Standards Council of Canada
Accredited Laboratory
Scope of Accreditation 75

Conseil canadien des normes
Laboratoire accrédité
Portée d'accréditation 75

TM

Test Report: 6T65008

Applicant:
D.R.S. Electronics Ltd.
11/F, CAC Tower,
165 Hioi Bun Road
Kwun Tong, Kowloon
Hong Kong

Apparatus: CT7141H-US

In Accordance With: CS-03 Issue 9

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

Authorized By:

Paul Van Hoof, Senior Telecom Specialist

Date: June 15, 2006

Total Number of Pages: 19

Report Summary

This report provides results of tests performed in accordance with Canadian Telecommunications Specifications on a representative sample of the CT7141H-US and was found to be fully compliant.

TABLE OF CONTENTS

Section 1: Introduction

1.1 General

This report contains an assessment of apparatus against Canadian Telecommunication Specifications based upon tests carried out on samples submitted at Nemko Canada Inc.

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

Nemko Canada Inc., a testing laboratory, is accredited by the Standards Council of Canada. The tests included in this report are within the scope of this accreditation.

TESTED BY: Jason Nixon, Telecom Specialist

1.2 Apparatus Assessed

The following apparatus was assessed:

CT7141H-US VoIP telephone handset

Software Version: V116

The following samples of the apparatus have been submitted for type assessment:

Sample No.	Description	Serial No.
1	RTX3081 VoIP Gateway	05510000000844
2	CT7141H-US	008FD0001E
3	Charger with attached SALOM AC power supply	
4	RTX AC Adapter M/N: A3123G	

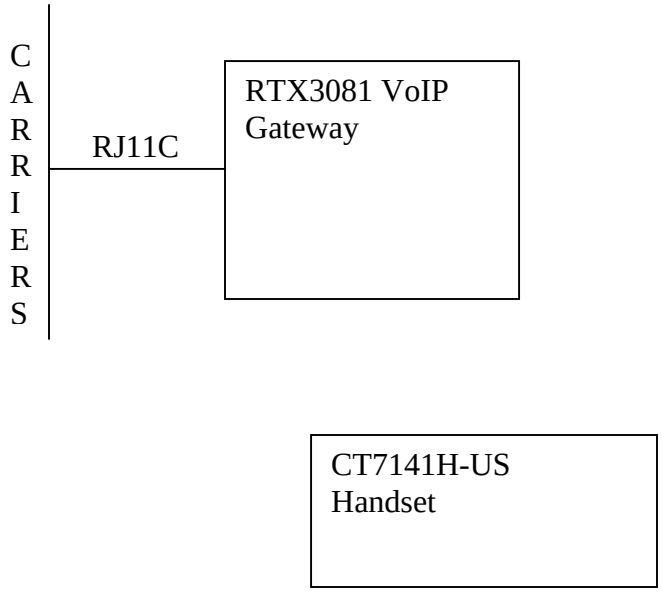
The first samples were received on: May 9, 2006

1.3 Product Description

The EUT is a VoIP telephone handset. It can generate calls to the PSTN via VoIP Gateways.

1.4 Block Diagram of System Configuration

This setup diagram depicts the system configuration during this assessment.



Section 2 : Test Schedule

2.1 Scope Of Assessment

Tests have been performed in accordance with the Industry Canada Technical Criteria For Terminal Equipment.

2.2 Specifications

The apparatus was assessed against the following specifications:

CS-03 Issue 9 Amendment 2, April 1, 2006

2.3 Deviations From Laboratory Test Procedures

No deviations were made from laboratory test procedures.

Section 3 : Test Conditions

3.1 Test Environment

All tests were performed under the following environmental conditions:

Temperature range	:	17 - 25 ^{o}C
Humidity range	:	5 - 75 %
Pressure range	:	86 - 106 kPa
Power supply range	:	+/- 5% of rated voltages

Section 4 : Compliance

The apparatus complied in full with the requirements list in section 2.2.

Section 5 : Observations

5.1 Modifications Performed During Assessment

No modifications were performed during assessment.

5.2 Record Of Technical Judgements

The following technical judgement was made during this assessment:

5.2.1 Technical Judgement 1

The EUT is a VoIP Handset. The customer supplied a RTX3081 VoIP Gateway, which had a Loopstart interface. It was judged that the only requirement would be HAC and Volume control.

5.3 Record Of EUT Behaviour

No unusual EUT behaviour was observed.

5.4 EUT Parameters Affecting Compliance

The user of the apparatus could not alter parameters that would affect compliance.

5.5 Additional Observations

No additional observations were made during this assessment.

Section 6 : Results Summary

This section contains the following:

6.1 CS-03 Issue 9 Part V : Results Summary

The column headed 'Required' indicates whether the associated clauses, as specified in section 2.2, were invoked for the apparatus under test. If the column is left blank, then the requirement was not applicable or not relevant to the apparatus under test.

