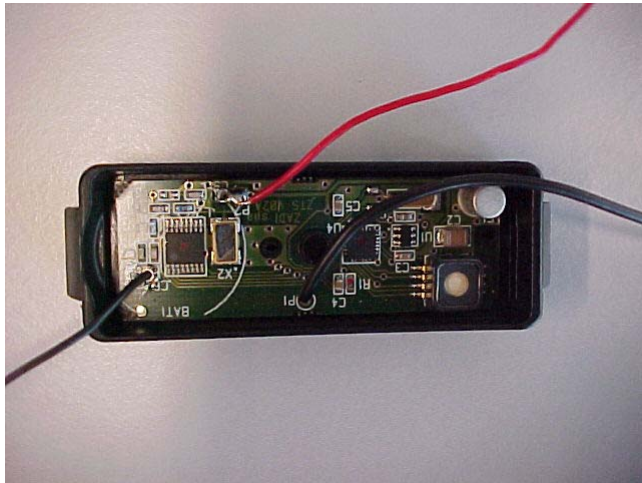
<i>Document reference (n., edition, date, ...)</i>				
		<b>SISTEMA RTS ZADI07/06/2007</b>		Rev 01
Family Products: <b>RTS Real Time Sensor</b>			Code of the involved products: Multiples	
Autor: <b>Daniele Cavazza</b>	Approved:	Data: <b>11/05/2007</b>	Rev.: <b>00</b>	
<h1>Technical Construction File (Real Time Sensor) ZADI</h1>				
<b>Data</b>	<b>Rev.</b>	<b>Descrizione modifiche</b>	<b>Punti modificati</b>	<b>Firma</b>
11/05/2007	01	First Release	-	Cavazza



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### 5.3 Photographic documentation

PHOTO N°1 – E.U.T. IDENTIFICATION





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PHOTO N°2 – SET-UP EMISSION TESTS (30-1000MHz)

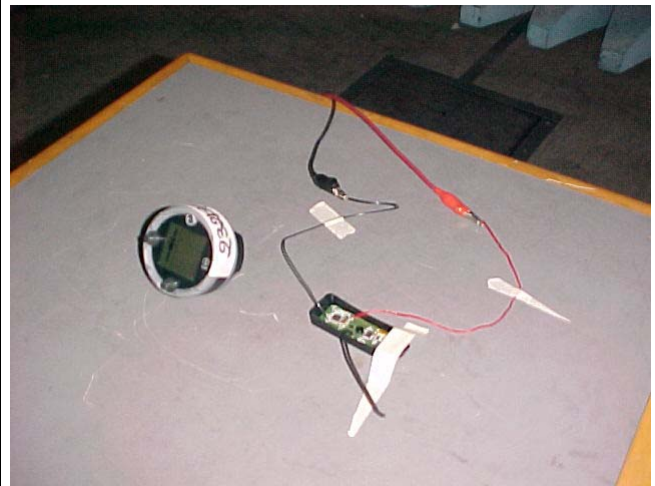
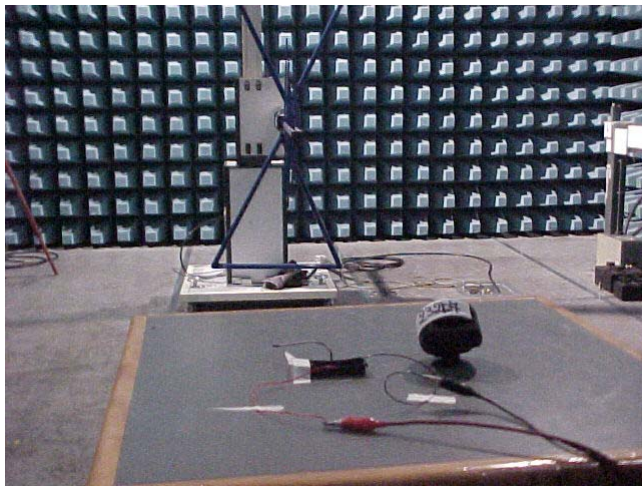


PHOTO N°3 – SET-UP EMISSION TESTS (1-9 GHz)

