

April 25, 2001

Elite Electronic Engineering, Inc.  
1516 Centre Circle  
Downers Grove, IL 60515-1082

Attn: Mr. Richard King

Dear Sir:

Enclosed you will find an application for Certification of a 13.56MHz RF ID Transmitter, Model 135 ID Transmitter, Serial No. n/a, FCC ID: KNKTX0001. Certification is requested to the requirements of Part 15, Subpart C of the Commission's rules. This application is being filed by Retlif Testing Laboratories on behalf of Secure Care Products, Inc. The applicable Certification Filing Fee is being sent under separate cover.

I trust that you will find the enclosed application to be complete; however, should you have any questions or require any additional information, please feel free to contact us.

Very truly yours,

RETLIF TESTING LABORATORIES

Scott Wentworth  
Manager

Enc. (as stated)

APPLICANT  Secure Care Products, Inc. 39 Chenell Drive Concord, NH 03301	MANUFACTURER  SAME
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TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C, Para. 15.209

TEST PROCEDURE: ANSI C63.4:1992

#### TEST SAMPLE DESCRIPTION

BRANDNAME: Secure Care Products, Inc. MODEL: 135 ID Transmitter

TYPE: 13.56MHz RF ID Transmitter

POWER REQUIREMENTS: 3VDC Internal Battery (tested with new battery installed)

FREQUENCY OF OPERATION: 13.56MHz

FCC ID: KNKTX0001

APPLICABLE RULE SECTION: Part 15, Subpart C, Section 15.209

#### TESTS PERFORMED

Field Strength of Fundamental Emission 13.56MHz

Field Strength of Spurious Emissions 9kHz - 1GHz

#### TEST SAMPLE DESCRIPTION

The model 135 ID Transmitter is used in hospitals or managed care for patient identification and security. The transmitter is worn by a patient/ infant on the wrist or ankle and is used for door access control. If a wandering patient or baby abductor attempts to exit an area with a controlled door the 13.56MHz signal activates the associated door receiver to automatically lock the door.

## TEST SAMPLE / TEST PROGRAM

### 15.203 ANTENNA REQUIREMENT

The device uses a permanently attached internal ferrite loop antenna. The antenna is totally enclosed inside the case. No access to internal components by user.

### 15.205 RESTRICTED BANDS OF OPERATION

No emissions from the EUT were observed in any of the restricted bands.

### 15.207 CONDUCTED EMISSIONS

Not applicable (battery operated device).

### 15.209 RADIATED EMISSIONS

Fundamental Operation Band

13.553 - 13.567MHz

Out of Band, Spurious, Harmonics

9kHz - 1000MHz

No emissions were observed in excess of the limit with the EUT configured for the worst case emission levels.

## REPORT OF MEASUREMENTS

### CALCULATIONS NEEDED DURING TEST PROGRAM:

1. Extrapolation of 3 meter reading to 30 meter  
15.31 (F2) factor of 40dB/ Decade for frequencies below 30MHz
1. Conversion of dBuV/ m to uV/ m and uV/ m to dBuV/ m  
 $20 \log uV = dBuV$                        $uV = dBuV / 20 \times 1/\log$
1. Combining Readings and Factors

### STATEMENT OF COMPLIANCE

The 13.56MHz Transmitter was tested at Retlif Testing Laboratories, NH. The test results shown on the enclosed data, and the body of information in this application indicate the full compliance of the EUT to the specified requirements.

