TEST REPORT
FROM
RFI GLOBAL SERVICES LTD

Test of: WorldScout Corporation
LT100

To: FCC Part 22: 2007 (Subpart H) and
FCC Part 24: 2007 (Subpart E)

Test Report Serial No:
RFI/RPTE1/RP72772JD05A

This Test Report Is Issued Under The Authority Of Brian Watson, Operations Director: 	
Checked By: Steven Wong 	**Report Copy No: PDF01**
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RFI Global Services Ltd
Pavilion A, Ashwood Park, Ashwood Way, Basingstoke, Hampshire RG23 8BG
Telephone: +44 (0)1256 312000 Facsimile: +44 (0)1256 312001
Email: info@rfi-global.com Website: www.rfi-global.com

Registered in England and Wales. Company number:2117901

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Test of: **WorldScout Corporation**
LT100
To: **FCC Part 22: 2007 (Subpart H) and FCC Part 24: 2007 (Subpart E)**

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Test of: **WorldScout Corporation**
LT100
To: **FCC Part 22: 2007 (Subpart H) and FCC Part 24: 2007 (Subpart E)**

1. Client Information

Company Name:	WorldScout Corporation
Address:	100 Leek Crescent Unit 10 Richmond Hill ONTARIO L4B 3E6 Canada
Contact Name:	Mr. N Lazovic

2. Equipment Under Test (EUT)

The following information (with the exception of the Date of Receipt) has been supplied by the client:

2.1.Description of EUT

The equipment under test is a quad band GSM/GPRS GPS LT100 receiver supporting 3 downlink and 1 uplink.

2.2.Identification of Equipment Under Test (EUT)

Description:	GSM/GPRS GPS Mobile Station
Brand Name:	Worldscout
Model Name or Number:	LT100
Serial Number:	7-0000627
IMEI Number:	35 268002691166
Hardware Version Number:	None Stated
Software Version Number:	None Stated
FCC ID Number:	VRNLT100
Country of Manufacture:	Canada
Date of Receipt:	29 October 2007

2.3. Modifications Incorporated in the EUT

During the course of testing the EUT was not modified.

2.4.Accessories

The following accessories were supplied with the EUT during testing:

Description:	Battery
Brand Name:	Worldscout
Model Name or Number:	LT100
Serial Number:	5-1-0001T01-01
Cable Length and Type:	Not Applicable
Connected to Port	Manufacturer Unique Contacts

Description:	Battery
Brand Name:	Worldscout
Model Name or Number:	LT100
Serial Number:	5-1-0001T01-01
Country of Manufacture:	Canada
Connected to Port	Manufacturer Unique Contacts

2.5.Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	Communication Test Set
Brand Name:	Anritsu
Model Name or Number:	MT8820A
Serial Number:	6K00000647
Cable Length and Type:	1m Rosenberger Cable
Connected to Port:	RF Input & Output Port

2.6.Additional Information Related to Testing

Equipment Category	GSM/GPRS/GPS Quad Band
Type of Unit	Portable Receiver
Intended Operating Environment:	With in GSM/GPRS/GPS coverage
Power Supply Requirement:	4.2v DC / 950mAh

FCC Part 22

Transmit Frequency Range:	824 MHz to 849 MHz		
Transmit Channels Tested:	**Channel ID**	**Channel Number**	**Channel Frequency (MHz)**
	Bottom	128	824.2
	Middle	189	836.4
	Top	251	848.8
Maximum Power Output (ERP):	33 dBm		

FCC Part 24

Transmit Frequency Range:	1850 MHz to 1900 MHz		
Transmit Channels Tested:	**Channel ID**	**Channel Number**	**Channel Frequency (MHz)**
	Bottom	512	1850.2
	Middle	660	1879.8
	Top	810	1909.8
Maximum Power Output (EIRP):	30 dBm		

3. Test Specification, Methods and Procedures

Reference:	FCC Part 22: 2007 Subpart H (Cellular Radiotelephone Service)
Title:	Code of Federal Regulations, Part 22 (47CFR22) Personal Communication Services.

