



**FCC Test Setup Photographs  
for  
47CFR15, Subpart B for Unintentional Radiators, per Section 101  
Equipment authorization of unintentional radiators, *and*  
47CFR15, Subpart C for Intentional Radiators, per Section 247  
Operation within the bands 902 to 928 MHz**

on  
**TempSens**  
[FCC ID: TS4 – TWS-049]

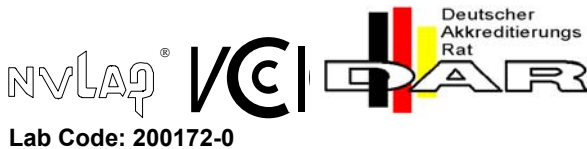
model  
**TWS-049 - Sensor**

report number  
**20051019-01-Fc15**

manufacturer  
**Tehama Wireless Design Group  
423 Tehama Street  
San Francisco, California, 94103**

judgement  
**Complies**

tests and report by  
**ITC Engineering Services, Inc. (ITC)  
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Sunol, California 94586  
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Lab Code: 200172-0

EN45001 Accredited Compliance Laboratory (RES-GmbH)  
Registration number: TTI-P-G 159/98-00 (RES-GmbH)

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## PART 1 GENERAL

### SECTION 1.1 GENERAL INFORMATION

<b>Product Type Model(s)</b>	TempSens TWS-049 - Sensor	
<b>Manufacturer's Name Manufacturer's Address</b>	Tehama Wireless Design Group. 423 Tehama Street San Francisco, California 94103 USA	
<b>Country Telephone and Fax Contact and Email</b>	Tel: +1 (415) 495-7344 Mr. Jim Orton	Fax: +1 (415) 495-7314 orton@tehamawireless.com
<b>Test Laboratory</b>	ITC Engineering Services, Inc. 9959 Calaveras Road, PO Box 543 Sunol, CA 94586-0543 Email: <a href="mailto:docs@itcemc.com">docs@itcemc.com</a> Web Site: <a href="http://www.itcemc.com">http://www.itcemc.com</a>	
<b>Test Number and Report Numbers</b>	20051019-01	20051019-01-Fc15
<b>Test Date(s) &amp; Issue Date</b>	Oct. 27 <sup>th</sup> - Nov. 2 <sup>nd</sup> of 2005	November 11 <sup>th</sup> , 2005
<b>Test Engineer(s)</b>	Femi Ojo and Lan Vu	
<b>Chief Engineer</b>	Michael Gbadebo, P.E	
<b>Documentation</b>	George W Brown II.	
<b>Test Results</b>	<input checked="" type="checkbox"/> Complies as Tested	<input type="checkbox"/> Fail

### SECTION 1.2 TESTS PERFORMED:

#### FCC Rules and Regulations per 47 CFR 15.247

##### Emissions Requirements:

- OPEN FIELD RADIATED EMISSIONS in accordance with the FCC 47CFR15.109, Class B

##### RF Requirements:

- NUMBER OF HOPPING FREQUENCIES per section 15.247(a)
- CARRIER FREQUENCY SEPARATION per section 15.247(a)
- TIME OF OCCUPANCY (Dwell Time) per section 15.247(a)
- 20dB BANDWIDTH per section 15.247(a)
- PEAK OUTPUT POWER per section 15.247(b)
- BAND-EDGE MEASUREMENT per section 15.247(c)
- SPURIOUS RF CONDUCTED EMISSIONS per section 15.247(c)
- SPURIOUS AND HARMONICS EMISSIONS IN RESTRICTED BAND per section 15.247 (c)

