### RETLIF TESTING LABORATORIES TEST REPORT R-4381N January 21, 2005

# FCC COMPLIANCE TEST REPORT ON

Secure Care Products, Inc.
13.56MHz Escort Pendant Transmitter
Part #: A27010900
FCC ID: KNKEP0001

Customer Name: Secure Care Products, Inc.

Customer P.O.: 714541

Test Report Number: R-4381N

Test Report Date: January 21, 2005

Test Technician: Tim Firkowski

Supervisor: Scott Wentworth

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APPLICANT MANUFACTURER

Secure Care Products, Inc.
39 Chenell Drive

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TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C, Para. 15.209

TEST PROCEDURE: ANSI C63.4:2003

#### TEST SAMPLE DESCRIPTION

BRANDNAME: Escort Part #: A27010900

TYPE: 13.56MHz Transmitter POWER REQUIREMENTS: 3VDC

FREQUENCY OF OPERATION: 13.56MHz

FCC ID: KNKEP0001

Concord, NH 03301

The EUT is a 13.56MHz battery powered transmitter used with Secure Care Systems to allow nurses to escort a resident through a protected door without having to enter a code into the exit panel.

#### **TESTS PERFORMED**

15.209/15.205 Fundamental & Spurious Emissions

#### ANTENNA DESCRIPTION

The EUT has an integral antenna with no external antenna/antenna ports.

#### TEST SAMPLE / TEST RESULTS SUMMARY

#### 15.205 RESTRICTED BANDS OF OPERATION

The fundamental emission from the EUT does not fall into a restricted band.

#### 15.209 RADIATED EMISSIONS

Fundamental Frequency 13.56MHz Unwanted Spurious/Harmonics 9kHz - 1000MHz Field Strength Limits:

**Fundamental Frequency: 13.56MHz** 

The maximum permitted fundamental field strength at 30 meters is 30uV/M = 29.5dBuV:

Unwanted emissions must not exceed the limits specified in 15.209 and cannot exceed the level of the fundamental emission.

#### RADIATED EMISSIONS TEST RESULTS

The maximized peak field strength at 13.56MHz was below the limit specified in 15.209. The test sample was tested in 3 orientations (X, Y & Z). The worst case fundamental emission at 13.56MHz was found to occur in the X axis. Test data is included for this worst case operating condition. All unwanted emissions were below the specified limits and in no case exceeded the level of the fundamental.

#### MEASUREMENT PROCEDURES

15.209 Field Strength of Fundamental, Harmonic/Spurious Emissions

The field strength of the fundamental & harmonic/spurious emissions were measured. The EUT and support equipment were placed on a 80cm high wooden test stand which was located 3 meters from the test antenna on an FCC listed open area test site. Emissions from the EUT were maximized by rotating the test sample and adjusting the test sample orientation and antenna polarization. The maximized field strength of each observed emission was measured, recorded and compared to the specified limits of 15.209.

