



Test Report: 3W06828.2

Applicant: Swissphone Telecom AG
Roosstrasse 53
CH-8832 Wollerau
Switzerland

Equipment Under Test: RE429 NT+ VHF 4M
(EUT) RE429 NT+ VHF 2M
Paging Receivers

FCC ID: L3M871VHF

In Accordance With: **FCC Part 15, Subpart B, 15.109**

Tested By: Nemko Canada Inc.
303 River Road, R.R. 5
Ottawa, Ontario K1V 1H2

Authorized By: Glen Westwell, Wireless Technologist

Date: August 20, 2003

Total Number of Pages: 9

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Section 1. Summary of Test Results**General****All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 15, Subpart B. Measurement procedure ANSI C63.4-1992 was used for all tests. Radiated Emissions were measured on an open area test site. A description of the test facility is on file with the FCC.

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See "Summary of Test Data".



TESTED BY: _____
Jason Nixon, Telecom Specialist

DATE: August 20, 2003

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This report applies only to the items tested.

Summary Of Test Data

Name Of Test	Para. No.	Results
Antenna Conducted Emissions	15.111	N/A (1)
Radiated Emissions	15.109	Pass
Powerline Conducted Emissions	15.107	N/A (2)

(1) Internal Antenna

(2) Internal Batteries

Test Conditions:

Outdoor	Temperature: 25°C
	Humidity: 57%

Section 2. General Equipment Specification

Manufacturer:	Sprintel Communications AG (belongs to SWISSPHONE) Betriebsstätte Samstagern Fälmmisstrasse 21 CH-8833 Samstagern
Model No.:	RE429 NT+ VHF 2M RE429 NT+ VHF 4M
Serial No.:	C200320.00249(RE429 NT+ VHF 2M) C200320.00578(RE429 NT+ VHF 2M) C200320.00582(RE429 NT+ VHF 2M)
	C200320.00273(RE429 NT+ VHF 4M) C200320.00261(RE429 NT+ VHF 4M) C200320.00246(RE429 NT+ VHF 4M)
Date Received In Laboratory:	July 9, 2003
Nemko Identification No.:	40 (Rx Frequency 147.325MHz) 59 (Rx Frequency 160.7MHz) 7 (Rx Frequency 173.5125MHz)
	55 (Rx Frequency 71.2MHz) 45 (Rx Frequency 77.15MHz) 39 (Rx Frequency 87.235MHz)
Frequency Range:	146 – 174MHz 12.5 or 25kHz channel spacing
	68-88MHz 12.5 or 25kHz channel spacing
Type of Equipment:	Dual Conversion Superhetrodyne Paging Receiver

Section 3. Radiated Emissions**Para. No.: 15.109(a)**

Test Performed By: Jason Nixon	Date of Test: July 17, 2003
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Minimum Standard:

Frequency(MHz)	Field Strength (dB μ V/m @ 3m)
30 - 88	40.0
88 - 216	43.5
216 - 960	46.0
Above 960	54.0

Test Results: Complies**Measurement Data:** See attached table.

*EQUIPMENT: RE429 NT+ VHF 2M and RE429 NT+ VHF 4M***RE429 NT+ VHF 2M Test Results**

Project Name: 3w06828

Testers Name: Jason Nixon

Standard: FCC Part 15 B

Time & Date: 4:29:21 PM 7/20/2003

Distance: 3m C tower Receiver: ESVS 30 Detector: (1) 120 kHz Q-Peak

Freq. (MHz)	Pol.	Ant. (V/H)	Ant. HGT (m)	Table (deg)	RCVD signal	Ant. Factor	Amp. Gain	Distanc e Corr.	Limit Field Str. (dBuV/m)	Margin (dB)
Low Frequency										
168.725 BL	V	N/A	N/A		11.5	13.3			24.8	43.5
168.725 BL	H	N/A	N/A		8.8	13.3			22.1	43.5
Mid Frequency										
182.1 BL	V	N/A	N/A		9	11.9			20.9	43.5
182.1 BL	H	N/A	N/A		8.8	11.9			20.7	43.5
High Frequency										
152.112 BL	V	N/A	N/A		11.8	12.9			24.7	43.5
152.112 BL	H	N/A	N/A		11.3	12.9			24.2	43.5
										18.8
										19.3