# RETLIF TESTING LABORATORIES

## TABULAR DATA SHEET

<b>Test Method:</b>	Out of Band Emissions 9kHz to 1 GHz		
<b>Customer:</b>	Secure Care Products, Inc.	<b>Job No:</b>	R-3671N9
<b>Test Sample:</b>	13.56 MHz RF ID Transmitter		
<b>Model No:</b>	135 ID Transmitter	<b>Serial No:</b>	n/a
<b>Test Specification:</b>	FCC Part 15, Subpart C Paragraph: 15.209 & 15.31		
<b>Operating Mode:</b>	Continuously Transmitting		
<b>Technician:</b>	T. Firkowski	<b>Date:</b>	8/30/00
<b>Notes:</b>	Detector Function: Quasi-Peak @ 3m		

Transmit Frequency	Test Frequency	Antenna/EUT Position	Meter Reading	Correction Factor	Corrected Reading	Converted to 300m			Converted Reading	Limit at 300 Meters
MHz	MHz	Polarization/Axis	dBuV	dB	dBuV/m	dBuV/m			uV/m	uV/m
13.56	0.009	-	-	-	-	-			-	2400/F(kHz)
		-	-	-	-	-			-	
13.56	0.490	-	-	-	-	-			-	2400/F(kHz)
Transmit Frequency	Test Frequency	Antenna/EUT Position	Meter Reading	Correction Factor	Corrected Reading	Converted to 30m			Converted Reading	Limit at 30 Meters
MHz	MHz	Polarization/Axis	dBuV	dB	dBuV/m	dBuV/m			uV/m	uV/m
13.56	0.490	-	-	-	-	-			-	24000/F(kHz)
		-	-	-	-	-			-	
	1.705	-	-	-	-	-			-	24000/F(kHz)
	1.705	-	-	-	-	-			-	30.00
		-	-	-	-	-			-	
	27.120	-	-	-	-	-			-	
		-	-	-	-	-			-	
13.56	30.000	-	-	-	-	-			-	30.00
Transmit Frequency	Test Frequency	Antenna/EUT Position	Meter Reading	Correction Factor	Corrected Reading				Converted Reading	Limit at 3 Meters
MHz	MHz	Polarization/Axis	dBuV	dB	dBuV/m				uV/m	uV/m
13.56	30.0	-	-	-	-				-	100.00
		-	-	-	-				-	
	40.7	V/X	36.0	-3.0	33.0				44.7	
		-	-	-	-				-	
	88.0	-	-	-	-				-	100.00
	88.0	-	-	-	-				-	150.00
		-	-	-	-				-	
	216.0	-	-	-	-				-	150.00
	216.0	-	-	-	-				-	200.00
		-	-	-	-				-	
	960.0	-	-	-	-				-	200.00
	960.0	-	-	-	-				-	500.00
		-	-	-	-				-	
13.56	1000.0	-	-	-	-				-	500.00

EUT emissions observed throughout the given frequency spectrum were recorded and evaluated. Emissions closest to the limit are listed on this data sheet



## EQUIPMENT LIST

### Field Strength of Fundamental

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due Date
3118	Broadband Pre-Amplifier	Electro-Metrics	10 KHz - 1 GHz	BPA-1000	7/11/00	7/11/01
3207	Loop Antenna, Active	EMCO	10 KHz - 30 MHz	6502	3/21/00	3/21/01
4895	Spectrum Analyzer	Hewlett Packard	9kHz - 22GHz	8593EM	2/17/00	2/17/01
4986	EMC Analyzer	Electro-Metrics	9 kHz - 1 GHz	EMC-30C	2/14/00	2/14/01

## EQUIPMENT LIST

### Out of Band Emissions

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3118	Broadband Pre-Amplifier	Electro-Metrics	10 KHz - 1 GHz	BPA-1000	7/11/00	7/11/01
3207	Loop Antenna, Active	EMCO	10 KHz - 30 MHz	6502	3/21/00	3/21/01
4202	Biconilog	EMCO	26 MHz - 2 GHz	3142	7/10/00	7/10/01
4895	Spectrum Analyzer	Hewlett Packard	9kHz - 22GHz	8593EM	2/17/00	2/17/01
4986	EMC Analyzer	Electro-Metrics	9 kHz - 1 GHz	EMC-30C	2/14/00	2/14/01