

Marstech Limited

11 Kelfield Street, Etobicoke, Ontario, Canada, M9W 5A1
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TEST REPORT

REPORT DATE:	January 31, 2000	REPORT NO:	20015D
CONTENTS:	See Table of Contents		
SUBMITTOR:	THOMSON CONSUMER ELECTRONICS, INC. Audio & Communications Product Dev. 101 West 103 rd Street Indianapolis, IN 46290-1102 USA		
SUBJECT:	Model No:	26700XXX-C	
	FCC ID:	G9H2-6700C	
TEST SPECIFICATION	FCC CFR 47 15.233 AND 2.989 Sections: 15.35, 15.107, 15.109, 15.207 and 15.209 NOTE: Tests Conducted Are "Type" Tests.		
DATE SAMPLE RECEIVED:	January 11, 2000	DATE TESTED:	January 21 to 25, 2000
RESULTS:	Equipment tested complies with referenced specification.		
ALTERATIONS	The following alterations required for compliance with referenced specification: Base Unit: C48, 68 pF capacitor, was changed to 150 pF.		
Tested by:	Original signed by: Jim Sims Hiran De Silva	Approved and Certified by: R. G. MARSHALL	Robert G. Marshall, P. Eng.
Reviewed by:	Edward Chang	Date:	Feb 9/00

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Authorized by:

Professional Engineer
Ontario

Engineering &
Administrative

CERTIFIED
AGENCY

Testing For FCC
Submissions/Verifications

Approved Test Facility

Qualified
FACILITY

MARSTECH LIMITED

TECHNICAL REPORT - FCC 2.1033(b)

Applicant

Thomson Consumer Electronics, Inc.
Audio & Communications Product Dev.
101 West 103rd Street
Indianapolis, IN
46290-1102 USA

FCC Identifier

G9H2-6700C

Manufacturer

Huiyang CCT Telecommunications Products Co.
San He Economic Experimental Zone
Huiyang, Guangdong Province, The PRC

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B	Description of Circuit Functions	2.1033(b)(4)	Exhibit B Exhibit B(1)-1 to -3
C	Block Diagram	2.1033(b)(5)	Exhibit C Exhibit C(1)-1 to -2
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	Device Measured		Exhibit D(1)-1
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EXHIBIT D

(FCC Ref. 2.1033(b)(6))

"Report of Measurements"

EXHIBIT D(1)

DEVICE MEASURED

(FCC Ref. 2.1033(b)(6))

APPLICANT: Thomson Consumer Electronics, Inc.
Audio & Communications Product Dev.
101 West 103rd Street
Indianapolis, IN
46290-1102 USA

MANUFACTURER: Huiyang CCT Telecommunications Products Co.
San He Economic Experimental Zone
Huiyang, Guangdong Province, The PRC

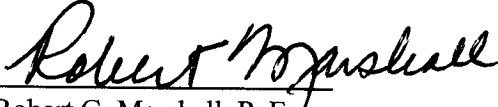
FCC IDENTIFIER: G9H2-6700C

MODEL NUMBER: 26700XXX-C

SERIAL NO.: 90000013

Marstech Limited
11 Kelfield Street
Etobicoke, Ontario
M9W 5A1 CANADA

TECHNICIANS:
Jim Sims - Com-Serve Corp.
Edward Chang - Marstech Limited


Robert G. Marshall, P. Eng.

Date: Feb 9/00

EXHIBIT D(2)

TEST FACILITY AND EQUIPMENT LIST

FACILITIES

- Radiated ANSI C63.4 (FCC OET/55) open field 3 meter test range. This test range is protected from the cold and moisture by a non-conductive enclosure.
- Conducted 2.5m Anechoic Chamber

EQUIPMENT

Hewlett-Packard spectrum analyzer # 8554 RF & 141T video.
Anritsu 2601 A spectrum analyzer.
Advantest R3261A Spectrum Analyzer
Hewlett-Packard RF generator # 8640 B with an 002 doubler
Hewlett-Packard attenuator 30 dB # 11708A.
Narda 20 watt (20 dB) attenuator
Compliance Design P950 Preamplifier 16dB 25 MHz - 1.0 GHz
A.H. Systems biconical antenna; 20 MHz - 330 MHz
A.H. Systems log periodic antenna; 300 MHz - 1.8 GHz
Eaton dipole antennas; T1, T2, T3 25 MHz - 1.0 GHz
CDI Roberts dipole antennas; T1, T2, T3 & T4 25 MHz - 1.0 GHz

NOTE:

The Anritsu 2601 A spectrum analyzer, the Hewlett-Packard spectrum analyzer and the Advantest R3261A spectrum analyzer are calibrated annually, and that calibration is directly traceable to the National Research Council of Canada (NRC). This equipment is only used by qualified technicians and only for the purpose of EMI measurements. The three meter test range has been carefully evaluated to the ANSI document C63.4 and will be remeasured for reflections and losses every three years.