RE429 NT+ VHF 4M Test Results

Project Name: 3w06828

Testers Name: Jason Nixon

Standard: FCC Part 15 B

Time & Date: 4:29:21 PM 7/20/2003

Distance: 3m C tower Receiver: ESVS 30 Detector: (1) 120 kHz Q-Peak

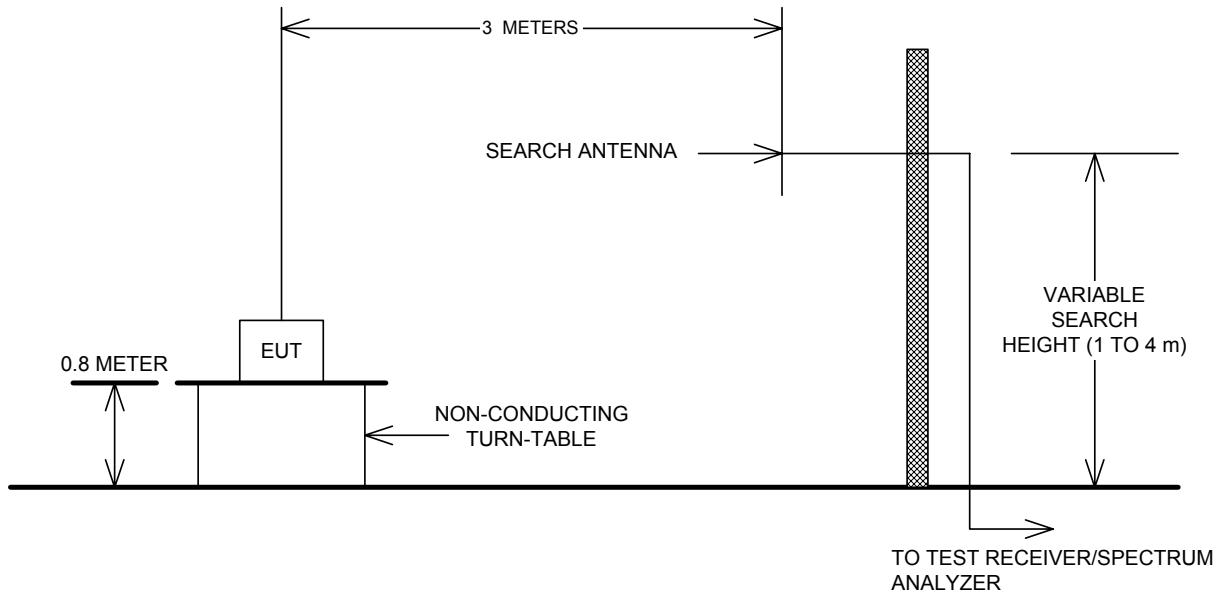
Freq. (MHz)	Pol.	Ant. (V/H)	Ant. HGT (m)	Table (deg)	RCVD signal	Ant. Factor	Amp. Gain	Distanc e Corr.	Limit Field Str. (dBuV/m)	Margin (dB)
Low Frequency										
92.6 BL	V	N/A	N/A		10	11.1			21.1	43.5
92.6 BL	H	N/A	N/A		8.6	11.1			19.7	43.5
Mid Frequency										
98.55 BL	V	N/A	N/A		7.8	12.1			19.9	43.5
98.55 BL	H	N/A	N/A		8.8	12.1			20.9	43.5
High Frequency										
108.635 BL	V	N/A	N/A		8	13.5			21.5	43.5
108.635 BL	H	N/A	N/A		9	13.5			22.5	43.5
										22
										21

Notes: The spectrum was searched up to 2GHz and all emissions within 20dB of the specification limits were measured and reported.

The equipment under test was configured on 3 orthogonal axis, with fresh batteries in order to determine worst case orientation.

Section 4.

Block Diagrams

Outdoor Test Site For Radiated Emissions

Section 5. Test Equipment List

Equipment List - Radiated Emissions

CAL Cycle	Equipment	Manufacturer	Model No.	Asset/Serial No.	Cal Due Date
1 Year	EMI test receiver	R & S	ESVS 30	FA001437	June 2004
1 Year	Spectrum Analyzer	HP	8566B	FA001432	April 2004
1 Year	Pre-amplifier	HP	8449B	FA001761	April 2004
1 Year	Biconilog Antenna	Schaffner	CBL611ZB	FA001503	July 2004