

# RADIO TEST REPORT

No. 0149127R2

## EQUIPMENT UNDER TEST

Equipment: Bluetooth Compact Flash Card  
Type / model: LSE039 R2  
Manufacturer: National Semiconductor Sweden AB  
Tested by request of: National Semiconductor Sweden AB

## SUMMARY

Addition to the SEMCO Test Report No. 0149127R1.

The equipment complies with the requirements of radiated and conducted emissions according to the following standard:

FCC part 15, subpart B (2001)

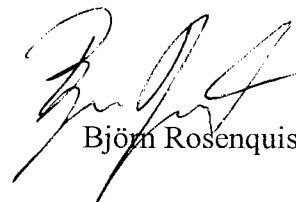
Date of issue: April 3, 2002

Tested by:



Vladimir Bazhanov

Approved by:



Björn Rosenquist

This report may not be reproduced other than in full, except with the prior written approval by SEMCO.

## CONTENTS

	Page
1. Mains terminal continuous disturbance voltage in the frequency range 0,45 MHz to 30 MHz .....	3
1.1 Operating environment .....	3
1.2 Test set-up and test procedure .....	3
1.3 Measurement uncertainty .....	3
1.4 Test equipment .....	4
1.5 Test protocol .....	4

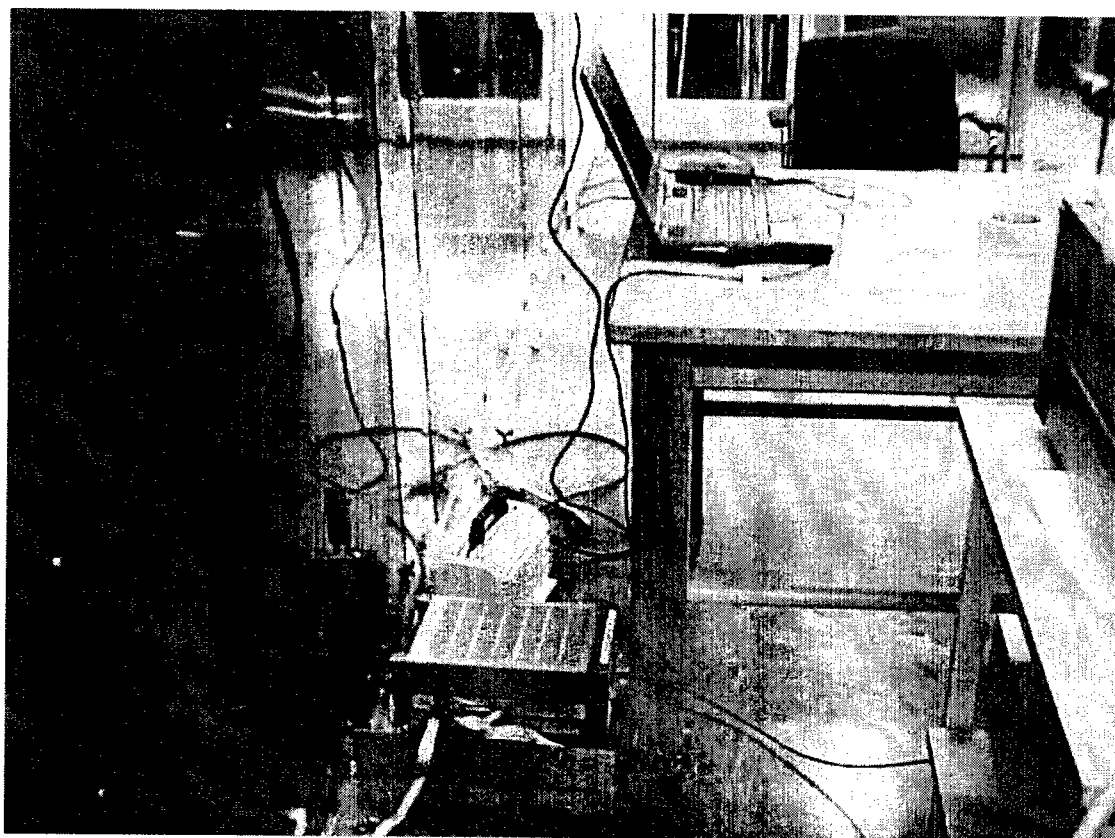
## 1. MAINS TERMINAL CONTINUOUS DISTURBANCE VOLTAGE IN THE FREQUENCY RANGE 0,45 MHz TO 30 MHz

### 1.1 Operating environment

Temperature: 22 °C  
Relative Humidity: 25 %

### 1.2 Test set-up and test procedure

The mains terminal disturbance voltage was measured with the equipment under test (EUT) 0,8 m above the ground plane and 0,4 m from the vertical ground plane. The EUT was connected to an artificial mains network (AMN). The AMN was placed on a metallic, grounded floor. Amplitude measurements were performed with a quasi-peak detector. The set-up photo is shown below.



### 1.3 Measurement uncertainty

Mains terminal disturbance voltage, quasi-peak detection:  $\pm 2,0$  dB

The measurement uncertainty describes the overall uncertainty of the given measured value during the operation of the EUT in the above-mentioned way. Measurement uncertainty is calculated in accordance with WECC 19-1990. The measurement uncertainty is given with a confidence of 95%.

#### 1.4 Test equipment and software

Equipment	Manufacturer	Type	SEMKO No.
Measurement receiver	Rohde & Schwarz	ESHS 30	4945
Artificial mains network	Rohde & Schwarz	ESH3-Z5	2727
Transformer	TUFVASSONS	AFM-1500	375

Software: ES-K1 V1.60

#### 1.5 Test protocol

Date of test: March 28, 2002

Frequency /MHz	Quasi-Peak	
	Disturbance Level /dB( $\mu$ V)	Permitted limit /dB( $\mu$ V)
9,100	21,0	48
23,115	5,8	48
25,795	17,7	48
26,800	16,2	48
26,930	11,6	48
27,050	21,0	48
27,550	22,4	48
29,550	18,8	48

An overview sweep performed with a peak detector is shown below.