The results contained in this section are representative of the operation of the apparatus as originally submitted.

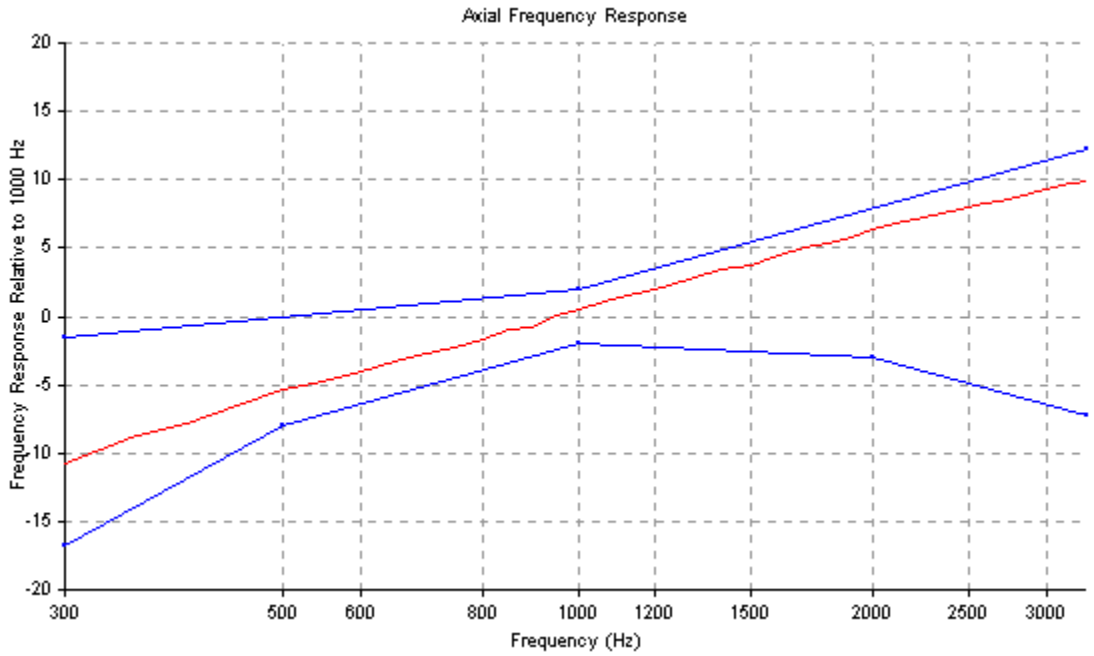
6.1 CS-03 Issue 9 Part V : Results Summary

REQUIREMENTS		Required	Result	Comments
4.2	Axial Field Intensity	Yes	Pass	
4.3	Radial Field Intensity	Yes	Pass	
4.4	Magnetic Field Intensity	Yes	Pass	
6.0	Telephone Receive Volume Control	Yes	Pass	

Appendix A : Hearing Aid Compatibility Test Results

A.1 CS-03 Issue 9 Part V Clause 4.2 Axial Field Intensity
CS-03 Issue 9 Part V Clause 4.3 Radial Field Intensity
CS-03 Issue 9 Part V Clause 4.4 Magnetic Field Intensity

Result at 1000hz for Axial. Measured : -18.537 Result : Pass



Radial Sensitivity Results			
Position	Measured (dB)	Limit (dB)	Pass / Fail
1	-24.753	-27	Pass
2	-22.453	-27	Pass
3	-23.500	-27	Pass
4	-22.440	-27	Pass

Comments:

A.2 CS-03 Issue 9 Part V Clause 6.0 Telephone Receive Volume Control

ROLR AT	B.E.S.	SPEC LIMIT
High Volume (dB):	35.97	
Nominal Volume (dB):	48.88	(min + 51 dB, max 41 dB)
Difference (High-Nominal):	12.91	(min 12 dB, max 18 dB)
Compliance:	Yes	

A.3 ROLR Results: Nominal volume at 0kft line length

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ROLR Acoustic Test Program
------------------------------------------------------------

Software Version :       1.1

Date/Time        :       6/14/06 12:43:26 PM
Mic Sensitivity  :         -38.90
Gain             :       20
Engineer         :       jnixon