RETLIF TESTING LABORATORIES												
Test Method		TABULAR DATA SHEET Field Strength of Fundamental										
Test Metriod: Customer: Test Sample:		Secure Care I	oko esta karata da termana la manjaran per	tai	oning balance state state (New Section Constitution	Job No: R-4381N						
		13.56 MHz Escort Pendant Transmitter										
Part No:		A27010900	A27010900 Serial No: n/a									
Test Specification: Operating Mode: Technician: Notes:		FCC Part 15, Subpart C										
		Paragraph: 15.209										
		Continuously Transmitting										
		T. Firkowski			nei communicativa del malanca de capacita	Date: 1/5/2005						
		Detector Function: Peak @ 3m										
Transmit	Test	Antenna/EUT	Uncorrected	Correction	Corrected	Converted	on tradition (in the second place reco	salanina na seo sa sa sina a pada pada pada pada pada pada pada	Converted	Limit		
Frequency	Frequency	Position	Reading	Factor	Reading	to 30m			Reading	at 30 Meters		
MHz	MHz	Polarization/ Axis	dBuV	dB	dBuV/m	dBuV/m			uV/m	uV/m		
13.56	13.560	V/X	43.48	9.00	52.48	12.48			4.21	30.00		
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Test Method: Customer: Test Sample:		Spurious & Ha		TABUL	AR DATA	SHEET		(\$) \$\land \text{1.5} \text{1.5}		This entry is		
Customer:		Spurious & Ha	!		A STATE OF THE PARTY OF THE PAR	Access for a wind \$5 m						
			rmonic Emiss	ions 9kHz to 3	0MHz		BI (CLIBY) VILLEY CON LIVER OF LAND	antina and a constant and a dis-		Marchanes March March		
Test Sample:		Secure Care Products, Inc. Job No: R-4381N										
		13.56 MHz Escort Pendant Transmitter										
Part No: Test Specification: Operating Mode: Technician; Notes:		A27010900 Serial No: n/a  FCC Part 15, Subpart C  Paragraph: 15.209										
												Continuously Transmitting
		T. Firkowski	nty entreponación con vector.			Date:						
		T. Firkowski  Date: 1/5/2005  Detector Function: Peak @ 3m										
		l l	Frequency	Antenna/EUT	Meter	Correction	Corrected	Converted	umay unto rijoto ya ji kasay sasasa da ji sasa is	arti orii (ila irai destarada orio da de	Converted	Limit
Frequency	Range	Position Polarization/	Reading	Factor	Reading	to 300m			Reading	at 300 Meters		
MHz	MHz	Axis	dBuV	dB	dBuV/m	dBuV/m			uV/m	uV/m		
13.56	0.009	-	-	-		-			-	2400/F(kHz)		
	0.400	-	-	-	-	-			-	0.400/[[/].].		
13.56	0.490	Antonoo/EUT	- M-4		0					2400/F(kHz) Limit		
Transmit Frequency	Test Frequency	Antenna/EUT Position	Meter Reading	Correction Factor	Corrected Reading	Converted to 30m			Converted Reading	at 30 Meters		
		Polarization/				<u> </u>						
MHz	MHz	Axis	dBuV	dB	dBuV/m	dBuV/m			uV/m	uV/m		
13.56	0.490	-			*				-	24000/F(kHz)		
	1.705	-	-	-	-				-	24000/F(kHz)		
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NIA	o FUT Spuri	ous Emissions	were observe	d in the 9kHz t	o 30MHz frequ	lency range						
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Data Sheet 1	of 1									l R-4381N		
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#### **RETLIF TESTING LABORATORIES** TABULAR DATA SHEET Spurious & Harmonic Emissions 30MHz to 1 GHz Test Method: R-4381N Customer: Secure Care Products, Inc. Job No: Test Sample: 13.56 MHz Escort Pendant Transmitter A27010900 Part No: Serial No: n/a FCC Part 15, Subpart C Test Specification: Paragraph: 15.209 Operating Mode: Continuously Transmitting Technician: Date: 1/5/2005 T. Firkowski Notes: Detector Function: Peak @ 3m Transmit Test Antenna/EUT Meter Correction Converted Limit Corrected at 3 Meters Frequency Frequency Position Reading Factor Reading Reading Polarization/ dBuV uV/m MHz MHz dΒ dBuV/m uV/m Axis 13.56 30.0 100.00 54.24 V/X 22.67 -8.11 14.56 5.35 67.80 V/X -7.14 12.69 4.31 19.83 V/X 4.68 81.36 21.36 -7.95 13.41 \_ \_ 100.00 0.88 \_ \_ 88.0 150.00 V/Z -8.96 19.94 9.93 108.48 28.90 122.04 V/Z -8.06 21.24 11.53 29.30 150.00 216.0 200.00 216.0 --200.00 960.0 500.00 960.0 .. \_ --13.56 1000.0 500.00 EUT Emissions observed throughout the given frequency spectrum were recorded & evaluated. R-4381N Data Sheet 1 of 1

### TEST EQUIPMENT LIST

### FUNDAMENTAL & SPURIOUS EMISSIONS

EN	Type	Manufacturer	Description	Model No.	Cal Date	Due
3207	Loop Antenna, Active	EMCO	10 KHz - 30 MHz	6502	6/1/2004	6/1/2005
4029B	Test Site Attenuation	Retlif	3 / 10 Meters	RNH	12/3/2004	12/3/2005
4202	Biconilog	EMCO	26 MHz - 2 GHz	3142	12/13/2004	12/13/2005
4895	Spectrum Analyzer	Hewlett Packard	9kHz - 22GHz	8593EM	4/22/2004	4/22/2005

# RADIATED EMISSIONS TEST SETUP PHOTOGRAPH $9\mathrm{kHz}$ to $30\mathrm{MHz}$



## RADIATED EMISSIONS TEST SETUP PHOTOGRAPH $30 \mathrm{MHz}$ to $1 \mathrm{GHz}$