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1585 (ext-218)
Facsimile: 301-344-2050

September 23, 1997

IN REPLY REFER TO
31040/SIT
1300F2

Electrohome Electronics Ltd
809 Wellington Street, North
Kitchener, Ontario N2G 4J6, Canada

Attention: Garry Gallagher

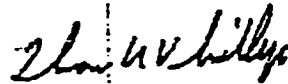
Re: Measurement facility located at Roseville
(3 meter site)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.943 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C63.4-1992. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

Per your request, the above mentioned facility has been also added to our list of those who perform these measurement services for the public on a fee basis. This list is published periodically and is also available on the Laboratory's Public Access Link as described in the enclosed Public Notice.

Sincerely,



Thomas W. Phillips
Electronics Engineer
Customer Service Branch

EXHIBIT D(2)

SPECTRUM ANALYZER -

ANRITSU MS2601A S/N MT64544 - NEXT
CALIBRATION APRIL 2000

SUMMARY OF RESULTS

COMPLIANCE
(yes) (no)

FIELD STRENGTH OF THE CARRIER FREQUENCIES

Handset:	48 MHz and 49 MHz bands	(x)	()
Base Station:	43/44 MHz and 46 MHz bands	(x)	()

OCCUPIED BANDWIDTH

Handset:	48 MHz and 49 MHz bands	(x)	()
Base Station:	43/44 MHz and 46 MHz bands	(x)	()

SPURIOUS RADIATED EMISSIONS

Handset:	48 MHz and 49 MHz bands	(x)	()
Base Station:	43/44 MHz and 46 MHz bands	(x)	()

LINE CONDUCTED SPURIOUS EMISSIONS

Base Station:	<u>Telephone & Intercom mode(s):</u> 43/44 MHz and 46 MHz bands	(x)	()
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TRANSMITTER ENVIRONMENTAL TESTS

Handset:	(x)	()
Base Station:	(x)	()

EQUIPMENT REQUIREMENTS AND IDENTIFICATION

a) Manufacturers or applicants name:	(x)	()
b) FCC ID:	(x)	()
c) Serial number:	(x)	()
d) Antenna:	(x)	()
e) Operator controls:	(x)	()
f) Security Coding	(x)	()
g) Equipment/Packaging Marking	(x)	()

CARRIER FREQUENCY FIELD STRENGTH

RESULTS

Handset: **Maximum field strength of 2,045 μ V/M: Channel # 01**
Handset: **Maximum field strength of 5,204 μ V/M: Channel # 25**

Base Station:

Modes:

Telephone: **Maximum field strength of 9,230 μ V/M: Channel # 01**

Telephone: **Maximum field strength of 8,677 μ V/M: Channel # 25**

TEST CONDITIONS

Equipment Positioning:

Handset: vertical or upright

Base Station: standing on its back with the antenna extended in the vertical plane

Antenna Polarization:

Handset: vertical

Base Station: vertical

Antenna Type: T.1; tuned half wave dipole

Measurement Bandwidth: 100 KHz (IF)

Supply Voltages:

Handset: 3.6 VDC from an internal battery.

Base Station: 120 VAC/60 Hz to 09 VDC (adapter)

METHODS OF MEASUREMENT

The cordless phone components were placed in turn on a one metre high, non-metallic turntable. Measurements were made in a minimum of 3 positions for the handset and 2 for the base station. If adjustable, the whip antennas were fully extended.

For each of the above conditions the turntable was rotated through 360 degrees while the receiving antenna, at three (3) metres from the EUT, was varied in height from 1 to 4 metres and set in both planes of polarization to find the maximum signal strength. The unmodulated carrier level was measured using a spectrum analyzer. The measured level was converted to a field strength using the antenna correction factors and cable losses.

All base station measurements were made with the equipment under test connected to an artificial telephone line network, with 48 VDC applied.