## PART 2 TEST SETUP PHOTOGRAPHS

### SECTION 2.1 RADIATED EMISSIONS TEST SETUP PHOTOGRAPHS



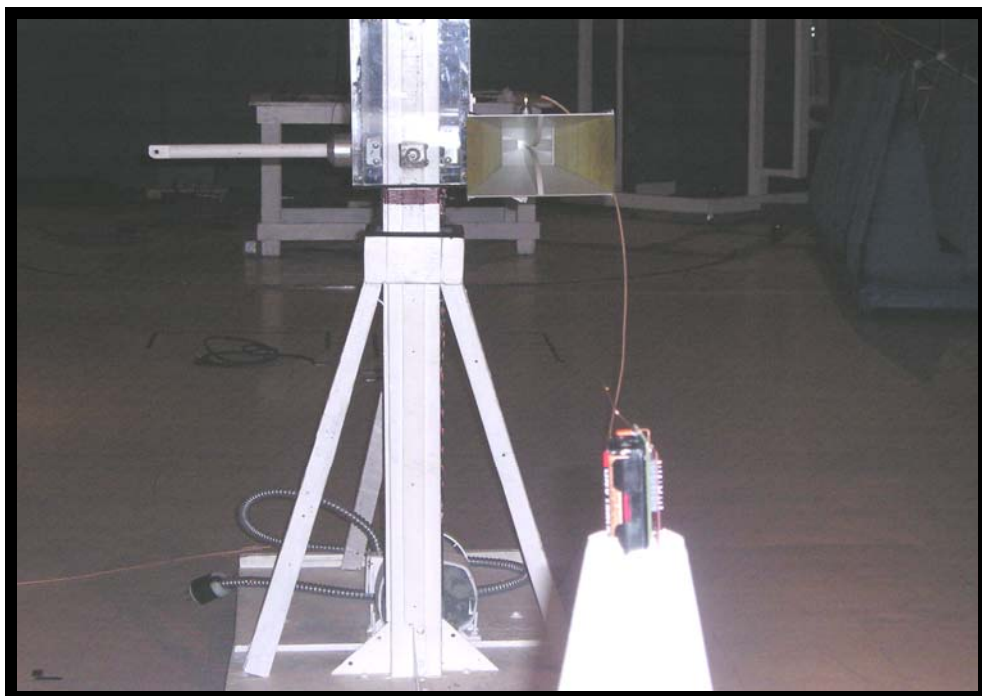
Figure 1: Radiated Emissions Test Setup (Below 1 GHz) Front View



Figure 2 Radiated Emissions Test Setup (Below 1 GHz) closed up view



**Figure 3: Radiated Emissions Test Setup (Above 1 GHz) Front View**



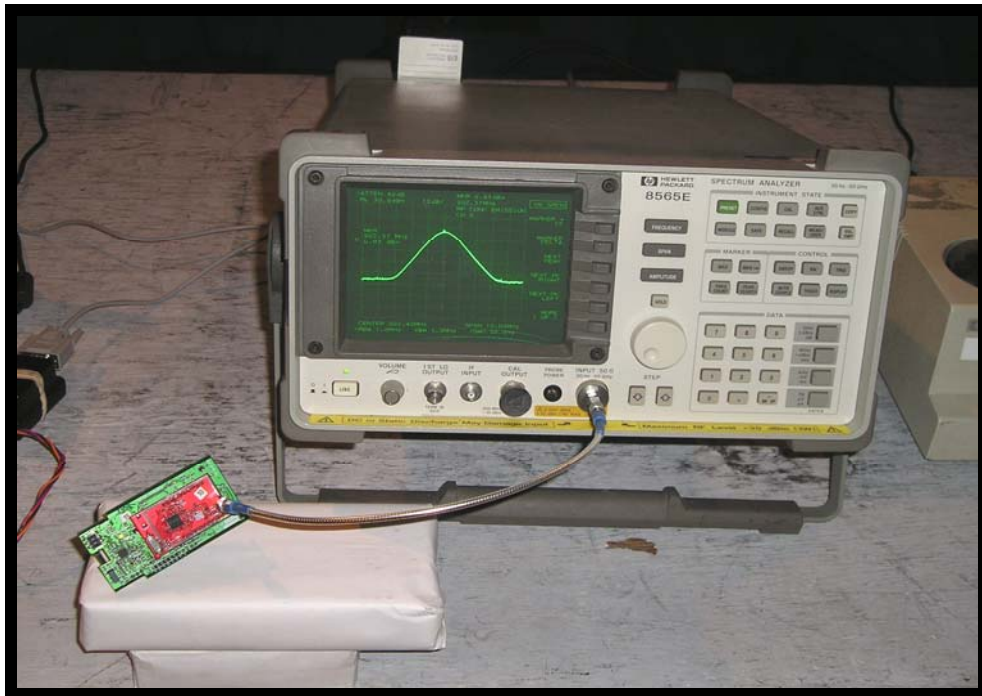
**Figure 4: Radiated Emissions Test Setup (Above 1 GHz) Rear View**