Reference:	FCC Part 24: 2007 Subpart E (Broadband PCS)
Title:	Code of Federal Regulations, Part 24 (47CFR24) Personal Communication Services.

3.1. Methods and Procedures

The methods and procedures used were as detailed in:

ANSI/TIA-603-B-2003
Land Mobile Communications Equipment, Measurements and performance Standards

ANSI C63.2 (1987)
Title: American National Standard for Instrumentation - Electromagnetic noise and field strength.

ANSI C63.4 (2003)
Title: American National Standard Methods of Measurement of Electromagnetic Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

ANSI C63.5 (1988)
Title: American National Standard for the Calibration of antennas used for Radiated Emission measurements in Electromagnetic Interference (EMI) control.

ANSI C63.7 (1988)
Title: American National Standard Guide for Construction of Open Area Test Sites for performing Radiated Emission Measurements.

CISPR 16-1: (1999)
Title: Specification For Radio Disturbance and Immunity Measuring Apparatus and Methods. Part 1: Radio Disturbance and Immunity Measuring Apparatus.

3.2. Definition of Measurement Equipment

The measurement equipment used complied with the requirements of the standards referenced in the methods & procedures Section above. Appendix 1 contains a list of the test equipment used.

4. Deviations from the Test Specification

There were no deviations from the test specification.

5. Operation of the EUT during Testing

5.1. Operating Modes

The EUT was tested in the following operating modes, unless otherwise stated.

GSM850 Call Allocated Mode

PCS1900 Call Allocated Mode

5.2. Configuration and Peripherals

The EUT was tested in the following configuration unless otherwise stated:

Standalone.

6. Summary of Test Results

FCC Part 22

Range of Measurements	Specification Reference	Port Type	Compliancy Status
Transmitter Equivalent Radiated Power (ERP)	Section 22.913(a)	Antenna	Complied

FCC Part 24

Range of Measurements	Specification Reference	Port Type	Compliancy Status
Transmitter Equivalent Isotropic Radiated Power (EIRP)	Section 24.232	Antenna	Complied

6.1. Location of Tests

All the measurements described in this report were performed at the premises of
RFI Global Services Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ

7. Measurements, Examinations and Derived Results

7.1. General Comments

This Section contains test results only.

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to Section 8 for details of measurement uncertainties.

7.2. Test Results – FCC Part 22 (Subpart H)

7.2.1. Transmitter Equivalent Radiated Power (ERP)

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 and FCC CFR Part 2.

Results:

Channel	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Note(s)
Bottom	824.2	21.3	38.4	17.1	-
Middle	836.4	23.4	38.4	15.0	-
Top	848.8	24.8	38.4	13.6	-

7.3. Test Results – FCC Part 24 (Subpart E)

7.3.1. Transmitter Equivalent Isotropic Radiated Power (EIRP)

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 and FCC CFR Part 2.

Results:

Channel	Measured Frequency (MHz)	Maximum Transmitter EIRP (dBm)	Limit EIRP (dBm)	Margin (dB)	Note(s)
Bottom	1850.2	26.5	33.0	6.5	-
Middle	1879.8	26.9	33.0	6.1	-
Top	1909.8	24.2	33.0	8.8	-

8. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently, the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor, such that a confidence level of approximately 95% is maintained. For the purposes of this document “approximately” is interpreted as meaning “effectively” or “for most practical purposes”.

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
Equivalent Radiated Power (ERP)	Not applicable	95%	±1.78 dB
Equivalent Isotropic Radiated Power (EIRP)	Not applicable	95%	±2.54 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty, the published guidance of the appropriate accreditation body is followed.

Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Last Calibrated	Cal. Interval (Months)
A028	Horn Antenna	Eaton	91888-2	304	08 Jun 2006	36
A059	Log Periodic Antenna	EMCO	3146	8902-2378	17 Nov 2006	12
C1065	Cable	Rosenberger	UFA210-1-7872	0985	Calibrate before use	-
M1242	Spectrum Analyser	Rohde & Schwarz	FSEM30	845986_022	08 Sep 2006	15
S202	3m OATS	RFI	2	S202-15011990	17 Nov 2006	12

NB In accordance with UKAS requirements, all the measurement equipment is on a calibration schedule.