Comments :

low

Results
------------------------------------------------------------

Frequency(Hz) :  100      Voltage Level(V) :       0.00012 Sound Pressure (DBPa)     -39.56937
Frequency(Hz) :  125      Voltage Level(V) :       0.00042 Sound Pressure (DBPa)     -28.67668
Frequency(Hz) :  160      Voltage Level(V) :       0.00118 Sound Pressure (DBPa)     -19.63076
Frequency(Hz) :  200      Voltage Level(V) :       0.00251 Sound Pressure (DBPa)     -13.11379
Frequency(Hz) :  250      Voltage Level(V) :       0.00392 Sound Pressure (DBPa)     -9.24448
Frequency(Hz) :  300      Voltage Level(V) :       0.00475 Sound Pressure (DBPa)     -7.56119
Frequency(Hz) :  400      Voltage Level(V) :       0.00589 Sound Pressure (DBPa)     -5.69681
Frequency(Hz) :  500      Voltage Level(V) :       0.00662 Sound Pressure (DBPa)     -4.67995
Frequency(Hz) :  600      Voltage Level(V) :       0.00718 Sound Pressure (DBPa)     -3.97195
Frequency(Hz) :  700      Voltage Level(V) :       0.00756 Sound Pressure (DBPa)     -3.52451
Frequency(Hz) :  1000     Voltage Level(V) :       0.00783 Sound Pressure (DBPa)     -3.22743
Frequency(Hz) :  1500     Voltage Level(V) :       0.00809 Sound Pressure (DBPa)     -2.94511
Frequency(Hz) :  2000     Voltage Level(V) :       0.00719 Sound Pressure (DBPa)     -3.96554
Frequency(Hz) :  2300     Voltage Level(V) :       0.00576 Sound Pressure (DBPa)     -5.89502
Frequency(Hz) :  2700     Voltage Level(V) :       0.00397 Sound Pressure (DBPa)     -9.12922
Frequency(Hz) :  3000     Voltage Level(V) :       0.00278 Sound Pressure (DBPa)     -12.23067
Frequency(Hz) :  3300     Voltage Level(V) :       0.00185 Sound Pressure (DBPa)     -15.74437
Frequency(Hz) :  4000     Voltage Level(V) :       0.00001 Sound Pressure (DBPa)     -64.95566
Frequency(Hz) :  5000     Voltage Level(V) :       0.00001 Sound Pressure (DBPa)     -66.93890
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ROLR Calculation :    48.88
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A.4 ROLR Results: Maximum volume at 0kft line length

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ROLR Acoustic Test Program
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Software Version :       1.1

Date/Time        :       6/14/06 12:45:59 PM
Mic Sensitivity  :         -38.90
Gain             :       20
Engineer         :       jnixon

Comments :

high

Results
------------------------------------------------------------

Frequency(Hz) :  100      Voltage Level(V) :       0.00055 Sound Pressure (DBPa)     -26.34295
Frequency(Hz) :  125      Voltage Level(V) :       0.00163 Sound Pressure (DBPa)     -16.86424
Frequency(Hz) :  160      Voltage Level(V) :       0.00490 Sound Pressure (DBPa)     -7.29253
Frequency(Hz) :  200      Voltage Level(V) :       0.01069 Sound Pressure (DBPa)     -0.51638
Frequency(Hz) :  250      Voltage Level(V) :       0.01683 Sound Pressure (DBPa)      3.42272
Frequency(Hz) :  300      Voltage Level(V) :       0.02084 Sound Pressure (DBPa)      5.27796
Frequency(Hz) :  400      Voltage Level(V) :       0.02614 Sound Pressure (DBPa)      7.24645
Frequency(Hz) :  500      Voltage Level(V) :       0.02972 Sound Pressure (DBPa)      8.36098
Frequency(Hz) :  600      Voltage Level(V) :       0.03238 Sound Pressure (DBPa)      9.10581
Frequency(Hz) :  700      Voltage Level(V) :       0.03423 Sound Pressure (DBPa)      9.58763
Frequency(Hz) :  1000     Voltage Level(V) :       0.03546 Sound Pressure (DBPa)      9.89478
Frequency(Hz) :  1500     Voltage Level(V) :       0.03644 Sound Pressure (DBPa)     10.13109
Frequency(Hz) :  2000     Voltage Level(V) :       0.03210 Sound Pressure (DBPa)      9.02902
Frequency(Hz) :  2300     Voltage Level(V) :       0.02564 Sound Pressure (DBPa)      7.07802
Frequency(Hz) :  2700     Voltage Level(V) :       0.01777 Sound Pressure (DBPa)      3.89375
Frequency(Hz) :  3000     Voltage Level(V) :       0.01235 Sound Pressure (DBPa)      0.73053
Frequency(Hz) :  3300     Voltage Level(V) :       0.00831 Sound Pressure (DBPa)     -2.70819
Frequency(Hz) :  4000     Voltage Level(V) :       0.00004 Sound Pressure (DBPa)     -48.38670
Frequency(Hz) :  5000     Voltage Level(V) :       0.00001 Sound Pressure (DBPa)     -61.47015
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ROLR Calculation :    35.97
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Appendix B : Photographs of Test Samples

Photographs were taken of relevant samples during assessment. These are detailed below and are included in this appendix.

B.1 Front View : CT7141H-US
B.2 Rear View : CT7141H-US

The photographs depict the samples as originally submitted.

Photograph B.1

Photograph B.2