## SECTION 2.2 RF CONDUCTED EMISSIONS TEST SETUP PHOTOGRAPHS



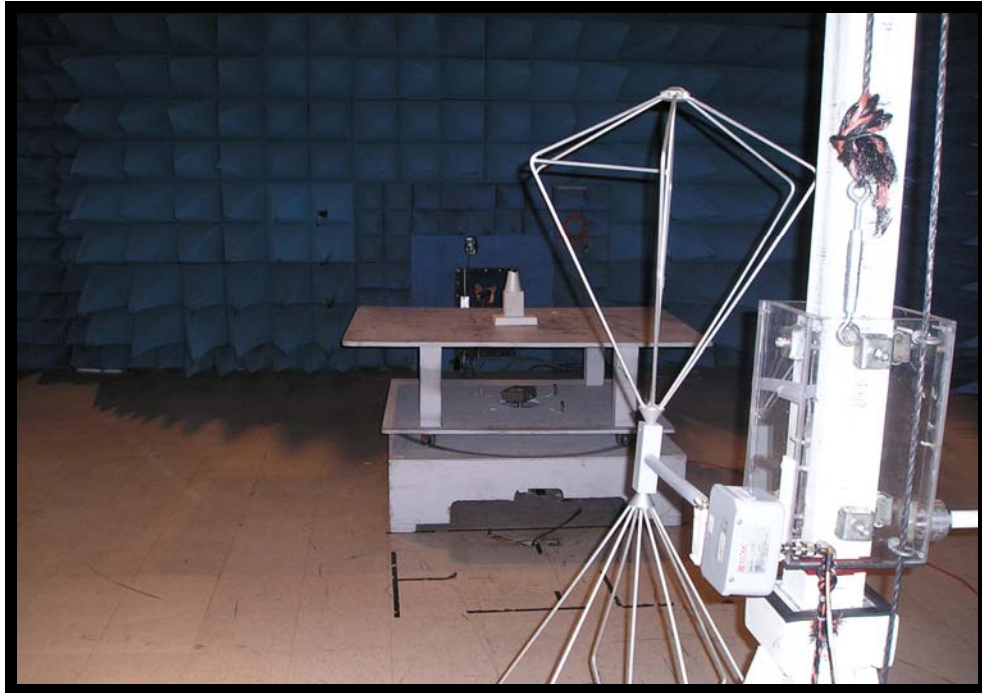
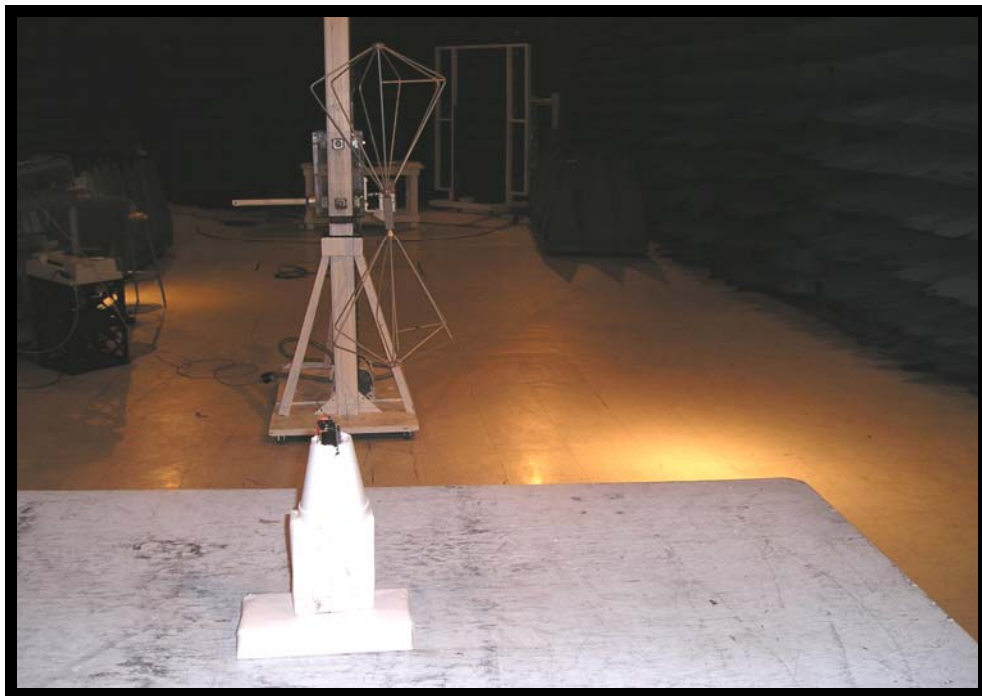
**Figure 5 Test Set Up Photo – Front View**



**Figure 6 Test Set Up Photo (Front Close up View)**



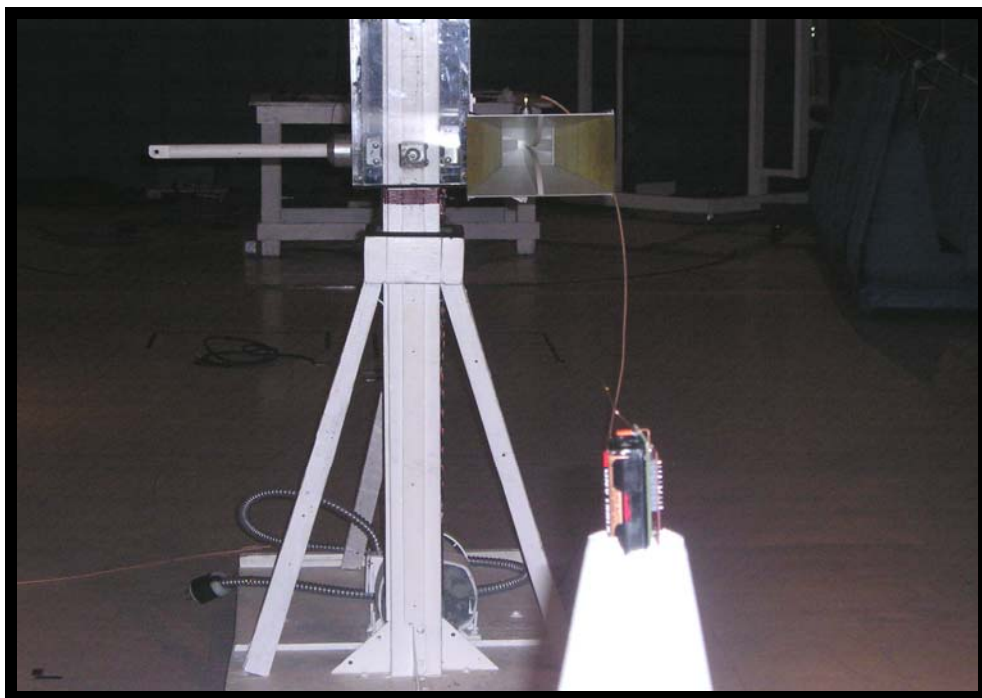
**Figure 7 Test Set Up Photo (Rear View)**

**SECTION 2.3 SPURIOUS EMISSIONS TEST SETUP PHOTOGRAPHS****Figure 8: Spurious Emissions Front View (Below 1 GHz)****Figure 9: Spurious Emissions Rear View (Below 1 GHz)**





**Figure 10: Spurious Emissions Front View (Above 1 GHz)**



**Figure 11: Spurious Emissions Rear View (Above 1 GHz)**